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SYLLOGE
FUNGORUM

OMNIUM HUCUSQUE COGNITORUM

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P. A. SACCARDO

VOL. XIV

SUPPLEMENTUM UNIVERSALE

Pars IV.

AUCTORIBUS

P. A. SACCARDO ET P. SYDOW

ADJECTUS EST INDEX TOTIUS OPERIS

Fol. 83 — Pretium it. lib. (*francs*) 83.

PATAVII

Die XX Augusti MDCCCIC.

SUMPTIBUS P. A. SACCARDO

TYPIS SEMINARIJ

SPECIES FUNGORUM IN HOC VOLUMINE PRIMITUS DESCRIPTÆ

<p><i>Acanthostigma crastophilum</i> Sacc. et F. p. 1137.</p> <p><i>Æcidium bicolor</i> Sacc. p. 385.</p> <p><i>Aschersonia Goldiana</i> Sacc. et E. p. 990.</p> <p><i>Cylindrosporium Tabelajæ</i> Sacc. p. 1034.</p> <p><i>Cytosporina brunnea</i> Sacc. p. 988.</p> <p><i>Diaporthe</i> (<i>Chorosate</i>) <i>Bonafidii</i> Sacc. p. 545.</p> <p><i>Diaporthe</i> (<i>Euporthe</i>) <i>Elæagni</i> Rehm, p. 547.</p> <p><i>Dipodia Hyssopi</i> Sacc. et F. p. 933.</p> <p><i>Eriospora ambiens</i> Sacc. p. 987.</p> <p><i>Glæosporium ochrostictum</i> Sacc. p. 1007.</p> <p><i>Leptostroma aquilinum</i> C. Mass. p. 995.</p> <p><i>Massarina Marsilii</i> Sacc. p. 537.</p> <p><i>Micropera fusco-mellea</i> Sacc. p. 987.</p>	<p><i>Oospora Cascaræ</i> Sacc. p. 1038.</p> <p><i>Oospora Nicotianæ Splend.</i> et Sacc. p. 1057.</p> <p><i>Phialea violascens</i> Rehm, p. 769.</p> <p><i>Phoma insulata</i> Sacc. p. 879.</p> <p><i>Phyllachora tonkinensis</i> Sacc. p. 669.</p> <p><i>Phyllachora topographica</i> Sacc. p. 669.</p> <p><i>Phyllosticta chlorospila</i> Sacc. et F. p. 1137.</p> <p><i>Phyllosticta perforans</i> Sacc. et Matt. p. 849.</p> <p><i>Poiysectalum Saccardianum</i> Brizi p. 1040.</p> <p><i>Septoria Alyssi</i> Bres. p. 968.</p> <p><i>Septoria Azalææ</i> Vegliino p. 976.</p> <p><i>Sirodesmium ramosum</i> Sacc. p. 1137.</p> <p><i>Sphærænæna Balansæ</i> Sacc. p. 900.</p> <p><i>Stigmatea Ulei</i> Br. et Sacc. p. 585.</p> <p><i>Trichopeziza hamata</i> Sacc. p. 1137.</p> <p><i>Vermicularia oligochæta</i> Sacc. p. 908.</p>
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SUMMA FUNGORUM HUCUSQUE COGNITORUM.

Species in voluminibus I-XI descriptæ	42,388
Species in hoc volumine XIV descriptæ	4,921
Species fungorum ad diem cognitæ	
	47,304

PRÆMONITUS

Quadriennium jam elapsum est, ex quo prodiit *Syloges* supplementum tertium seu operis totius volumen XI *) et interea tam magna mycetum novorum copia ex toto orbe collecta est ut editio novi supplementi opportuna, ne dicamus necessaria, visa sit. Volumen præsens amplectitur diagnoses mycetum ab initio anni MDCCCXCV ad finem ann. MDCCCXCVII editorum, quibus non multi ex editis anno MDCCCXCVIII adjecti sunt **). In hoc volumine præterea inveniuntur diagnoses XXIX mycetum omnino novorum, quorum catalogus in præcedente pagina exhibitus est.

Quibus rationibus utile visum sit volumini præmittere *Tabulas comparativas generum fungorum omnium* et in calcem addere conspectum *Myceliorum sterilibum* (hucusque in opere nostro prætermisorum), suis locis clare videbitur.

Putavii et Berolini, X Junii MDCCCIC.

P. A. SACCARDO

P. SYDOW

*) Vol. XII continet SYDOWII Indicem universalem et locupletissimum generum, specierum, subspecierum, varietatum hospitemque in toto opere expositum, Berolini 1897; vol XIII sistit EJUSDEM Indicem universalem et locupletissimum nominum plantarum hospitem specierumque omnium fungorum has incolentium, que usque ad finem anni 1897 innotuerunt, Berolini 1898.

***) In « Hedwigia » voluminibus XXXV-XXXVII (1896-1898), curantibus P. A. SACCARDO, G. LINDAU et P. SYDOW, prodierunt *Elenchi fungorum novorum annis 1895-1897 editorum*, tamen nulla diagnosi præditi.

Mycologi v. botanici qui quocumque modo «Syllogi» profuerunt *)

(Continuatio. Cfr. vol. VIII, p. ix, X, p. v, XI, p. vii).

- | | |
|---|---|
| ADERHOLD R. (<i>Proskau</i>) | MOTTAREALE G. (<i>Portici</i>) |
| BAUVERIE J. (<i>Lyon</i>) | NORTON J. B. S. (<i>Manhattan</i>) |
| BERLESE AMEDEO (<i>Napoli</i>) | NUTTALL L. W. (<i>Nuttallburg</i>) |
| BERNATSKY J. (<i>Budapest</i>) | POLLACCI G. (<i>Pavia</i>) |
| BLÓNSKI F. (<i>Warszawa</i>) | POPTA C. M. L. (<i>Zeist, Olanda</i>) |
| BOULANGER EM. (<i>Paris</i>) | POTEBNIA A. A. (<i>Kharcoff</i>) |
| BOYER G. (<i>Montpellier</i>) | PRILLIEUX ED. (<i>Paris</i>) |
| BUNAE F. (<i>Hohenstadt</i>) | RACIBORSEI M. (<i>Java</i>) |
| BUCHOLTZ F. (<i>Moskwa</i>) | RICHARDS H. M. (<i>New York</i>) |
| BURNAP C. E. (<i>Cambridge Mass.</i>) | RICK J. (<i>Feldkirch</i>) |
| CASAGRANDE O. (<i>Catania</i>) | SELBY A. D. (<i>Wooster, Ohio</i>) |
| CROSSLAND C. (<i>Halifax</i>) | SHELDON E. P. (<i>Minneapolis</i>) |
| DECKENBACH G. (<i>St. Petersburg</i>) | SMITH E. F. (<i>Washington</i>) |
| DELAUROIS G. (<i>Paris</i>) | SNYDER L. (<i>Lafayette</i>) |
| DE LA MARLIÈRE G. (<i>Paris</i>) | SOPPITT H. V. (<i>Halifax</i>) |
| DESTREE CAROLINE (<i>La Haye</i>) | SPESCHNEU N. (<i>Tiflis</i>) |
| DURAND E. I. (<i>Ithaca</i>) | STONEMAN BERTHA (<i>Ithaca</i>) |
| EICHLER J. (<i>Stuttgart</i>) | TAKAHASHI Y. (<i>Tokio</i>) |
| ELIASSON A. G. (<i>Upsala</i>) | TASSI FLAM. (<i>Siena</i>) |
| HARPER R. A. (<i>Bonn</i>) | TRANZSCHEL W. (<i>Nowgorod</i>) |
| JAC Y E. (<i>Bern</i>) | TROTTER ALEX. (<i>Padova</i>) |
| KIRCHNER O. (<i>Hohenheim</i>) | UNDERWOOD L. M. (<i>New York</i>) |
| KLEBBAN H. (<i>Hamburg</i>) | VESTERGREEN T. (<i>Upsala</i>) |
| LLOYD C. G. (<i>Cincinnati</i>) | WEBSTER H. (<i>Cambridge Mass.</i>) |
| LOPRICRE G. (<i>Catania</i>) | WILDEMAN E. (DE) (<i>Bruxelles</i>) |
| MAIRE R. (<i>Dijon</i>) | ZOPF W. (<i>Halle</i>) |
| MONTEMARTINI L. (<i>Pavia</i>) | ZUKAL H. (<i>Wien</i>). |

*) Plurimi ex citatis botanicis opera v. opuscula mycologica benevole miserunt, quibus, æque ac prius laudatis, editor devinctissimus gratias agit.

ADDENDA ET EMENDANDA

IN TABULIS COMPARATIVIS GENERUM FUNGORUM.

- Pag. 8, ad n. 127 pone: *Russulina* Schröt.
 » 9, » 167 » : *Marasmiopsis* Henn.
 » 19, » 296 loco *Winteriæ* pone *Winterina* Sacc. em. 1891
 » 19, » 298 » *Winterinæ* pone *Winteria* Rehm, 1881.
 » 23. Hypocr., ad n. 27. pone: [*Chiajæa* Sacc. 1896].
 » 26, Hyster., » 33 aufer *Actidium* et pone ad n. 104.
 » 26, » » 102 pone: *Delpinozlla* Sacc
 » 27, » » 100 aufer *Glyphium* et pone sub n. 90 (*Lophium*).
 » 31, ad n. 198 aufer *Dermatella* et pone ad n. 199.
 » » » 203 » *Belonidium* » » 204.
 » » » 223 » *Belonium* » » 224.
 » » » 243 » *Velutaria* » » 239.
 » 32, Ascob., sub n. 6 adde *Boudierella* Sacc. 1895.
 » » Bulg., ad n. 53 pone *Agyriopsis* Sacc. et Syd. 1899.
 » 33, Phac. n. 96 aufer *Rhymbocarpus* et pone ad n. 25, Patell.
 » 40, sub n. 74 pone [*Epithyrium* Sacc. 1892].
-

- Pag. 1037, *Oospora Nicotianæ* Pezz. et Sacc. dicatur *Oospora Nicotianæ* Splend. et Sacc. et citetur: D.^r A. SPLENDORE, Sopra una nuova specie di *Oospora*, denominata *O. Nicotianæ*, quale causa della « fioritura » nei sigari forti etc. Roma, 1899, cum tabula optima.
 1160, *Sclerotium umbilicatum* Desm. (1845) dicatur *Scl. Desmazierii* Sacc. et Syd., extante homonymo Laschii (1844), pag. 1145.
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TABULÆ COMPARATIVÆ

GENÉRUM FUNGORUM OMNIUM

AUCTORE P. A. SACCARDO

Tabulæ hæ, etsi adhuc imperfectæ et ulterius emendandæ, tamen ex iis, quæ sequuntur, satis utiles videntur.

I. Clare ex iis demonstratur, quam magna sit differentia fungorum serierum in characteribus sporarum. Demptis paucis cohortibus, hæc habetur lex: quanto majores et crassiores sunt mycetes, tanto eorum sporæ sunt simpliciores et minores. Hymenomycetæ, Gasteromycetæ, Ascomycetæ majores etc. sunt potissimum *amero-sporæ*; Pyrenomycetæ, Hysteriaceæ, Patellariaceæ, Sphærospidaceæ, Hyphomycetæ etc. sunt plerumque *heterosporæ*.

II. Permultis in casibus generum analogia sporologica et, ut ita dicam, parallelismus clare elucescit *). Quo factum est, ut lacunæ in generum seriebus mox manifesta fiant et, cum lacunæ sint numeratæ, generum in posterum inveniendorum locus in systemate numero lacunarum exacte indicari possit. Quod si locus sit jam occupatus, licet genus novum satis discrepet, id indicabimus numero lacunæ occupatæ, addita lineola supra v. infra, ut affinitas magis pateat. Exempla: si aliquando invenietur Agaricacea quædam characteribus *Amanitæ* sed ochrospora, hæc lacunam vacuam n.º 3 occupabit; si

*) SACCARDO. *I prevedibili funghi futuri secondo la legge d'analogia*. Venezia 1896 (Atti del r. Istituto Veneto).

Armillaria rhodospora invenietur, hæc n.º 22 distinguetur. Si vero aliquando reperietur genus novum inter *Volvariam* et *Chamæotam* medium, id indicabimus n.º 6 vel 10, prout sit uni v. alteri affinius.

Numeri in quaque familia ab *uno* incipiunt. Hinc familia ubique nobis citanda est. E. g. *Agaricaceæ* n.º 22, *Polyporaceæ* n.º 10, *Perisporiaceæ* n.º 83, etc. In familiis hucusque isosporis, ut *Nidulariaceæ*, *Lycoperdaceæ* etc., numeri e loco generum desumi possunt.

III. Tabule hæc insuper facilem viam aperiunt ad fungorum genericam determinationem. Exemplum: ubi nobis sit determinanda Agaricacea quædam melanospora anulata, cognitâ jam nobis *Armillariâ*, facili negotio comperiemus genus datum probabiliter esse *Strophariam*, *Armillariæ* parallelum.

IV. Denique, annus institutionis cujusque generis hic additus - in Sylloge sæpius omissis - scientiæ mycologicæ progredientem evolutionem, imprimis sporologicam, demonstrabit. Revera si hodie *Agaricum* a *Lepiota*, *Nolaneam* a *Galera*, *Puccinium* ab *Uromycete*, *Geoglossum* a *Microglosso*, *Pleospora* a *Leptosphaeria*, *Phoma* a *Coniothyrio*, *Gleosporium* a *Marsonia*, *Gymnosporium* a *Coniosporio* et cetera alia genera distinguimus, hoc characteribus sporologicis omnino innititur. Hinc monitum, ut ad notas sporologicas fungorum maxima cura nobis sit jugiter attendendum.

CONSPECTUS COHORTIUM ET FAMILIARUM *)

COHORTES:

- I. Basidiomycetæ
- II. Ascomycetæ
- III. Phycomycetæ
- IV. Myxomycetæ
- V. Deuteromycetæ

I. Basidiomycetæ

A. EUBASIDIE

a. Holobasidiæ

- | | | |
|-------------------|---|--|
| 1. Angiocarpæ | } | Nidulariaceæ
Sclerodermaceæ
Lycoperdaceæ
Hymenogastraceæ. |
| 2. Hemiangiocarpæ | } | Phallaceæ
Agariaceæ |
| 3. Gymnocarpæ | } | Polyporaceæ
Hydnaceæ
Clavariaceæ
Thelephoraceæ |

b. Protobasidiæ

- | | | |
|-------------------|---|-------------------------------|
| 1. Schizobasidiæ | } | Daeromycetaceæ
Tremellaceæ |
| 2. Phragmobasidiæ | } | Auriculariaceæ
Uredinaceæ |
| B. HEMIBASIDIE | } | Ustilaginaceæ
Tilletiaceæ |

II. Ascomycetæ

A. ESASCÆ

a. Holoascæ

- | | | |
|---------------------------------|---|--|
| 1. Pyrenoascæ
[Pyrenomycetæ] | } | Xylariaceæ
Hypocreaceæ
Dothideaceæ
Valsaceæ
Sphaeriaceæ
Coryneliaceæ
Ceratostomaceæ
Lophiostomaceæ
Perisporiaceæ
Microthyriaceæ
Hemihysteriaceæ
Hysteriaceæ
? Laboulbeniaceæ |
| 2. Hymenoascæ | } | Phymatosphaeriaceæ
Onygenaceæ |
| * Angiocarpæ
[Tuberoideæ] | } | Elaphomycetaceæ
Trichocomaceæ
Cenococcaceæ
Tuberaceæ |

*) Divisiones systematis primariæ plerumque secundum ell. BREFFELD vel SCHRUETER.

- | | | |
|-------------------|---|-------------------|
| | } | Cyttariaceæ |
| | | Helvellaceæ |
| | | Pezizaceæ |
| | | Ascobolaceæ |
| | | Dermateaceæ |
| ** Hemiangiocarpæ | | Engleriaceæ |
| [Discomycetæ] | | Stictidaceæ |
| | | Phacidiaceæ |
| | | Patellariaceæ |
| | | Cordieritaceæ |
| | | Caliciaceæ |
| | | Arthoniaceæ |
| *** Gymnocarpæ | } | Gymnoascaceæ |
| | | Exosascaceæ |
| | | Ascocorticaceæ |
| b. Protoasceæ | } | Saccharomycetaceæ |
| | | Endomycetaceæ |
| B. HEMIASCÆ | } | Ascoideaceæ |
| | | Protomycetaceæ |
| | | Monasceæ |

III. Phycomycetæ

A. ZYGOMYCETÆ

- | | |
|---------------|------------------|
| a. Sporangieæ | Mucoraceæ |
| b. Conidieæ | Entomophthoraceæ |

B. OOMYCETÆ

- | | |
|------------------|----------------|
| a. Sporangieæ | |
| * Hemisporangieæ | { Chytridiaceæ |
| | { Ancylistaceæ |

- | | |
|-----------------|---------------------|
| ** Eusporangieæ | { Monoblepharidaceæ |
| | { Saprolegniaceæ |
| b. Conidieæ | { Cystopodaceæ |
| | { Peronosporaceæ |

IV. Myxomycetæ

A. PLASMODIATÆ

- | | | |
|-----------------|---------------------|----------------|
| * Angiocarpæ | Myxomycetaceæ | |
| ** Gymnocarpæ | } | |
| | | Ceratiomyxaceæ |
| | | Phytomyxaceæ |
| | | Acrasiaceæ |
| | { ? Myxobacteriaceæ | |
| B. APLASMODIATÆ | ? Monadinaceæ | |

V. Deuteromycetæ

seu Fungi secundarii v. inferiores.

- | | | |
|--------------------------------|-------------------|----------------|
| * Angiocarpæ [Sphaeropsidaceæ] | } | |
| | | Sphaerioidaceæ |
| | | Nectrioidaceæ |
| | { Leptostromaceæ | |
| | { Excipulaceæ | |
| ** Hemiangiocarpæ | Melanconiaceæ | |
| *** Gymnocarpæ [Hyphomycetæ] | } | |
| | | Mucedinaceæ |
| | | Dematiaceæ |
| | | Stilbaceæ |
| | { Tuberculariaceæ | |

CONSPECTUS SECTIONUM SPOROLOGICARUM

- I. **Amerosporæ**, sporis continuis, globosis, ovoideis v. oblongis v. breve cylindraceis quocumque colore.
- a. **Leucosporæ**, sporis u. s. albis v. albidis.
 - b. **Rhodosporæ**, sporis u. s. roseis v. sordide roseis.
 - c. **Ochrosporæ**, sporis u. s. ochraceis v. subferrugineis.
 - d. **Melanosporæ**, sporis u. s. atro-purpureis v. nigricantibus.
 - e. **Jonosporæ**, sporis u. s. violaceis.
- f. **Amaurosporæ**, sporis globosis v. subglobosis, violaceis v. violaceo-brunneis.
- g. **Lamprosporæ**, sporis globosis v. subglobosis, lætius coloratis, nec violaceis.
- h. **Allantosporæ**, sporis cylindraceis, curvatis (allantoideis) hyalinis v. pallide coloratis,
- i. **Hyalosporæ**, sporis globosis, ovoideis v. oblongis, hyalinis.
- j. **Phæosporæ**, sporis globosis, ovoideis v. oblongis, brunneis.
- II. **Didymosporæ**, sporis ovoideis v. oblongis, 1-septatis, quocumque colore.
- a. **Hyalodidymæ**, sporis iisdem, sed hyalinis.
 - b. **Phæodidymæ**, sporis iisdem, sed brunneis.
- III. **Phragmosporæ**, sporis oblongis, 2-pluri-septatis quocumque colore.
- a. **Hyalophragmiæ**, sporis iisdem, sed hyalinis.
 - b. **Phæophragmiæ**, sporis iisdem, sed brunneis.
- IV. **Dictyosporæ**, sporis ovoideis v. oblongis, reticulato-septatis, quocumque colore.
- a. **Hyalodictyæ**, sporis iisdem, sed hyalinis.
 - b. **Phæodictyæ**, sporis iisdem, sed brunneis.
- V. **Scolecosporeæ**, sporis filiformibus v. vermicularibus, continuis v. septulatis, hyalinis v. pallide coloratis.
- VI. **Helicosporæ**, sporis cylindraceis in spiram convolutis, continuis v. septulatis, hyalinis v. coloratis.
- VII. **Staurosporæ**, sporis stellatis, h. e. radiato-lobatis, continuis v. septulatis, hyalinis v. coloratis.

in *Basidiomycetis* et
Phycomycetis.

in *Myxomycetis*.

in *Ascomycetis* et *fungis*
inferioribus. raro in
Basidiomycetis.

	Amerosporæ		Amerosporæ
Basidiomycetæ *)			
1. Nidulariaceæ	Nidularia Bull. om. 1780 Cyathus Hall. 1768 Crucibulum Tul. '44 Lacryobolus Fr. '49 Sphaerobolus Tode 1791		Arcolaria Forq. '86 Phellorina Berk. '43 Favillea Fr. '48 Polygaster Fr. '23 Polysaccum DC. '15 ?Testicularia Kl. '32 Arachnion Schw. '22 Seoleciocarpus Berk. '43 ?Paurocotylis Berk. '55
2. Lycoperdaceæ Podaxæ	Gyrophragmium Mont. '43 Socotium Kunze '40 Polyplocium Berk. '43 Cycloderma Kl. '32 Mesophellia Berk. '60 Protoglossum Massee '91 Cauloglossum Grev. '32 Gymnoglossum Massee '91 Podaxon Fr. '32 Chrenoderma Massee '90 Sphaericeps W. et C. '67.	Dubiæ	Ciliociarpus Corda '36 Lycogalopsis Fisch. '86 Glischoderma Fuck. '69
Diplodermæ	Tylostoma Pers. 1797 Quoletia Fr. '71 Battarrea Pers. 1801 Hussoya Berk. '47 Mitremyces Nees '16 Geaster Mich. 1729 Stella Massee '89 Diploecystis B. et C. '67 ?Diploderma Link. '16 Trichaster Czern. '45 Broonia Berk. '44 Coilomyces B. et C. '33	4. Hymenogastraceæ	Hysterangium Vitt. '31 Octaviana Vitt. '31 Sclerogaster Hesse '91 Rhizogon Fr. '18 Melanogaster Corda '57 Hymnogaster Vitt. '31 Hydnangium Wallr. '41 Gautieria Vitt. '31 Macowanites Kälchb. '76 Leucogaster Hesse '83 Phlyctospora Corda '42 ?Pompholyx Corda '41 ?Pachyderma Schulz. '77
Lycoperdeæ	Lanopila Fr. '48 Lycoperdon Tomm. 1700 Eriosphaera Reichardt '70 Catastoma Morg. '92 Bovista Dill. 1719, Pers. 1797 Calvatia Fr. '49	5. Phallaceæ Phalleæ	Dictyophora Desv. 1809 Ithyphallus Fr. '23 Itajahya Möll. '95 Mutinus Fr. '49 Aporophallus Möll. '95 Kälchbrennera Berk. '70 Floccomutinus Henn. '95
3. Sclerodermaceæ	Hippoperdon Mont. '42 Clayogaster Henn. '96 Scleroderma Pers. 1801 ?Castoreum C. et M. '87 Xylopodium Mont. '43	Clathræ	Sinblum Kl. '31 Blumenavia Möll. '95 Clathrus Mich. 1729 Colus Cav. et S. '35 Lysurus Fr. '23 Anthurus Kälchb. '80 Calathiscus Mont. '42 Aseroe La Bill. 1798 Protuberia Möll. '95
		Phallogastrea	Pallogaster Morg. '92

*) Genera in *Sylloge* nondum accepta vel ut subgenera habita, hic inter parentheses rectas inscribuntur.

Genera iterata ob affinitates ancipites, inter parentheses curvas includuntur.

	Leucosporæ	Rhodosporæ	• Ochrosporæ	Melanosporæ
6. Agaricaceæ A. Haplophyllæ α. Molles Agaricææ	Amanita Pers. 1797 Amanitopsis Roze '76 Lepiota Pers. 1797 Schulzeria Bres. '86 17 Armillaria Fr. '21 [Armillariella Karst. '79] [Mucidula Pat. '87] Tricholoma Fr. '21 [Melaleuca Pat. '87] 41 Clitocybe Fr. '21 [Laccaria B. et Br. '83] [Lepista (Fr.) Karst. '79] Collybia Fr. '21 (Marasmius Fr. trib. I) Mycena Pers. 1797 Hiatula Fr. '51 Omphalia Pery 1801 Pleurotus Fr. '21 [Phyllotus Karst. '79 = Calathinus Quél. '86] Leucocoprinus Pat. '88 89 93 97 101	Metraria C. et M. '91 Volvaria Fr. '21 Chamaeota W. Sm. '70 (= Annularia Schulz. '68 nec Stern. '21) Pluteus Fr. '21 18 22 26 30 Enoloma Fr. '96 38 42 Clitopilus Fr. '21 50 54 Leptonia Fr. '21 62 Nolanea Fr. '21 70 Eccilia Fr. '21 Claudopus W. Sm. '73 [Dechmiopus Pat. '87] 86 90 94 98 102	3 Locellina Gill. '74, Sacc. (= Acetabularia B. nec Lan. Cyphellopus Fay '89) Pholiotella Spæg. '89 Pluteolus Fr. '74 [Rozites Karst. '79] Pholiota Fr. '21 27 31 Hebeloma Fr. '21 Inocybe Fr. '21 [Clypeus Britz. '81] Flammula Fr. '21 51 [Ripartites Karst. '79] Naucoria Fr. '21 63 Galera Fr. 21 71 Tubaria W. Sm. '70 Crepidotus Fr. '21 83 Bolbitius Fr. '38 91 Cortinarium Pers. 1801 (sub Cortinaria) (Locellina Gill.) 103	4 Clarkcinda O. K. '91 (= Chitonina Fr. '74, nec M. S. '24) Agaricus L. 1757 em. Pilosace Fr. '51. 20 Stropharia Fr. '49 28 32 Hypholoma Fr. '21 [Næmatoloma Karst. '79] [Lacrimaria Pat. '87] Panæolus Fr. '36 [Anellaria Karst. '79] 56 Psilocybe Fr. '21 64 Psathyra Fr. '21 Psathyrella Fr. '36 Deconica W. Sm. '70 80 84 Coprinus Pers. 1797 [Oncepus Karst. '79] [Pselliophora Karst. '79] Gomphidius Fr. '38 Montagnites Fr. '38
Paxilleæ	Lyophyllum Karst. '81 Lepista (Fr.) Karst. '79 (Laccaria B. et Br. '83) Hygrophorus Fr. '38	106 110 114 118	Paxillus Fr. '36 [Tapinia Fr. '21] 115 119	108 112 116 120
Lactariæ (Asterosporæ)	Lactarius Pers. 1797 (sub Lactaria) Russula Pers. 1796	122 126	123 127	124 128

	Leucosporæ	Rhodosporæ	Ochrosporæ	Melanosporæ
Cantharellæ	Cantharellus Pers. 1797	130	131	132
	[Dyctiolus Quél. '88]	134	135	136
	(= Leptoglossum Karst. Jun. '79, nec Cooke Febr. '79)			
	(Craterellus Fr.)	(Nevrophyllum Pat.)	139	140
	Trogia Fr. '38	142	143	144
	Arrhenia Fr. '49	146	147	148
	Rimbachia Pat. '91	150	151	152
	Nyctalis Fr. '25	154	155	156
	?Stylobates Fr. '38.	158	159	160
	Campanella P. Henn. '95	162	163	164
b. Tenaces Marasmiæ	Marasmius Fr. '38	Schinzinia Fay. '90	167	Anthracophyllum Ces. '79
	[Androsaceus Pat. '87]	170	171	172
	Heliomyces Lév. '44	174	176	176
	Lentinus Fr. '25	178	179	180
	[Hemicybe Karst. '79]	182	183	184
	(Lentodium Morg. '95)	186	187	188
	Panus Fr. '38	190	191	192
	[Panellus Karst. '79]	194	195	196
	[Scytinotus Karst. '79]	198	199	200
	Xerotus Fr. '28	202	203	204
Lenziteæ	Lenzites Fr. '38	206	207	208
	Tilotus Kalchbr. '81	210	211	212
	Hymenogramme M. et B. '44	214	215	216
	Lentodium Morg. '95	218	219	220
B. Schizophyllæ	Oudemansiella Speg. '82	222	223	224
	Pterophyllum Lév. '44	226	227	228
	Rhacophyllum Berk. '70	230	231	232
	Schizophyllum Fr. '21	234	235	236

	Leucosporæ	Ochrospora	Rhodospora
7. Polyporaceæ			
Boleteæ	Suillus (Mich.) Karst. '82 (= Gyroporus Quél. '86) 4 Boletinus Kalchbr. '73 10 Gyrodon Opat. '56 16	Boletus Dill. 1719 (= Euboletus) Strobilomyces Berk. '30 8 Campbellia C. M. '90 14 Fistulina Bull. 1780	Tylopilus Karst. '82 6 9 12 15 18
Polyporeæ	Polyporus Mich. 1729 [Leucoporus Quél. '86] [Melanopus Pat. '87] [Cerioporus Quél. '86] [Polypilus Karst. '81] (= Cladomeris Quél. '86) Polystictus Fr. '51 [Formitopsis Karst. '81] (= Placodes Quél. '86) [Coriolus Quél. '86] (= Hansenia Karst. nec Turez.) [Bjerkandera Karst. '79] (= Leptoporus Quél. '86) [Spongipellis Pat. '87] Fomes Fr. '51 Mucronoporus E. et Ev. '89 [Onnia Karst. '89] [Inonotus Karst. '81] Poria Pers. 1801 [Xylodon (Ehrenb.) Karst. '81 ?Henningsia Möll. '95 Trametes Fr. '38 [Antrodia Karst. '79] Sclerodepsis Cooke '90 Hexagonia Fr. '88 Dædalea Pers. 1801 Myriadoporus Peck. '84 Bresadolia Speg. '86 Cyclomyces K. et Fr. '30 Favolus Fr. '28 Gleoporus Mont. '42 Laschia Fr. '30 (Campbellia C. M.) Merulius Hall. 1768 (Protomerulius Möll. '95) Poroptycha Berk. '88 Theleporus Fr. '48 Porothelium Fr. '18 Solenia Hoffm. 1795	Phaeoporus Schröt. '88 [Pelloporus Quél. '86] Laccocophalum Mc. Alp. '94 29 32 35 38 41 44 47 Ganoderma Karst. '81 53 56 [Inodermus Quél. '86] Poria Pers. ex p. 65 68 71 74 77 80 83 86 89 92 95 98 101 104 Serpula Pers. 1801 110 Mycodondron Massee '91 116 119 122	21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96 99 102 105 108 111 114 117 120 123

	Leucosporæ	Ochrosporæ	Jonosporæ
8. Hydnaceæ	Hydnum L. 1763	Phæodon Schröt. '88	Amaurodon Schröt. '88
	[Tyrodon Karst. '51]	[Sarcodon Qué. '78]	6
	Pleurodon Qué. '78]	[Calodon Qué. '78	9
	[Leptodon Qué. '86]	11	12
	[Dryodon Qué. '78]	14	15
	[Climacodon Karst. '81	[Sclerodon Karst. '89]	18
	Hericium Pers. '97]	20	21
	Caldesiella Sacc. '77	23	24
	[Hydnochætella Sacc. '96 = Hydnochæte Peck '97 nec Bres.]		
	Hydnochæte Bres. '96	26	27
	Asterodon Pat. '94	29	30
	Irpex Fr. '28	32	33
	Sistotrema Pers. 1797	35	36
	Radulum Fr. '28	38	39
	Phlebia Fr. '21	41	42
	Lopharia Kalchbr. '82	44	45
	Thwaitesiella Massee '92	47	48
	Grandinia Fr. '88	50	51
	Grammothelæ C. et C. '67	53	54
	[Odontina Pat. '37]	Odontia (Pers.) Fr. '38	57
	(= Hydnum Karst.)	(= Acia Karst. '79)	
	Nockneiffia Sacc. '96	[Kneiffiella Karst. '89]	60
	(= Kneiffia Fr. 38 nec Spach '35 = Kneiffiella P. Henn. '98 nec Karst. '89)		
	[Hydnellum Karst. '96]	62	63
	Mucronella Fr. '74	65	66
	(Trémellodon Pers. '25)	68	69
	(Protohydnum Möll. '95)	71	72
9. Clavariaceæ	Sparassis Fr. '21	2	3
	?Acurtis Fr. '49	5	6
	Clavaria Vaill. 1727	Clavariella Karst. '81	9
	[Clavulina Schröt. '88]	11	12
	[Ramaria (Holms.) Qué. '86]	14	15
	Lachnocladium Lév. '49	17	18
	Pterula Fr. '25	20	21
	Hirsutella Pat. '92	23	24
	Typhula Fr. '18	26	27
	[Pisullina Qué. '87]	29	30
	Pistillaria Fr. '21	32	33
	[Ceratella Qué. '87]	35	36
	Physalacria Peck '82	Baumannella Hennings '98	39
	Glocephala Massee '92	41	42

	Leucosporæ	Ochrosporæ	Jonosporæ	Phragmosporæ
10. Thelephoraceæ Thelephoreæ	(Sparassis Fr.)	2	3	4
	Craterollus Fr. '38	[Novrophyllum Pat. '87]	7	8
	[Craterella (Pers.) Karst. '81]	[Scyphophilus Karst. '82]	11	12
	Hypolyssus Pers. '25	14	15	16
	[Cristatella Pat. '87]	Thelephora Ehrb. 1789 (= Phylacteria (Pers.) Pat. '87)	19	20
	[Polyozus Karst. '81]	[Merisma (Pers.) Karst. '81]	23	24
	Cladodorriss Pers. ap. Fr. '48	26	27	28
	Beccariella Ces. '79	30	31	32
	Stereum Pers. 1797	34	35	36
	[Cytidia Quéf. '88] (= Lomatia Karst. '89)	38	39	40
	Corticium Fr. '38	42	43	44
	Prototromella Pat. '88 (= Pachysterigma Ols. '90)	46	47	48
	Aleurodiscus Rab. '74	50	51	52
	Bonia Pat. '92	54	55	56
	Hymenochaete Lév. '46	Hymenochaete Lév. ex p.	59	60
	[Hymenochaetella Karst. '89]	62	63	64
	Asterostroma Massoe '88	66	67	68
	Skepperia Berk. '57	70	71	72
	73	[Coniophorella Karst. '89]	75	76
	Peniophora Cooke '79	Coniophora DC. '15	79	80
81	Aldridgea Massee '92	83	84	
Michenera B. et C. '67 [= Matula Mass. '88]	86	87	88	
Cyphella Fr. '22	Phæocarpus Pat. '83	91	92	
[Calypstella Quéf. '88]	94	95	96	
Friesula Speg. '80	98	99	100	
Hypochnæ	Hypochnus Fr. '29	Tomentella Pers. 1799	Hypochnella Schröt. '88 (= Hypochnopsis Karst. '89)	104
	?Septobasidium Pat. '92	106	107	108
	Aureobasidium V. B. '91	110	111	Heterobasidium Massee '88
	Urobasidium Gies. '92	114	115	116
	Matruchozia Boul. '94	118	119	120
Hemigastreæ	Hemigaster Juel. '95	122	123	124
?Hymenolicheneæ	Cora Fr. '38	126	127	128
	Rhipidonema' Matt. '81	130	131	132
Exobasidiæ	Exobasidium Wor. '67	134	135	136
	(Microstroma Niessl. '65)	138	139	140

	Leucosporæ	Phragmosporæ				
11. Tremellaceæ Auriculariæ	Auricularia Bull. 1795 Hirnoola Fr. '48 [Auriculariella Sacc. '88] Myliopsis Pat. '95 Helicogloea Pat. '92 Platyglæa Schröt. '87 Helicobasidium Pat. '85 (= Stypinella Schröt. '87) Saccoblastia Müll. '95 Jola Müll. '95	2 4 6 8 10 12 14 16 18				
Pilacreæ	<table border="1"> <tr> <td></td> <td>Ochrosporæ</td> </tr> <tr> <td>Pilarella Schröt. '87</td> <td>Pilacre Fr. '25</td> </tr> </table>		Ochrosporæ	Pilarella Schröt. '87	Pilacre Fr. '25	20
	Ochrosporæ					
Pilarella Schröt. '87	Pilacre Fr. '25					
Tremelleæ	Sirobasidium L. et Pat. '32 Heterochaete Pat. '92 Sebacia Tul. '71. Stypella Müll. '95 Exidia Fr. '22 Exidiopsis Ols. '88 [Tulasnella Schröt. '88] Ulocolla Bref. '88 Craterocola Bref. '88 Femsjonia Fr. '49 Tremella Dill. 1741 Nematelia Fr. '18 Gyrocephalus Pers. '24	22 24 26 28 30 32 34 36 38 Guepinia Fr. '25 42 44 ?Delortia Pat. '88				
Hyaloriæ	Hyaloria Müll. '95	48				
Dacryomyceteæ	Arrhytidia Berk. '49 Ceracea Crag. '85 Ditiola Fr. '22 Dacryopsis Massee '91 ? Collyria Fr. '49	Dacryomyces Nees '19 52 Dacryomitra Tul. '81 56 58				
Protopolyporeæ	Protomerulius Müll. '95	60				
Protohydneæ	Tremellodon Pers. '21 Protohydnum Müll. '95	62 64				
Protoclavariæ	Calocora Fr. '21	66				
Dubiæ	Hormomyces Bon. '51 Apyrenium Fr. '49 Seismosarca Cooke '89	68 70 72				

	Amerosporæ	Didymosporæ	Phragmosporæ	Dictyosporæ
12. Uredinacæ Endophyllacæ	Endophyllum Lév. '25 5	Puccinosira Lag. '91 Coleopuccinia Pat. '89	3 7	4 8
Schizosporæ	Schizospora Pat. Diot. '95	Masseella Diet. '95	11	12
Melampsoreæ	13 17 Cronartium Fr. '15 Diotelia P. Henn. '97 Alveolaria Lag. '91 Melampora Cast. '43 Melampsorella Schröt. '74 Phacopsora Diet. '95 45 Uredinopsis Magn. '92	14 18 22 26 30 34 38 42 46 50	Barclayella Diet. '91 Chrysomyxa Ung. '40 Trichopsora Lag. '91 27 31 Coleosporium Lév. '47 Ochropsora Diet. '97 43 47 51	16 20 24 28 32 36 40 Pucciniastrum Othh '61 Thecopsora Magn. '75 Calyptospora Kühn '69
Pucciniæ	Hemileia B. et Br. '69 Schroeteriaster Magn. '96 61 65 Uromyces Link '16 73 77 81 85 89	54 58 Gymnosporangium Hedw. 1805 Uropyxis Schröt. '75 Puccinia Pers. 1797 Leptinia Juel. '97 Gymnoconia Lag. '95 Diorchidium Kalchbr. '82 Sphenospora Diot. '97 Dasyspora B. et C. '54	Chrysopsora Lag. '91 59 63 Rostraria Lag. '89 Phragmidium Link '24 Xenodochus Schl. '26 79 83 Phragmopyxis Diet. '97 91	56 60 64 68 Triphragmium Link '24 Sphaerophragmium Magn. '91 80 84 Ravenelia Berk. '53 92
Formæ infer.	Uredo Pers. 1795 Cæoma Link. 1809 Æcidium Pers. 1791 Peridormium Link. '16 Ræstelia Reb. 1804 Æcidium Ung. '33	94 98 102 106 110 114	95 99 103 107 111 115	96 100 104 108 112 116
Genera 'dubia	? Milesia White '78 = Uredinopsis? Monosporidium Barcl. '88 Sarcophalum Rab. '51 Uleiella Schröt. '94 Æcidiconium Vuill. '92 Pericladium Pass. '75 Chaconia Juel '97	118 122 126 130 134 138 142	119 123 127 131 135 139 143	120 124 128 132 136 140 144

	Amerosporæ	Didymosporæ	Dietyosporæ
13. Ustilaginaceæ Ustilagineæ	Ustilago Pers. 1801 Sphaelotheca De B. '84 Cintractia Cornu '83 Anthracoida Bref. '95 13	Schizonella Schröt. '77 5 8 11 Schröteria Wint. '80	Pœcilosporium Diet. '97 6 Sorosporium Rud. '29 Tolyposporium Wor. '82 Thecaphora Ping. '35
Tilletiæ	Neovossia Thüm., Körn. '79 Tilletia Tul. '47 Sirentyloma Henn. '95 Entyloma DB. '74 Melanotanium De B. '74 31 Rhamphospora Cunn. '89	17 20 23 26 29 32 35	Tubercinia Fr. '29 Urocystis Rab. '56 24 Doassansia Coru. '83 Burrillia Setch. '92 Cornuella Setch. '92 36
Gen. dubia	Schinzia Naeg. '42 (= Entorrhiza Web. '84) Tuberculina Sacc. '80 Graphiola Poit. '24 Ustilaginoidea Bref. '95 Pæpalopsis Kühn '82 Testicularia Kl. '32 Elacomycetes Kirchn. '87 Meria Vuill. '96 Hypostomum Vuill. '96 Didymochlamis P. Henn. '96	38 41 44 47 50 53 56 59 62 65	Cerebella Ces. '51 spp. (C. Andropogonis Ces. spec. Mat- tirolo est Hyphomyceta) 42 45 48 51 54 57 60 63 66

	Allantosporæ	Hyalosporæ	Phæosporæ	Hyalodidymæ	Phæodidymæ
Ascomycetæ					
14. Perisporiaceæ					
Erysiphææ	1	Podosphæra Lév. '23	3	4	5
	11	Sphærotheca Lév. '51	13	14	15
	21	Phyllactinia Lév. '51	23	24	25
	31	Uncinula Lév. '51	33	34	35
	41	Pleocheta S. et S. '81	43	44	45
	51	Microsphæra Lév. '51	53	54	55
	61	Erysipho Hedw. 1805	63	64	65
	71	Erysiphella Peck '74	73	74	75
Eurotiææ	81	Eurotiosis Cost. '97 nec Karst. '89	83	84	85
	91	Eurotium Link 1809	93	94	95
	101	Cryptothecium P. S. '97	103	104	105
	111	Aphanoascus Zuk. '90	113	114	115
	121	Kickxella Coem. '62	123	124	125
	131	Myriococcum Fr. '23	133	134	135
	141	Pisomyxa Corda '37	143	144	145
	151	?Cystotheca B. et C. '62	153	154	155
	161	Penicillium (Link 1809) Bref. (Microascus Zuk.)	Penicilliosis Solms Laub. '86	164	165
	171	172	Emericella Berk. '57 (= Inzengrea Borzi)	174	175
Perisporiææ	181	182	183	184	Testudina Bizz. '85
	191	192	Thielavia Zopf. '76	194	Argynna Morg. '95
	201	202	203	204	Zopfia Rab. '74
	211	212	Magnusia Sacc. '78	214	Zopfiella Wint. '87
	221	Samarospora Rostr. '93	Chætotheca Zuk. '90	224	Richonia Bond. '85
	231	Anixia Fr. '19	Cephalotheca Fuck. '69	234	Marchaliella Wint. '91
	241	242	Orbicula Cooke '72	244	245
	251	252	Chætomidium Zopf '81	254	Lasiobotrys Kunze '23
	261	Apiosporium Kunze '17	Ascotricha Rab. 1838	264	Parodiella Speg. '80
	271	Meliolopsis Sacc. '82	273	Dimerosporium Fuck. '69	Dimerosporium Fuck. P. P.
	281	282	283	284	285
Capnodiææ	291	292	293	294	295
	301	? Capnodiella Sacc. subg. '82	303	304	305
	311	312	313	314	315

Hyalophragmiæ	Phæophragmiæ	Hyalodictyæ	Phæodictyæ	Scolecosporæ
6	7	8	9	10
16	17	18	19	29
26	27	28	29	30
36	37	38	39	40
46	47	48	49	50
56	57	58	59	60
66	67	68	69	70
76	77	78	79	80
86	87	88	89	90
96	97	98	99	Globulina Speg. '80
106	107	108	109	110
116	117	118	119	120
126	127	128	129	130
136	137	Saccardia Cooke '78	139	Hyaloderma Speg. '88
146	147	148	149	150
156	157	158	159	160
166	167	168	169	170
176	177	178	179	180
186	187	188	189	190
196	197	198	199	200
206	Perisporium Fr. '82	208	209	Cleistotheca Zuk. '93
216	217	218	219	220
226	227	228	229	230
236	237	238	Ceratocarpia Roll. '96	240
246	247	248	249	250
256	257	258	259	260
266	267	268	269	270
Zukalina Sacc. '91	Meliola Fr. '28	278	Pleomeliola Sacc. '82	Pseudomeliola Speg. '90
286	Schenckiaella Honn. '93	288	289	290
Limacina Neg. '96	Limacina Neg. p. p.	298	299	300
?Capnodaria Sacc. subg. '82	307	308	Capnodium Mont. '48	310
Scorias Fr. '25	317	318	319	320

	Allantosporæ	Hyalosporæ	Phæosporæ	Hyalodidymæ	Phæodidymæ
15. Sphæriaceæ Sphærelleæ	1	Læstadia Auersw. '69	3	Sphærella C. et D. '63	Phæosphærella Karst. '85
	11	12	13	[Ascospora Fr. '49 Wint.]	15
	21	22	23	Mycosphærella Johns. '84	25
	Massalongiella Speg. '80	Phomatospora Sacc. '74	33	34	35
	41	42	Müllerolla Hepp '62	Epicymatia Fuck. '69	Tichotecium Flot. '50
	51	Stigmatula Sacc. subg. '82	53	Stigmatea Fr. '49	Sorothelia Körb. '65
	61	62	63	Venturia C. D. '63	65
	71	72	73	[Coleroa Fr. '49]	75
	Pleosporæ	81	Physalospora Niessl. '76	Anthostomella Sacc.	Didymella Sacc. '78
91		92	93	94	95
101		Ditopella De Not. '63	Astrocystis B. Br. '70	104	105
111		Urospora Fabr. '80	113	114	115
121		?Polytrichia Sacc. '82	123	124	Protoventuria B.S. '86
131		132	133	134	Gibellina Pass. '86
141		142	143	144	145
151		152	153	154	155
161		162	163	164	165
Massariæ		Enchnoa Fr. '49	172	173	Massarinula G. Lam. '94
	181	182	183	184	(Cfr. Massariovalsa Sacc.)
Clypeosphæ- riæ	191	Trabutia S. et R. '81	(Anthostomella Sacc. p. p.)	Hypospilina Sacc. subg. '83	Microthelia Körb. '55
	201	Geminispora Pat. '92	203	Apiospora Sacc. '75	205
Sphæriæ	211	212	Haplosporium Mont. '43	214	215
	221	Camptosphæria Fuck. '69	Bombardia Fr. '49	224	225
	231	232	Tassiella Sacc. subg. '82	Bertia De Not. '44	235
	241	242	243	Melchioria P. S. '97	245
	251	Walrothiella Sacc. '82	Rosellinia De Not. '47	Melanopsamma Niessl. '76	Amphisphæria C. D. '63
	261	262	263	Pteridiospora P. S. '97	265
	271	Zignoia Sacc. subg. '82	Pleosporopsis Oerst. '65	?Winterella Berl. '92	Gaillardia Pat. '95
	281	282	283	284	285
	291	292	293	294	295
	301	Trichosphæria Fuck. '69	Coniochaeta Sacc. '82	Eriosphæria Sacc. '75	305

Hyalophragmiæ	Phæophragmiæ	Hyalodictyæ	Phæodictyæ	Scoleosporæ
Sphaerulina Sacc. '78	Leptosphaerella Sacc. subg. '82	Pleosphaerulina Pass. '91	9	10
16	17	18	19	20
26	27	28	29	30
36	37	38	39	40
46	47	48	49	50
56	57	58	59	60
66	67	68	69	70
76	77	78	79	80
Metasphaeria Sacc. '82	Leptosphaeria D. C. '63	Catharinia Sacc. '83	Pleospora Rab. '57	Dilophia Sacc. '82
Charrinia V. et R. '94	Leptosphaeriopsis Berl. '92	98	Clathrospora Rab. '52	Ophiobolus Riess p. p.
106	Cladosphaeria Nits. '71	Capronia Sacc. '82	Caproniella Sacc. '96	110
116	Heptameria Rehm '78	118	Delacourea Fabr. '80	120
Chaetopyrena Sacc. subg. '82	Pecosphaeria Sacc. '82	128	Pyrenophora Fr. '49	Ophiochæta Sacc. p. p.
136	Chitonospora B. R. S. '91	138	Montagnula Berl. '96	140
146	Passeriniella Berl. '91	148	149	150
156	Rebentschia Karst. '73	158	159	160
Ceriosporolla Berl. '91	Ceriospora Niessl '76	168	169	170
Massarina Sacc. '82	Massaria De Not. '44	178	Pleomassaria Speg. '80	Ophiomassaria Jacz. '94
Saccardiella Speg. '80	187	Julella Fabr. '81	Karstenula Speg. '80	Therrya Sacc. '82
Hyospila Fr. '49	Clypeosphaeria Fuck. '69	Peltosphaeria Berl. 88	Phæopoltsphaeria Berl. '92	200
206	207	208	Isothea Fr. '49	Linospora Fuck. '69
216	217	218	219	220
Bombardiastrum Pat. '93	227	228	229	230
Bortia Sacc. subg. '82	Stuartella Fabr. '80	238	Crotonocarpia Fuck. '69	Aceria Sacc. subg. '95.
246	247	248	249	250
Zignoella Sacc. '82	Melanonma Nits. Fuck. '69	Teichosporella Sacc. '82	Teichospora Fuck. '69	260
266	267	268	269	270
Tromatostoma Sacc. subg. '83	Trematosphaeria Fuck. '69	278	Strickeria Sacc. subg. '82	280
Melomastia Nits. '69	Caryospora De Not. '55	288	289	290
Winteria Rehm '81	Ohleria Fuck. '69	Winterina Sacc. '91	299	Leptosporella P. S. '97
Acanthostigma De Not. '63	Chaetosphaeria Tul. '63	308	Pleosphaeria Speg. '82	310

	Allantosporeæ	Hyalosporeæ	Phæosporeæ	Hyalodidymæ	Phæodidymæ
Sphæriaceæ (seq.)	311	Trichosphærella B. R. S. '91	Holminthesphæria Fuck. '69	314	315
	321	Scortechinia Sacc. '85	323	324	Neopockia Sacc. '83
	331	332	333	334	335
	341'	342	343	344	345
	351	352	Chaetomium Kunze '17	354	355
	361	362	Bommorella March. '85	364	365
Sordariaceæ	371	372	Sordaria C. DN. '63	374	Delitschia Auersw. '66
	381	382	Hypocopa Fuck. '69	384	385
	391	392	Coprolepa Fuck. '69	394	395
	401	403	Philocopa Speg. '80	404	405
Cucurbita- riaceæ	Bizzozzia S. B. '85	412	413	Lizonia C. D. '63	415
	Cœlosphæria Sacc. '73	422	423	Pseudolizonia Pir. '89	425
	Nitschkon Fuck. '69	432	Tympanopsis Starb. '94	Thaxteria Sacc. '91	435
	Fracchiara Sacc. '73	Botryosphæria C. DN. '63	Cucurbitula Fuck. '69	Othiella Sacc. subg. '82	Othia Nits. '69
	451	Gibellia Sacc. '85	453	Gibbera Fr. '49	455
16. Ceratostoma- ceæ	Pleurostoma Tul. '63	Ceratostomella Sacc. '78	Ceratostoma Fr. '49	Lentomita Nicssl '76	Rhynchostoma Karst '73
	11	12	Microascus Zuk. '85	14	Rhynchomoliola Speg. '83
	21	Gnomoniella Sacc. '81	23	Gnomonia C. DN. '63	25
	31	32	33	31	35
	41	Mamiania DN. '63	43	Rohmiella Wint. '75	45
	51	52	53	54	55
	61	62	63	64	65
	71	72	73	74	75
	81	82	83	84	85
	17. Xylariaceæ	1	2	Hypoxyylon Bull. '91	4
11		12	Krotzschmaria Fr. '49	14	15
21		22	Ponzigia Sacc. '88	24	25
31		32	Daldinia C. DN. '63	34	35
41		42	Nummularia Tul. '63	44	45
51		52	Ustulina Tul. '63	54	55
61		62	Bolinia Nits. '67	64	Camarops Karst. '73
71		72	Pyrenomyxa Morg. '95	74	75
81		82	Camillea Fr. '49	84	85
91		92	Poronia Willd. '87	94	95
101		102	Xylaria Hill. '73	104	Xylobotryum Pat. '95

Hyalophragmiæ	Phæophragmiæ	Hyalodictyæ	Phæodictyæ	Scolecosporeæ
Hormosperma P. S. 1897	Chaetomastia Sacc. subg. '82	318	319	320
Enechosphaeria Fuck. '69	327	Berlagella P. S. '97	329	330
Lasiosphaeria C. D. '63	337	338	339	Leptospora Fuck. '69
Herpotrichia Fuck. '69	347	348	349	350
Sydowia Bres. '95	357	358	359	360
366	367	368	369	370
376	Sporornia Do Not. '49	378	Pleophragmia Fuck. '69	Bovilla Sacc. '82
386	387	388	389	390
396	Sporornietta Ellis '92	398	399	400
406	407	408	409	410
416	417	418	419	420
426	427	428	429	430
436	437	438	439	440
446	Gibberidea Fuck '69	Berlesiella Sacc. '88	Cucurbitaria Gray '21	450
456	457	458	459	460
Ceratospheeria Niessl '76	Rhynchospheeria Sacc. s. '82	Rhampheeria Niessl '76	9	Ophioceras Sacc. '82
16	17	18	19	20
Cryptoderis Auersw. '72	27	28	29	Ophiognomonina Sacc. '82
Hyospila Fr. e. p.	37	38	39	Linospora Fuck. e. p.
Gnomoniopsis Berl. '92	47	48	49	Ophiobolus Riess. '53
56	57	58	59	Ophiochaeta Sacc. subg. '82
66	6	68	69	Entodesminum Riess '54 (= Pleiobolus B. R. S. '91)
76	77	78	79	Cylindrina Pat. '85
86	87	88	89	Bactrosphaeria P. S. '97
6	7	8	9	Maurya Pat. '98
16	17	18	19	20
26	27	28	29	30
36	37	38	39	40
46	47	48	49	50
56	57	58	59	60
66	67	68	69	70
76	77	78	79	80
86	87	88	89	90
96	97	98	99	100
106	107	108	109	110

	Allantosporæ	Hyalosporæ	Phæosporæ	Hyalodidymæ	Phæodidymæ
18. Valsaceæ	Calosphæria Tul. '63	2	3	Cacosphaeria Speg. '87	5
	Coronophora Fuck. '69	12	13	14	15
	Quaternaria Tul. '63	22	23	24	25
	Valsa Fr. '49	Cryptosporella Sacc. '77	Fuckelia N. F. '69	Melanconis Tul. '63	Melanconella Sacc. '82
	41	[Flageoletia Sacc. '96]	43	Hercospora Tul. '63	Massariovalsa Sacc. '82
	51	52	53	Diaporthe: Chorostate Nits. '70	55
	Eutypella Nits. '67	62	Fuckelia N. F. p. p.	Diaporthe: Chorostate Nits. '70	Valsaria DN. '63 (= Myrmæcium Nits. '69)
	Valsella Fuck. '69	72 [Cfr. Mamiania]	73	[Caudospora Starb. '89]	75
	Eutypa Tul. '63	Diaporthopsis Fabr. '82	Anthostoma Nits. '67	Diaporthe: Euporthe Nits. '70	Phacosperma Sacc. '82
	Endoxyla Fuck. '71	92	93	94	95
	Cryptosphaeria Grov. '22	102 [Cfr. Ditopella]	103	Diaporthe: Tetrastaga Nits. '70	105
	Cryptospharella Sacc. '81	112	113	114	115
	Cryptovalsa C. DN. '63	122	123	124	125
	Diatrype Fr. '49	132	133	Myrmæcium (Nits.) Sacc. '82	135
	[Pachytrype P. et S. '98]	142	143	144	145
	Diatrypella C. DN. '63	152	153	Endothia Fr. '49	155
	Diatrypeopsis Speg. '83	162	163 [Cfr. Hypoxylon]	164	165
19. Dothideaceæ	1	Bagnisiella Speg. '81	3	Plowrightia Sacc. '83	Dothidea Fr. '18
	11	Kullhomia Karst. '77	13	14	15
	21	Mazzantia Mont. '66	Auerswaldia Sacc. '83	Dothidella Speg. '82	25
	31	Oxydothis P. S. '98	33	34	35
	41	Diachora J. Müll. '94	43	Munkiella Speg. '83	45
	51	Phyllachora Fuck. '69	53	Rousoëlla Sacc. '88	55
	61	Euryachora Fuck. '69	63	64	65
	71	Schirrhia Speg. '83	73	Scirrhia Fuck. '69	75
	81	82	83	Rosenscheldia Speg. '83	85
	91	92	93	Monographus Fuck. '75	95
	20. Hypocreaceæ	1	Hyponectria Sacc. '81	3	Charonectria Sacc. '80
11		12	13	14	Passerinula Sacc. '75
21		Nectriella Sacc. '78	Sphaeroderma Fuck. '75	Nectria Fr. '49	Letendrea Sacc. '80
31		32	Vittadinula Sacc. sub. '83	Lasionectria Sacc. subg. '83	Neoskofitzia Schulz. '80
41		[Chilostilbe P. et S. '98]	43	Sphærostilbe Tul. '65	45
51		Chilonectria Sacc. '78	? Erythrocarpum Zuk. '85	Aponectria Sacc. '83	55
61		Heteronectria P. S. '98	63	Metanectria Sacc. '78	65

Hyalophragmiæ	Phæophragmiæ	Hyalodictyæ	Phæodictyæ	Scoleosporæ
Holstiella P. Henn. '95	7	8	9	10
16	17	18	19	20
26	27	28	29	30
Calospora Sacc. '83 (= Calosporella Schröt. '94)	Pseudovalsa De Not. '63	Clethrimum Sacc. subg. '82	Fenestella Tul. '63	Cryptospora Tul. '63
46	Aglaospora De Not. '44	48	49	Vialæa Sacc. '96
56	Titania Berl. '91	58	59	60
66	Thyridaria Sacc. '75	Thyridella Sacc. '91	69	70
76	77	78	79	80
86	Kalmusia Niessl '72	88	Thyridium Sacc. '77	Winterella Sacc. '83
96	97	98	99	100
106	107	108	109	110
116	117	118	119	120
126	127	128	129	130
Molanops N. F. 69	Melogramma Fr. '49	138	139	Sillia Karst. '73
146	147	148	149	150
156	157	158	159	160
166	167	168	169	170
Darwiniella Speg. '87	Homostegia Fuck. '69	8	9	10
16	17	18	19	20
26	27	28	29	30
36	37	38	39	40
Montagnella Sp. '82	47	Curreyella Sacc. '95 subg.	Curreya Sacc. '83	Ophiodothis Sacc. '83
56	57	58	59	Myriogenospora Atk. '94
66	Rhopographus Fuck. '69	68	69	70
76	77	78	79	80
86	87	88	89	90
96	97	98	99	100
Cesatiella Sacc. '81	7	8	9	Miconectria Speg. '86
16	17	18	19	20
Calonectria De Not. '67	27	Pleonectria Sacc. '77	29	Ophionectria Sacc. '78
Mesonectria Sacc. subg. '83	37	38	39	Ophiostilbe P. et S. '98
Stilbonectria Karst. 89	47	Megalonectria Speg. '82	49	50
Paranectria Sacc. '73	57	58	59	60
66	67	68	69	70

	Allantosporae	Hyalosporae	Phaeosporae	Hyalodidymae	Phaeodidymae
Hypocreaceae	71	Eleutheromyces Fuck. '59	Melanospora Corda '37	Treleasia Speg. '96	75
	81	Thelocarpon Nyl. '54	Baculospora Zuk. '89	Cyanocephalum Zuk. '93	85
	91	92	93	94	95
	101	Byssonectria Karst. '79	Sphaeroderma Fuck. '75	Hyphonectria Sacc. s.	105
	111	112	Scopinella Lev. '49	Solenostoma Sacc. subg. '83	115
	121	122	123	Homalocrea Sacc. subg. '83	125
	131	Podostroma Karst. '92	133	Podocrea Sacc. subg. '83	135
	141	Battarrina Sacc. subg. '83	Thuemenella P. et S. '98	Hypocrea Fr. '49	145
	151	152	153	Clintoniella Sacc. subg. '83	155
	161	Cavaraea Sacc. subg. '95	163	Hypocreopsis Karst. '73	165
	171	Peckiiella Sacc. subg. '83	173	Hypomyces Fr. '49	175
	181	Selinia Karst. '76	183	Pyxidiophora Bref. et Tav. '91	185
	191	Polystigma DC. '15	193	Puiggariella Speg. '82	195
	201	Mülleriella Bres. '96	203	204	205
	211	Lisiella Cooke '87	213	Lisea Sacc. '78	215
	221	222	223	Valsonectria Speg. '82	225
	231	232	233	Corallomyces B. C. '54	235
	241	242	243	244	245
	251	252	253	254	255
	261	262	263	264	265
271	272	273	274	275	
21. Coryneliaceae	1	2	Corynelia Ach. '18	4	5
22. Microthyriaceae	1	Asterula Sacc. '82	Asteronia Sacc. '82	Asterina Lev. '45	Asterella Sacc. '82
	Piptostoma B. et Br. '73	Myiocopron Speg. '80	Vizella Sacc. '83	Microthyrium Desm. '41	Seynesia Sacc. '83
	21	22	23	Clypeolum Speg. '82	25
	31	32	33	Pemphidium Mour. '40 p. p.	35
	41	42	43	Chetothyrium Speg. '83	45
	51	52	53	Trichothyrium Speg. '89	55
	61	62	63	Brefeldiella Speg. '89	65
	71	72	73	Polystomella Speg. '88	75
	81	82	83	(Puiggariella Speg.)	85

Hyalophragmiæ	Phæophragmiæ	Hyalodictyæ	Phæodictyæ	Scolecosporæ
<i>Lecithium</i> Zuk. '93	77	78	<i>Bivonella</i> Sacc. subg. '83	<i>Tubeufa</i> P. S. '98
86	87	88	89	90
96	97	98	99	<i>Barya</i> Fuck. '69
106	107	108	109	<i>Oomyces</i> B. et Br. '51
116	117	118	119	<i>Torrubiella</i> Boud. '85
126	127	128	<i>Pleomyces</i> Henn. '95	130
<i>Broomella</i> Sacc. '83	137	138	139	<i>Hypocrella</i> Sacc. '78
<i>Clibanites</i> Karst. '71	147	148	149	150
156	157	158	159	<i>Epichloë</i> Fr. '49
165	167	168	169	<i>Dussiella</i> Pat. '88
<i>Berkelella</i> Sacc. subg. '83	177	178	179	180
186	187	88	189	190
196	197	198	199	<i>Coscinarva</i> E. et Ev. '86
206	207	208	209	210
<i>Gibberella</i> Sacc. '78	217	<i>Pleogibberella</i> Sacc. '86	219	220
226	227	<i>Thyronectria</i> Sacc. '77	<i>Mattirolia</i> Ber. et Br. '88	230
236	237	238	239	<i>Claviceps</i> Tul. '53
245	247	248	249	<i>Balansia</i> Speg. '88
256	257	258	259	<i>Cordyceps</i> Fr. '23
266	267	268	269	<i>Racemella</i> Cos. '61
276	277	278	279	[<i>Cordylia</i> Tul. '65]
6	<i>Coryneliella</i> Har. et K. '90	8	<i>Tripospora</i> Sacc. '86	10
<i>Asteridium</i> Sacc. '82	<i>Asteridiella</i> Mac Alp. '97	8	9	10
<i>Micropeltis</i> Mont. '42	<i>Scutellum</i> Speg. '32	<i>Saccardinula</i> Speg. '86	19	<i>Scolecopeltis</i> Speg. '89
26	27	28	29	30
36	37	38	39	<i>Pemphidium</i> Mont. v. p.
46	47	48	49	50
<i>Trichopeltis</i> Speg. '89	57	58	59	60
66	67	68	69	70
<i>Heterochlamis</i> Pat. '95	77	78	79	80
86	87	88	89	90

	Allantosporæ	Hyalosporæ	Phæosporæ	Hyalodidymæ	Phæodidymæ
23. Lophiostomaceæ	1	2	Lophiella Sacc. '78	Lophiosphæra Trev. '77	Schizostoma C. D. '63
	11	12	13	Lambottiella subg. '83	Baccarinia Sacc. subg. '95
	21	22	23	24	35
	31	32	33	34	35
	41	42	43	44	45
24. Hemhysteriaceæ	1	2	3	4	Morenoëlla Speg. '86
	11	12	Cyclostomella Pat. '96	Clypeum Massee '96 (=Schneeopia Speg. p. 4)	Schneeopia Speg. '86 (=Parmularia Lév.?)
	21	22	23	24	Hysterostomella Speg. '89
25. Hysteriaceæ Hysteriaceæ	1	?Hypodermella Tub. '95	Lembosiella Sacc. '91	Aulographum Lib. '37	Lembosia Lév. '45
	11	Schizothyrium Desm. '49	13	Hariotia Karst. '89	15
	21	Henriquesia Pass. et T. '89	Fardowiella Sacc. '83	Glonium Mühl. '13	25
	31	32	33	Actidium Fr. '15	35
	41	42	43	44	45
	51	52	53	Angolinia Fr. '49	Tryblidium Duf. '28
	61	62	63	64	65
	71	72	73	74	75
	81	82	83	84	Bulliardella Sacc. subg. '83
Syngloniæ	91	92	93	Synglonium P. et S. '98	95
	101	102	Erikssonina P. et S. '98	104	105
Ostropeæ	111	112	113	114	115
	121	122	123	124	125
Acrospermeæ	131	132	133	134	135

Hyalophragmiæ	Phæophragmiæ	Hyalodictyæ	Phæodictyæ	Scoleosporæ
Lophiotrema Sacc. '78	Lophiostoma C. D. '63	Lophidiopsis Berl. '90	Platystomum Trev. '77 (= Lophidium Sacc. '78)	Lophionema Sacc. '83
Vivianella Sacc. '83 subg. 26 36	Rostella Fabr. '80 Brigantiella Sacc. '83 subg. Navicella Fabr. '80	18 28 38	19 29 39	20 30 40
Lophiotricha Richon '85	47	48	49	50
6 16	7 17	8 18	9 19	10 20
26	27	28	29	30
6	7	8	9	Hypodorma DC. 1805
Hysteroglonium Rehm '96	17	Hysteropsis Rehm. '87	19	Lophodermium Chev. '26
Gloniella Sacc. '83	Hysterium Tode '90	Gloniopsis DN. '47	Hysterographium Corda '42	30
36 46 56	Rhytidhysterium Spog. '82 Ostreion Duby '61 Trybliidiella Sacc. '83	38 48 58	39 49 59	40 50
Pseudographis Nyl. '55	Baggea Auersw. '66	68	69	Sporomega Corda '42
Dichæna Fr. '49	Hysteropatella Rehm '90	78	79	Colpoma Wallr. '33
86	Mytilidion Duby '61	88	89	80 Lophium Fr. '15
96	97	98	99	[Glyphium Nits. et Lehm. '89]
106	107	108	109	110
116 126	117 127	118 128	119 129	Ostropa Fr. '49 Robergea Desm. '47
136	137	138	139	Acrospermum Tode 1790

	Didymosporæ			Didymosporæ	
26. Laboulbeniaceæ Peyritschiiellæ	Dinorphomyces T. '93 Dimeromyces T. '96 Cantharomyces T. '90 Haplomyces T. '93 Eucantharomyces T. '94 Camptomyces T. '93 Euarthromyces T. '96 Peyritschella T. '90 Dichomyces T. '93 Chitonomyces Peyr. '73 (= Heimatomyces Peyr.) Hydræomyces T. '96		Laboulbeniæ (seq.)	Idiomyces T. '93 Corothromyces T. '93 Rhadinomyces T. '93 Rhizomyces T. '96 Laboulbenia M. et Rob. '53 Teratomyces T. '93 Diplomyces T. '94 Rhacomyces T. '94 (= Acanthomyces Thart. olim nec Lib.) Chaetomyces T. '93 Sphaleromyces T. '93 Compsomyces T. '93 Moschomyces T. '93	
Laboulbeniæ	Anorphomyces T. '93 Helminthophana Peyr. '73 Stigmatomyces Karst. '69		Zodiomycetæ	Zodiomyces T. '91 Ceratomyces T. '93	
	Hyalosporæ	Phæosporæ	Didymosporæ	Phragmosporæ	Dictyosporæ
27. Phymatosphæriaceæ	Phillipsiella Cooke '78 6 11 16	2 7 12 17	Microphyma Speg. '89 8 13 18	Leptophyma Sacc. '89 Harknessiella Sacc. '89 Mollerella Wint. '86 Eurytheca De Seyn. '78	Cookeella Sacc. '78 Asecomycotella Ell. '84 Myriangium M. et B. '45 Phymatosphæria Pars. '75

	Hyalosporæ	Phaeosporæ
28. Onygenaceæ	Onygena Pers. 1801	2
29. Elaphomycetaceæ	1	Elaphomyces Nees '20
30. Trichocomaceæ	1	Trichocoma Jungh. '38
31. Cenococcaceæ	1	Conococceum Fr. '25
32. Tuberaceæ Tubereæ	Gonea Vitt. '31 Pseudohydnotria Fisch. '97 5 Stephensia Tul. '45 9	2 Hydnotria B. et Br. '46 Cryptica Hesse '84 Pachyphloous Tul. '44 Tuber Mich. 1729
Balsamiæ	Hydnocystis Tul. '44 Geopora Harkn. '85 Balsamia Vitt. '31	12 14 16
Terfeziæ (<i>plectasca</i>)	Hydnobolites Tul. '43 Anziophæum Sacc. '97 (= Phæangium Pat. nec Sacc. '89) Picoa Vitt. '31 Leucangium Quéf. '82 Tirmaia Chat. '92 Terfezia Tul. '46 Delastria Tul. '43 Amylocarpus Curr. '57	18 20 23 24 26 Genabea Tul. '44 Cheromyces Vitt. '31 32

	Hyalosporæ	Phragmosporæ	Scolecosporæ
33. Cyttariaceæ	Cyttaria Lév. '46	2	3
31. Helvellaceæ Morchelleæ	Morchella Dill. 1719 Mitrophora Lév. '46 Gyromitra Fr. '49 Helvella L. 1763 Biverpa Fr. '49 Verpa Sw. '15 Underwoodia Peck. '90 ?Cidarid Fr. '49	2 5 8 11 14 17 20 23	3 6 9 12 15 18 21 24
Geoglossæ	Mitula Fr. '22 Spragueola Massee '96 Microglossum Sacc. '84 Hemiglossum Pat. '90 Neolecta Spig. '82 Cudoniella Sacc. '89 (Roesleria T. et P. '77)	Leptoglossum Cooke '79 29 Geoglossum Pers. 1795 35 38 41 44	Cudonia Fr. '49 30 33 36 Spathularia Pers. 1797 Vibrissea Fr. '22 45

	Hyalosporæ	Phæosporæ	Hyalodidymæ	Phragmosporæ	Scolecosporæ
35. Pezizaceæ	Sphærosoma Kl. '40 Rhizina Fr. '15 Psilopezia Berk. '47 Acetabula (Fr.) Fuck. '69 Goopyxis Pers. '22 Peziza Dill. 1719 em. Otidea (Pers. '22) Fuck. '69 Otidella Sacc. '89 Discina Fr. '49 Detonia Sacc. '89 Galactinia Cooke '79 Pyronema Carus '35 Barlaeina Sacc. '98 (= Barlaea Sacc. '89 nec. Reich. 77) Humaria Fr. '22 subg. Berggrenia Cooke '79 Ascodesmis v. Tieg. '76 (Ascocalathium Eid. ap. Schröt. '93) Phillipsia Berk. '80 Floischhackia Rab. '78	Sphærosoma Kl. e. p. '40 7 12 17 22 Aleurina Sacc. '77 32 37 42 Phæopezia Sacc. '77 (= Curreyella Massee '95, nec. Sacc. '95 subg.) 52 57 62 67 72 77 82 87 92	3 8 13 18 23 26 33 36 43 48 53 58 63 68 73 78 83 88 93	4 9 14 19 24 29 34 39 44 49 54 59 64 Masseea Sacc. '89 74 79 84 89 94	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95

	Hyalosporæ	Phæosporæ	Hyalodidymæ	Phragmosporæ	Scolecosporæ
. Pezizaceæ	Sarcoscypha Fr. '22 subg., Cooke '79	97	98	Anthopeziza Wettst. '85 sec. Massee	100
	Macropodia Fuck. '69 Cooke '79	102	103	104	105
	Pilocratera P. Henn. '91	107	108	109	110
	(= Trichoscypha Cooke 79, nec Hook.)				
	Plectania Fuck. '69	112	113	114	115
	Pseudoplectania Fuck '69	117	118	119	120
	Lachnea Fr. '22 (subg.) Gill. '79	122	123	124	125
	Sphaerospora Sacc. '79	127	128	129	130
	Neottiella Cooke '79	132	133	134	135
	Pyronomella Sacc. '79	137	138	139	140
	Sclerotinia Fuck. '69	142	143	144	145
	Gibberia Fuck. '69	147	148	149	150
	Pitya Fuck. '69	152	153	154	155
	Helotium Fr. '49	157	Lanzia Sacc. '84	159	(Pocillum DN. '64)
	Calycella Sacc. '89	162	163	164	165
	Phialea Fr. '18 subg. Gill. '79	167	Bisporella Sacc. '84	169	170
	Pezizella Fuck. '69	172	Helotiella Sacc. '84	174	175
	Pseudohelotium Fuck. '69	177	178	179	180
	Mollisiella Phill. '87	182	183	184	185
	Cyathicula DN. '64	187	188	189	190
	Allophylaria Karst. '69	192	193	194	195
	Pezicula Tul. '65	197	Dermatolla Karst. '70	199	200
	Chlorosplenium Fr. '49	202	Belonidium M. et D. '46	204	Gorgonyceps Karst. '71
	Coronellaria Karst. '71	207	208	209	210
	Mollisia Fr. '22 subg. Karst. '69	212	Niptera Fr. '49	214	215
	Pyrenopeziza Fuck. '69	217	218	219	220
	Tapesia Pers. '22 subg. Fuck. '69	222	Belonium Sacc. '84	224	225
	Desmazierella Lib. '29	227	228	229	230
	Pirottaea Sacc. '78	232	233	234	Mancinia Sacc. '89 (= Echinella Massee '95, nec Acharius)
	Lachnellula Karst. '84	237	238	239	240
	Lachnella Fr. '49	242	Velutaria Fuck. 69	Diplocarpa Massee '95	245
	Trichopeziza Fuck. '69	247	Solenopeziza Sacc. '89	249	Erinella Sacc. '89
	Dasyscypha Fr. '22 subg., Fuck. '69	252	253	254	Erinopsis Sacc. '89
	Comesia Sacc. '84	257	258	259	260
	(Biatorella De Not. '46)	262	263	264	265
	(= Tremera Mass. '58)		(Scutula Tul. '44)		

	Hyalosporæ	Phæosporæ	Didymosporæ	Phragmosporæ	Scoleosporæ
36. Ascobolaceæ	(Thelebolus Tode 1790)	2	3	4	5
	Cubonia Sacc. '69	Boudiera Cooke '77	8	9	10
	Ascophanus Bond. '51	Ascobolus Pers. 1791	13	14	15
	Lasiobolus Sacc. '84	Dasyobolus Sacc. '89	18	19	20
	Ryparobius Bond '51	22	23	21	25
	Streptothece Vuill. '87	Saccobolus Bond. '69	28	28	30
	Zukalina O. K. '91	32	33	34	35
	(= Gynnediscus Zuk. '87, nec Less.) Gloopeziza Zuk. '91	37	38	38	40
37. Dermateaceæ	Midotis Fr. '25	2	3	4	5
	Urnula Fr. '49	7	8	Crumeaula D. N. '64	Godronia Moug. '45
	11	12	13	14	Crinula Fr. '21
	Spadonia Fr. '29	17	18	19	Pocillum D. N. '64
	Dermatea Fr. '49	22	23	24	25
	Cenangium Fr. '22	Phæangium Sacc. '89 (= Schweinitzia Massee '95, nec Elliott)	Conangella Sacc. '84	Scleroderis Fr. '22	30
	Eucelia Fr. '23	32	Phæangella Sacc. '89	Phæoderis Sacc. '89	35
	Tympanis Tod. 1790 em.	37	38	39	40
	41	Hymenobolus Mont. '45	(Cfr. Tryblidium)	(Cfr. Tryblidiella)	45
	Ameghiiella Spig '88	47	48	49	50
	Ephelina Sacc. '89	52	53	54	55
	Lequearia Fr. '49	57	58	59	60

	Hyalosporæ	Phæosporæ	Didymosporæ	Phragmo- sporæ	Scoleosporæ	Dictyosporæ
38. Bulgariaceæ	Leotia Hill. 1751	2	3	4	5	6
	Pulparia Karst. '71	Bulgaria Fr. '22	Sorokina Sacc. '92	10	11	Sarcomyces Massee '91
	Sarcosoma Casp.	14	15	16	17	18
	Ombrophila Fr. '49	Bulgariella Karst. '85	Paryphædria Zuck. '91	Coryno Tul. '65	Holwaya Sacc. '89	24
	Stannaria Fuck. '69	26	Henningsiella Rehm. '95	28	29	30
	Orbilina Fr. '49	32	Calloria Fr. '49	34	35	36
	Ahlesia Fuck. '69	38	39	40	41	42
	Hecatomycetes B. et Br. '73	44	45	46	47	48
Agyrium Fr. '22	50	51	52	53	Hematomyxa Sacc. '89	

	Hyalosporæ	Phæosporæ	Didymosporæ	Phragmo- sporæ	Scolecosporæ	Dictyosporæ
39. Stictidaceæ	Propolis Fr. '49	2	Propolidium Sacc. '84	Eupropolis DN. '64	Stictis Pers. 1796	Platysticta C. et M. '89
	7	8	9	10	Lasiostictis Sacc. '85	12
	Propolina Sacc. '84	14	Coccopeziza Karst. '90	Cryptodiscus Corda '98	Schizoxylon Pers. 1810	18
	Ocellaria Tul. '65	20	21	Phaneroomyces Sp. it H. '89	Næmacyclus Fuck. '73	24
	25	26	27	28	Karstenia Fr. ap. Karst. '85	30
	Nævïa Fr. '49	32	Diplonævïa Sacc. '89	Phragmonævïa Rehm '88	35	36
	Briardia Sacc. '85	38	39	40	41	Ploiostictis Rehm '82
	Xylographa Fr. '22	44	45	Xylogramma Wallr. '33	47	Mellitospodium Corda '38
49	50	51	Odontotrema Nyl. '61	Lichenopsis Schw. '34	54	
40. Phacidiaceæ	Cryptomyces Grev. '26	Criella Sacc. '89	Marchalia Sacc. '89	4	Rhytisma Fr. '22	6
	Pseudorhytisma Juel '94	8	Cocconia Sacc. '89	10	Duplicaria Fuck. '69	12
	Phacidium Fr. '22	Stictophacidium Rehm '88	Keithia Sacc. '92	Sphaeropeziza Sacc. '84	Cocconyces De Not. '47	18
	Pseudopeziza Fuck. '69	20	Fabrea Sacc. '81	22	23	24
	Trochila Fr. '49	26	(Schizothyrium Desm.)	(Pseudographis Nyl.)	Clithris Fr. '22 (= Colpoma Wall. '33)	30
	Stegia Fr. '18	32	Rhagadolobium Henn. et Lind. '96	34	35	36
	Rhymocarpus Zopf. '96	38	Abrothallus D. N. '46	40	41	42
	43	44	45	Metadothis Sacc. '89	47	Dothiora Fr. '49
	49	50	?Didymascus Sacc. '96	52	53	54
	41. Patellaria- cæ	Patinella Sacc. '75	Lagerheima Sacc. '92	Karschia Körb. '65	Patellaria Wahl. '26	Bactrospora Mass. '52
Patinellaria Karst. '84		8	Patellea Fr. '23	Durella Tul. '65	Lahmia Körb '61	12
Actinoscypha Karst. '87		14	Iohansonia Sacc. '89	[Phragmospora Mass. '55]	17	18
Heterosphaeria Grev. '24		20	Ravenelula Speg. '82	Lecanidion Rab. '44	Scutularia Karst. '84	24
25		26	Melaspilota Nyl. '57	Mycobilimbia Rehm '90	Mycobacidia Rehm '85	30
Pseudophacidium Karst. '85		?Neuræcium Kunze ap. Fr. '49	Tryblidiopsis Karst. '71	Leciographa Mass. '54	Sphærepeziella Karst. '84	Blitrydium D.N. '64
37		38	39	Rhytidopeziza Speg. '26	41	Tryblidaria Sacc. '89
Starbæckia Rehm. '90		44	[Caldesia Trev. '69]	Pseudotrybli- dium Rehm '90	47	48
Nesolechia Mass. '56		50	Scutula Tul. '44	52	53	54
Biatorella D. N. '46 = Tromera Mass. '58		56	57	58	59	60

	Hyalosporæ	Phæosporæ	Didymosporæ	Phragmosporæ
42. Cordieritaceæ	Cordierites Mont. '40	2	?Acroscyphus Lév. '46	4
43. Caliciaceæ	Roesleria T. et P. '71 Coniocybe Ach. '16 9 13 17	Hypothecha E. et E. '85 Sphinctrina Fr. '25 Caliciopsis Peck '80 Embolus Wallr. '31 Cyphelium Ach. '16	3 7 11 Calicium Pers. '94 Acolium Ach. '14	Stenocybe Nyl. '55 8 12 16 20
44. Arthoniaceæ	Phacopsis Tul. '52 5 (Agyrium Fr.)	Conida Mass. '56 Melaspilella Karst. '85 Lecideopsis Almq. '80	Celidium Tul. '52 Celidiopsis Mass. '56 Arthonia Ach. 1810	4 8 Arthothelium Mass. '55

	Hyalosporæ		Hyalosporæ
45. Gymnoascaceæ	Arachniotus Schöt. '93 Amauroascus Schröt. '93 Gymnoascus Baran. '72 Rostrupiella Sacc. '95 Myxotrichum Kunze '23 Bolacotricha B. et Br. '51 Ctenomyces Eid. '80	49. Endomycetaceæ	Podocapsa v. Tieg. '87 Eremascus Eid. '83 Endomyces Rees '70 Oleina v. Tieg. '87 Eremothecium Borzi '88 Bargellinia Borzi '88
46. Exoascaceæ	Magnusiella Sadeb. '95 Exoascus Fuck. '60 Taphrina Fr. '15	50. Ascoïdaceæ	Ascoïdea Bref. '91 Dipodascus Lag. '92
47. Ascocorticiaceæ	Ascocorticium Bref. '91	51. Protomycetaceæ	Protomyces Ung. '33 Endogone Link 1791
48. Saccharomycetaceæ	Saccharomyces Meyen '37 Monospora Motschnik '90?, nec Solier '45 (Monosporus) ?Schizosaccharomyces Lindn. '93 ?Eomyces Ludw. '93 ?Prototheca Krüg. '94	52. Monascaceæ	Thelebolus Tode 1790 Trichobolus Sacc. '92 Monascus Tiegh. '84 (= Physomyces Harz '90) Helicosporangium H. Karst. '67 Papulospora Preuss. '51

	Amerosporæ		Amerosporæ
Phycomycetæ A. <i>Zygomycetæ</i> 53. <i>Mucoraceæ</i> <i>Mucoreæ</i>	Mucor Mich. 1729 Circinella v. Tieg. '72 Pirella Bain. '82 Spiellus v. Tieg. '75 Rhizopus Ehrenb. '20 Phycomyces Kunze '23 Absidia v. Tieg. '76 Tieghemella Berl. et De Toni '88 Sporodinia Link '24 Thamnidium Link 1809 Chaetostylum v. Tieg. '73 Helicostylum Corda 42 Dicranophora Schröt. '86 Pilaira v. Tieg. '75 Pilobolus Tode 1784	54. Entomophthoraceæ	Empusa Cohn 55. [Lamia Nowak. '83] Entomophthora Fres. '56 Tarichium Cohn '70 Completozia Lohdo '74 Conidiobolus Brof. '84 Basidiobolus Eid. '85 Épichlæa Giard '89 Polyrhizium Giard 89 Chronostylium Giard '89 Halisaria Giard '89
Mortierelleæ	Mortierella Coen. '63 Herpocladia Schröt. '94 (= Herpocladium Schröt. '86 nec anterior Hepat.)	B. Oomycetæ 55. Chytridiaceæ Olpidiæ	Reessia Fisch '84 Sphærita Dang. '88 Asterocystis De Wild. '93 Olpidium A. Br. '55 Olpidiopsis Corn. '72 Plasmophagus De Wild. '95 Pleocystidium Fisch '84 Olpidiella Lag. '88 Pleotrachelus Zopf '84 Ectrogella Zopf '84 Pleolpidium Fisch. '92 Endolpidium De Wild. '94 Nucleophaga Dang. '96
Choanophoreæ	Choanophora Cunn. '78		
Chaetocladieæ	Chaetocladium Fres. '63	Synchytriæ	Rozella Cornu '72 Woronina Cornu '72 Synchytrium DB. '63 Pycnochytrium DB. '63 Micromyces Dang. '88
Piptocephalideæ	Piptocephalis DB. '65 Syncephalis v. Tieg. '73 Syncephalastrum Schröt. '86		
Gen. dubia v. exclud.	Chordostylon Tode 1790 Thelactis Mart. '21 Didymoerater Mart. '21 Diamphora Mart. '21 Aërophyton Eschw. '23 Hemicyphe Corda '37 Crateromyces Corda '37 Caulogaster Corda '37 Endodromia Berk. '41 Sclerocystis B. Br. '70 Xenomyces Ces. '79 Acrocystis E. et H. '90 Hapalocystis Sorok. '75	Rhizidieæ	Endophlyctis Fisch. '92 Rhizophidium Schenk '58 Phyctidium A. Br. '55 Sphærostyliidium A. Br. '56 Rhizophlyctis Fisch '92 Nowakowskia Borzi '85 Podochytrium Pfltz. '70 Latrostium Zopf '94 Harpochytrium Lag. '90 Obelidium Now. '76

	Amerosporæ		Amerosporæ
	Diphlyphetis Schröt. '92 Phlyctochytrium Schröt. '92 Rhizidiomyces Zopf '84 Rhizidium A. Br. '50 Chytridium A. Br. '56 Achlyella Lag. '90 Septocarpus Zopf '88 Chrysophlyctis Schilb. '96	58. Saprolegniaceæ Saprolegniæ	Pythiopsis DB. '88 Saprolegnia Nees '23 (= Diplanes Leitg. '70) Achlya Nees '23 Dictyuchas Leitg. '68 Thraustotheca Humphr. '92 Leptolegnia DB. '88 Astreptonema Hauptf. '95 Aphanomyces DB. '60 Aplanes DB. '88
Cladochytriæ	Physoderma Wallr. '33 Cladochytrium Now. '76 Anæbochytrium Zopf '84 Nowakowskiella Schröt. '93 Pyroctonum Prun. '94	Leptomitæ	Leptomitus Agardh '24 (= Apodya Cornu) Apodachlya Prings. '83 Nægeliella Schröt. '93 (= Nægeliella Reinsch '76, nec Reg.) Rhipidium Cornu '71 Blastocladia Reinsch '77 ? Rhizogaster Reinsch '75
Hyphochytriæ	Catenaria Sorok. '76 Hyphochytrium Zopf '84 Polyrhina Sorok. '76 Tetrachytrium Sorok. '74 Nephromyces Giard '88 Aphanistis Sorok. '89 Saccopodium Sorok. '89 Zygochytrium Sorok. '74	Pythiæ	Nematosporangium Fisch. '92 Pythium Prings. '58 ? Artotrogus Mont. '45 ? Ostracoblabe B. et Fl. '90 ? Lithopythium B. et Fl. '90
Oochytriæ	Diphlysa Schröt. '86 Polyphagus Now. '76 Urophlyctis Schröt. '86	59. Cystopodacæ	Cystopus Lév. '47
Lagenidiæ	Achlyogeton Schenk '59 Myzocyttium Schenk '56 Bicricium Sorok. '89 Lagenidium Schenk '57 Rhizomyxa Borzi '84	60. Peronosporacæ	Phytophthora DB. '76 Basidiophora R. et C. '69 Sclerospora Schröt. '76 Plasmopara Schröt. '86 Brennia Reg. '43 Peronospora Corda '37 ? Chlorospora Speg. '91 ? Siphopodium Reinsch '76
56. Ancylistacæ	Ancylistes Pfitz. '72 Resticularia Dang. '90		
57. Monoblepharidacæ	Monoblepharis Cornu '71 Gonopodya Fisch. '92		

	Amaurosporæ		Lamprosporæ
Myxomycetæ 61. Myxomycetaceæ Physareæ	Badhamia Bek. '52 Physarum Pers. 1796 ?Crateriachea Rost. '72 Fuligo Hall. 1768 Æthaliopsis Zopf. '84 Cienkowskia Rost. '72 Physarella Peck '82 Craterium Trent. 1797 Leocarpus Link. 1809 Chondrioderma Rost. '73 Trichamphora Jung. '86 Diachrea Fries '25	Heterodermæ	Lindbladia Fr. '49 Cribraria Pers. 1796 Dictydium Schrad. 1797 (= Heterodictyum Rost. '75)
		Liceæ	Licea Schrad. 1797 (= Protoderma Rost. '75) Oreadella Wing. '89
		Tubulinæ	Tubulina Pers. 1797 Siphoptychium Rost. '76 Alwisia B. et Br. '73
		Reticulariæ	Dictydiæthium Rost. '73 (= Clathroptychium Rost. '75) Enteridium Ehrenb. '18 Reticularia Bull. 1791
Didymiæ	Didymiam Schrad. 1797 Spumaria Pers. 1797 Lepidoderma De Bary '76	Trichiæ	Trichia Hall. 1768 Oligonema Rost. '75 Calonema Morg. '93 Hemitrichia Rost. '72 (= Hemiarcyria Rost. '76) Cornuvia Rost. '73
Stemonitæ	Stemonites Gled. 1758 Comatricha Preuss '51 Raciborskia Berl. '88 ?Echinostelium De B. '73 Enerthenema Bowm. '30 (= Ancyrophora Rauak.) Lamproderma Rost. '72 Clastoderma Blytt '80 (= Orthotrichia Wing. '86)	Arcyriæ	Arcyria Hill 1751 (= Heterotrichia Masseur) Lachnobolus Fr. '25 Perichæna Fr. '17 ?Hymenobolina Zuck. '93
Amaurochætæ	Amaurochæte Rost. '73 Brefeldia Rost. '72 ?Rostafinskia Speg. '80	Margaritæ	Margarita Lister '94 Dianema Rex '91 Prototrichia Rost. '76
		Lycogalæ	Lycogala Mich. 1729 (= Dermodium Zopf. '76)
		Genera omnino dubia	Bactriexta Preuss '52 Endocalyx B. et Br. '74 Fictoderma Preuss '52 Ostracoderma Fr. '25 Tipularia Chev. '22

	Hyalosporæ		Hyalosporæ
62. Ceratiomyxaceæ	Ceratiomyxa Schröt. '89 (= Ceratium A. S. 1805, nec Schränk 1793, Ceratopsis De Wild. '96)	66. Monadinaceæ Vampyrilleæ	Spirophora Zopf '85 Haplococcus Zopf '85 Vampyrilla Cienk. '82 Leptophrys H. et Less. '85 Endyonema Zopf '85
63. Acrasiaceæ	Copromyxa Zopf '85 Guttulina Cienk. '73 Dictyostelium Bref. '69 Acrasis Van Tieg. '80 Polysphondylium Bref. '84	Bursullineæ	Bursulla Sorok. '76
64. Phytomyxaceæ	Phytomyxa Schröt. '85 Tetramyxa Goeb. '84 Sorosphaera Schröt. '85 Plasmodiophora Wor. '77 Frankia Brunch. '86	Monocysteæ	Enteromyxa Cienk. '85 Myxastrum Häckel Cænonia v. Tiegh. '84
65. Myxobacteriaceæ	Chondromyces B. et C. '57 (= Myxobotrys Zuck.) Polyangium Link 1795 (= Myxobaeter Thaxt. '92) Cystobacter Schröt. '86 Myxococcus Thaxt. '92	Pseudosporeæ	Colpodella Cienk. '82 Pseudospora Cienk. '82 Protomonas Häck. Protochytrium Borzi '84 Diplophysalis Zopf '85
Dubiæ sedis	Vampyrellidium Zopf '85	Gymnococcaceæ	Gymnococcus Zopf '85 Aphelidium Zopf '85 Pseudosporidium Zopf '85 Protomyxa Häck. Plasmodium March. et Celli '83 Myxidium Bütschli Sarcocystis Lank. Amœbidium Cienk. '85 Noseina Næg. '57 Endobiella D. Bruyne '88

	Hyalosporæ	Phæosporæ	Psæodidymæ	Hyalodidymæ
Deuteromycetæ				
<i>Sphærospidaceæ</i>				
67. Sphærioidaceæ				
A. Simplicis				
* Calvæ				
α Monachosporæ				
I. Atrichosporæ				
§ Esubiculatæ				
α. Erostris				
† Dialysporæ	Phyllosticta Pers. '823	2	3	Ascochyta Lib. '31
	10	11	12	13
	19	20	21	22
	Phoma Fr. 1819	Coniothyrium Corda '40	30	31
	37	Harknessia Cooke '81	39	40
	46	47	48	49
	Macrophoma Sacc. '84	Sphærospis Lév. '45	Diplodia Fr. '49	Diplodina West. '57
	64	Macropodia Sacc. '84	Macrodiploia Sacc. '84	67
	73	74	75	Ambrosiella Sacc. '96
	Aposphæria Berk. '60	Sphæromma Sacc. '92	Diplodiella Karst. '84	Pucciniospora Speg. '86
	Dendrophoma Sacc. '80	92	93	Cystotricha B. et Br. '50
	Asteromella P. et T. '80	101	102	103
	Piptostomum Lév. '46	110	111	112
	Crocicreas Fr. '49	119	120	121
	Pyrenotrichum Mont. '43	128	129	130
	Sclerotiopsis Speg. '82	137	138	139
	Plenodomus Treuss '49	Hypocenia B. et C. '74	147	148
	Mycogala Rost. '77	155	156	157
†† Synsporæ	163	164	165	166
	172	173	174	175
b. Rostratæ	Sphæronæma Fr. '23	Næmosphæra Sacc. '84	Pellionella Sacc. '96	Rhynchophoma Karst. '84
	190	Levicuxia Fr. '48	192	193
	Glutinium Fr. '49	200	201	202
§§ Subiculatæ	Chætophoma Cooke '74	Capnodiastrum Speg. '86	Chætodiploia Karst. '84	211
	Asteroma DC. '15	218	219	Actinonema Fr. '49
	Ypsilonia Lév. '46	227	228	229
	Cicinobolus Ehrenb. '53	236	237	238
II. Trichosporæ	Neottiospora Desm. '43	245	246	Robillardia Sacc. '80
	253	254	255	Tiarospora Sacc. et M. '95
	262	263	264	Darluca Cast. '51

Hyalophragmiæ	Phæophragmiæ	Phæodictyæ	Hyalodictyæ	Scolecosporæ
5	6	7	8	Scyrtoria Fr. '29
14	16	16	17	Rhabdospora Mont. '46
23	24	25	26	Phleospora Wallr. '33
32	33	34	35	Phlyctæna M. et D. '47
41	42	43	44	45
Paolettia Sacc. '96	51	52	53	54
Stagonospora Sacc. '80	Hendersonia Berk. '41	Camarosporium Schulz. '70	62	Collonema Grove '86
68	69	Endobotrya B. et C. '74	71	72
77	78	79	80	81
86	Hendersoniella Sacc. '81	Cytosporium Peck '79	89	90
95	96	97	98	99
104	105	106	107	108
113	Angiopoma Lév. '41	115	116	Gelatinosporium Peck '71
122	123	124	125	126
131	132	133	134	135
140	141	142	143	144
149	150	151	152	Micula Dubý '58
158	159	160	161	Micropera Lév. '40
167	Prosthemia Kunze '17	169	170	171
176	Eriosporina Togn. '95	178	179	180
185	Macrobatis Starb. '98	187	188	Sphærographium Sacc. '82
Topospora Fr. '35	195	195	197	Cornularia Karst. '84
(= Mastomyces Mont. '48)	204	205	206	207
203	213	214	215	216
212	Couturea Cast. '45	223	224	225
Asteromidium Sacc. '84	231	232	233	234
230	240	241	242	243
239	Cryptostictis Fuck. '69	250	251	Dilophospora Desm. '40
Kellermania E. et Ev. '95	253	259	260	261
257	267	268	269	270
296				

	Hyalosporæ	Phæosporæ	Phæodidymæ	Hyalodidymæ
β Seiosporæ	Sirococcus Preuss '54 Peckia Clint. '75	Sirothecium Karst. 87 281	273 282	274 283
** Setosæ	Muricularia Sacc. '79 Staurochaeta Sacc. '75 Melochæta Sacc. '84 Pyrenochaeta D. N. '49 Vormicularia Er. '49	280 290 Chætomella Fuck. '69 317 326	291 300 Chætodiplodia Karst. '84 318 327	292 301 Didymochaeta Sacc. '93 319 328
<i>B. Compositæ</i>	Dothiorella Sacc. '80 Dothiopsis Karst. '84 Rabenhorstia Fr. '49 Anthrocoderma Speg. '87 Fuckelia Bon. '70 Placosphaeria Sacc. '80 Fusicoccum Corda '29 Gamosporella Speg. '88 Cytosporella Sacc. '80 Cytospora Ehrenb. '18 Lamyella Fr. '49 Torsellia Fr. '49 sec Starb. Ceuthospora Fr. '25	Haplosporella Speg. '81 344 (Hypocenia B. et C. '74) 362 Weinmannodora Fr. '49 Discomycopsis J. Müll. '94 389 398 407 416 425 434 Cytoplea B. et S. '84	Botryodiplodia Sacc. '80 Nothopatiella Sacc. '92 354 363 372 381 396 399 408 Lesiodiplodia E. et Ev. '96 426 435 444	337 346 355 364 373 382 391 400 409 Cytodiplospora Oud. '94 427 436 445
68. Nectrioidaceæ				
A. Zythiæ				
† Simplicis				
* Erostris	Eurotiopsis Karst. '89 Zythia Fr. '49 Chaetozythia Karst. '88 Collacystis Kunze '27 Roumegueriella Speg. '80 Libertiella S. et R. '80 Dichlena Mont. et Dur. '49	2 11 20 29 38 47 56	3 Pendodiplodia Karst. '84 21 30 39 48 57	4 13 22 31 40 49 58
* Rostratæ	Sphaeromella Karst. '84 Trelesiella Speg. '96	65 74	66 75	67 76
†† Compositæ	Aschersonia Mont. '48 Munkia Speg. '86	Martinella C. et M. '89 92	84 93	85 94
<i>B. Patellinæ</i>	Hysteromyxa S. et E. '82 Patellina Speg. '81 Ollula Lév. '63 Cyphina Sacc. '84	101 110 119 128	102 111 120 129	103 112 121 130

Hyalophragmiæ	Phæophragmiæ	Phæodictyæ	Hyalodictyæ	Scoleosporæ
275	276	277	278	279
284	285	286	287	288
293	294	295	296	297
302	303	304	305	306
311	312	313	314	315
320	Woinowicia Sacc. '92	322	323	Gamospora Sacc. '85
329	330	331	332	Trichoseptoria Cav. '92
338	Hendersonula Speg. '80	Dichomera Cooke '78	341	342
347	348	349	350	351
356	357	358	359	360
365	366	367	368	369
374	375	376	377	Septoriella Ond. '89
383	384	385	386	Eriospora B. et Br. 50 (nec Hochst. 50)
392	393	394	395	396
401	402	403	404	405
410	411	412	413	414
419	420	421	422	Cytosporina Sacc. '81
428	429	430	431	432
437	438	439	440	441
446	447	448	449	450
5	6	7	8	9
Stagonopsis Sacc. '84	15	16	17	Trichocrea March. '91
23	24	25	26	27
32	33	34	35	36
41	42	43	44	45
50	51	52	53	54
Chiastospora Riek. '52	60	61	62	63
68	69	70	71	Rhynchomyces S. et M. '85
77	78	79	80	81
86	87	88	89	Polystigmina Sacc. '84
95	96	97	98	99
104	105	106	107	108
113	114	115	116	Trichosperma Speg. '88
122	123	124	125	126
131	132	133	134	135

	Hyalosporæ	Phæosporæ	Phæodidymæ	Hyalodidymæ
69. Leptostromaceæ				
<i>A</i> Simplicis				
† <i>Astomæ</i> v. <i>poro</i> <i>pertusæ</i>				
* <i>Atrichosporæ</i>	Leptothyrium Kunze '23 Eriothyrium Speg. '87 Trichopeltulum Speg. '89 Piggotia B. et Br. '51 Melasmia Lév. '46 Actinothecium Ces. '55	Pirostoma Fr. '49 11 Asterostomella Speg. '46 29 Lasmenia Speg. '86 47	Diplopeltis Pass. '90 12 21 30 39 48	Leptothyrella Sacc. '85 13 22 31 40 49
** <i>Trichosporæ</i>	55 64 73	56 65 74	57 66 75	58 67 76
†† <i>Rimosæ</i>	Leptostroma Fr. '18 Labrella Fr. '25 ?Sacidium Nees '23	83 92 101	84 93 102	85 94 103
<i>B</i> Compositæ	Trichophila Oud. '89	110	111	112
70. Excipulaceæ				
<i>A</i> Glabrescentes				
† <i>Subcupulatæ</i>	Godroniella Karst. '84 Excipula Fr. '23 Melanophæa Sacc. '84 Heteropatella Fuck. '73 Dothichiza Lib. ap. R. et Sp. '80 Lemalis Fr. '49 Catinula Lév. '48 Discula Sacc. '84	2 11 20 29 38 47 56 Phæodisoula Cub. '91	3 12 21 30 39 48 57 66	4 13 22 Pseudopatella Sacc. '84 40 49 58 Discella B. et Br. '50
†† <i>Subvalvatæ</i>	Sporonema Desm. '47 Pleococcum D. et Mont. '49 Psilospora Rabenh. '56	74 83 92	75 84 93	76 85 94
<i>B</i> Vestitæ	Amerosporium Speg. '82 Dinemasporium Lév. '46 Stauronema Sacc. '84 Polynema Lév. '46	Coniothyriella Speg. '89 110 119 128	102 111 120 129	103 112 121 130
Sphærospidaceæ <i>dubiæ</i>	Coccolobus Wallr. '33 Amphisporium Link '16 Endotrichum Corda '38 Neuroeciium Kunze ap. Fr. '49 Microsticta Desm. '49 (Pleosporopsis Auct. (= <i>Æcidium</i> !, nec Oerst.)	137 146 155 164 178 182	138 147 156 165 174 183	139 148 157 166 175 184

Hyalophragmiæ	Phæophragmiæ	Phæodictyæ	Hyalodictyæ	Scolecosporæ
5	6	7	8	9
14	15	16	17	Chætopeltis Sacc. '97
23	24	25	26	27
32	33	34	35	36
Cystothyrium Speg. '87	42	43	44	Melophia Sacc. '84
50	51	52	53	54
59	60	61	62	Actinothyrium Kunze '23
Discosia Lib. '37	69	70	71	72
Entomosporium Lév. '56	78	79	80	81
85	87	88	89	Leptostromella Sacc. '82
95	96	97	98	99
104	105	106	107	106
113	114	115	116	Brunchorstia Eriks. '91
5	6	7	8	9
Excipulina Sacc. '84	15	16	17	18
23	24	25	26	27
32	33	34	35	Oncospora Kalchb. '80
41	42	43	44	Schizothyrella Thüm. '80
50	51	52	53	54
59	60	61	62	Pseudocenangium K. '85
Pilidium Kunze '23	69	70	71	Protostegia Cooke '81
77	78	79	80	81
86	87	88	89	90
95	96	97	98	99
Excipularia Sacc. '84	105	106	107	108
113	114	115	116	117
Acanthothecium Speg. '89	123	124	125	126
131	132	133	134	Ephelis Fr. '49
140	141	142	143	144
149	150	151	152	153
158	159	160	161	162
167	168	169	170	171
176	177	178	179	180
185	186	187	188	189

	Hyalosporæ	Phæosporæ	Phæodidymæ	Hyalodidymæ
71. Melanconiaceæ				
A Atrichosporæ				
† Inermes				
*Monachosporæ	Hainesia E. et S. '84 Glæosporium Desm. et M. '49 Myxosporium Link '25 28 Næmospora Pers. 1801 Melanostroma Corda '29 55	2 Basiascus Cav. '88 Melanconium Link 1809 Cryptomela Sacc. '84 38 47 56	3 12 Didymosporium Nees. '16 Epiclinium Fr. '49 39 48 57	4 Marsonia Fisch. '74 Septomyxa Sacc. '84 81 40 49 58
**Seirosporæ	Hypodermium Link '16 Myxosporella Sacc. '81 Blennoria Fr. '25 Agyriella Sacc. '84 Trullula Ces. '52 Cesatia Rabenh. '51 Hormococcus Pr. '52 Myxormia B. et Br. '50 Bloxamia B. et Br. '54	65 74 83 Thyrsidium Mont. '36 101 110 119 128 137	66 75 84 Bullaria DC. 1805 102 111 120 129 138	67 76 85 94 103 112 121 130 139
†† Setosæ	Colletotrichum Corda '37 154 163	146 155 164	147 156 165	148 157 166
B Trichosporæ	Pestalozziella S. et. E. '82 181	173 182	Neobarclaya Sacc. '95 (= Barclayella S. '92 nec Diet.) 183	Glæosporella Cav. '92 184
C Staurosporæ	190 199	191 200	192 201	193 202

Hyalophragmiæ	Phæophragmiæ	Phæodictyæ	Hyalodictyæ	Scolecosporæ
Rhopalidium M. et Fr. '49	6	7	8	9
Septoglœum Sacc. '80	15	16	17	Cylindrosporium Ung. '33
23	Stilbospora Pers. 1801	Steganosporium Corda '26	26	Cryptosporium Kunze '17
32	33	34	35	36
41	42	43	44	Libertella Desm. '30
50	Coryneum Nees '16	52	53	54
59	Scolecosporium Lib. ap. Sacc. '81	61	62	63
68	69	70	71	72
77	78	79	80	81
86	Seiridium Nees '16	Phragmotrichum K. et S. '23	89	90
95	Seiridiella Karst. '90	97	98	99
104	105	106	107	108
113	114	115	116	117
122	123	124	125	126
131	132	133	134	135
140	141	142	143	144
149	150	151	152	153
158	Hyaloceras M. et D. '46	160	161	162
167	Diploceras Sacc. '92	169	170	171
Pestalozzina Sacc. '84.	Pestalozzia DN. '41	178	Morinia B. et Bres. '89	180
185	Monochaetia Sacc. '84	187	188	189
Prosthemiiella Sacc. '81	Asterosporium Kunze '19	196	197	198
Psammina R. et S. '91	204	205	206	207

72. Mucedinacæ

	Hyalosporæ	Hyalodidymæ	Hyalophragmiæ	Staurospora	Helicospora
Hyphomycetæ					
Laxæ					
[Mucedin. et Demat.]					
I. Homochromæ					
* Miconemæ					
§ Monachosporæ					
α Atrichosporæ	Chromosporium Corda '29	2	3	4	5
	12	13	Fusoma Corda '37	15	16
	Allantospora Wakk. '96	24	25	Prisinaria Pr. '51	Helicomycet Link 1809
	Coccospora Wallr. '33	35	Paraspora Grove '84	Trinacrium Riess '52	38
	Coccosporella Karst. '92	46	Rotrea Ces. '51	Titrea Sacc. '76	Helicoon Morg. '92
	56	57	58	Tridentaria Pr. '52	60
	Sorosporella Sorok. '89	68	69	Desmidiospora Thaxt. '91	71
	Microstroma Niessl '65	79	80	81	82
	(Massospora = Entomophthora)	90	91	92	93
	100	101	102	103	104
	Glomerularia Peck. '84	112	113	114	115
	Solenotila Lagorb. '92	123	? Milowia Massee '84	125	126
β Trichosp.	133	134	Mastigosporium Riess '52	136	137
§§ Seirosporæ	Glycophila Mont. '51	145	146	147	148
	[Chalara Corda]	156	157	158	159
	Malbranchea Sacc. '82	167	168	169	170
	Sporendonema (Desm.) Oud. '85	178	179	180	181
	Oospora Wallr. '33	Horniactis Preuss '51	[Septocylindrium Bon.]	191	192
	Halobysus Zuk. '92	200	201	202	203
	Fusidium Link 1809	211	212	213	214
	Monilia Pers. 1797	222	223	224	225
	Cylindrium Bon. '51	233	Septocylindrium Bon. '51	235	236
	Polyscytalum Riess '53	244	245	246	247
	Geotrichum Link 1809	255	256	257	258
	265	266	267	268	269
	Oidium Link 1809	277	278	279	280
	287	288	289	290	291
	? Pæpalopsis Kühn '83	299	300	301	302
	309	310	311	312	313

73. Dematiaceæ

Helicosporæ	Staurosporæ	Phæodictyæ	Phæophragmiæ	Phæodidymæ	Phæosporæ
6	Cheiromyces Berk. '57	Stigmella Lév. '42	Stigmia Sacc. '80	Dicoccum Corda '29	Coniosporium Link 1809
17	18	19	Fusariella Sacc. '84	21	Fusella Sacc. '86
Helicosporia Karst. '89	Ceratosporium Schw. '34	Coniothecium Corda '36	Clasterosporium Schw. '34	32	33
39	40	41	[Brachydesmium Sacc. '86]	43	44
Helicoma Corda '37 em. Sacc.	Mirudinaria Ces. '56	Tetraploa B. et Br. '50	Ceratophorum Sacc. '80	Cycloconium Cast. '45	55
61	62	63	Pleiochæta Sacc. '95	65	66
Helicosporium Nees '16	73	Dictyosporium Corda '56	Urosporium Fing. '36	76	77
83	84	Speira Corda '37	Cryptocoryneum Fuck. '69	87	88
94	95	96	97	98	99
105	106	Sporodesmium Link 1809	108	109	110
116	117	118	119	120	Echinobotryum Corda '42
127	128	129	130	131	132
138	139	140	141	142	143
149	150	151	Sporoschisma B. et Br. '47	153	154
160	161	162	163	164	165
171	172	173	174	175	176
182	183	184	185	186	187
193	194	Sirodesmium DN. '50	Septonema Corda '37	Bispora Corda '37	Torula Pers. '1801
204	205	206	207	208	Hormiactella Sacc. '86
215	216	217	218	219	Gongromoriza Pr. '51
226	227	228	229	230	231
237	238	239	240	241	242
248	249	250	251	252	253
259	260	261	262	263	Gyroceras Corda '37
270	271	272	273	274	Holicocephalum Thaxt. '91
281	282	283	284	285	Horniscium Kunze '17
292	293	294	295	296	[Epochium Link '06]
303	304	305	Polydesmus Mont. '45	307	Prophytroma Sorok. '77
314	315	316	317	318	Heterobotrys Sacc. '80

72. Mucedinaceæ (seq.)					
	Hyalosporæ	Hyalodidymæ	Hyalophrogmiæ	Staurosporæ	Helicosporæ
**Macronemææ					
† Capitatæ					
§ Monachosporæ	Rhopalomyces Corda '39	321	322	323	324
	Edocephalum Preuss '51	332	333	334	335
	Sigmoideomyces Thaxt. '91	343	344	345	346
	Coronella Crouan '67	354	355	3 6	357
	Hyalopus Corda '38	365	366	3 7	368
	Doratomyces Corda '37	376	377	378	379
	386	387	388	389	390
	Haplotrichum Link '24	Cephalothecium Corda '28	Dactylaria Sacc. '80	400	401
	408	409	410	411	412
	Botryosporium Corda '37	420	421	422	423
	Coemansiella Sacc. '83	431	432	433	434
	Cephalosporium Corda '39	442	443	444	445
	[Papulospora Pr. cfr. p. 34]	453	454	455	456
	Trichoderma Pers. 1797	464	465	466	467
	474	475	476	477	478
	485	486	487	488	489
	Corethrospis Corda '39	497	498	499	500
	507	508	509	510	511
	518	519	520	521	522
	Spicularia Pers. '22	530	531	532	533
	Cylindrocephalum Bon. '51	541	542	543	544
	Cephocylindrium Sac. '86	552	553	554	555
§§ Seirosporæ	Aspergillus Mich. 1729	563	564	565	566
	Sterigmatocystis Cran. '59	574	575	576	577
	Dimargaris v. Tiegh. '75	585	586	587	588
	Dispira v. Tiegh. '75	596	597	598	599
	Amblyosporium Fres. '63	607	608	609	610
	Penicillium Link 1809	618	619	620	621
	628	629	630	631	632
	Citromyces Wöhm. '93	640	641	642	643
	Gliocladium Corda '40	651	652	653	654
	Briarea Corda '37	662	663	664	665

73. Dematiaceæ (seq.)

Helicosporæ	Staurosporæ	Phæodictyæ	Phæophragiæ	Phæodidymæ	Phæosporæ
325	326	327	328	329	330
336	337	338	339	340	341
347	348	349	350	351	352
358	359	360	361	362	363
369	370	371	372	373	374
380	381	382	383	384	385
391	392	393	394	395	Camptoum Link '24
402	403	Dactylosporium Harz '71	Acrothecium Preuss '51	Cordana Preuss '51	Acrotheca Fuck '69
413	414	415	[Acrothecula Sacc. '86]	Beltrania Penz. '82	Synsporium Pr. '49
424	425	426	427	428	429
435	436	437	438	439	440
446	447	448	449	450	451
457	458	459	460	461	462
468	469	470	471	472	473
479	480	481	482	483	Haplobasidium Eriks. '89
490	491	492	493	494	Periconia (Tode) Bon. '51
501	502	503	504	505	Stachybotrys Corda '42
512	513	514	515	516	Periconiella Sacc. '85
523	524	525	526	527	Cephalotrichum Berk. '60
534	535	536	537	538	539
545	546	547	548	549	550
556	557	558	559	560	561
567	568	569	570	571	572
578	579	580	581	582	583
589	590	591	592	593	594
600	601	602	603	604	605
611	612	613	614	615	616
622	623	624	625	(Diplococcium Grove)	Graphiopsis Trail '88
633	634	635	636	637	(Hormodendron Bon.)
644	645	646	647	648	649
655	656	657	658	659	660
666	667	668	669	670	671

72. Mucedinacæ (seq.)

	Hyalosporæ	Hyalodidymæ	Hyalophragmiæ	Staurosporæ	Helicosporæ	
†† Non capitata nec verticillatæ § Monachosporæ	Haplaria Link 1809	673	674	675	676	
	Acladium Link 1809	684	685	686	687	
	694	695	696	697	698	
	Cylindrotrichum Bon. '51	706	707	708	709	
	Blastomyces Cost. et R. '88	717	718	719	720	
	Physospora Fr. '49	728	729	730	731	
	738	739	740	741	742	
	Hyphoderma Fr. '49	750	751	752	753	
	760	761	762	763	764	
	771	772	773	774	775	
						Hyalodictyæ
	Acremonium Link 1809	Trichothecium Link 1809	Monacrosporium Oud. '85	785		Synthetospora Morg. '92
	793	Didymopsis S. et M. '85	Dactylella Grove '84	796		797
	804	805	806	807		808
	Rhinotrichum Corda '37	816	817	818		819
	Olpitrichum Atkins. '94	827	828	829		830
	837	838	839	840		841
	Sporotrichum Link 1809	Diplosporium Bon. '51	Blastotrichum Corda '38	851		852
	859	860	861	862		863
	Sporotrichella Karst. '87	871	872	873		874
	881	882	883	884		885
	Monosporium Bon. '51	893	894	895		896
	Langloisula E. et Ev. '89	904	905	906		907
	Botrytis Mich. 1729	915	916	917		918
	Polyactis Link 1809	926	927	928		929
	Phymatotrichum Bon '51	937	938	939		940
	Cristularia Sacc. '86	948	949	950		951
	Tolypomyria Preuss. '52	959	960	961		962
	Martensella Coem. '63	970	971	972		973
	Cylindrophora Bon. '51	981	982	983		984

73. Dematiaceæ (seq.)

Helicosporæ	Staurosporæ	Phæodictyæ	Phæophragmiæ	Phæodidymæ	Phæosporæ
677	678	Coccosporium Corda '37	Spondyliocladium Martius '17	681	682
688	689	690	691	692	Goniosporium Link '24
699	700	701	702	703	Arthrinium Kunze '17
710	711	712	713	714	715
721	722	723	724	725	726
732	733	734	735	(Cladotrichum Corda)	Oedemium Link '24
743	744	745	746	747	Cystophora Rabenh. '44
854	755	756	Ophiotrichum Fr. '49	758	759
765	766	767	Drepanospora B. C. '75	769	Cordella Speg. '86
776	777	Sarcinella Sacc. '77	779	780	Sporoglena Sacc. '94
787	Triposporium Corda '37	Mystrosporium Corda '37	(Napiocladium Thüm.)	Trichoeladium Harz. '71	Acremoniella Sacc. '81
798	799	800	801	802	Monotospora Corda '37
809	810	811	812	813	Hadrotichum Fuck. '69
820	821	822	823	824	825
831	832	833	Camposporium Hark. '84	Cladotrichum Corda '87	Rhinoeladium S. et M. '85
842	843	844	Heterosporium Kl. '32	[Didymothamnium Sacc. '86]	Streptothrix Corda '42
853	854	Stemphylium Wallr. '33	Helminthosporium Link 1809	Cladosporium Link '16	Trichosporium Fr. '49
864	865	Macrosporium Fr. '21	Brachysporium Sacc. '80	868	Acrospeira B. et Br. '67
875	876	Trichogum Corda '37	878	879	880
886	887	Septosporium Corda '37	889	890	891
897	898	899	900	901	Virgaria Nees '16
908	909	910	911	912	913
919	920	921	922	923	Camptosporium Ehrenb. '18
930	931	932	933	934	935
941	942	943	944	945	946
952	953	954	955	956	957
963	964	965	966	967	968
974	975	976	977	978	979
985	986	987	988	989	990

72. Mucedinacæ (seq.)						
	Hyalosporæ	Hyalodidymæ	Hyalophragmiæ	Scolecosporæ	Helicosporæ	
§ Moncosporæ (seq.)	Cylindrodendron Bon. '51	992	993	994	995	
	Ophiocladium Cav. '33	1003	1004	1005	1006	
	1013	1014	1015	1016	1017	
	1024	Bostrichonema Ces. '58	Piricularia Sacc. '80	1027	1028	
	Ovularia Sacc. '80	Didymaria Corda '42	Ramularia Ung. '33	1038	1039	
	1046	1047	(Cercospora Sacc.)	Cercospora Sacc. '80	1050	
	1057	1058	1059	1060	1061	
	Monopodium Delacr. '90	1069	1070	1071	1072	
	Sepedonium Link '09	Mycogone Link 1809	1081	1082	1083	
	Chaetocnidium Zuk. '89	1091	1092	1093	1094	
	Stephanoma Wallr. '33	1102	1103	1104	1105	
	Asterophora Ditm. '39	1113	1114	1115	1116	
	Pellicularia Cooke '76	1124	1125	1126	1127	
	1134	1135	1136	1137	1138	
	§§ Seirosporæ	Acrospira Mont. '57 (*)	1146	1147	1148	1149
		1156	1157	1158	1159	1160
		1167	1168	1169	1170	1171
1178		1179	1180	1181	1182	
††† Verticillatæ.		Pachybasium Sacc. '85	1190	1191	1192	1193
	Verticillium Nees '16	Diplocladium Bon. '51	Dactylium Nees '16	1203	1204	
	Oncocladium Wallr. '33	1212	1213	1214	1215	
	Gliocophalum Sacc. '86	1223	1224	1225	1226	
	Verticillium Cost. '92	1294	1235	1236	1237	
	Cladobotryum Nees '16	1245	1246	1247	1248	
	Acrocylindrium Bon. '51	Cylindrocladium Morg. '92	1257	1258	1259	
	Uncigera Sacc. '85	1267	1268	1269	1270	
	Calcarisporium Preuss '51	1278	1279	1280	1281	
	Cosmiansia v. Tieg. '73	1289	1290	1291	1292	
	Acrostalagmus Corda '88	1300	Mucrosporium Preuss '51	1302	1303	
	Clonostachys Corda '39	1311	1312	1313	1314	

(*) Valde atinis homonymæ *Acrospira* B. et Br. '57! (n. 869).

73. Dematiaceæ (seq.)

Helicosporæ	Scolecosporæ	Phæodictyæ	Phæophragmiæ	Phæodidymæ	Phæosporæ
996	997	998	999	1000	1001
1007	1008	1009	1010	1011	1012
1018	1019	1020	1021	Passalora Fr. et M. '49	1023
1029	1030	1031	1032	Scolecotrichum K. et S. '17	1034
1040	1041	1042	Napicladium Thüm. '75	Fusicladium Bon. '51	Glenspora B. et C. '76
1051	Ceroospora Fres. '63	1053	(Ceroospora Fres.)	1055	1056
1062	1063	1064	1065	Polythrincium Kunze '17	1067
1073	1074	1075	1076	1077	1078
1084	1085	1086	1087	1088	1089
1095	1096	1097	1098	1099	1100
1106	1107	1108	1109	1110	1111
1117	1118	1119	1120	1121	1122
1128	1129	1130	1131	1132	Zygodemus Corda '37
1139	1140	1141	1142	1143	[Hypochniella Sacc. '86]
1150	1151	Alternaria Nees '16	Dendryphium Wallr. '83	Hormodendrum Bon. '53	1155
1161	1162	1163	Brachycladium Corda '38	Epochnium Link 1809	Dematium Pers. 1797
1172	1173	1174	1175	Diplococcium Grove '85	Prophytroma Sorok. '77
1183	1184	1185	1186	(Cladotrichum Corda '37)	Catenularia Grove '86
1194	1195	(Fumago Pers.)	1197	Fumago Pers. 1822	1199
1205	1206	1207	1208	1209	1210
1216	1217	1218	1219	1220	1221
1227	1228	1229	1230	1231	1232
1238	1239	1240	1241	1242	1243
1249	1250	1251	1252	1253	1254
1260	1261	1262	1263	1264	1265
1271	1272	1273	1274	1275	1276
1282	1283	1284	1285	1286	1287
1298	1294	1295	1296	1297	1298
1304	1305	1306	1307	1308	1309
1315	1316	1317 ²	1318	1319	1320

	72. Mucedinacæ (seq.)			73. Dematiacæ (seq.)
	Hyalosporæ	Hyalodidymæ	Hyalophragmiæ	Phæosporæ
+++ Verticillatæ (seq.)	Sceptromyces Corda ^{'37}	1322	1323	1324
	Spicaria Harz '71	Didymocladium Sacc. ^{'80}	1327	1328
++++ Nodosæ	Gonatorrhodum Corda ^{'39}	1330	1331	1332
	Gonatorrhodiella Thaxt. '91	1334	1335	1336
	Gonatobotrys Corda ^{'39}	Arthrobotrys Corda ^{'39}	1339	Gonatobotryum Sacc. '80
	Nematogonium Desm. ³⁴	1342	1343	1344

73. Dematiaceæ (seq.)

	Hyalosporæ		Hyalosporæ
<i>II. Dichroma</i> (<i>Hyphæ fuscæ</i> , <i>conidia subhyalina</i>) * Heteropodæ	Sarcopodium Ehrenb. '18 [Tricholeconium Corda '37] Helicotrichum Nees '18 Botryotrichum S. et M. '85 [Peziotrichum Sacc. '95] Circinotrichum Nees '18 Ceratocladium Corda '39 Ellisiella Sacc. '80 Steirochaete Br. et Casp. '53	§ Monachosporæ (seq.)	Mesobotrys Sacc. '80 Menispora Pers. '22 [Eriomene Sacc. '86] Verticicladium Preuss '51 Zygosporium Mont. '42 Gonytrichum Nees '18 Cladorrhinum S. et M. '85
** Homopodæ	Myxotrichella Sacc. '92	§§ Cephalosporæ	Scopularia Preuss. '51, nec Lindl. '34 Fuekelina Sacc. '75 Stachylidium Link 1809
§ Monachosporæ	Chloridium Link 1809 [Psilobotrys Sacc. '86] Chætopsis Grev. '25	§§§ Seirosporæ	Haplographium B. et Br. '59 Rhipidocephalum Trail '88 Chalara Corda '38

		Hyalostilbeæ				
		Hyalosporæ	Hyalodidymæ	Hyalophragmiæ	Scoleosporæ	
74. Stilbaceæ § Monachosporæ	Stilbum Tode 1790		Didymobotryum Sacc. e. p.	Arthrosporium Sacc '80	Stilbomyces Ellis '95	
	[Leiostilbum Sacc. '86]		12	13	14	
	Polycephalum K. et C. '80		22	23	24	
	Tilachlidium Preuss '51		32	33	34	
	Coralloendron Jungh. '38		42	43	44	
	Cladosterigma Pat. '92		52	53	54	
	(Excl. Chondromyces B. et C. cf. p. 58)		62	63	64	
	Ciliciopodium Corda '36		72	73	74	
	Clavularia Karst. '82		82	Isariopsis Fres. '63	84	
	Isaria Pers. 1797		92	93	94	
	(Excl. Ceratiomyxa Schröt.)		102	Atractium Link 1809	104	
	Martindalea Sacc. et S. '85		112	113	114	
	Atractiella Sacc. '83		122	123	124	
	Actiniceps B. et Br. '74		132	133	134	
	(Excl. Pilacre Fr. cf. p. 13).		142	143	144	
	§§ Seirosporæ	Microspatha Karst. '89		152	153	154
		161		162	Symphyosira Preuss '52	164
		Coremium Link 1809		172	173	174
		Lasioderma Mont. '45		182	183	184
		191		192	193	194
Gibellula Cav. '94			202	203	204	
Peribotryum Fr. '32			212	213	214	

Phæostilbæ

Phæodictyæ	Phæophragmiæ	Phæodidymæ	Phæosporæ	Hyalosporæ	Staurosporæ
Sclerographium Berk. '64	Arthrobotryum Ces. '54	Didymobotryum Sacc. '86	Sporocybe Fr. 25	Graphium Corda '37	Riessia Fres. '52
15	16	17	Saccardæa Cav. '94	Harpographium Sacc. '80	20
25	26	27	28	29	30
35	36	37	38	39	40
45	46	47	48	49	50
55	56	57	58	59	60
65	Podosporium Schw. '32	67	Basidiella Cooke '78	69	70
75	76	77	78	79	80
85	Podosporiella E.E. '94	87	88	89	90
95	96	97	98	99	100
105	106	107	108	109	110
115	116	117	118	119	120
125	126	127	128	129	130
135	136	137	138	Stemmaria Preuss '51	140
145	146	147	Briosia Cav. '88	Graphiothecium Fuck. '69	150
155	Dendrographium Massee '92	157	158	Stysanus Corda '37	160
165	166	167	168	Trichurus C. et S. '96	170
175	176	177	178	179	180
185	186	187	188	Anthromyces Fres '50	190
195	196	197	198	Heydenia Fres. '52	200
205	206	207	208	209	210
215	216	217	218	219	220

Tuberculariaceæ mucedinæ					
	Hyalosporæ	Hyalodidymæ	Hyalophragmiæ	Scolecosporæ	Helicosporæ
75. Tuberculariaceæ A Glabrescentes	Tubercularia Tode 1790	Cosmariospora Sacc. '80	Bactridium Kunze '17	4	Everhartia S. E. '82
	10	Patouillardella Spig. '89	Pithomyces B. et Br. '73	13	Tropospora Karst. '92
	Chætospermum Sacc. '92	20	Ciliofusarium Rostr. '93	22	23
	Endoconidium Fr. et Del. '91	29	30	31	32
	Granularia Sacc. '82	38	Microcera Desm. '48	40	Hobsonia B. M. '91
	46	47	Heliscus Sacc. '80	49	Troposporium Harkn. '84
	Dendrodochium Bon. '51	56	Fusarium Link 1809	58	59
	[Fusamen Sacc. '86]	65	[Fusisporium Link 1809]	67	68
	[Leptosporium Sacc. '86]	74	75	76	77
	Tuberculina Sacc. '80	88	84	85	86
	Illosporium Martius '17	92	Seenosporium Corda '37	Lituaria Riess '52	95
	100	101	102	Dicranidium Harkn. '84	104
	Dacrydochium Karst. '96	110	111	112	113
	Phyllædia Fr. '25	119	Pionnotes Fr. '49	121	122
	Aegerita Pers. 1797	128	129	130	131
	Sphaerosporium Schw. '34	137	138	139	140
	Fusicolla Bon. '51	146	(Fusarium Link)	145	149
	Sphacelia Lévy. '27	155	156	157	158
	Hymenula Fr. '25	164	165	166	167
	172	173	174	175	176
	Myxonema Corda '37	182	183	184	185
	Dacrymycella Bizz. '85	191	192	193	194
	Trichotheca Karst. '87	200	201	202	203
	Myropyxis Ces. '51	209	210	211	212
	Epidochiopsis Karst. '92	218	219	Triglyphum Fres. '52	221
	226	227	228	229	230
	Diaphanium Fr. '85	236	237	238	239
	Pactilia Fr. '49	245	246	247	248
	Cylindrocolla Bon. '51	254	Discocolla Pr. et D. '94	256	257
	Spheridium Fr. '52	Endodesmia B. et Br. '71	264	265	266
	Sphaerocolla Karst. '92	272	273	274	275
	Sporoderma Mont. '56	281	282	283	284
	Patouillardia Roum. '85	290	291	292	293

Tuberculariaceæ dematiæ

Phæodictyæ	Phæophragniaæ	Phæodidymæ	Phæosporæ
Spegazzinia Saco. '81	Exosporium Link 1809	Pucciniopsis Speg. '86	Epicoccum Link 1816
15	16	17	18
24	25	26	27
33	34	35	36
42	43	Epiclinium Fr. '4	Spermodermia Tode 1790
51	52	53	Triplicaria Karst. '89
60	61	62	63
69	70	71	72
78	79	80	81
87	88	89	90
96	97	Sclerococcum Fr. '19	Bonplandiella Speg. '86
105	106	107	Strumella Fr. '25
114	115	116	117
123	124	125	Myriophysa Fr. '49
132	133	134	135
141	142	143	Sclerodiscus Pat. '90
150	151	152	153
159	160	161	162
168	169	170	Hymenopsis Sacc. '86
177	178	179	[Hymenobactron Sacc. '86]
186	187	188	189
195	196	197	198
204	205	206	207
213	214	215	216
222	223	224	Epidochium Fr. '49
231	232	233	Hormodochium Sacc. '86
240	241	242	243
249	250	251	252
258	259	260	261
267	Trimmatostroma Corda '37	269	Sphæromyces Mont. '45
276	277	278	279
285	286	287	Actinomma Sacc. '84
294	295	296	297

	Tuberculariaceæ mucedineæ			Tuberculariaceæ dematiæ		
	Hyalosporæ	Hyalodidymæ	Hyalophragmiæ	Phæodidymæ	Phæosporæ	
<i>A</i> Glabrescentes (seq.)	Bizzoeriella Speg. '88	299	300	301	302	
	Patellina Speg. '81	304	305	306	307	
	Hyphostereum Pat. '92	309	310	311	312	
	Cephalodochium Bon. '51	314	315	316	317	
	Thecospora Harkn. '84	319	320	321	322	
	Thozetia Berk. '80	324	325	326	327	
	Stigmatella B. et C. '57	329	330	331	332	
	Scoriomyces Ell. et Ev. '85	334	335	336	337	
	<i>B</i> Setulosæ	Periola Fr. '23	Leptotrichum Corda '42	340	341	342
		Volutellaria Sacc. '82	344	345	346	Trichostroma (Link?) Corda '30
Volutella Tode 1790		349	350	351	Myrothecium Tode 1790	
Guelichia Speg. '86		354	355	356	Chætostroma Corda '29	

HYMENOMYCETÆ

Syll. V p. 3, IX p. 1, XI p. 1.

Fam. 1. Agaricoceæ Fr. *)

Sect. 1. Leucosporæ Fr.

AMANITA Pers. — Syll. V, p. 8, IX, p. 1, XI, p. 1.

1. **Amanita praticola** Peck, Bull. Torr. Bot. Cl. 1897, p. 138. — 1

Pileo tenui convexo, leniter verrucoso, albo, plus minus luteo-tincto; carne alba; lamellis sublatis, subdistantibus, stipitem attingentibus, albis; stipite æquali v. sursum leniter attenuato, basim versus subsquamoso, albo v. albido, persistenter annulato; sporis magnis, late ellipticis, 13-14 $\frac{1}{2}$ \times 8-9.

Hab. ad terram nudam in pratis, Kansas Amer. bor. (BAETHOLOMEW). — Pileus 4-8 cm. latus; stipes 5-7 cm. longus, $\frac{1}{2}$ -1 cm. crassus. Stipitis basis non distincte bulbiformis, etiam reliquæ volvæ indistinctæ sunt. Cl. Peck scripsit « prairicola » nomen nimis barbarum.

2. **Amanita abrupta** Peck, Bull. Torr. Bot. Cl. 1897, p. 138. — Pileo 2

tenui, late convexo v. subplano, verrucis minutis angulosis v. pyramidalibus erectis subevanescentibus tecto, albo, ad marginem leniter striato; carne alba; lamellis modice confertis, stipitem attingentibus ac striis in eum decurrentibus, albis; stipite gracili, glabro, solido, bulboso, albo; bulbo abrupte subgloboso, sæpe basi hyphis mycelicis albis persistentibus tecto; annulo membranaceo, persistente; sporis late ellipticis v. subglobosis, 8-10 $\frac{1}{2}$ \times 6 $\frac{1}{2}$ -8.

Hab. in silvis in Alabama Amer. bor. (UNDERWOOD). — Pileus 5-10 $\frac{1}{2}$ cm. latus; stipes 6-10 $\frac{1}{2}$ cm. longus, $\frac{1}{2}$ -1 cm. crassus. Ad *Amanitam rubescentem*, *A. spissam* etc. accedit.

3. **Amanita candida** Peck, Bull. Torr. Bot. Cl. 1897, p. 137. — Pileo 3

tenui, late convexo v. subplano, verrucis numerosis minutis erectis angulosis v. pyramidalibus facile secedentibus tecto, ætate sæpe glabro, albo; carne alba; lamellis subangustis, confertis, stipitem

*) Opportunitatis causa, dispositio systematica hic adhibita, eadem est ac illa ceterorum *Syloges* voluminum, nec Tabularum præcedentium.

attingentibus, albis; stipite solido bulboso, floccoso-squamoso, albo; annulo apice stipitis affixo, sæpe ætate evanido, inferne floccoso-squamoso, superne striato; bulbo magno ovato, squamoso, immarginato, supra in stipitem attenuato, basi rotundato vel abrupte acutato; sporis ellipticis, $10\frac{1}{2}$ - 13×8 .

Hab. in silvis in Alabama Amer. bor. (UNDERWOOD et EARLE). — Pileus 8-16 cm. latus; stipes 7-13 cm. longus, 1-2 cm. crassus. *A. solitariae* affinis, sed characteribus bulbi ac annuli præcipue recedit.

4. **Amanita magnivelaris** Peck, 50 Rep. p. 96 (1897). — Pileo convexo v. subplano, glabro, viscidulo, albo v. flavo-albo, margine levi; lamellis liberis, confertis, albis; stipite subæquali, longo, glabro, albo, annulo lato, membranaceo, albo prædito, basi volva membranacea adpressa laciniata cincto ibique bulboso-radicato; sporis late ellipsoideis, $10 \times 7-8$.

Hab. in silvis Port Jefferson, Suffolk county Amer. bor. — Solitaria; pileus 7-12 cm. lat.; stipes 12-17 cm. long., 8-12 mm. cr. Ab *A. verna* annulo latissimo persistente distinguitur.

5. **Amanita lutea** Otth apud Trog, Mittheil. Natur. Gesellsch. Bern. 1857, p. 27. — Pileo conico-explanato, 3-4 cm. lat., luteo v. ochraceo-luteo, margine leviter involuto, striatulo, medio papilloso, mucoso, plerumque squamis latiusculis consperso; carne alba, sub cute flava; stipite cylindraceo-obclavato, 7-8 cm. long., basi bulboso, fragili, subcavo, annulo tenui albo, volvaque membranacea ornato; lamellis albis, liberis, confertis, introrsum attenuatis.

Hab. in Bremgartenwald Helvetiæ (OTTH).

AMANITOPSIS Roze — Syll. V, p. 20, IX, p. 2.

1. **Amanitopsis villosa** Peck, Bull. Torr. Bot. Club. 1895, p. 485. — 6

Pileo primo subgloboso, dein campanulato v. subplano, margine volvæ reliquias gerente, glabro, dein ad marginem sulcato-striato, alutaceo v. aurantiaco-alutaceo; carne alba; lamellis confertis, stipitem attingentibus, subventricosus, pallide cremeis; stipite firmo, primo tomentosus, apice attenuato, dein subæquali, albo v. albido; volva albida, tomentosa, crassa; sporis globosis, $10\frac{1}{2}$ - 13 . latis.

Hab. sub quercubus in California (Mc CLATCHIE). — Pileus 5-10 cm. latus; stipes 8- $10\frac{1}{2}$ cm. longus, 7-9 mm. crassus.

2. **Amanitopsis pusilla** Peck 50 Rep. p. 96 (1897). — Pileo tenui, 7 late convexo v. subplano, subglabro, leviter umbonato, pallide brunneo, margine levi; lamellis angustis, tenuibus, confertis, libe-

ris, demum brunneolis; stipite brevi, cavo, bulboso; bulbo volvæ membranacæ residuis marginato; sporis late ellipsoideis, 5-6 \times 4.

Hab. in graminosis, St. Lawrence County Amer. bor. (Mrs. ANTHONY). — Pileus 5 cm. lat.; stipes 16-26 mm. long., 2-4 mm. cr.

LEPIOTA Fr. — Syll. V, 27, IX, p. 3, XI, p. 2.

1. **Lepiota fusispora** P. Henn. Engl. Jahrb. XXIII, p. 556. — Pileo 8 membranaceo-carnosulo, centro subumbonato, radiatim striatulo, brunneo, squamulis granulatis obscurioribus tecto, 1 $\frac{1}{2}$ -3 $\frac{1}{2}$ cm. diam.; stipite tereti, gracili, levi glabroque, flavo, 3 $\frac{1}{2}$ -6 $\frac{1}{2}$ cm. longo, 2-3 mm. crasso, annulo membranaceo; lamellis liberis, confertis, angustis, pallidis; sporis fusioideis, hyalinis, utrinque subcutis, guttulatis, 15-18 \times 4-5.

Hab. in foliis putridis in Camerunia (ZENKER).

2. **Lepiota Zenkeri** P. Henn. Engl. Jahrb. XXIII, p. 555. — Pileo 9 carnosulo, primo subgloboso-ovoideo, dein campanulato, aurantiaco, vertice obscuriore, dense farinaceo et flocculis plumosis secedentibus squamoso, margine levi glabroque, usque ad 4-5 cm. diam.; stipite tereti, ad basin obclavato-incrassato, fistuloso, aurantiaco, granulis farinaceis citrinis dense vestito usque ad 20 cm. longo, 1-1 $\frac{1}{2}$ cm. crasso, basi usque ad 2 $\frac{1}{2}$ cm. crasso, levi, annulo secedente; lamellis liberis, confertis, latis, albis; sporis globosis v. subglobosis, 1-guttulatis, hyalinis, intus subgranulatis, 7-8 μ . diam.

Hab. in foliis deciduis in Camerunia (ZENKER).

3. **Lepiota incarnata** Clem. Bot. Survey of Nebraska IV. Lincoln. 10 1896, p. 17. — Subcæspitosa; pileo tenui, subcarnoso, conico denique campanulato, raro convexo, parum sericeo, pallide incarnato, squamulis obscurioribus, margine striato; umbone distincto, dein atro; stipite solido, gracili, æquali, glabro, raro sericeo, pallido v. subrosaceo; annulo medio v. supero, fixo, erecto, albo; lamellis remotis, subdistantibus, vix ventricosis, albis; sporis minutis, ovato-ellipsoideis, uniguttulatis, apiculatis, 5-6 \times 3.

Hab. ad terram inter folia in Nebraska Amer. bor. — Pileus 2-4 cm. lat., 1 $\frac{1}{2}$ -3 alt.; stipes 3-6 cm. long., 2-5 mm. crassus.

4. **Lepiota rufo-granulata** P. Henn. Hedw. 1897, p. 209. — Pileo 11 tenui, carnosulo, submembranaceo, campanulato-expanso, pallido, squamis rufobrunneis, punctiformibus, innatis tecto, ca. 2 cm. diametro; stipite fistuloso, levi glabroque, ca. 2 cm. longo, 1 $\frac{1}{2}$ -2 cm. crasso, pallido, basi vix incrassato, annulo membranaceo secedente

albo; lamellis liberis, subconfertis, albis, lanceolatis; sporis subglobosis, hyalinis, basi apiculatis, 5-6 μ . longis.

Hab. ad lignum pr. Blumenau Brasiliæ (MÖLLER.). — *Lepiota cristata* affinis.

5. **Lepiota imbricata** P. Henn. Hedw. 1895, p. 333. — Pileo carnosio, 12 ovato-campanulato, deinde explanato, umbonato, cute crassa in squamis imbricatis, rigidis, coriaceis persistentibus, tuberculatis, fusco-brunneis lacerata, 3-5 cm. diam.; stipite cavo, basi bulboso, pallido, levi, annulo mobili cartilagineo pallide fusco, usque ad 10 cm. longo, 1 cm. crasso; lamellis liberis, subconfertis, pallidis; carne subrubescente; sporis late ellipsoideis v. ovato-ellipsoideis, uniguttulatis, levibus, 13-15 \times 8-10, episporio flavescente v. subincarnescente.

Hab. ad terram in Erythræa (SCHWEINFURTH).

6. **Lepiota minuta** Vogl. Bull. Soc. bot. Ital. 1896, p. 41. — Pileo 13 carnosulo, levi, campanulato-expanso, viscoso, testaceo, 6-8 mm. lato; lamellis liberis, albis, confertissimis; sporis sphæroideis, hyalinis, 2-3 μ . latis; basidiis clavatis, 4-sterigmaticis; stipite æquali, levi, sicco, brunneolo, annulo angustissimo instructo, 12-18 mm. longo, 4 mm. lato.

Hab. ad terram, locis incultis in M. Generoso in finibus Italiæ et Helvetiæ.

7. **Lepiota denudata** Rabenh. Syll. V, p. 52. — Var. **varsoviensis** 14 Chelch. ap. Blonski Przyc. Fl. Grzgb. Polsk. 1896, p. 87. — Pileo sicco sulphureo, submembranaceo, campanulato-ovato dein expanso, persistenter farinaceo, nunquam nudo, disco pilei obscuriore; stipite nudo fistuloso, tenui, bulbilloso-elongato; annulo medio, tenero, persistente; lamellis liberis ventricosis sulphureis; sporis albidis, ovoideis, 5-6 \times 4-5.

Hab. in calidariis et tepidariis horti botanici Varsoviensis Poloniæ. — Pileus 1½-2 cm. latus; stipes 2-3 cm. longus, 2 mm. crassus.

8. **Lepiota mutata** Peck, Bull. Torr. Bot. Cl. XXIII, 1895, p. 411. 15 Pileo tenui, convexo, subumbonato, disco subscabro, albo, sicco disco brunneo; lamellis confertis, tenuibus, subventricosis, liberis, albis; stipite gracili, æquali, cavo, albo; annulo parvo, interdum evanido; sporis ellipticis, 8-10½ \times 5-6¼.

Hab. ad terram in silvis, Kansas Amer. bor. (BARTHOLOMEW).

Pileus 2-4 cm. latus; stipes ferè 2½ cm. longus, 2-5 mm. crassus.

9. **Lepiota repanda** Clem. Bot. Survey of Nebraska IV, Lincoln. 16

1896, p. 18. — Pileo convexo-repando, carnosus, incarnato-ochraceo, distincte umbonato; squamis minutis, confertis, granulosis; stipite amœno, cavo, æquali, minute floccoso-farinoso, superne albo, inferne incarnato-ochraceo; annulo albo, supero; lamellis liberis, albis, ventricosis; sporis ellipsoideis v. globosis, 5-7 \times 5.

Hab. ad terram humosam pr. Lincoln in Nebraska Amer. bor. — Pileus 13-18 mm. lat.; stipes 2-3 cm. long., 1-1½ mm. lat. *L. cristata* Alb. et Schw. affinis.

10. **Lepiota carneo-annulata** Clem. Bot. Survey of Nebraska. IV, 17
Lincoln 1896, p. 17. — Pileo campanulato, carnosus, estriato, cute incarnata dense fibrilloso-sericea, squamis adpressis granulosis atro-incarnatis tecto; umbone vix distincto, leniter depresso, lateritio-incarnato, tomentosus v. in squamulas minutas rupto; stipite albo fistuloso, nitido, sericeo, basi incrassato, sursum æquali; annulo fixo, albo, erecto, stipiti adpresso; limbo abrupte divergente, incarnato-marginato, 3½ mm. lato; lamellis adnexis candidis, modice confertis; sporis hyalinis, 1-2-guttatis, fusoideo-ellipticis, apiculatis, 10-12½ \times 4-5.

Hab. ad terram umbrosam pluribus locis in Nebraska Amer. bor. — Pileus 3 cm. latus, 2 cm. altus; stipes 4 cm. longus, supra 5 mm. basi 1 cm. latus. *L. rhodocephalæ* affinis.

11. **Lepiota sulphurina** Clem. Bot. Survey of Nebraska. IV, Lincoln 18
1896, p. 18. — Pileo campanulato, dein convexo, subcarnoso, cute sulphurea sericea, in squamas confertas oblongas v. elongatas rupta, margine distincte striato-plicato, floccoso; umbone distincto, elevato, glabro v. vix rimoso, incarnato-lateritio; stipite pulcro, fistuloso, pruinoso, basi valde bulboso, luteo-floccoso, superne incrassato, nitido, isabellino; annulo supero, fixo, lacerato, sulphureo; lamellis adnexis, linearibus, confertis, albicantibus v. pallide stramineis; sporis ovato-ellipsoideis, uniguttulatis, 7-9 \times 4-5.

Hab. ad terram in Nebraska Amer. bor. — Pileus 1½-3 cm. lat.; stipes 4 cm. long., superne 3-4 mm. lat., inferne 6-7 mm.

12. **Lepiota mammæformis** Underw. Bull. Torr. Bot. Cl. 1897, p. 82. 19
— Pileo tenui, albo, disco brunneo valde umbonato, 5-8 cm. diam., farinoso-squamuloso, marginem versus sulcato-striato, interdum incurvo; lamellis angustis, modice confertis; stipite 12-18 cm. longo, flexuoso, cavo, basi incrassato, sursum angustato, circiter 1 cm. crasso; annulo angusto, distante, caduco.

Hab. ad basim trunci Broussonetiæ, Alabama Amer. bor.

13. **Lepiota aureo-violacea** P. Henn. Fungi camerun. I, in Engl. 20

Jahrb. XXII, 1895, p. 107. — Pileo convexo-explanato, vertice late obtuso-umbonato, atro-violaceo, radiato-striato, aurantiaco, granulis atro-violaceis farinosis tecto, 14-18 mm. diam.: stipite farcto, dein cavo, levi glabroque, basi vix incrassato, viridulo, annulo secedente, 2-2½ mm. longo, 1½-2 mm. crasso; lamellis liberis, confertis, lanceolatis, subflavescentibus; sporis ellipsoideis, basi oblique apiculatis, levibus, 1-guttulatis. hyalino-subflavescentibus, 4-5 × 3-4; basidiis clavatis.

Hab. ad ligna putrida, Kamerun (ZENKER et STAUDT).

14. **Lepiota camerunensis** P. Henn. Fungi camerun. I, in Engl. 21
Jahrb. XXII, 1895, p. 107. — Pileo ex ovoideo campanulato (dein explanato?), 2-2½ cm. alto, carnoso, vix umbonato, albo, primo squamis membranaceis et squamulis farinaceis albidis tecto, dein levi et glabro, medio late brunneo, granulato, margine obsolete striato; stipite fistuloso, glabro levique, albo v. fusciscenti, basi subbulboso, albo-farinaceo, 5-7 cm. alto, 3-4 mm. crasso; annulo mobili: lamellis liberis, latis, confertis, albis; sporis ovoideo-elongatis v. amygdaliformibus, oblique apiculatis, 1-guttulatis, hyalinis. 10-12 × 7-8.

Hab. ad terram, Kamerun (DUBY).

15. **Lepiota sublilacea** Peck, Bull. Torr. Bot. Cl. 1897, p. 139. — 22
Pileo tenui convexo, obtuso v. umbonato, arido, floccoso-squamuloso, brunneo, lilacino-tincto; carne alba; lamellis sublatis, liberis subdistantibus, albidis; stipite brevi solido, pileo concolori, sed apice pallidiori, annulo evanescente; sporis ellipticis, 10½ × 5, vulgo nucleum solitarium magnum nitidum continentibus.

Hab. ad terram nudam in pratis, Kansas Amer. bor. (BARTHOLOMEW). — Pileus 1½-2½ cm. latus; stipes 1½-2½ cm. longus, 2-5 mm. crassus. *L. lilaceæ* affinis, a qua stipite solido et sporis majoribus sat distincta species.

16. **Lepiota Henningsii** Sacc. et Syd., *Lepiota bulbipes* P. Henn. Engl. 23
Jahrb. XXIII, p. 556, nec Mont. — Pileo membranaceo, campanulato-expanso, subfarinoso, levi, cretaceo, margine squamuloso, 2-5 cm. diam.; stipite fistuloso, subcurvato, levi glabro, basi bulboso-clavato, farcto, carnoso, usque ad 1 cm. incrassato, albo-flocculento, annulo membranaceo secedente in floccis margine vestito, circiter 8 cm. longo, 3 mm. crasso; lamellis liberis, confertis, latis, albis; sporis ellipsoideis v. subovoideis, basi apiculatis, hyalinis, 1-2-guttulatis, 8-10 × 5-7.

Hab. in ligno emortuo in Camerunia (ZENKER). — *L. Schweinfurthii* et *L. cepæstipiti* affinis.

17. *Lepiota fulvodisca* Peck, Bull. Torr. Bot. Club. 1895, p. 198. — 24

Pileo tenui, convexo v. subplano, obtuso v. umbonato, viscido, albo, umbone fulvo; lamellis angustis, densis, liberis, albis; stipite gracili, flexuoso, viscido, cavo, albo v. albido, basi abrupte bulboso; annulo tenui, membranaceo, candido; sporis ovato-ellipticis, $7\frac{1}{2}$ - $10\frac{1}{2}$ \times 4 - $5\frac{1}{2}$, plerumque nucleo nitido et apiculo minuto præditis.

Hab. ad terram inter folia in silvis, California (Mc CLATCHIE).

— Pileus $2\frac{1}{2}$ -4 cm. latus; stipes 5-8 cm. longus, $2\frac{1}{4}$ - $3\frac{1}{4}$ mm. crassus.

18. *Lepiota megalotholes* Kalchbr. in Trans. Linn. Soc. N. S. W. 25

1882 p. 563 et in Mc. Alp. Arrang. Austral. Fungi, 1893, p. 30.

— Carnosa, campanulata, levis, squamis brunneis adpressis vestita; stipite subcavo, basi incrassato, nudo, ex albo brunneo.

Hab. ad ripas fluviorum, Queensland Australiæ.

19. *Lepiota vestita* Otth apud Trog. Mittheil. Natur. Gesell. Bern. 26

1857 p. 28. — Pileo applanato, sæpe plus minus gibbo, 6 cm. lat., initio margine involuto et flocculoso-fibrilloso, pilis longis, persistentibus brunneo-rufis, fasciculatis, mollibus consperso; carne alba, molli; stipite 6 cm. longo, 6-7 mm. cr., squamulis rufo-brunneis consperso intus albo, e fibrilloso calvo; annulo e squamis formato, fibrilloso-laciniato: lamellis liberis, ventricosis, subconfertis, albis, dein flavidis.

Hab. in sabulosis pr. Heimbergbrücke Helvetiæ. — Odor sat fortis.

20. *Lepiota tepidaria* Otth ap. Trog. Mittheil. Natur. Gesell. Bern, 1857 27

p. 27. — Pileo campanulato, dein expanso, 4-6 cm. lat., rubro-brunneo, striatulo, cute in squamas granulosas lacerata, margine subinde eroso; carne tenui, initio alba, medio sub cute distincte flava; lamellis liberis, albis, basi flavidis, late ventricosis, confertis; stipite basi leviter incrassato, acute radicato, 7-10 cm. long., 7 mm. cr. albo, deorsum rufo-brunneo, fibrilloso; annulo membranaceo, pendulo, albido-brunneo.

Hab. in tepidariis horti bot. Bernensis. — Odor sat gravis.

21. *Lepiota Quéleti* Sacc. et Syd. Sic nominanda est *Lepiota littoralis* 28

Quél. (1891) Sacc. Syll. XI, p. 6, ob homonymam *L. littoralis* Mén. (1889).

SCHULZERIA Bres. — Syll. IX, p. 72, XI, p. 7.

1. *Schulzeria septentrionalis* Karst. Hedw. 1896, pag. 43. — Pileo 29
carnoso, molli, e convexo explanato, subumbonato, levi, glabro,

siccò, albido, c. 10 cm. lato; stipite centrali, æquali, basi bulbilloso, à pileo discreto, glabro, albido, c. 15 cm. alto; lamellis subconfertis, liberis, remotis, latis, albidis.

Hab. ad lignum vetustum in regione Jyväskylensi in Fennia (LINDROTH).

ARMILLARIA Fr. — Syll. V, p. 73 et IX, p. 11, XI, p. 7.

1. *Armillaria mellea* Vahl. Sacc. Syll. V, p. 80. — Var. *camerunensis* P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 107. — Pileo carnosulo, convexo-explanato, $\frac{1}{2}$ -1 cm. diam., rufo-brunneo, dense granulato vel verrucoso-squamoso, squamis parvis, atris, subconicis v. depressis, margine primo involuto, dein explanato, substriato; stipite farcto, 1-2 cm. longo, 2-3 mm. crasso, subsquamoso, substriato, læte brunneo, parte superiore annulo amplo, membranaceo-floccoso, albo patente; lamellis sinuoso-adnatis, vix decurrentibus, subconfertis, pallidis; sporis subglobosis, levibus, hyalinis, 7-8 μ .; basidiis clavatis.

Hab. ad truncos putres, Kamerun (DUSÈN).

2. *Armillaria distans* Pat. Bull. Soc. Myc. de France. 1895, p. 85. 31 — Pileo carnosulo, plano v. convexo, orbiculari, brunneo-nigro, glabro, $\frac{1}{2}$ -1 $\frac{1}{2}$ cm. diam., margine involuto; stipite carnosulo, ténaci, erecto v. obliquo, cylindræo, albo, glabro, 1-3 cm. longo, 6 mm. crasso, medio annulum persistentem angustum crassum, integrum album, brunneo-marginatum efformante; lamellis decurrentibus, angustis, simplicibus, integris, haud confertis; cystidiis nullis.

Hab. ad truncos emortuos in regione Kongoana gallica (DUBOWSKI). Edulis.

3. *Armillaria appendiculata* Peck, Bull. Torr. Bot. Cl. 1897, p. 140. 32 — Pileo late convexo, glabro, albido sæpe disco ferrugineo-vel brunneolo-ferrugineo; carne alba v. albida; lamellis confertis, postice rotundatis, albidis; stipite æquali v. sursum parum attenuato, solido, bulboso, albido; annulo membranaceo, albo, plerumque ad marginem pilei frustulatim adhærente; sporis subellipticis, $8 \approx 5\frac{1}{3}$.

Hab. ad terram in Alabama Amer. bor. — Pileus 5-10 $\frac{1}{2}$ cm. latus; stipes 4-9 cm. longus, 1-2 $\frac{1}{3}$ cm. crassus. Aspectu externo omnino *Tricholomati albo*, sed velo præsentè ad *Armillariam* locanda species.

4. *Armillaria roborosa* Britz. Hymen. Kunde I, 1895, p. 1, f. 658. 33 — Pileo albo, fibroso-squamoso, squamis rubro-brunneis, margine fibroso-lanuginoso; carne alba, solida; lamellis albis, rotundatis, vix

emarginatis, crassis; stipite albo, fibroso-squamoso, squamis rubro-brunneis, supra anulum albo; sporis subasperis, non hyalinis, $6 \approx 4\frac{1}{2}$; odore nullo; sapore Raphani sativi.

Hab. in silvis coniferis in Bavaria.

TRICHOLOMA Fr. — Syll. V, p. 87, IX, p. 13, XI, p. 8.

Tricholoma lugubre Peck, 49 Rep. Stat. Bot. N. York. 1896, 34 p. 16. — Cæspitosum; pileo convexo, sæpe irregulari v. repando marginequæ lobato, glabro, hygrophano, fumoso-brunneo v. griseo-brunneo, margine involuto; carne alba; lamellis angustis tenuibus, confertis, subliberis, albidis; stipite brevi, glabro, solido, albo; sporis globosis, $6\frac{1}{3}$ μ . latis.

Hab. ad terram sub truncis *Tsugæ canadensis*, New York Amer. bor. — Pileus 4–8 cm. latus; stipes $2\frac{1}{2}$ –5 cm. longus, $1-1\frac{1}{3}$ cm. crassus.

2. *Tricholoma leucocephaloides* Peck, 49 Rep. Stat. Bot. N. York. 35 1896, p. 16. — Pileo tenui convexo, glabro, obtuso v. umbonato, udo hygrophano ac griseo-brunneo, sicco albo v. albido; carne alba; lamellis modice confertis, adnatis v. subemarginatis, albidis; stipite æquali v. sursum leviter angustato, glabro, interdum apice farinaceo, solido, albido; sporis ellipticis, $5-6\frac{1}{3} \approx 4$; odore forti farinæ recentis.

Hab. ad terram sub Pinis, New York Amer. bor. — Pileus 4–7 cm. latus; stipes 4–7 cm. longus, $\frac{3}{4}$ –1 cm. crassus. *T. leucocephalo* affine.

3. *Tricholoma pallidum* Peck, Bull. Torr. Bot. Cl. 1897. p. 139. — 36 Pileo centro carnosio, marginem versus tenui, convexo v. subplano, obtuso, glabro, interdum discum versus squamulis tenuibus adpressis brunneolis adperso, subnitido, albido, luteo-vel brunneo-tincto, carne alba, fracta plus minus carnea; lamellis latis subdistantibus, postice rotundatis v. adnatis, acie sæpe erosis, albis; stipite æquali v. basi subincrassato, glabro, albo; sporis ellipticis, $5-6\frac{1}{2} \approx 4$; sapore miti.

Hab. in silvis, Massachusetts Amer. bor. — Pileus $2\frac{1}{2}$ –5 cm. longus, $\frac{3}{4}$ – $1\frac{1}{3}$ cm. crassus.

4. *Tricheloma acre* Peck, Bull. Torr. Bot. Cl. 1897, p. 139. — Pileo 37 carnosio, subtenui, late convexo, subplano v. etiam centro subdepresso, sæpe margine undulato, sicco, innato-fibrilloso, albido v. pallide griseo; carne alba v. albida; lamellis confertis, adnatis, subventricosis, albis; stipite æquali v. deorsum parum angustato,

brevi, subfibrilloso, farcto v. cavo, albo; sporis subglobosis, $5-6\frac{1}{2} \times 4-5$: sapore acri.

Hab. in silvis, Massachusetts Amer. bor. — Pileus $4-6\frac{1}{2}$ cm. latus; stipes $2\frac{1}{2}-5$ cm. longus, $\frac{1}{2}-1\frac{1}{3}$ cm. crassus. Species *T. impolito* proxima.

5. **Tricholoma immarcescens** Britz. Hymen. Kunde II, 1896, p. 2, 38 fig. 397 et 718. — Pileo glabro, hygrophano, brunneo vel griseo-brunneo, margine dilutiore; lamellis confertissimis, albescentibus vel brunneolis; stipite brunneolo; sporis albis, $6-8 \times 4-5$.

Hab. ad truncos putridos populeos in Bavaria.

6. **Tricholoma tumefactum** Britz. Hymen. Kunde II, 1896, p. 2, 39 fig. 164. — Pileo albido, centro luteolo; lamellis hygrophanis, numerosis, subcrassis, albis v. albescentibus; carne alba firma; stipite albo; sporis albis, $6-8 \times 4$, in cumulo albis vel dilutissime roseolis; odore nullo.

Hab. ad terram in alpiibus Bavaricis.

7. **Tricholoma lutescenti-album** Britz. Hymen. Kunde II, 1896, p. 1, 40 fig. 714. — Pileo luteo vel lutescenti-albo, glutinoso; lamellis subconfertis, albis vel albescentibus; stipite albo, subdiaphano; sporis albis, $5-8 \times 3-4$.

Hab. in silvaticis in Bavaria.

8. **Tricholoma semivestitum** Peck. Bull. Torr. Bot. Club. 1895, p. 485. 41 — Pileo tenui, expanso, centro depresso v. subumbilicato, glabro, nigro-brunneo, margine recurvato v. involuto; lamellis densis, emarginatis, acie sæpe dentatis v. erosis, albidis v. albido-cœruleis; stipite curto, solido, basim versus plerumque leviter incrassato, brunneo, deorsum tomentoso; sporis late ellipticis v. subglobosis, 1-nucleatis, $4-5\frac{1}{2} \times 4$.

Hab. in pascuis arenosis ad radices graminum, Kansas Amer. bor. (BARTHOLOMEW). — Pileus 13-27 mm. latus; stipes 18-27 mm. longus, 5-7 mm. crassus.

9. **Tricholoma lentum** Post, Bot. Notis. 1895, p. 65., Romell, Fg. 42 exs. n. 101. — Totum album, tactu haud maculatum, siccum impositum, initio fere vellereum, sublentum, sapore miti, odore debili; pileo carnoso, convexo, 2-6 cm. lato, disco demum in pallidum vergente; stipite deorsum attenuato, circa apicem vulgo (ob lamellas decurrentes) longitudinaliter costato; lamellis firmis, haud decolorantibus, nunc leviter sinuatis, dente decurrente, nunc Clitocybarum more vere decurrentibus; sporis pure albis, levibus, ellipsoideis v. obovatis, basi sæpe oblique apiculatis, $7\frac{1}{2}-10 \times 4\frac{1}{2}-7$

uniguttulatis; basidiis 4-sporis, clavatis, 40-50 \times 8; cystidiis nullis.

Hab. ad acus putrescentes *Abietis excelsæ* in Suecia. — Hæc species valde distincta, licet quoad lamellas inter *Tricholomata* et *Cliocybas* vacillans, in pluribus locis Sueciæ frequenter occurrit. *Tr. album* Fr. pro parte huc spectare videtur, licet forma in Icon. sel. tab. 43, fig. 1 depicta valde diversa.

10. **Tricholoma sanguineo-album** Britz. Hymen. Kunde I, 1895, p. 1, 43
fig. 662. — Pileo albido, subviscido, longitudinaliter maculato fibrosoque, maculis fibrisque sanguineis, margine subtomentoso, involuto; carne alba; lamellis confertissimis, mollibus, albis vel isabellino-albidis; sporis hyalinis, 6 \times 4.

Hab. ad sepes in Bavaria.

11. **Tricholoma angustifolium** Britz. Hymen. Kunde I, 1895, p. 1, 44
fig. 665. — Pileo albo, centro brunneo-carneo; carne alba; stipite albo; lamellis albidis, angustis; sporis 10 \times 6.

Hab. in silvis pineis in Bavaria.

12. **Tricholoma convexo-planum** Britz. Hymen. Kunde. I, 1895, p. 2, 45
fig. 666. — Pileo pallide carneo-albido, centro isabellino-rubro; carne albida; lamellis angustis, albidis vel carneo-albidis; stipite albo vix isabellino; sporis 10 \times 6.

Hab. in silvis coniferis in Bavaria.

13. **Tricholoma cremeo-griseum** Britz. Hymen. Kunde. I, 1895, p. 2, 46
fig. 670. — Pileo hygrophano, luteo-griseo vel fusco-luteo; carne griseo-luteo-albida, spongiosa; lamellis confertis, albidis vel griseo-luteo-albidis, ceraceis; stipite albido, fibroso; sporis 6 $\frac{1}{2}$ \times 3; odore nullo.

Hab. in silvis Baviariæ.

14. **Tricholoma albelospermum** Britz. Hymen. Kunde III, 1897, 47
p. 2, fig. 756. — Pileo glabro, luteo-brunneo; lamellis confertis, albidis, dein pallidissime brunneo-albidis; stipite brunneo, albido-fibroso; sporis albidis, 8 \times 4, in cumulo subochroleucis; odore nullo.

Hab. in quercetis in Bavaria.

15. **Tricholoma mucronatum** Pat. Cat. rais. pl. cell. Tunisie. 1897, 48
p. 22. — Pileo carnosò, convexo, plus minus repando-sinuato, acute mucronato, pallide livido, glabro, 2-3 cm. lato, margine involuto; stipite farcto, carnosò, 1-2 cm. alto, 4-6 mm. crasso, glabro, albido; lamellis confertissimis, strictis, sinuato-adnexis, albidis; basidiis clavatis, 4-sterigmaticis, minutis; sporis hyalinis, ovoideis, levibus, 5 \times 4 μ . Odor farinæ recentis.

Hab. in ligno putrido *Quercus Suberis* in Tunisia.

16. *Tricholoma turbinipes* Kalchbr. Trans. Linn. Soc. N. S. W. 1882 49
p. 639 et in Mc. Alp. Arrang. Austral. Fungi 1893, p. 30. —
Magnum, pallide rubescens, carnosum, inæqualiter convexum; sti-
pitè turbinato, crasso.

Hab. ad terram in Australia occident.

17. *Tricholoma plagiotum* Kalchbr. in Trans. Linn. Soc. N. S. W. 50
1882 p. 639 et in Mc. Alp. Arrang. Austral. Fungi, 1893, p. 30.
— Carnosum, planum, depressum, glabrum, pallide rubido-brun-
neum; stipite excentrico, faretto, cylindrico, basi leviter incrassato.

Hab. ad terram in Australia occident.

18. *Tricholoma carneo-flavidum* Kalchbr. Trans. Linn. Soc. N. S. W. 51
1882 p. 639 in Mc. Alp. Arrang. Austral. Fungi, 1893, p. 3. —
Carnosum, hemisphæricum, villososquamosum, carneo-flavidum,
h. e. colore persicino; stipite solido, crasso, concolore.

Hab. ad terram in Australia occident.

CLITOCYBE Fr. — Syll. V, p. 141 IX, p. 18, XI, p. 13.

1. *Clitocybe pusilla* Peck, Bull. Torr. Bot. Club. 1896, p. 199. — 52
Pileo ex hemisphærico v. convexo subplano, obtuso, interdum mi-
nutissime umbonato, pruinoso, griseolo; carne tenui, albida; la-
mellis angustis, confertis, adnatis v. decurrentibus, albis; stipite
brevis, solido, pruinoso, griseolo; sporis subglobosis v. latissime
ellipticis, $4-5\frac{1}{4}$ μ . longis.

Hab. gregaria v. subcæspitosa ad terram, California (Mc. CLAT-
CHIE). — Pileus 7-18 mm. latus; stipes circiter 14 mm. longus,
vix $2\frac{1}{4}$ mm. crassus.

2. *Clitocybe rhodoleuca* Rom. Bot. Notis. 1895 p. 66. — Carnosa, 53
glabrescens, jove sicco, lamellis roseis v. incarnato-pallidis ex-
ceptis, tota amœne alba, tempestate autem pluvia tota (extus in-
tusque) amœne roseola, lamellis intensius roseis vel incarnatis,
statura Cl. Orcellæ vel Cl. Prunuli, sapore miti, odore debili; pileo
obconico, superne convexo vel demum fere applanato, rarissime
aliquantulum concavo, 2-8 cm. diam.; stipite conico vel a basi
crassa fere cylindrico, 2-4 cm. alto, 0,5-2 cm. crasso, lamellis
subconfertis, angustis, 1-5 mm., nonnullis faretis; sporis in cumulo
albis, sub microscopio hyalinis, leviter scabris, obovatis, basi api-
culata. $6-9 \approx 5-6\frac{1}{2}$; basidiis 4-sporis, clavatis, $30-46 \approx 8-9$; cy-
stidiis nullis.

Hab. ad acus Abietis excelsæ in Suecia.

3. *Clitocybe tarda* Peck, Bull. Torr. Bot. Cl. 1897. p. 140. — Pileo 54

carnoso, sed tenui, ætate mox lacerato, convexo dein subplano v. centro subdepresso, interdum subumbonato, glabro, hygrophano, udo brunneo, sicco griseolo v. griseolo-brunneo, margine initio deflexo v. incurvo; lamellis subhorizontalibus, modice confertis, fragilibus, adnatis v. leniter decurrentibus, sæpe acie erosis, initio pallide violaceo-tinctis, demum albidis; stipite brevi, æquali v. deorsum attenuato, solido, fibrilloso, pileo concolori; sporis ellipticis, 8×4 ; carne alba, inodora.

Hab. in calidariis in Massachusetts Amer. bor. — Pileus $2\frac{1}{2}$ –8 cm. latus; stipes $2\frac{1}{2}$ cm. longus, 2–7 mm. crassus. — Var. **pallidior** Peck l. c. Pileo pallidiore, fragiliore, irregulari, centro magis depresso, sicco, margine substriato, interdum excentrico; lamellis in juventute carneo-tinctis. Eodem loco in Massachusetts.

4. **Clitocybe ceraceo-lamellata** Britz. Hymen. Kunde I, 1895, p. 2. 55
fig. 572. — Pileo gilvo vel brunneo-ochraceo, margine albido, nitido; lamellis confertissimis, angustis, ceraceis, gilvis vel ochraceis; stipite fibris albis adnatis, pileo concolori; sporis $4 \times 2,3$ sublu-
teolis in cumulo albis; odore nullo.

Hab. in silvis in Bavaria austr.

5. **Clitocybe fusco-alutacea** Britz. Hymen. Kunde I, 1895, p. 2, 56
fig. 676. — Pileo glabro vix fibroso, fusco-luteo, centro fusco; carne albida, sub cuticula brunneola; lamellis confertissimis, albidis
vel cremeo-albidis; sporis $10 \times 5,6$, in cumulo albis.

Hab. in silvis in Bavaria.

6. **Clitocybe subflexuosa** Britz. Hymen. Kunde I, 1895, p. 3, f. 683. 57
— Pileo gilvo-ochraceo; lamellis subconfertis, subcrassis, ochro-
leucis, sæpe undulatis; stipite pileo concolori, sporis 8×3 , in
cumulo albis; odore nullo.

Hab. in silvis montanis in Bavaria.

7. **Clitocybe robusta** Peck, 49 Rep. Stat. Bot. N. York. 1896, p. 17. 58
— Pileo crasso, firmo, e plano-convexo centro depresso, glabro,
albo margine initio involuto v. recurvato; carne alba; lamellis an-
gustis confertis, decurrentibus, albidis; stipite brevi, valido, solido,
glabro, æquali v. sursum parum angustato, basi sæpe bulboso, albo;
sporis ellipticis, $7\frac{3}{4} \times 4-5\frac{1}{4}$.

Hab. in silvis inter folia dejecta, New York Amer. bor. —
Pileus 8–11 cm. latus; stipes $2\frac{1}{2}$ –5 cm. longus, $2-2\frac{1}{2}$ cm. crassus.

Clit. candidæ valde affinis.

8. **Clitocybe subsocialis** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 59
p. 411. — Pileo carnoso, convexo, demum centro subdepresso,

minute squamuloso, pallide luteo-brunneo v. subrufescente; carne alba; lamellis subdistantibus, albis, decurrentibus, interstitiis venosis; stipite æquali, solido, colore pilei, basi tomento albo mycelioido; sporis subellipticis, $6-8 \times 4-5 \frac{1}{4}$, uno apice subapiculatis, plerumque nucleo nitido præditis; odore et sapore nauseoso.

Hab. ad terram in graminosis, Washington Amer. bor. — Pileus $1 \frac{1}{2}$ –4 cm. latus; stipes 2–5 cm. longus, 2–4 $\frac{1}{2}$ mm. crassus. E vicinia *Clitocybes socialis*, *Cl. sinopiceæ* et *Cl. infundibuliformis*, sed cum nulla harum apte conjungenda.

9. **Clitocybe verruculosa** De Seyn. Champ. Congo fr. 1897, I, p. 7, 60 tab. III, fig. 8–10. — Pileo globuloso, verruculoso, rubro, margine involuto, 7 mm. alto, 5 mm. crasso; stipite brevi, levi, tenaci, griseo, deorsum fulvescente, fere cavo, 12 mm. alto, 1 $\frac{1}{2}$ mm. crasso; lamellis arcuatis, adnatis, crassis, paucis, ter aut quater dimidiis, violascentibus; hymenio sterili; cystidiis fusiformibus exertis.

Hab. pr. Diélé in regione Kongolana gallica.

10. **Clitocybe Allegreti** De Seyn. Rech. Champ. Congo fr. 1897, p. 7, 61 tab. II, fig. 21–24. — Pileo umbonato, striato, versus marginem undulatum membranaceo, roseo isabellino pallescente, 3 cm. lato; stipite recto, basi incurvo. levi, cavo, fulvogriseo, 8 cm. alto, 4 mm. lato; lamellis albis, parum adnatis, sinuosis, antice attenuatis remotis, interstitiis levibus; hymenio homogæneo; sporis non visis.

Hab. ad truncos vetustos pr. Talagonga in regione Kongolana gallica.

11. **Clitocybe megalospora** Clem. Bot. Survey of Nebraska, IV, Lincoln 1896, p. 18. — Pileo plano-convexo, subcarnoso, levi, glabro, luteo-ochraceo, centro pallidiore, margine tenui; stipite fistuloso, glabro, albescente; lamellis albis, distantibus, breviter decurrentibus, pallide luteis; sporis magnis, hyalinis, ovoideis v. sublimoniiformibus, $17-18 \times 10-12$, nucleo magno 10 μ . diam. præditis.

Hab. ad terram pr. Saltillo in Nebraska Amer. bor. — Pileus 3 cm. latus; stipes 7 cm. longus, 2 mm. crassus.

12. **Clitocybe flavidifolia** Britz. Hymen. Kunde III, 1897, p. 2, 63 fig. 859. — Pileo brunneo v. griseo-brunneo, margine pallidiore, fibroso; lamellis confertis, angustis, albis v. luteolis v. melleo-albis; stipite brunneo-albo, sæpe compresso v. vesicario, albo-fibroso; sporis luteolis, $8-9 \times 4$, in cumulo albis; odore nullo.

Hab. in pinetis in Bavaria.

13. **Clitocybe guarapiensis** Sacc. et Syd. Sic nominanda est *Clitocybe* 64

Balansæ Speg. in Sacc. Syll. IX, p. 22, quum existet anterior *C.*

Balansæ Speg. Sacc. Syll. V, p. 180.

14. **Clitocybe pergamena** Cke. Illustr. Hymen. tab. 643, Handb. Brit. 65

Fungi, II ed. p. 52. — Cæspitosa, pergameneo-albida, subcartilaginea; pileo convexo, dein plano obtuse umbonato, glabro, levi; stipite æquali, adscendente; solido, cartilagineo, apice punctato-squamoso; lamellis late adnatis, denticulo decurrente, satis confertis, albis.

Hab. ad truncos putres in Britannia. — Pileus 4-5 cm. lat.; stipes 10-12 cm. long.

COLLYBIA Fr. — Syll. V, p. 200, IX, p. 27, XI, p. 17.

1. **Collybia luxurians** Peck, Bull. Torr. Bot. Cl. 1897, p. 141. — 66

Pileo tenui, convexo v. subcampanulato, sæpe irregulari, obtuso v. umbonato, glabro, udo, hygrophano, brunneo, margine lobato striatoque; lamellis angustis, confertis, albidis; stipitibus cæspitosis æqualibus flexuosis, cavis, brunneis, villo griseolo minuto undique pulverulentis, sæpe basim versus tomentosus; sporis ellipticis, $6\frac{1}{2}$ - 8×4 .

Hab. ad terram in Alabama Amer. bor. (UNDERWOOD). — Pileus 5-10½ cm. latus; stipes 8-16½ cm. longus, 4-7 mm. crassus. Species cæspitosa, luxurians, verisimiliter *C. confluenti* affinis.

2. **Collybia albpileata** Peck, 49 Rep. Stat. Bot. N. York. 1896, 67

p. 49. *Agaricus conigenoides* Ell. Rep. 30, p. 39. — Pileo tenui, convexo v. subplano, centro interdum leniter depresso, vulgo pilis brevibus hyalinis v. albidis pubescente, brunneo; lamellis latis, confertis, adnatis, acie minute pilosis, albis; stipite gracili, cavo, pallido, pilis sparsis albidis tenue pubescente, fere pulverulento, basi fibrilloso radicato; sporis minutis, ellipticis, 4-5 \times 2½-3.

Hab. ad conos Pini, Albany Amer. bor.

3. **Collybia arborescens** P. Henn. Fungi camerun. I, in Engl. 68

Jahrb. XXII, 1895, p. 106. — Pileo membranaceo-carnosulo, campanulato, obtuso, margine substriato, levi glabroque, tenaci, albido, 1-1½ cm. lato; stipite fasciato-compresso, ramosissimo, fistuloso, lateritio-griseo-tomentoso, usque ad 17 cm. longo, basi ca. 1 cm. lato-compresso sulcato, stipitibus singularibus compressis, 1-2 mm. crassis; lamellis adnatis decurrentibus, confertis, pallidis, flavescentibus, angustis; sporis subglobosis, hyalinis, 7-9 μ .

Hab. ad terram graminosam, Kamerun. (ZENKER et STAUDT). *C. confluenti* Pers. valde affinis.

4. **Collybia a'bogrisea** Peck, Bull. Torr. Bot. Club. 1895, p. 199. 69
 — Pileo carnoso, convexo v. subplano, margine interdum subirregulari, glabro, albo v. griseo; carne alba; lamellis latis, distantibus adnatis, albis v. albidis; stipite subæquali, cavo, interdum tortuoso, albido v. griseo, deorsum tomento denso albido, griseo v. luteolo tecto, sursum nudo v. albo-pruinoso; sporis late ellipticis, $5\frac{1}{4}$ - $6\frac{1}{2}$ \times 4, plerumque nucleo nitente præditis.

Hab. subcæspitosa inter folia dejecta; California (Mc CLATCHIE). Pileus circiter $2\frac{1}{2}$ -3 cm. latus; stipes 3- $5\frac{1}{2}$ cm. longus, 2- $4\frac{1}{2}$ mm. crassus.

5. **Collybia Oronga** De Seyn. Rech. Champ. Congo fr. 1897, I, p. 4, 70 tab. II, fig. 1-3 et in Bull. Soc. Mycol. de France 1896, p. 53. — Pileo orbiculari, plano, depresso, centro acute prominente, carnoso, membranaceo, umbrino griseo-isabellino, 7-8 cm. lato, margine undulato; stipite elongato, recto, sursum attenuato, subfibrilloso, farcto, umbrino-pallido basi albescente, 8-10 cm. alto; lamellis latis, crassis, leviter distantibus subliberis, postice et antice rotundatis, acie crenulatis, griseo-albis; basidiis ovoideis, basi attenuatis, sterigmatibus brevioribus; sporis hyalinis, levibus, $7\frac{1}{2}$ \times 4, ovoideis; cystidiis paucis subsporiferis. — Edulis.

Hab. ad terram pr. Talagonga in regione Kongolana gallica.

6. **Collybia aggregata** P. Henn. in litt. syn. *Collybia gregaria* P. 71 Henn. Hedw. 1897, p. 209 nec Blonski. — Pileo subcarnosulo, explanato, subapplanato, vix umbilicato, levi, glabro v. subpruinoso, cinereo-brunneo, pallescente, 3-5 mm. diam.; stipite fistuloso, tenaci, subfarinoso-pruinoso, pallido, basi bulboso-incrassato, 8-14 mm. longo, 1-2 mm. crasso; lamellis confertis, adnatis, inæquilingis, angustis, pallidis; sporis globosis, levibus, $3\frac{1}{2}$ - $4\frac{1}{2}$, hyalinis; basidiis clavatis.

Hab. ad cortices truncorum gregatim pr. Rio de Janeiro Brasiliæ (GLAZIOU). — *Collybiæ conigenæ* Pers. affinis, sed lamellis sporisque diversa.

7. **Collybia Anombè** De Seyn. Rech. Champ. Congo fr. 1897, I, p. 5, 72 tab. II, f. 13-15 et in Bull. Soc. Mycol. de France, 1896, p. 54. — Stipite farcto, recto aut basi incurvo, griseo-albescente $2\frac{1}{2}$ - $6\frac{1}{2}$ cm. alto; pileo umbonato, subdepresso, centro acute prominente, carnoso, membranaceo, margine vix striatulo, griseo-murino umbrino, 2-3 cm. lato; lamellis latis crassis, leviter distantibus subliberis, postice et antice rotundatis, acie crenulatis, sordescens; hymenio et sporis ut in *C. Oronga*. — Edulis.

Hab. ad terram pr. Talagonga in regione Kongolana gallica.

8. **Collybia trabea** Britz. Hymen. Kunde, III, 1897, p. 3, fig. 761. 73

— Pileo glabro, viscido, luteo; carne alba, basi stipitis luteola; lamellis distantibus, albidis v. luteolis; stipite sursum pallido, ochroleuco, deorsum obscuro, rubiginoso et tenuiore, sæpe arcuato, farcto; sporis albis, $10 \approx 4$.

Hab. in ligno putrescenti in Bavaria.

9. **Collybia nivosula** Berk. Cuban Fungi III; Cooke, Handb. Au- 74

stral. Fungi, 1892, p. 21. — Pileo convexo, dein applanato, 2 cm. lato, glabro, tenui; albido; stipite gracili, glabro, solido, æquali v. sursum leviter incrassato, albo, 3 cm. longo, 2 mm. crasso, basi tomento mycelioideo vestito; lamellis angustis, confertis, rotundatis, stipitem vix attingentibus, albis; sporis minutis, $3 \approx 2$.

Hab. ad ramos putres in Victoria Australiæ.

10. **Collybia microspora** Peck, Bull. Torr. Bot. Club. 1895, p. 486. 75

— Pileo tenui, convexo, subumbonato, glabro, albo; lamellis latis, subdistantibus, subplanis, albis, siccis brunneis; stipite gracili, cavo, glabro, albo, sicco brunneo; sporis minutis, late ellipticis, $4 \approx 3\frac{1}{4}$.

Hab. ad terram umbrosam, Kansas-Amer. bor. (BARTHOLOMEW).

— Pileus circiter $1\frac{1}{3}$ cm. latus; stipes fere $2\frac{1}{3}$ -3 cm. longus, 2-3 mm. crassus.

11. **Collybia Zenkeri** P. Henn. Fungi camerun. I, in Engl. Jahrb. 76

XXII. 1895, p. 106. — Pileo convexo-explanato, radiatim striato sulcatoque, violaceo-fuscidulo, dense punctato-granulato, granis obscurioribus, 2-2 $\frac{1}{2}$ cm. diam., margine sæpe repando; stipite curvato, farcto, tenaci, tereti, levi glabroque, pallido-carnescenti, basi reticulato, tomentosulo, 1 $\frac{1}{2}$ -2 cm. longo, 2 mm. crasso; lamellis sinuoso-affixis, latis ventricosis, distantibus, inæqualibus, pallidis subcarnescentibus; sporis subglobosis v. late ellipsoideis, 1-guttulatis, levibus, hyalinis, $5\frac{1}{2}$ -6 \approx 5-6 μ .

Hab. ad truncos putres Kamerun. (ZENKER et STAUDT).

12. **Collybia conigena** Pers.-Sacc. Syll. V, p. 223. — forma lutea 77

Vogl. Bull. Soc. Bot. Ital. 1896, p. 42. — Pileo planiusculo, carnosus, glabro luteo, 12-14 mm. lato; lamellis confertissimis, linearibus, candidis; sporis ellipsoideis, hyalinis, $4 \approx 2$; basidiis clavatis, 4-sterigmaticis, 12-16 \approx 4-6; stipite cylindrico, tenaci, luteo, 3-4 cm. longo, 2-3 mm. crasso.

Hab. ad conos Pini pr. Lugano in Helvetia italica.

13. **Collybia discipes** Clem. Bot. Survey of Nebraska IV, Lincoln. 78

1896, p. 19. — Pileo convexo, denique explanato, subcarnoso,

glabro, margine striato, griseolo; umbone lato, obscuriore, griseo-brunneo; stipite cartilagineo, solido, glabro, nitido, albo, e basi hypogæa disciformi adscendente; lamellis liberis, remotis, confertis, ventricosis, 4-6 mm. latis, pallide ochraceis; cystidiis cyathiformibus v. interdum lageniformibus, apice 2-3 cuspidatis, 45-53 μ . longis, basi 20 μ ., apice 10 μ . latis; sporis ellipsoideis v. ovatis, intus granulosis, 5-6 \times 3-4.

Hab. ad terram in Nebraska Amer. bor. — Pileus 5 cm. latus stipes 3 $\frac{1}{2}$ cm. longus, 5 mm. crassus.

14. **Collybia Reineckeanæ** P. Henn. in Engl. Jahrb. XXIII, 1896, 79 p. 284. — Pileo carnoso, compacto, subhæmisphærico, obtuso, umbonato, striato, levi, margine primo involuto, pallide subalutaceo, 3-6 cm. diam.; carne pallida; stipite subtereti, farcto, striato, subconcolore, usque ad 15 cm. longo, 1-1 $\frac{1}{2}$ cm. crasso; lamellis postice rotundato-adnæxis, angustis, medio subventricosis, subconfertis; basidiis clavatis; sporis subglobosis v. late ellipsoideis, hyalino-subflavescentibus, 4 $\frac{1}{2}$ -5 \times 4-5.

Hab. in terra cæspitans in ins. Upolu ins. samoëns (REINECKE).

15. **Collybia velutina** Clem. Bot. Survey of Nebraska IV, Lincoln 1896, p. 19. — Pileo convexo v. plano, carnoso-cartilagineo, levi, rubro-castaneo, tomento denso fulvo-brunneo tecto; stipite fistuloso, cartilagineo, æquali, dense fulvo-ochraceo-tomentoso; lamellis adnæxis, angustis, inæqualibus, confertis. ochraceis; sporis ellipsoideis, 7-8 \times 5.

Hab. in ligno putrido, Nebraska Amer. bor. — Pileus 1-3 cm. latus; stipes 3-5 cm. longus, 1 $\frac{1}{2}$ -3 mm. crassus.

16. **Collybia velutipes** Curt. Syll. V, p. 212 var. **pusilla** Trog, Mittheil. nat. Gesell. Bern. 1857, p. 30. — A typo differt statura multo minore; pileo 8 mm. lat., viscidulo, læte brunneo; stipite 2-2.5 cm. long., atro-castaneo-brunneo, velutino; lamellis adnæxis, nonnullis fere decurrentibus, ventricosis, remotis, flavis.

Hab. ad lignum putre Fagi in Helvetia.

17. **Collybia serpentina** Otth apud Trog, Mittheil. Nat. Gesellsch. Bern. 1857, p. 29. — Pileo crassiusculo convexo-campanulato, 5 cm. lat., albo-flavido, glabro, nitidulo, sicco, intus albo, margine involuto, albido-fibrilloso; stipite albido, 12 cm. long., 12 mm. cr. cartilagineo, striato, sericeo-splendente, cavo, in radicem serpentinam contortam desinente, mycelioque foliis adhærente; lamellis linearibus, crebris, fragilibus vix 3 mm. latis, crenulatis, albidis, rubidisque.

Hab. inter folia dejecta pr. Bern Helvetiæ. — *Affinis C. maculatae.*

18. *Collybia nigrodisca* Peck, 50 Rep. p. 98 (1897). — Pileo tenui 83
convexo, glabro albido v. fumoso-albido, disco brunneo v. nigri-
cante; carne alba; lamellis latiusculis, subdistantibus, rotundatis,
adnexis, albidis; stipite æquali, cavo, pruinoso, levi v. striatulo,
albido; sporis subellipticis, 6-7 \times 4.

Hab. in arenosis Suffolk county Amer. bor. — Pileus 3-4 cm.
lat.; stipes 3-4 cm. long., 4 mm. cr. — *Habitus fere Marasmii*
Oreadis.

19. *Collybia uniformis* Peck, 50 Rep. p. 98. — Pileo tenui, hemisphæ- 84
rico v. convexo, glabro, hygrophano, udo griseo-brunneo, sicco
pallidiore, margine levi, initio involuto v. incurvo; lamellis angu-
stis, crebris, rotundatis, subliberis, albidis; stipite æquali, glabro
v. subpruinoso, cavo, griseo-brunneo, basi tomento mycelioideo
parce vestitis, sporis minutis, subglobosis, 3-4 μ diam.

Hab. inter muscos ad lignum putre, Saramac Lake Amer. bor.
C. acervatae affinis, cæspitosa; pileus 6-12 mm. lat.; stipes 2-3 cm.
long., 2 mm. cr.

20. *Collybia umbrina* Clem. Bot. Survey of Nebraska IV, Lincoln 85
1896, p. 19. — Pileo convexo, carnosio, umbonato, brunneo, glabro,
estriato, viscido, atro lineolato-adsperso; umbone atro; stipite lon-
gissimo, superne attenuato, carnosio, solido, albo, inferne fuscescente;
lamellis adnatis, latis distantibusque, inæqualibus, albis; sporis
irregulariter limoniiformibus, 17-18 \times 12-13, aculeatis, nucleo 10 μ
diam. præditis.

Hab. in ramis putridis, Nebraska Amer. bor. — Pileus 4 cm.
latus; stipes 25 cm. longus, superne 5 mm., inferne 10 mm. crassus.
An varietas *Collybiæ radicatae* Relh?

21. *Collybia niveo-lutescens* (Viv.) Cke. in litt., *Agar. niveo-lutescens* 86
Viviani Fung. Ital. p. 64, t. 52. — Candida; pileo primum ovato,
dein campanulato, hemisphærico, tandem planescente, depressoque,
margine sulcato papilloso; carne mox extenuata; lamellis late se-
junctis a stipite; hoc nudo elongato, cavo, in bulbum ovatum in-
crassato; pileo lamellisque per ætatem in ochraceo-lutescentem
vergentibus.

Hab. in Italia bor. — Dense cæspitosa.

22. *Collybia Patouillardii* Sacc. et Syd. Sic nominanda est *Collybia rho-* 87
della Pat. Sacc. Syll. V, p. 233, quum exstet anterior *C. rho-*
della Berk.

MYCENA Fr. — Syll. V, p. 251, IX, p. 34, XI, p. 20.

1. **Mycena substanea** P. Henn. Engl. Jahrb. XXIII, p. 555. — 88

Pileo membranaceo, campanulato-expanso, radiatim striato subsulcato, pallide cinereo, vertice brunneolo, 4-13 mm. diam.; stipite gracili, tenui, fistuloso, pallido, levi glabroque, nitenti, $2\frac{1}{2}$ - $3\frac{1}{2}$ cm. longo, 1 mm. crasso, basi incrassato subdisciformi, cinereo; lamellis adnatis, subdecurrentibus, haud confertis, pallidis; sporis ellipsoideis, levibus, hyalinis, $3\frac{1}{2}$ -4 \times 3-4; basidiis clavatis.

Hab. in ligno et foliis deciduis in Camerunia (ZENKER). — *M. vitreæ* Fr. et *M. stannæ* Fr. affinis.

2. **Mycena oxyspora** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 30. — 89

Pileo membranaceo, tenui, campanulato, convexo, candido, pruinoso, margine striato, disco demum depresso; stipite albo, filiformi, tenaci, undique villosa; lamellis adnato-decurrentibus, strictis, albis, confertis; sporis ovato-globosis, inferne abrupte attenuatis, hyalinis, guttulatis, 5-6 μ . diam.

Hab. in ligno putrido in Tunisia. — Pileus 3-8 mm. latus; stipes 1-2 cm. longus, 1 mm. crassus.

3. **Mycena pseudo-galericulata** Pat. Cat. rais. pl. cell. Tunisie 1897, 90

p. 31. — Pileo membranaceo, conico, campanulato, acute umbonato, siccio glabro, vix striato, pallide fusco, plus minus violaceo-tincto; stipite rigido, tenaci, tubuloso, levi, glabro, inferne hirsuto, non radiato, exsucco, rufo-violaceo; lamellis uncinato-adnatis, albidis, margine vinosis; sporis hyalinis, ovoideis, 10-12 \times 5.

Hab. in truncis putridis *Quercus Suberis* in Tunisia. — Pileus 2 cm. latus, 15 mm. altus; stipes 5-8 cm. longus, 2-3 mm. crassus; sparsa vel cæspitosa.

4. **Mycena ventricosolamellata** Britz. Hymen. Kunde I, 1895, p. 3, 91

fig. 692. — Pileo griseo-fusco, centro obscuriore, fragili; lamellis confertis, ventricosis, ferrugineo-griseis; stipite fusco vel violaceo-fusco; sporis subglobosis, verrucoso-angulosis, ochroleucis, 8 \times 6, in cumulo albis; odore nullo.

Hab. in muscosis silvaticis in Bavaria.

5. **Mycena modestissima** Britz. Hymen. Kunde. I, 1895, p. 3, fig. 377. 92

— Pileo hygrophano, brunneolo-albido-pallescens; lamellis subconfertis, albido-fuscis; stipite fusco, albo-meduloso; sporis rotundis, 6-8 μ . diam., aculeis numerosis subtilibus ornatis, in cumulo albis.

Hab. in muscosis silvaticis in Bavaria.

6. **Mycena griseo-fulva** Britz. Hymen. Kunde I, 1895, p. 4, fig. 697. 93

— Pileo griseo-fulvo; lamellis confertis; stipite pileo concolori, apice albido; sporis $5 \times 2\frac{1}{2}$; odore nullo.

Hab. in silvulis Bavaricæ.

7. **Mycena cæsia** Peck, Bull. Torr. Bot. Club 1895, p. 486. — Pileo 94
submembranaceo, campanulato, striato, glabro, griseo-brunneo,
centro nigrescente v. nigro-brunneo; lamellis tenuibus, subventri-
cosis, griseolis v. cœruleo-griseis; stipite gracili, cavo, glabro, gri-
seo-brunneo; sporis subellipticis, uno apice leviter apiculatis, 9-
 $10\frac{1}{2} \times 4-5\frac{1}{2}$.

Hab. ad Sphagna, Newfoundland Amer. bor. (WAGHORNE). —

Pileus 10-13 mm. latus; stipes 3-5 cm. longus, $1-2\frac{1}{2}$ mm. crassus.

8. **Mycena elegantula** Peck, Bull. Torr. Bot. Club 1895, p. 199. — 95
Pileo membranaceo, conico v. campanulato, sulcato-striato, brun-
neo v. purpureo-brunneo; lamellis distantibus, adnatis, decurren-
tibus, albidis v. pallidis, acie purpureo-brunneis; stipite gracili, cavo,
glabro, basi interdum laxe griseo-fibrilloso-tomentoso; sporis ob-
longo-ellipticis, 9-13 \times $4-5\frac{1}{4}$, plerumque 1 v. 2 nucleis præditis.

Hab. cæspitosa inter folia et arbores dejectas, California (Mc. CLATCHIE). — Pileus 9-22 mm. latus; stipes $2\frac{1}{2}-5\frac{1}{2}$ cm. longus, $1\frac{1}{5}$ mm. crassus. *M. atro-marginatæ* Fr. et *M. purpureo-fusce* Peck affinis.

9. **Mycena pura** Pers., Sacc. Syll. V, p. 256. — Var. **gracilentia** P. 96
Henn. Pilze Ostaf. p. 60. — Pileo membranaceo, tenui, violaceo,
margine striatulo, $1-1\frac{1}{2}$ cm. lato; stipite gracili, tenui, flavo-
brunneo, circiter 4 cm. longo, 1 mm. crasso, cavo, basi villosa;
lamellis adnatis, reticulato-connatis, latis, flavo-carnescentibus;
sporis cylindraceo-ellipticis, $6-7 \times 3$.

Hab. in silvulis udis in Africa tropica (VOLKENS).

10. **Mycena fusco-umbonata** Britz. Hymen. Kunde I, 1895, p. 4, 97
fig. 698. — Pileo albido, centro fusco; lamellis subconfertis, albis;
stipite albido; sporis oblongo-rotundis, acutatis, $10 \times 6,7$.

Hab. in muscosis ad truncos populeos in Bavaria.

11. **Mycena intertexta** B. et C. Cent. of N. A. fungi 1859, p. 4. — 93
Densissime cæspitosa; pileo hemisphærico, umbonato, demum ex-
panso, fusco-cinereo, margine pallidiore striato; stipitibus villo
connatis, subfragilibus; lamellis distantibus, crassiusculis adnatis,
albis.

Hab. ad Pinos, in Carolina inf. Amer. bor. (M. A. CURTIS).

— Pileus 6-16 mm. lat.; stipes 5 cm. alt., $1-1\frac{1}{2}$ mm. cr. fistulosus
supernes glaber et fuscus, inferne pallidior.

12. **Mycena connatipes** B. et C. Cent. of N. A. fungi, 1859, p. 4. 99
 — Dense cæspitosa; pileo hemisphærico alutaceo; stipitibus albis basi connatis; lamellis albido-flavis, dente adnatis.
Hab. dense gregaria ad terram in Carolina sup. Amer. bor. (CURTIS). — Pileus 4-16 mm. lat.; stipes 5 cm. long., 3 mm. cr.
Mic. prolifera affinis sed pileus hemisphæricus et lamellæ sub-decurrentes.
13. **Mycena nivella** Sacc. et Syd. Sic nominanda est *Mycena nivea* Qué. 100
 et Schulz., Sacc. Syll. V, p. 290, quum exstet anterior *M. nivea* Qué.
14. **Mycena Quéleti** Sacc. et Syd. Sic nominanda est *Mycena montana* 101
 Qué. Sacc. Syll. IX, p. 37, quum exstet præcedens *M. montana* Peck.
15. **Mycena tenuicula** Karst. sec. Cke. in litt. (Ubi descripta?) 102
Hab. in Fennia.

HIATULA Fr. — Syll. V, p. 305, IX, p. 40, XI, p. 23.

1. **Hiatula Boniana** Pat. Journ. de Bot. 1897, p. 336. — Pileo con- 103
 vexo, dein expanso ac subplano, 5 cm. lato, umbonato, sulphureo, siccò, tenuissimo, non fragili, pulverulento; lamellis numerosis integris, liberis; stipite cavo, siccò, tenaci, pulverulento, basi subbulboso, 7 cm. longo, sulphureo, exannulato; sporis hyalinis ovoideis v. apice attenuatis, poro germinativo lato instructis, 8-10 \times 5-6.
Hab. ad terram humosam pr. silvas in Tonkin.

OMPHALIA Fr. — Syll. V, p. 308, IX, p. 41, XI, p. 23. — Conferatur clavis analytica specierum boreali-americanarum in 45 Rep. p. 32, clar. Peckii.

1. **Omphalia albidula** Peck, 59 Rep. Stat. Bot. N. York. 1896, p. 17. 104
 — Pileo tenui, convexo, glabro, umbilicato, distanter striato, albido; lamellis latis distantibus, decurrentibus, albis; stipite gracili, glabro v. apice interdum farinaceo, basi strigoso-piloso, solido, albo v. albido; sporis subellipticis, uno apice apiculatis, 8-10 $\frac{1}{2}$ \times 5-6 $\frac{1}{2}$.
Hab. ad corticem arborum, New York Amer. bor. — Pileus $\frac{3}{4}$ -1 cm. latus; stipes 2-2 $\frac{1}{2}$ cm. longus, 1 mm. crassus.
2. **Omphalia pubescentipes** Peck, Bull. Torr. Bot. Cl. 1897, p. 141. 105
 — Pileo tenui convexo, umbilicato, glabro, rubescenti-luteo, sæpe marginem versus pallidiore; lamellis modice confertis, decurrentibus, albidis; stipite gracili, pubescente, sordide luteo-brunneo, basi tomento mycelioideo tecto; sporis ellipticis, 6 $\frac{1}{2}$ \times 4.

Hab. in lignis putrescentibus in Alabama Amer. bor. (EARLE).

— Pileus $4\frac{1}{2}$ -9 mm. latus; stipes circiter $2\frac{1}{2}$ cm. longus, 1 mm. crassus.

3. *Omphalia minutissima* P. Henn. Engl. Jahrb. XXIII, p. 555. — 106

Pileo membranaceo, pellucido, convexo, depresso, subinfundibuliformi, striato, undulato, levi glabroque, niveo, 1-2 mm. diam.; stipite filiformi, glabro, levi, basi bulbiloso, substrigoso, 6-10 mm. longo, concolori; lamellis decurrentibus, paucis, 5-7, distantibus, albis; sporis subellipsoideis, hyalinis, $3\frac{1}{2}$ - $4\frac{1}{2}$ μ . long.

Hab. in ramis putridis in Camerunia (STAUDT). — *O. integrellæ* affinis.

4. *Omphalia bipindeensis* P. Henn. Engl. Jahrb. XXIII, p. 555. — 107

Pileo membranaceo, tenui, campanulato, centro umbilicato, obscuriore, radiato-striato, flavo, subochraceo, 2-10 mm. diam.; stipite gracili, tereti, æquali, cavo, levi glabroque, flavo-brunneo, ad basim obscuriore, 2-4 cm. alto, $1-1\frac{1}{2}$ mm. crasso; lamellis decurrentibus, subarcuatis, confertis, pallide flavis; sporis ellipsoideis, hyalinis, levibus, $4-5 \approx 3-3\frac{1}{2}$.

Hab. in ligno putrido in Camerunia (ZENKER).

5. *Omphalia luteola* Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 411. 108

— Pileo tenui, convexo v. subhemisphærico, glabro, centro depresso v. late umbilicato, luteolo; lamellis paucis, 10-15, distantibus, decurrentibus, pallidis; stipite gracili, glabro, solido, brunneo, basi mycelio albo; sporis subellipticis, $6\frac{1}{4}$ -7 ≈ 4 , plerumque 1-nucleatis.

Hab. in ligno pineo, Washington Amer. bor. — Pileus $\frac{1}{2}$ -1 cm. latus; stipes fere $1\frac{1}{3}$ cm. longus, 1 mm. crassus. *O. Campanellæ* valde affinis.

6. *Omphalia subintegrella* P. Henn. Fungi camerun. I, in Engl. Jahrb. 109

XXII, 1895, p. 105. — Pileo membranaceo, primo subresupinato, excentrico-stipitato, albo, radiato-striato vel subsulcato, vertice depresso, 3-4 mm. lato, margine tenui sinuoso reflexo; stipite curvulo, tenui, albo, glabro levique, basi discoideo, 1-3 mm. longo; lamellis paucis, 3-6, valde distantibus, decurrentibus, albis.

Hab. ad caudices putres *Calami*, Kamerun. (DUSÉN.). — *O. integrellæ* Pers. affinis.

7. *Omphalia squalido-fusca* Britz. Hymen. Kunde. I, 1895, p. 4, 110

fig. 704. — Pileo sordide brunneo, marginem versus leviter sulcato, demum transverse rimoso; lamellis isabellinis vel rubro-isabellinis, subconfertis; stipite pileo concolori, sursum pallidiore,

deorsum obscuriore; carne brunnea; sporis 8×4 , in cumulo albis; odore nullo.

Hab. in silvis pineis in Bavaria.

8. **Omphalia n'dianensis** P. Henn. Fungi camerun. I, in Engl. Jahrb. 111 XXII 1895, p. 105. — Nivea; pileo membranaceo, hemisphærico-campanulato, centro minute depresso, sulcato-subplicato, levi, margine tenui membranaceo, 2-4 mm. diam.; stipite gracili, filiformi, levi glabroque, basi subincrassato, subdisciformi, flavo, $1\frac{1}{2}$ - $2\frac{1}{2}$ cm. longo, vix $\frac{1}{3}$ mm. crasso; lamellis subdecurrentibus, acutis, distantibus, tenuibus, inæqualibus; sporis ovoideis, hyalinis, levibus, 5-6 μ .

Hab. ad folia putrida, N'dian Kamerun (DUSEN). — *O. gracillimæ* (Weinm.) affinis.

9. **Omphalia Staudtii** P. Henn. Fungi camerun. I, in Engl. Jahrb. 112 XXII, 1895, p. 105. — Pileo infundibuliformi, membranaceo-carnosulo, flavo, radiatim brunneo-striato, subsulcato, margine repando, $1\frac{1}{2}$ -2 cm. longo, $1\frac{1}{2}$ -2 mm. crasso; lamellis triquetro-decurrentibus, subconfertis, inæqualibus, flavis, subundulatis, basi sæpe anastomosantibus; sporis ellipsoideis, levibus, 1-guttulatis, 6-7 \times $4\frac{1}{2}$ -5 μ .

Hab. ad ligna putrida, Kamerun (ZENKER et STAUDT.) — *O. reflexæ* Bres. proxima.

10. **Omphalia campestris** Rom. Bot. Notis. 1895, p. 69. — Serotina, 113 glabra; pileo fuligineo-fusco, membranaceo, in centro leviter umbilicato, ceterum campanulato, hemisphærico v. demum etiam convexo-applanato, margine in statu udo pellucide striato, in sicco sulcato, 5-15 mm. diam.; stipite æquali, deorsum pileo concolori, sursum albo, glabro, intus fistuloso, $1\frac{1}{2}$ -3 cm. longo, 1- $1\frac{1}{2}$ mm. raro ultra crasso; lamellis distinctis, albo-cæsiis, decurrentibus, $1\frac{1}{2}$ -3 mm. latis; sporis ellipsoideis v. obovatis, 9-13 \times 6-8 μ ., hyalinis.

Hab. in collibus muscoso-graminosis Sueciæ.

11. **Omphalia pectinata** Rom. Bot. Notis. 1895, p. 68. — Tota alba, 114 glabra, hygrophana, sapore miti, odore fere nullo; pileo membranaceo, in centro sæpe umbilicato, ceterum convexo vel etiam campanulato, margine sinuoso v. fere lobato, usque ad medium pectinato-sulcato, 3-6 cm. diam.; stipite subæquali, demum irregulariter angustequè fistuloso, extus fere glabro, sursum vix striato, 4-6 cm. longo, ca. 4 mm. crasso; lamellis fere distantibus, circa stipitem decurrentibus, angustis, 2-4 mm.; sporis ellipsoideo-oblongis, basi sæpe breviter apiculatis, hyalinis, 6-7 \times 3 μ .; basidiis

clavatis, $30 \approx 7 \mu$.; cystidiis nullis vel saltem non basidia superantibus.

Hab. in silvis coniferis in Suecia.

12. **Omphalia semivestipes** Peck, Bull. Torr. Bot. Club. 1895, p. 200. 115

— Pileo tenuissimo, convexo v. subcampanulato, glabro, sicco griseo-brunneo, vivò pallidiore; lamellis sublatis, distantibus, arcuatis, decurrentibus, albis v. albidis; stipite cavo, albo v. albedo, parte superiore glabro, inferiore tomento albo vestito; sporis ellipticis, $5 \frac{1}{4} - 6 \frac{1}{4} \approx 3-4$.

Hab. in ligno putrido, Newfoundland Amer. bor. (WAGHORNE).

— Pileus 13-27 mm. latus; stipes circiter $2 \frac{1}{2}$ cm. longus, $2-4 \frac{1}{2}$ mm. crassus.

13. **Omphalia nigripes** Pat. Bull. Soc. Myc. de Fr. 1895, p. 204. — 116

Pileo orbiculari deflexo, infundibuliformi, fusco-ochraceo, tenui, pruinoso, 12-15 mm. diam., usque ad centrum dense minuteque sulcato, margine recto, acuto, inciso v. crispato; lamellis albido-ochraceis, latiusculis, decurrentibus, brevioribus immixtis; stipite fragili, cavo, torto, fusco-atro, pruina alba consperso, 10 cm. longo, 2-3 mm. crasso.

Hab. ad terram in Æquatoria (v. LAGERHEIM).

14. **Omphalia pichinchensis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 205. 117

— Pileo deflexo, orbiculari, centro depresso, subinfundibuliformi, fusco-brunneo, pruinoso, pellucido, tenui, fere ad centrum dense striato, margine incurvo, integro, 8-12 mm. diam.; lamellis strictis, simplicibus, non confertis, integris, concoloribus, acie obtusis, subdecurrentibus; stipite fistuloso, elongato, 8-10 cm. longo, tenui 2 mm. crasso, fragili, fusco, levi vel striatulo, pruina alba consperso; sporis hyalinis, ovoideis, $6 \approx 4$; cystidiis nullis.

Hab. ad terram in Æquatoria (v. LAGERHEIM).

15. **Omphalia blumenaviensis** P. Henn. Hedw. 1897, p. 208. — Pileo 118

membranaceo, translucido, campanulato, centro depresso, dein infundibuliformi, radiato-sulcato, subplicato, ruguloso, griseo-brunneo, hygrophano, $1 \frac{1}{2} - 2$ cm. diametro; stipite fistuloso, substriato, pallido, levi, basi subdisciformi; lamellis triangulari-decurrentibus, latis ventricosis, pallide lutescentibus; sporis subovoideis, $7-8 \approx 4-5$, basi apiculatis, hyalinis.

Hab. ad lignum emortuum pr. Blumenau Brasiliæ (MÖLLER).

16. **Omphalia crocea** P. Henn. Hedw. 1897, p. 208. — Pileo mem- 119

branaceo, campanulato, centro depresso, sulcato-striato, croceo-aurantiaci, ca. 2 mm. diametro; stipite fareto, tenui, concolori, ca.

3 mm. longo, 0,3 mm. crasso; lamellis distantibus, paucis, decurrentibus, flavis, acie incrassatis; sporis subglobosis, levibus, hyalinis, 3-4 μ .; basidiis clavatis.

Hab. ad cortices truncorum pr. St. Catharina Brasiliæ (ULE).

— *Omphalia Campanellæ* videtur affinis.

17. *Omphalia ke-soensis* Pat. Journ. de Bot. 1897, p. 337. — Tota 120
albo-flava; pileo glabro, orbiculari, 1-2 cm. lato, margine striato, valde umbilicato, vix carnosio; lamellis longe decurrentibus integris, acie acutis, non confertis, una alterave brevior immixta, interdum venoso-connexis; stipite glabro, gracili, 1-2 mm. crasso, cylindrico, tenaci, recto v. flexuoso, sursum regulariter incrassato.

Hab. ad terram umbrosam in Tonkin.

18. *Omphalia hirtipes* Pat. Journ. de Bot. 1897, p. 336. — Tota alba; 121
pileo convexo, dein plano, subcarnoso, tenui, pellucido, 6-8 cm. lato, vix pruinoso; lamellis non numerosis, angustis acie acutis, decurrentibus, una alterave brevior immixta, venulis inter se non connexis; stipite gracili filiformi, subtenaci, floccis tomentosis albis affixo, 12-15 mm. longo.

Hab. ad folia putrida Borassi, Tonkin. — *O. amabili* proxima. 122

19. *Omphalia Tagetes* Mont. Ann. Sc. nat. 1860, p. 182, tab. XI.
— Pileo submembranaceo, pyxidato, striato, villosulo, margine reflexo et repando; stipite fuligineo, glabro, fistuloso, basi fulvolanoso; lamellis tetradymis, confertiusculis, longe decurrentibus, aureo-variegatis.

Hab. ad ligna putrida in Ohio Amer. bor. (SULLIVANT). — Elegantissima species, coloribus floris *Tagetis*. Pileus 2-3 cm. lat.; lamellæ 1-2 mm. latæ; stipes 4-7 cm. long., 1-2 mm. cr.; sporæ albæ. Affinis *O. Campanellæ* et *O. chrysophyllæ*.

PLEUROTUS Fr. — Syll. V, p. 339, IX, p. 45, XI, p. 24.

1. *Pleurotus importatus* P. Henn. Engl. Jahrb. XXIII, p. 554. — 123
Pileis carnosis, cæspitoso-imbricatis, dimidiatis, conchatis, pallidis, squamulis tomentosis depressis murinis dense tectis, ad marginem obscurioribus, velutino-tomentosis, tenuibus, usque ad 15 cm. latis, 10 cm. longisque; carne alba, æquali; lamellis decurrentibus, subconfertis, inæquilongis, subventricosis, haud venoso-connexis, albis, sicco flavescentibus; sporis cylindræo-oblongis, basi oblique apiculatis, levibus, hyalinis, 9-11 \times 4-5.

Hab. in trunco *Elaeis guineensis* e Camerunia Berolinum importato.

2. **Pleurotus togoensis** P. Henn. Engl. Jahrb. XXIII, p. 554. — 124
 Pileo submembranaceo-carnosulo, horizontaliter affixo, spathulato v. subflabelliformi, convexo, pallide cinereo, margine radiatim striato, interdum undulato, 2-2½ cm. longo, 1½-2 cm. lato, basi disciformi v. substipitato; lamellis ad basin decurrentibus, latis, ventricosis, haud confertis, pallidis; sporis oblongo-cylindraceis, apiculatis, hyalinis, intus granulatis, 9-11 × 3-3½.
- Hab.* in truncis vetustis in Togo (BAUMANN). — *P. miti* Pers. et *P. camerunensi* P. Henn. affinis.
3. **Pleurotus lignatilis** Fr.-Sacc. Syll. V, p. 344. — forma **aspera** 125
 Vogl. Bull. Soc. bot. Ital. 1896, p. 42. — Pileo carnosio-tenaci, convexo-plano, primo floccoso-pruinoso, dein in papillas secedente, 5-7 cm. lato, albido; lamellis adnatis, confertis, angustis, candidis; sporis ellipsoideo-sphæroideis, 4-5 × 3; basidiis clavatis, 4-sterigmaticis, 16-18 × 6-8; stipite subtenui, irregulari, subvillosa, 5-6 cm. longo, 6-8 mm. crasso.
- Hab.* ad ligna in silvaticis montis Caprino pr. Lugano in Helvetia italica.
4. **Pleurotus aggregatus** Bres. Hedw. 1896, p. 276. — Sessilis; pileo 126
 e resupinato reflexo, dimidiato, membranaceo, luteo, glabro, 1½-3 mm. lato; lamellis ventricosis, crassiusculis, acie acuta, distantibus, postice rotundato-attenuatis, concoloribus; sporis hyalinis, subglobosis, 6-7 × 5; basidiis clavatis, 30 × 6-8.
- Hab.* ad ligna dense gregarius pr. Blumenau Brasiliæ (MÖLLER).
5. **Pleurotus samoensis** P. Henn. in Engl. Jahrb. XXIII, 1896, 127
 p. 284. — Pileo carnosio, compacto, excentrico verticali stipitato, convexo, subflabellato, alutaceo, levi glabroque, ca. 10 cm. longo, 14-15 cm. lato; lamellis decurrentibus, latis, subconfertis, fuscescentibus; stipite ca. 5 cm. crasso, ca. 7 cm. longo, carnosio, basi disciformi; carne in sicco pallide alutacea; sporis non visis.
- Hab.* ad truncos in ins. Upolu ins. samoëns. (GRAEFFE).
6. **Pleurotus camerunensis** P. Henn. in litt. syn. *Pleurotus submitis* 128
 P. Henn. in Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 104. nec Speng. — Pileo carnosulo, tenui, flabellato v. subreniformi, levi glabroque, margine substriato, albo, nitidulo, circ. 1½-2 cm. lato, 1-1½ cm. longo; stipite brevi, laterali v. obsoleto, 2 mm. crasso, basi disciformi, levi; lamellis inæquilongis, sæpe furcatis, subconfertis, semilanceolatis, albis.
- Hab.* ad truncos putres, Kamerun (DUSÉN). — *Pl. miti* Pers. affinis, sed candidissimus.

7. **Pleurotus properatus** C. Mart. Bull. Soc. bot. Genève, VII, 1892-1894, p. 177. — Pileo membranaceo, forma vario, semper plus minusve umbilicato, centrali v. excentrico, interdum unilaterali v. flabelliformi convexo-cyathiformi v. infundibuliformi, sæpe radiatim lacerato, 4-7 cm. lato, albo-flavo, cuticula in squamulas fibrillosas obscure brunneas concentricè dispositas fugaces centro subsistentes lacerata; lamellis adnato-decurrentibus v. arcuato-decurrentibus, linearibus, inæqualibus, sublatis, confertis, albo-flavis acie erosis; stipite annulato, recto v. curvato, cylindrico interdum compresso æquali, 1-3½ cm. longo, ½ cm. crasso, deorsum squamis concentricis obscure brunneis tecto; annulo membranaceo, fugaci; sporis elongato-pruniformibus v. fusiformibus; sapore grato, odore farinoso.

Hab. ad truncos ad ripam fl. Aire pr. Certoux in Helvetia.

8. **Pleurotus germinans** De Seyn. Rech. Champ. Congo fr. I, p. 9, 190 tab. I, fig. 18-20. — Pileo sessili fere pezizæformi v. excentrico auriformi, levi, carnosulo, firmo, margine recto, subinvoluta, ochroleuco, 1-1½ cm.; lamellis inæqualibus, angustis, confertis, concoloribus; hymenio cystidiis vegetantibus ornato; basidiis rarissimis oblongis; sporis hyalinis, 5 × 3 μ.

Hab. ad cortices arborum pr. Kangroé, Lambaréné in regione Kongolana gallica.

9. **Pleurotus ogonensis** De Seyn. Champ. Congo fr. 1897, I, p. 8, 131 tab. III, fig. 15-16. — Pileo semiinfundibuliformi expanso, margine undulato, postice breviter elongato stipitiformi, albo-argenteo, carnosulo, levi, non hygrophano, 2-3½ cm. lato; lamellis 5 mm. latis inæqualibus, sinuosis, concoloribus; hymenio homogæneo, cystidiis nullis; basidiis oblongis fere ovatis; sterigmatibus sublongis; sporis hyalinis, ovalibus, 4-5 × 3 μ.

Hab. ad truncos pr. Talagouga in regione Kongolana gallica.

10. **Pleurotus ostreatus** Jacq.-Sacc. Syll. V, p. 355. — Var. **nudipes** 132 Boud. Bull. Soc. Mycol. de France, 1897, p. 11, tab. 1, fig. 1. — Cæspitosus; pileo excentrico aut fere dimidiato, glabro intense cinereo-fusco; pediculo albo, levi; lamellis albidis, longe decurrentibus, postice anastomosantibus; sporis albis, oblongo-cylindricis, vix curvatis, intus subgranulosis, 10-11 × 4-4½.

Hab. ad ossa Balenæ uda in Museo Burdigalensi Galliæ (DUBALEN).

11. **Pleurotus Schwabeanus** P. Henn. Notizbl. Königl. Bot. Gart. 133 u. Mus. Berlin. 1897, N. 7, p. 229. — Pileo carnosulo, laterali,

flabelliformi vel subreniformi, convexo-explanato v. conchiformi, cæspitoso, levi glabroque, albido, margine integro v. inciso-lobato, 2-5 cm. lato, $1\frac{1}{2}$ - $2\frac{1}{2}$ cm. longo, postice stipitiformi-attenuato, discoideo affixo, basi tomentoso-strigoso; lamellis subconfertis, inæquilongis, decurrentibus, subventricosis, flavis, acie integris; sporis ellipsoideis vel subovoideis, hyalinis, levibus, 7-8 \times 4-5.

Hab. ad truncos putridos, Marshall-Inseln.

12. **Pleurotus Suberis** Pat. Cat. rais. pl. cell. Tunisie. 1897, p. 29. 134

— Eximie cæspitosus; pileo carnoso, excentrico, glabro, albido v. gilvo, postice depresso, margine reflexo, lobulato, lobulis imbricatis, numerosis, antice truncatis, postice cuneatis; stipitibus excentricis, crassiusculis, inferne attenuatis, glabris, validis, pileo concoloribus; lamellis albis, confertiusculis, latis, longe decurrentibus, minoribus immixtis, acie integris; sporis in cumulo albis, sub microsc. hyalinis, ovato-cylindraceis, rectis, 10-12 \times 3-4 μ .; carne alba, sapida.

Hab. ad truncos vetustos *Quercus Suberis* in Tunisia. — Pileus circiter 10 cm. latus; stipes 4-8 cm. longus, 1 cm. crassus. Edulis.

HYGROPHORUS Fr. — Syll. V, p. 387, IX, p. 52, XI, p. 27.

1. **Hygrophorus cuspidatus** Peck, Bull. Torr. Bot. Cl. 1897, p. 141. 135

— Pileo tenui subcampanulato, glabro, cuspidato, rubro; lamellis latis ventricosis, luteis; stipite gracili, æquali, glabro, cavo; sporis ellipticis, 12-16 \times $6\frac{1}{2}$ -8.

Hab. ad terram in Canada Amer. bor. (MACOUN). — Pileus $1\frac{1}{2}$ - $2\frac{1}{2}$ cm. latus; stipes $2\frac{1}{2}$ -5 cm. longus, circiter 2 mm. crassus. *H. conico* valde affinis.

2. **Hygrophorus suberosus** Jacobasch. Allgem. Bot. Zeitschr. 1896, 136

p. 145. — Pileo convexo, subdepresso, non umbonato, subturbinato, carnoso, $6\frac{1}{2}$ cm. lato, opaco, luteo-rubro, glabro, margine tenui involuto; lamellis cremeis, angustis, crassis, arcuatis, decurrentibus, fragilibus; stipite pallido, æquali, basi curvato solido, 4 cm. longo, 0,8-1 cm. crasso, tenue floccoso-tomentoso, farcto; carne pallida, suberosa; sporis candidis, globosis, levibus, 3,7-5,5 μ . diam.; odore et sapore mitibus.

Hab. ad terram pr. Berolinum Germaniæ.

3. **Hygrophorus sulcatus** Karst. Hedw. 1896, p. 43. — Pileo e cam-

panulato-convexo expanso, obtuso, membranaceo, disco carnosulo, viscido, disco excepto levi, striato-sulcato, saturate fulvo, nitido, vix expallente, c. 2 cm. lato; stipite cavo æquali, substricto,

tenaci, levi, glaberrimo, viscido, lutescente, apice in fuligineum v. cœrulescentem levissime vergente, 4-5 cm. alto, 4 mm. crasso; lamellis decurrentibus, distinctis, crassiusculis, lutescentibus, postice in fuligineum leviter vergentibus.

Hab. in silvis frondosis ad Mustiala Fennia. — Inter *H. lætum* Fr. et *H. sciophanum* Fr. medius, differens ab illo pileo membranaceo, sulcato et colore, ab hoc pileo nitido, non hygrophano, nec non lamellis decurrentibus, lutescentibus.

4. **Hygrophorus nigridius** Peck, Bull. Torr. Bot. Club. 1895, p. 211. 138

— Pileo carnoso, convexo, obtuso v. subumbonato, glabro, griseolo-brunneo v. nigro-brunneo, centro sæpe obscuriore; carne alba; lamellis distantibus, decurrentibus, albis; stipite gracili, solido, brunneolo, apice albo; sporis ellipticis, $10\frac{1}{2}$ -13 \approx $6\frac{3}{4}$ - $7\frac{3}{4}$.

Hab. gregarius in abiegnis et pinetis, Prince Edwards Island (Mc SWAIN). — Pileus $2\frac{1}{2}$ -5 cm. latus; stipes $2\frac{1}{2}$ -5 cm. longus, $\frac{1}{2}$ -1 cm. crassus. *H. caprino* Fr. affinis.

5. **Hygrophorus ericeti** Britz. Hymen. Kunde I, 1895, p. 12, f. 107. 139

— Pileo luteolo, brunneolo vel carneo; lamellis distantibus, anastomosantibus, albis vel pallidissime ochroleuco-carneis; stipite pileo concolori; sporis 10 \approx 6-8.

Hab. in ericetis in Bavaria.

6. **Hygrophorus parvipes** Britz. Hymen. Kunde I, 1895, p. 12, f. 108. 140

— Pileo non viscido, albido vel pallide brunneo-albido; lamellis distantibus, albis; stipite pileo concolori; sporis ochroleucis, 10-12 \approx 6, subirregularibus.

Hab. in silvaticis in Bavaria.

7. **Hygrophorus flavellus** Britz. Hymen. Kunde I, 1895, p. 12, f. 111. 141

— Pileo hygrophano, albido-vitellino vel vitellino; stipite luteolo, superne ochroleuco; sporis ochroleucis, 10 \approx $4\frac{1}{2}$.

Hab. in silvaticis in Bavaria.

8. **Hygrophorus sphaerosporus** Peck, Bull. Torr. Bot. Club. 1895, 142

p. 386. — Pileo carnoso, centro crasso, subobconico, convexo, obtuso v. leviter umbonato, albido, rubro-brunneo tincto, margine incurvo, carne firma, alba; lamellis sat latis, subdistantibus, adnatis v. leviter decurrentibus; stipite floccoso, flexuoso, solido, glabro, basi sæpe leviter incrassato, colore pilei; sporis $6\frac{1}{3}$ -8 μ . diam., globosis.

Hab. ad terram in Jowa Amer. bor. — Pileus $1\frac{1}{2}$ - $2\frac{3}{4}$ cm. latus; stipes $2\frac{1}{2}$ -5 cm. longus, $\frac{1}{2}$ - $\frac{3}{4}$ cm. crassus. *H. Peckiano* affinis.

9. **Hygrophorus kilimandscharicus** P. Henn. Pilze Ostaf. p. 59. — 143
 Pileo subconico-campanulato, dein explanato, obtuso subumbilicato, 1-3 cm. lato, levi glabroque, non viscido, coccineo, margine obscuriore non nigricante, substricto; stipite cavo, striato-sulcato, subcontorto, non incrassato, sulphureo, 3-5 cm. longo, 2-3 cm. crasso; lamellis postice subattenuatis, subliberis, ventricosis, crassis, distantibus, basi subvenosis, inæquilongis, acie crenatis, circiter 5 mm. latis, sulphureis; sporis ellipsoideis, hyalinis, intus subgranulatis, 9-11 \approx 5-6.
Hab. ad terram scissam frequens in Africa tropica (VOLKENS).
H. flammanti Scop. affinis.
10. **Hygrophorus elegantulus** Peck, Bull. Torr. Bot. Club. 1895, p. 200. 144
 — Pileo convexo v. subplano, glabro, viscido, griseolo-luteo, carne alba; lamellis distantibus, vix decurrentibus, albis; stipite æquali, solido, glabro, apice leviter floccoso-squamuloso, glutinoso, albo v. albido, basi interdum abrupte acutato; sporis ellipticis, 10 $\frac{1}{2}$ \approx 5 $\frac{1}{4}$ -6 $\frac{1}{2}$.
Hab. in silvis, Maryland Amer. bor. — Pileus 2 $\frac{1}{2}$ -5 $\frac{1}{2}$ cm. latus; stipes 5-8 cm. longus, 6-9 mm. crassus. *H. discoideo* Fr. affinis, a quo stipite solido et sporis majoribus diversus.
11. **Hygrophorus alutaceo-rubens** Otth ap. Trog, Mitth. nat. Gesell. 145
 Bern. 1857, p. 35. — Pileo convexo-applanato, obsolete umbonato, flavo-rubente, centro obscuriore, 4 cm. lat.; stipite 8 cm. longo, 8-9 mm. cr., cylindraceo, subcontorto, deorsum acutato rubello, infra albido, apice farinoso; lamellis vix decurrentibus, flavo-rubentibus 4 mm. lat.
Hab. ad terram, Bremgartenwald Helvetiæ.
12. **Hygrophorus albus** Otth ap. Trog in Mittheil. nat. Gesell. Bern. 146
 1857, p. 36. — Pileo conico obtuso, 3-4 cm. lat., levi, albo, carnoso-molli; stipite albo, striato, nitente, 5 cm. long., superne 6 mm. cr., lamellis niveis, liberis, ventricosis, remotiusculis.
Hab. ad vias, Bremgartenwald Helvetiæ. — Ab *A. conico* dignoscitur colore albo et forma obtusiore.
13. **Hygrophorus hyporrhodius** Otth ap. Trog in Mittheil. nat. Gesell. 147
 Bern. 1857, p. 35. — Pileo convexo, dein impresso, griseo-brunneo, medio obscuriore squamulis sericeo-fibrillosis consperso, margine involuto, 4 cm. lat.; carne tenera sub cute griseola; stipite æquali, 7 cm. long., 4-5 mm. cr., farcto, albido, granuloso-squamuloso, molliusculo; lamellis leviter decurrentibus utrinque acutis, albidoseis, basi venoso-connexis.

Hab. ad terram, Brëmgartenwald Helvetiæ.

14. **Hygrophorus turundus** Fr.-Sacc. Syll. V, p. 413. — Var. **lepidus** ¹⁴⁸
Boud. Bull. Soc. Mycol. de France. 1897, p. 12, tab. 1, fig. 2. —
Medius 5-7 cm. altus, gracilis, splendide aureo-aurantiacus; pileo
convexo squamulis minutis tomentoso-hirsuto, medio umbilicato,
dein decolorante et aureo, centro saturatiore; stipite elongato,
æquali, 2-3 mm. crasso, sursum fistuloso, deorsum solido, ad apicem
paulo incrassato, glabro, colore pilei; lamellis crassis, distantibus,
longe et abrupte decurrentibus, pallidis, sed colore pilei ad basim
paululum tinctis; sporis oblongo-ovatis, intus granulosis, 9-10 ×
5-6; carne stipitis aurantiaca, pilei pallidiore.

Hab. in nemoribus paludosis pluribus in Gallia.

LACTARIUS Fr. — Syll. V, p. 423, IX, p. 56, XI, p. 31.

1. **Lactarius villosus** Clem. Bot. Survey of Nebraska, IV, Lincoln. ¹⁴⁹
1896, p. 20. — Pileo primo convexo, margine involuto tomentoso,
dein explanato-umbilicato, raro infundibuliformi, spongioso-carnoso,
sæpe irregulari, sericeo-villoso, fibrillis longis innatis, agglutinatis,
centro sæpe minute tomentoso-areolato, initio albo, dein aurantiaco;
stipite brevi crasso, sæpe excentrico, deorsum attenuato, solido,
tomentoso, albo; lamellis adnexas, interdum decurrentibus, linea-
ribus, confertissimis, albis v. interdum ochraceis; lacte copioso,
acri, albo, immutabili; sporis irregulariter ellipsoideis v. ovoideis,
uniguttulatis, echinulatis, 5-6 × 4-5; cystidiis numerosis, rugosis,
lanceolatis, 25-30 × 5.

Hab. ad terram arenosam, Nebraska Amer. bor. — Pileus 6-12 cm.
latus; stipes 1 1/2-2 1/2, cm. longus et crassus.

2. **Lactarius sanguifluus** Fr.-Sacc. Syll. V, p. 439. — Var. **yvreus** ¹⁵⁰
C. Mart. Bull. Soc. bot. Genève, VII, 1892-1894, p. 184. —
Pileo ochraceo, maculis rubris v. luteis adperso, nec concentrice
zonato; stipite brevi, subcylindrico, plerumque deorsum attenuato
sæpe cavo; lamellis amethysteis; lacte atro-coccineo.

Hab. ad terram sub Pinis in silva Yvre in Helvetia.

3. **Lactarius luteolus** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 412. ¹⁵¹
— Pileo carnoso, tenui, convexo v. subplano, centro plerumque
umbilicato-depresso rugosoque, pruinoso v. subglabro, luteolo;
carne alba; lamellis confertis, subplanis, adnatis v. posticæ leviter
rotundatis, albidis, tactu brunneolis; stipite brevi, æquali v. deor-
sum angustato, solido, sed intus leviter spongioso, colore pilei;
sporibus globosis, 8 μ . latis; lacte copioso, albo v. albidio; sapore miti.

Hab. in silvis, Massachusetts Amer. bor. — Pileus 5-8 cm. latus; stipes $2\frac{1}{2}$ - $6\frac{1}{2}$ cm. longus, $\frac{3}{4}$ - $1\frac{1}{4}$ cm. crassus. *L. volemo* et *L. hygrophoroidi* affinis.

4. **Lactarius carneo-isabellinus** Britz. Hymen. Kunde II, 1896, p. 5, 152
fig. 74. — Pileo glutinosissimo, carneo-isabellino; lamellis subdistantibus, dilute carneo-isabellinis; sporis luteolis, asperis, 8×6 , in cumulo isabellino-albidis; lacte ex albo brunneolo; sapore grato.

Hab. in silvis in Bavaria.

5. **Lactarius albo-carneus** Britz. Hymen. Kunde I, 1895, p. 13, 153
fig. 73. — Pileo valde glutinoso, albo-carneo; carne alba; lamellis albis, confertissimis; stipite albo vel subcarneo; sporis 10-15 \times 8-10, in cumulo albis.

Hab. in silvaticis in Bavaria. — Lac acre, album.

6. **Lactarius mitificus** Britz. Hymen. Kunde III, 1897, p. 7, fig. 80. 154
— Pileo lateritio-sanguineo, fibroso; carne alba; lamellis confertis, luteolo-carneis; stipite pileo concolori, sæpe unilaterali, subfistuloso; sporis asperis, luteolis, 8×6 , in cumulo isabellinis; sapore miti.

Hab. in quercetis in Bavaria.

7. **Lactarius Hatsudake** Tanaka, Bot. Mag. Tokio, 1890, p. 2-7 cum 155
icone et Grev. 1891, p. 63. — Pileo carnoso 5-10 cm. lat., hemisphærico dein expanso, umbilicato, viscido, zonato, glabro, sordide brunneo, rubro-tincto, margine levi, primitus incurvo; stipite farcto, dein cavo, rubente, pruinoso, subæquali curto, 1-3 cm. long.; lamellis decurrentibus, sæpe ramosis, latiuscule ventricosus purpurascenti-brunneis, dein cyanescentibus; lacte aromatico, rubente; sporis echinulatis, subsphæricis v. ovoideis, subhyalinis, 8-10 μ . diam.

Hab. ad terram pr. Tokio Japoniæ. — Optime edulis, vulgo *Hatsudake*.

8. **Lactarius Akahatsu** Tanaka, Bot. Mag. Tokio, 1890, p. 2-7 cum 156
icone et Grev. 1891, p. 63. — Pileo carnoso 2-8 cm. lato, hemisphærico, dein expanso, umbilicato, viscido, distincte zonato, glabro, flavido-rubro, dein pallido, margine levi, primitus incurvo pallidiore, dein subrepando, acutiusculo; stipite 1-4 cm. longo, subæquali, curvo, farcto, dein cavo, flavido, pruinoso; lamellis decurrentibus, aurantiis dein viridulis satis angustis sed ventricosulis; lacte aurantio, aromatico; sporis echinulatis subsphæricis v. ovoideis, subhyalinis, 9-11 \times 6-8.

Hab. ad terram pr. Tokio Japoniæ. — Edulis sed inferior præcedenti.

RUSSULA Pers. — Syll. V, p. 453, IX, p. 59, XI, p. 29.

1. **Russula bona** Schwalb, Lotos. 1896, c. tab. — Pileo subcarnoso, 157
non membranaceo, usque ad 8 cm. lato, sæpius irregulari, lilacino,
centro pallido v. obscuro, interdum subpruinoso, velutino, jove
pluvio glabro, margine interdum incurvato; lamellis angustatis
adnexis, subventricosis, antice vulgo late rotundatis, brevioribus
immixtis, furcatis, albo-flavis, demum pallide vitellinis; stipite inæ-
quali, sæpius curvato, albo, striato, subglabro, elastico, cavo, $3\frac{1}{2}$ -6
cm. alto, 1-2 cm. crasso; sporis pallide vitellinis, globosis v. glo-
boso-ellipticis, papillois, aculeolatis, 8-12 μ . latis; carne alba, sa-
pore miti.

Hab. in silvis in Bohemia. — *R. puellari* affinis.

2. **Russula pallida** Karst. Hedw. 1896, p. 43. — Acris; pileo car- 158
noso, firmo, rigido, e convexo explanato, ut plurimum undulato-
difformi, pellicula viscidula adnata tecto, constanter pallescente,
subinde hinc inde obsolete roseo-sanguineo, margine levi, usque
ad 9 cm. lato; stipite æquali, levi, sæpe curvato, albo, usque ad
6 cm. alto, c. 2,5 cm. crasso; lamellis subliberis, confertis, æqua-
libus, sat angustis, usque ad 1 cm. latis, albis, acie subinde sul-
phureis, siccitate lutescentibus; sporis sphæroideis, aculeatis, 5-8 μ .
diam.; cystidiis fusoides 30-40 \times 9.

Hab. in pineto pr. Mustiala in Fennia. — *Russula rosacea* affi-
nis. A *R. pallescente*, cum qua colore vegeta congruit, statura ro-
bustiore, margine pilei levi, sporis aliisque notis statim digno-
scenda.

3. **Russula ochraceo-alba** Britz. Hymen. Kunde II, 1896, p. 6, fig. 131. 159
— Pileo albido-ochraceo vel griseo-luteo; carne alba; lamellis con-
fertissimis, pallide albo-luteis; stipite albo; sporis luteis, 9-10 \times
7-8; sapore miti.

Hab. in silvis in Bavaria.

4. **Russula subdepallens** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 160
p. 411. — Pileo carnoso, primo convexo, margine striato, dein
expanso v. centro depresso et margine tuberculato-striato, viscido,
sanguineo v. purpureo-rubro, maculis luteolis adperso, demum
pallidiore v. subalbido, sæpe irregulari; carne fragili, alba, ætate
cinerea, sub cuticula rubescente; lamellis latis, subdistantibus, ad-
natis, albis v. albidis, interstitiis venosis; stipite firmo, solido, in-
tus spongioso, albo; sporis albis, globosis, asperis, 8 μ . latis; sa-
pore miti.

Hab. ad terram in Pennsylvania Amer. bor. — Pileus 8-16 cm.

latus; stipes 4-8 cm. longus, $1\frac{1}{2}$ - $2\frac{3}{4}$ cm. crassus. *R. depallenti* valde affinis.

5. **Russula intermedia** Karst. Hedw. 1895, p. 7. — Acris; pileo car- 161
noso, firmo, dein fragili, expanso, depresso, solido irregulari, vis-
coso-pelliculoso, carne sub pellicula albo, margine tenui, levi,
demum sulcato tuberculosoque, fulvo, disco obscuriore, subsanguini-
neo-fulvo, marginem versus pallidiorè, decolorante, 9-11 cm. lato;
stipite æquali v. sursum incrassato, levi, albo, circ. 7 cm. alto,
2-3 cm. crasso; lamellis subliferis, subconfertis, æqualibus, albis,
dein flavescentibus, usque ad 1 cm. latis.

Hab. in betuletis pr. Tammela Fennicæ. — *R. integræ* simillima,
sed sapore coloreque ab ea differens.

6. **Russula fœtida** C. Mart. Bull. Soc. bot. Genève, VII, 1892-1894, 162
p. 185. — Pileo viscido membranaceo, sulcato, $3-4\frac{1}{2}$ cm. lato, co-
lore vario, plerumque luteo-brunneo; carne sub cuticula brunnea,
alibi alba; stipite fragilissimo, sæpe ventricoso, deorsum attenuato,
lacunoso v. cavo, albo, sæpe deorsum maculis luteis v. rubris ad-
perso, 2-3 cm. longo; lamellis inæqualibus, stipitem versus fur-
catis, rotundato-liberis v. adnexis, venoso-connexis, ex albo flavis,
initio confertis dein subdistantibus; sapore grato.

Hab. in graminosis Helvetiæ. — Fœtida, odore empyreumatico
gravissimo mox distincta ideoque cum *R. fœtente* comparanda
species.

7. **Russula luteo-viridans** C. Mart. Bull. Soc. bot. Genève, VII, 1892- 163
1894, p. 187. — Pileo initio convexo, centro plus minusve de-
presso, demum margine erecto sinuoso ac valde sulcato, pellicula
viscida facile separabili lutea, sed maculis viridibus ac brunneis
adpersa tecto, 3-9 cm. lato; carne alba, sub cuticula lutea, sapore
miti, dein piperato, odore nullo; stipite æquali v. ventricoso, basi
attenuato, reticulato, spongioso-farcto, 3-5 cm. longo; lamellis ad-
nexis, marginem versus rotundatis, usque ad $1\frac{1}{2}$ cm. latis, sim-
plicibus æqualibusque, subdistantibus; sporis globulosis, aculeolatis.

Hab. in graminosis Helvetiæ. — Var. **bicolor** C. Mart. l. c.
A typo tantum recedit colore disco pilei luteo, marginem versus
brunneo, lamellis obscure ochraceis; var. **purpurea** C. Mart. l. c.
A typo differt colore pilei purpureo, disco luteo. Item in grami-
nosis Helvetiæ.

8. **Russula cerasina** C. Mart. Bull. Soc. bot. Genève, VII, 1892-1894, 164
p. 187. — Pileo viscido, centro depresso, subcyathiformi, margine
sulcato, pellicula separabili cerasina, disco lutea, $5\frac{1}{2}$ -7 cm. lato;

carne sub pellicula purpurea, in stipite subgriseola; stipite subæquali rugoso, albo, spongioso-farcto, 4-6 cm. longo; lamellis adnato-decurrentibus, marginem versus rotundatis, confertis v. subconfertis, stipitem versus subfurcatis, venoso-connexis, æqualibus, ochraceis; sporis luteis, globulosis, aculeolatis; sapore miti, dein acri, odore nullo.

Hab. in silvis in Helvetia.

9. ***Russula luteolo-alba*** Britz. Hymen. Kunde I, 1895, p. 13, fig. 121. 165
— Pileo ochroleuco vel viridi-ochroleuco; carne alba, fragili, dulci; lamellis confertis v. confertissimis, tenuibus, ochraceis vel fulvis; stipite albo vel albicante; sporis luteis, $10 \approx 8$.

Hab. in silvaticis in Bavaria.

10. ***Russula albella*** Peck, 50 Rep. p. 101 (1897). — Pileo tenui, fra- 166
gili, sicco, plano v. centro subdepresso. levi v. margine obscure striato, typice albo. subinde roseo-tincto; carne alba, sapore dulci; lamellis integris, albis; stipite æquali solido v. intus spongioso, albo; sporis albis, globosis, 7μ . diam.

Hab. in silvis frondosis, ad terram siccam, Port Jefferson Amer. bor. — Affinis *R. lactea*.

11. ***Russula ochrophylla*** Peck, 50 Rep. p. 100 (1897). — Pileo firmo, 167
convexo, dein expanso, sæpe centro depresso. levi v. senio vix margine striatulo purpureo v. atro-purpureo; carne alba, rubente sub cuticula adnata, sapore acri; lamellis integris, paucis furcatis, subdistantibus, adnatis, initio flavidis, demum ochraceis, interstitiis sæpe venosis; stipite æquali v. subæquali solido v. centro spongioso, rubescente v. roseo; sporis ochraceo-fulvis globosis, verrucosis, 10μ . diam.

Hab. in graminosis sub *Quercubus* Menands Amer. bor. — Pileus 5-10 cm. lat.; stipes 4-7 cm. long., 12-20 mm. cr. — Affinis *R. drymeia* Cooke. — Adest var. *albipes*.

12. ***Russula pusilla*** Peck, 50 Rep. p. 97 (1897). — Pileo tenui sub- 168
plano v. leviter umbilicato-depresso, glabro margine striatulo, rubro, subinde centro saturatiore, pellicula tenui separabili; carne alba, sapore acri; lamellis latis, subventricosis, subdistantibus, adnatis v. leviter rotundatis, albis, demum (in sicco) flavido-ochraceis; stipite brevi, intus solido v. spongioso, albo; sporis leviter flavo-tinctis, 7μ . latis.

Hab. ad terram nudam in silvis Port, Jefferson Amer. bor. — Pileus 2,5 cm. lat., stipes 12-24 mm. long., 4-6 mm. cr. — *R. puclari* affinis.

13. **Russula anomala** Peck, 50 Rep. p. 99 (1897). — Pileo tenui, fragili, 169
subplano v. centro depresso, pellicula nec viscida nec separabili,
margine distincte striato, albo; carne albâ, sapore acri; lamellis
tenuibus, subconfertis, adnatis, integris v. rarius dimidiatis, altis,
siccis sporis pruinatis; stipite æquali, intus solido v. spongioso,
albo; sporis subglobosis. 7-8 μ . diam.

Hab. ad terram uliginosam sub arboribus, Port Jefferson Amer.
bor. — Pileus 3-4 cm. lat.; stipes 3-4 cm. long., 6-8 mm. cr. —
Affinis *R. fragili*.

CANTHARELLUS Adans. — Syll. V, p. 482 IX, p. 63, XI, p. 32. 170

1. **Cantharellus fuscipes** Bres. Hedw. 1896, p. 277. — Pileo subre-
niformi e convexo depresso, glabro, membranaceo, pellucide striato,
lutescente, 3-5 mm. lato; lamellis paucis, 6-8, distantibus, venoso-
conjunctis, adnato-subdecurrentibus v. subrotundato-adnatis, acie
obtusa, concoloribus, stipite excentrico, deorsum fuscidulo, prunato,
3 mm. longo, $\frac{1}{2}$ mm. crasso, curvato; sporis subellipticis, luteolis,
8-11 \approx 5-6; basidiis clavatis, 25-30 \approx 7-8.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER).

2. **Cantharellus? spathuliformis** P. Henn. Hedw. 1897, p. 104. — 171

Pileo membranaceo, subgelatinoso, pellucido, spathulato, stipitato,
miniato, levi, glabro, 7-13 mm. longo, 4-8 mm. lato; stipite cy-
lindraceo, gracili, æquali, pruinoso, concolori, 8-10 mm. longo, 1
mm. crasso; plicis decurrentibus, distantibus, anastomosantibus,
concoloribus; basidiis clavatis; sporis globosis, 3-3 $\frac{1}{2}$ μ . hyalinis.

Hab. ad truncos? pr. Blumenau Brasiliæ (ULE).

3. **Cantharellus roseolus** Britz. Hymen. Kunde III, 1887, p. 7, fig. 19. 172

— Pileo opaco, luteo-roseolo; carne fulva, intus carneo-albida,
spongiosa, fragili; lamellis crassis, venosis, ochraceo-roseolis; sti-
pите pileo concolori; sporis oblongo-rotundis, non acuminatis, albis,
12 \approx 8.

Hab. in silvis pr. Epagny in Alpibus.

4. **Cantharellus membranaceus** De Seyn. Rech. Champ. Oongo fr. 1897, 173

I, p. 11. — Stipite cavo, basi bulbilloso, levi, 14-15 mm. longo;
pileo membranaceo infundibuliformi, elongato, levi, margine un-
dulato pellucido, ochraceo sordescente, exsiccato nigrescente, 2-2 $\frac{1}{2}$
cm. crasso; lamellis rectis, inæqualibus, decurrentibus, ceraceis, acie
obtusa, subdistantibus, paucis dichotomis, concoloribus; hymenic
homogeneo; sporis non visis.

Hab. ad cortices? in regione Kongolana gallica.

5. **Cantharellus congregatus** (Pat.) Sacc. et Syd. *Dictyolus congregatus* 174
Pat. Ann. Jard. Buitenz. 1897, I suppl. p. 108. — Pileo orbiculari, convexo-plano dein depresso, postice inciso, 5-7 mm. lato, tenui, parce radiatim sulcato, glabriusculo; stipite brevi, circ. 1 1/2 mm. longo, exacte laterali v. obsoleto; lamellis crassiusculis, distantibus, simplicibus, rectis v. crispatis, obtusis, interstitiis levibus, basidiis claviformibus, 4-sporis, 20-25 × 8-10; cystidiis nullis; sporis hyalinis, ovoideo-cylindraceis, levibus, 10 × 4-5; contextu tenui, membranaceo.

Hab. in ramulis emortuis, Java.

6. **Cantharellus parvus** Otth ap. Trog, Mitth. nat. Gesell. Bern. 1857, 175
p. 36. — Pileo infundibuliformi, excavato, fibroso-squamoso, brunneo-cinereo, 12-15 mm. lat.; stipite tenui, griseo-flavido, torto, sulcato, farcto, vix 2-3 cm. alto; lamellis pliciformibus, vix prominentibus, flavidis; carne fungi cinereo-flavida, laxa.

Hab. ad terram in Bremgartenwald Helvetiæ.

ARRHENIA Fr. — Syll. V, p. 498.

1. **Arrhenia cupuliformis** P. Henn. Fungi camerun. I, in Engl. Jahrb. 176
XXII, 1895, p. 96. — Pileo membranaceo, tenui (subgelatinoso, teste Dusén) cupulato, radiato-sulcato subplicatoque, albido, 3-4 mm. diam., margine subrepando, contextu pseudo-parenchymatico; venis striiformibus, simplicibus, interdum subramosis, paucis, valde distantibus, concoloribus; stipite centrali, stricto, tenui, pallido, subtiliter villosulo, ca. 6-8 mm. longo, basi vix incrassato; sporis ovoideis v. subfusoides, hyalinis, 6-4 μ; basidiis clavatis, 5 u. latis.

Hab. ad truncos putres, Kamerun (DUSÉN).

CAMPANELLA P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 95. (Ety. a *campana*). — Pileus membranaceus; hymenium subreticulatum inferum, lamellarum loco venis vel costis anastomosantibus. Sporæ pallidæ subglobosæ; basidia subclavata. — *Marasmiio* et *Arrheniæ* affinis.

1. **Campanella Büttneri** P. Henn. l. c. — Pileo membranaceo, ver- 177
tice porrecto stipitato, galeiformi v. auriformi, subcampanulato, tessellato-subverrucoso, margine subundulato, albido, 5-11 mm. diam.; hymenio costato-reticulato, venis anastomosantibus, pallido; stipite excentrico, brevi, levi glabroque, tereti, ca. 1 mm. longo, 0.5 mm. crasso, farcto, subflavo; sporis subglobosis, granulosis, hyalino-subflavescentibus, 7-9 μ; basidiis clavatis, 21-26 × 6-8 μ.

Hab. ad ligna putrida, Togo (BÜTTNER) et Kamerun (DUSÉN).

MARASMIOPSIS P. Henn. in Engler u. Prantl, Natürl. Pflanzenfam. 1898, p. 230. (Etyrn. a *Marasmius* et *opsis*, facies). A *Marasmo* stipite medio annulo obliquo incompleto cincto recedit.

1. **Marasmiopsis subannulatus** (Trog) P. Henn. l. c. — *Marasmius* 178
subannulatus Trog in Syll. V, p. 504.

Hab. in Helvetia gregarius.

MARASMIUS Fr. — Syll. V, p. 503, IX, p. 65, XI, p. 32.

1. **Marasmius Clementsianus** Sacc. et Syd. *Marasmius fulviceps* Clem. 179
Bot. Survey of Nebraska IV, Lincoln. 1896, p. 20, nec Berk. — Pileo convexo-campanulato, dein convexo v. subapplanato, membranaceo, valde radiato-sulcato, rugoso, glabro, umbonato, fulvo-ferrugineo; stipite medullosa, flexuoso, sursum spiraliter tortuoso, levi, nitido, brunneo, apice pallidiore; lamellis adnexis, anastomosantibus, distantibus, 15-20, margine flexuoso, obscure ochroleucis; sporis hyalinis, fusoides, 18-20 \times 5.

Hab. in foliis emortuis, Nebraska Amer. bor. — Pileus 5-15 mm. latus; stipes 4-6 cm. longus, $\frac{1}{2}$ -1 mm. crassus. — *M. Schweinfurthiano* P. Henn. affinis.

2. **Marasmius griseo-badius** Pat. Bull. Soc. Myc. de Fr. 1896, p. 133. 180
— Solitarius vel gregarius, minimus; pileo 1 mm. lato, applanato, orbiculari, membranaceo, sordide griseo-badio, profunde sulcato, pellicula ex cellulis ovoideis, 20-25 \times 10-12 μ . fuscis exquisite nuniculatis composita tecto; lamellis albis, 8-10, sat confertis, integris, acie obtusis, stipite adnexis; stipite 3-5 mm. alto, tenuissimo, glabro, atro-brunneo, nitente, apice pallido, fere pellucido.

Hab. in cortice arborum, Tonkin (Box).

Marasmius lilacinus P. Henn. in Engl. Jahrb. XXIII, 1896, p. 283. 181
— Pileo membranaceo, convexo, umbilicato, striato-sulcato, violaceo 4-6 mm. diam.; stipite capillari, glabro, subnitente, concolori, subfistuloso, 1 $\frac{1}{2}$ -2 $\frac{1}{2}$ cm. longo; lamellis paucis, ca. 12, distantibus, in collarium liberum postice conjunctis, angustis, pallidis v. pallide violaceis.

Hab. ad corticem Fici in ins. Upolu ins. samoëns. (WEBER). — *M. rhodocephalo* Fr. affinis.

4. **Marasmius minutulus** P. Henn. Fungi camerun. I, in Engl. Jahrb. 182
XX, 1895, p. 100. — Pileo membranaceo, tenui, convexo-explanato, medio papillato, obtuso v. conico, atro, radiato-subsulcato, brunneo, margine repando, usque ad 2 mm. diam.; stipite corneo, atro-brunneo, arcuato-curvato, tenui, circiter 2 mm. longo, basi

incrassato, subvillosa, nigro; lamellis adnatis, paucis, 4-7, partim furcatis, flavo-brunneis.

Hab. ad ramos putres, Kamerun (DUSÈN).

5. **Marasmius barombiensis** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 99. — Pileo membranaceo, campanulato, umbilicato, plicato, sulcato, margine tenui, undulato, subrepando, inflexo, albido, centro subflavo, usque ad 1 cm. alto, 1 1/2-2 cm. lato; stipite corneo, fistuloso, gracili, substriato, levi glabroque, atrofusco, apice pallidiore, basi bulboso-incrassato, albo-tomentoso, usque ad 7 cm. longo, 1 mm. crasso; lamellis subsinuoso-adnatis, inæquilongis, distantibus, angustis.

Hab. ad truncos putrescentes, Kamerun (DUSÈN).

6. **Marasmius rufo-brunneus** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 99. — Pileo membranaceo, campanulato, dein subexplanato, obtuse umbonato v. subumbilicato, dense radiato-sulcato, margine repando, rufo-brunneo, 2-6 cm. diam.; stipite fistuloso, subcorneo, striato, levi glabroque, rufo-brunneo, tereti v. subcompressa contortoque, basi bulbilloso-incrassato, tomentosulo; lamellis adnatis decurrentibus, subdistantibus, inæqualibus, pallidis, lanceolatis; sporis oblongis, basi apiculatis, hyalinis, 6-7 \approx 3 μ .

Hab. ad folia putrida, Kamerun (ZENKER et STAUDT).

7. **Marasmius favoloides** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 99. — Pileo membranaceo, convexo-explanato, centro subumbonato, striato-venosulo, levi, pallide lilacino, margine tenui, 1 1/2-2 cm. diam.; stipite corneo, fistuloso, gracili, levi glabroque, interdum contorto, brunneo, superne pallido, 2 1/2-7 cm. longo, 1 mm. crasso; lamellis adnatis, interdum decurrentibus, angustis, subdistantibus, undulatis, venoso-reticulatis, anastomosantibus, pallidis; sporis ellipsoideis, hyalinis, 5-6 \approx 3-4 μ .

Hab. ad folia putrida, Kamerun (ZENKER et STAUDT).

8. **Marasmius atro-albus** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 98. — Pileo tenui membranaceo, campanulato, centro depresso, radiatim sulcato v. subplicato, nudo, niveo, 1-1 1/2 cm. diam.; stipite setiformi, fistuloso, corneo, atro v. atrobunneo, apice incrassato, levi glabroque, subnitenti, 2 1/2-3 1/2 cm. longo, 1/4-1 mm. crasso; lamellis postice in collarium conjunctis, adnatis, 14-18, valde distantibus, subæquilongis, interdum anastomosantibus angustissimis, albis; sporis ovoideis, 3-4 \approx 3 μ .; basidiis clavatis.

Hab. ad ligna putrida, Kamerun (ZENKER et STAUDT).

9. **Marasmius Zenkeri** P. Henn. Fungi camerun. I, in Engl. Jahrb. 187
XXII, 1895, p. 98. — Gregarius; pileo submembranaceo-carnoso,
convexo-plano, umbonato, radiato-sulcato subplicatoque, 3-7 cm.
diam., violaceo-cinereo, umbone subcyaneo, brunneolo, margine
tenui, subrependo; stipite gracili, interdum contorto, usque ad 17
cm. longo, 2-4 mm. crasso, tereti, fistuloso, glabro levique, sub-
nitenti, flavo-brunneo, basi subincrassato, pallide tomentoso; lamel-
lis valde distantibus, postice ventricosis, ad marginem angustiori-
bus, inæquilongis, adnexis, non decurrentibus, subconcoloribus.

Hab. ad ligna et folia putrescentia, gregatim, Kamerun (ZENKER et STAUDT). — Edulis.

10. **Marasmius discoideus** P. Henn. Fungi camerun. I, in Engl. 188
Jahrb. XXII, 1895, p. 96. — Pileo campanulato disciformi-ex-
planato, 2 mm. diam., radiato-sulcato, ruguloso, centro depresso
umbilicato venoso, sulcato, albido; lamellis paucis, 6-8, triquetris,
postice conjunctis, latis, valde distantibus, undulatis, crassis, pal-
lidis; stipite setiformi, corneo, nigro, nitente 1-2 cm. longo, levi
glabroque.

Hab. inter folia putrescentia in silvis, Kamerun (ZENKER et STAUDT).

11. **Marasmius Dusenii** P. Henn. Fungi camerun. I, in Engl. Jahrb. 189
XXII, 1895, p. 100. — Pileo membranaceo, convexo-planiusculo,
vinoso, centro umbilicato atrosanguineo, radiato-striato, setis longis
obscurioribus, adpressis tecto, margine radiato-ciliato, 2-3 1/2 mm.
diam.; stipite gracili, setiformi, torto, compresso, fusco-brunneo,
villosa, 3-4 cm. longo, vix 0,5 mm. crasso; lamellis liberis, plus
minus confertis, subventricosis, pallidis; sporis subglobosis v. elli-
psoidæis, 5-6 × 4-5; cystidiis clavatis.

Hab. ad petiolos et alia fragmenta vegetabilia, Kamerun.

12. **Marasmius conico-papillatus** P. Henn. Fungi camerun. I, in Engl. 190
Jahrb. XXII, 1895, p. 100. — Pileo membranaceo, campanulato-
convexo, dein explanato, centro umbilicato-papillato, papilla conico-
subacuta, atrobrunnea, radiato-sulcato, albo, 2-3 mm. diam.; la-
mellis collario libero, distantibus, 6-8, latis, pallidis; stipite setiformi,
tenaci, glabro, brunneo, nitido, 3-5 cm. longo; mycelio setiformi
concolori.

Hab. ad folia putrida, Kamerun.

13. **Marasmius Friesianus** P. Henn. Fungi camerun. I, in Engl. 191
Jahrb. XXII, 1895, p. 100. — Pileo membranaceo, campanulato,
medio umbilicato-papillato, papilla punctiformi, atra, sulcato-pli-

cato, rufo-brunneo, 2-4 mm. diam.; stipite corneo, fistuloso, filiformi, brunneo v. atro-brunneo, levi glabroque, basi subincrassato atro, circ. 2 cm. longo; lamellis subliberis, æquilongis, distantibus, 10-20, latis, albidis; sporis oblique ovoideis, basi apiculatis, 1-3-guttulatis, hyalinis, 9-11 \times 6-8 μ .

Hab. ad truncos putres, Kamerun (DUSÈX, ZENKER et STAUDT).

14. **Marasmius roseolus** P. Henn. Fungi camerun. I, in Engl. Jahrb. 192
XXII, 1895, p. 98. — Pileo membranaceo, campanulato, radiatim sulcato subplicatoque, centro venosulo, umbonato tomentosulopruinoso, margine repando, subcrenato, roseo, circiter 1½ cm. diam., stipite setiformi, corneo, atro-brunneo, levi glabroque, subfistuloso, 5-7 cm. longo, 1 mm. crasso; lamellis annulari-adnatis, valde distantibus (10-15), latis, ventricosis, subæqualibus, sinuoso-crenatis, pallidis; sporis ellipsoideis, hyalinis, basi apiculatis, 7-8 \times 4-5 μ .

Hab. ad ligna putrescentia, gregatim, Kamerun (ZENKER et STAUDT). — *M. rhodocephalo* affinis, sed differt pileo tomentosulo et colore.

15. **Marasmius subrhodocephalus** P. Henn. Fungi camerun. I, in Engl. 193
Jahrb. XXII, 1895, p. 97. — Pileo membranaceo, campanulato, flavo-rufo, obscuriore striato, radiato-sulcato subplicatoque, centro venuloso, interdum subumbonato v. subdepresso, 1-2 cm. diam.; stipite setiformi, fistuloso, tereti, atro-brunneo, levi glabroque, subnitenti, apice incrassato, 3-4 cm. longo, ca. 1 mm. crasso; lamellis annulari-adnatis, valde distantibus, paucis (12-16) æquilongis, ventricosis, pallidis; basidiis clavatis; sporis subglobosis, hyalinis.

Hab. ad ligna putrida, Kamerun (ZENKER et STAUDT).

16. **Marasmius Staudtii** P. Henn. Fungi camerun. I, in Engl. Jahrb. 194
XXII, 1895, p. 97. — Pileo campanulato, centro umbilicato, subpapillato, levi, flavo, radiato-sulcato plicatoque, flavo-cinereo, sulcis cyanescentibus, margine repando-undulato, tenui, atro, 1½-2 cm. lato; lamellis in collarium liberum postice conjunctis, latis lanceolatis, distantibus, cinereo-flavescentibus, inæquilongis; stipite gracili, corneo, levi glabroque, atro-brunneo-fistuloso, basi bulbilloso, griseo-tomentoso, 5-6 cm. longo, 1 mm. crasso.

Hab. in silvis, Kamerun. (ZENKER et STAUDT). — Var. **pallida** P. Henn. l. c. — Pileo griseo-pallido, stipite flavo-brunneo. — In Kamerun.

17. **Marasmius melanopus** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 195
1895, p. 36, tab. 1, fig. 2. — Pileo membranaceo, convexo, glabro

non striato, purpureo-griseo; stipite gracili, cavo, glabro levique, nigro, nitido; lamellis adnatis, subdistantibus, latis, purpureo-griseis; sporis obovoideis, apiculatis, $5-6 \approx 2\frac{1}{2}$.

Hab. in foliis vetustis insititius, Ohio Amer. bor. — Pileus 4-6 mm. diam.; stipes 2-4 cm. longus.

18. **Marasmius rhodocephalus** Fr.-Sacc. Syll. V, p. 552. — Var. **major** 196
P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 97.
— Pileo campanulato, vertice umbonato, radiato-sulcato, margine repando, 15-18 mm. diam., violaceo-incarnato; lamellis in collarium liberum postice conjunctis, latis, lanceolatis, æquilongis, valde distantibus, pallidis; stipite setiformi, glabro, nitido, atro-brunneo, 4-5 cm. longo.

Hab. in foliis, caulibus etc. putridis, Kamerun (DUSEN).

19. **Marasmius cantharelloides** P. Henn. Hedw. 1897, p. 207. — Pi- 197
leio tenuiter membranaceo, campanulato, explanato, radiato, sulcato, vertice venoso, ca. 2 cm. diametro, sicco subcoccineo; pedicello centrali, subcorneo, fistuloso, levi glabroque, subbrunneo, nigricante, ca. $3\frac{1}{2}$ cm. longo, ca. $\frac{1}{3}$ mm. crasso, interdum compresso subtortoque; lamellis pliciformibus, paucis (6-8), valde distantibus, adnatis, tenuibus, æquilongis, pallidis; sporis inconspicuis.

Hab. ad folia putrescentia Melastomacearum in silva pr. St. Catharina Brasilæ (ULE).

20. **Marasmius kroumirensis** Pat. Cat. rais. pl. cell. Tunisie. 1897, 198
p. 32. (*Androsaceus*). — Solitarius; pileo hemisphærico dein explanato, 1-2 mm. lato, leviter umbonato, fusco, tenui, opaco, 5-6 radiato-sulcato, ambitu sinuato, cute pilei ex cellulis subglobosis, fuscis, 7-10 μ . altis, verrucosis composita; lamellis albidis, tenuibus, distantibus, paucis (7-8), utrinque acutis, stipite adnatis, æqualibus; stipite tereti, filiformi, rigido, 7-12 mm. longo, glaberrimo, brunneo-rufescenti.

Hab. in foliis deciduis putridis in Tunisia. — *M. Buxi* Fr. et *M. hygrometrico* Brig. affinis.

21. **Marasmius lilacino-striatus** P. Henn. Fungi camerun. I, in Engl. 199
Jahrb. XXII, 1895, p. 99. — Pileo-convexo-applanato, membranaceo, centro subcarnosulo lilacina zona pallidiore cincto, glabro-levique, radiatim lilacino-striato, interdum subruguloso, 1-2 cm. diam.; stipite fistuloso, subcorneo, tenaci, substriato, sæpe late compresso, rufo-brunneo, tomentosulo-pruinoso, $1\frac{1}{2}$ -4 cm. longo, 1-2 mm. crasso; lamellis sinuoso-adnatis, dense confertis, inæquilongis, subangustis, pallidis.

Hab. ad ligna putrida, Kamerun (ZENKER et STAUDT).

22. **Marasmius nocticolor** De Seyn. Rech. Champ. Congo fr. 1897, ²⁰⁰
1, p. 24, t. III, fig. 23-27. — Pileo membranaceo umbonato levi, fuligineo nigricante; stipite rigido, pleno, decolorante, 14-15 mm. alto; lamellis strictis confertis, inæqualibus, vix decurrentibus, decolorantibus; cystidiis fusiformibus; sporis non visis.

Hab. ad folia adjecta pr. Lambaréné in regione Kongolana gallica.

23. **Marasmius calopus** (Pers.) Fr.-Sacc. Syll. V, p. 525. — Var. ²⁰¹
jaluitensis P. Henn. Notizbl. Königl. Bot. Gart. u. Mus. Berlin. 1897, N. 7, p. 227. — Pileo membranaceo, lento, albedo, explanato centro depresso, brunneo, radiatim plicato-rugoso, margine tenui inciso, interdum crispulo, 1-3 cm. diam.; stipite corneo, subfistuloso, atro-brunneo, levi, glabro, curvulo, 1-2 cm. longo, 1-2 mm. crasso, basi pallide rufo, haud incrassato; lamellis sinuoso-adnatis, late ventricosis, interdum crispulis, albidis, basi venosis, distantibus, pallidis; sporis ovoideis, hyalinis, 4-5 μ . long.

Hab. ad ligna vetusta, Marshall-Inseln.

24. **Marasmius repens** P. Henn. Engl. Jahrb. XXIII, p. 548. — ²⁰²
Pileo membranaceo, convexo, explanato, centro depresso, levi glabroque, margine sinuoso-crenato, rufo-badio, 1-2 $\frac{1}{2}$ mm. diam.; lamellis coloratis, distantibus, paucis (6-8), ventricosis, pallidis; stipite setiformi, corneo, rigido, atro, glabro, subnitente, circ. 1 cm. longo, e mycelio repente rhizomorphaideo, rigidulo, atro, ramoso oriente.

Hab. inter folia decidua in Camerunia (ZENKER). — *M. trichorrhizo* similis.

25. **Marasmius Baumanni** P. Henn. Engl. Jahrb. XXIII, p. 548. — ²⁰³
Pileo membranaceo, convexo-explanato, pallide flavo, plicato, centro depresso-umbilicato, papillato, atro, 3-5 mm. diam.; stipite corneo, filiformi, rigido, brunneo, nitente, basi obscuriore, 0,5-2 cm. longo, 0,3 mm. crasso; lamellis coloratis, distantibus, paucis, acie subincrassatis, pallide flavescentibus; mycelio rhizomorphaideo, filiformi, castaneo.

Hab. in ramis putridis in Togo Afr. occ. (G. BAUMANN). — *M. Rotulæ* Fr. affinis.

26. **Marasmius gracillimus** P. Henn. Engl. Jahrb. XXIII, p. 548. ²⁰⁴
— Pileo campanulato explanato, tenui membranaceo, albo, radiatim striato, centro umbilicato, papilla atro-violacea ornato, 1-1 $\frac{1}{2}$ mm. diam.; stipite tenuissimo, capilliformi, torto, glabro, levi, pallide

brunneo, nitente, $1\frac{1}{2}$ - $2\frac{1}{2}$ om. longo; lamellis subcoloratis. distantibus, paucis (5-7), integris, angustis, pallidis; mycelio rhizomorphaideo, capillari, brunneo, nitente.

Hab. in foliis putridis in Togo Afr. occ. (G. BAUMANN). —
M. Friesiano P. Henn. affinis.

27. **Marasmius ornatus** P. Henn. Engl. Jahrb. XXIII, p. 548. — 205

Pileo membranaceo, campanulato, vertice subglabro v. venuloso, gilvo, plicato-sulcato, sulcis dichotomis atro-violaceis, costis pallidis subflavescentibus, margine undulato, subflavo, 1-2 cm. lato, $1-1\frac{1}{2}$ cm. alto; stipite corneo, fistuloso, gracili, flavo-brunnescenti, levi glabroque, subnitenti, basi strigoso-piloso, pilis rigidis, ferrugineis 4-5 cm. alto, $1-1\frac{1}{2}$ mm. crasso; lamellis subliberis v. postice adnatis, distantibus, inæquilongis, ventricosis, pallidis v. pallide-violaceis; sporis ellipsoideis, levibus, hyalinis, $6-7 \times 4-5$.

Hab. ad folia putrida in Camerunia (ZENKER).

28. **Marasmius cervinus** P. Henn. Engl. Jahrb. XXIII, p. 551. — 206

Pileo tenui, membranaceo, pellucido-cervino, convexo-explanato, medio depresso, subumbilicato, atro-brunneo, radiatim sulcato subplicatoque obscuriore, 9-12 mm. diam.; stipite corneo, fistuloso, brunneo, velutino-tomentoso, ad basim atro, 12-15 mm. longo, vix 1 mm. crasso; lamellis rotundato-adnatis, subdistantibus, inæquilongis, subventricosis; sporis non visis.

Hab. in ligno putrido et foliis deciduis in Camerunia (STAUDT).

29. **Marasmius subiculosus** Pat. Journ. de Bot. 1897, p. 338 (*Androsaceus*). — 207

Pileo convexo, 3-6 mm. diam., rubro, ruguloso, ad marginem striato, sicco tenui, pellicula e cellulis minutis rotundatis composita; lamellis distantibus, integris inæqualibusque, adnatis, albis; stipite filiformi, sicco, tenaci, griseo-brunneo, apice albo, toto albo-pulverulento, e mycelio albo membranaceo v. floccoso oriundo.

Hab. in ramulis putridis in Tonkin.

30. **Marasmius togoensis** P. Henn. Engl. Jahrb. XXIII, p. 551. — 208

Minutus; pileo campanulato-plano, orbiculari, 3-4 mm. diam., medio subdepresso, radiatim striato sulcatoque, rugoso, fusco; stipite tenui, corneo, brunneo-nigricanti, levi, $2-2\frac{1}{2}$ mm. longo; lamellis coloratis, distantibus, latis, griseis; sporis haud conspicuis.

Hab. in ramentis siccis in Togo Afr. occ. (BAUMANN).

31. **Marasmius plicatulus** Peck, Bull. Torr. Bot. Cl. 1897, p. 142. — 209

Pileo submembranaceo, convexo v. subcampanulato, glabro, sicco plerumque sulcato-striato, dilute castaneo v. vinoso-rubro; lamellis

subdistantibus, postice angustatis, adnexis, albidis; stipite gracili, cavo, supra glabro, nitido, nigrescenti-brunneo, apice rubro, basi villo vel tomento copioso albido tecto; sporis subellipticis uno fine apiculatis, alterum versus subattenuatis, $10\frac{1}{2}$ -13 \approx 5-6 $\frac{1}{2}$.

- Hab.* inter folia dejecta in California (Mc. CLATCHIE). — Pileus $1\frac{1}{2}$ -2 $\frac{3}{4}$ cm. latus; stipes $6\frac{1}{2}$ -13 cm. longus, circiter 3 mm. crassus.
32. **Marasmius albo-marginatus** Clem. Bot. Survey of Nebraska, IV, 210
Lincoln. 1896, p. 20. — Pileo minuto, solitario, membranaceo convexo, glabro, sulcato, purpureo, margine pallidiore; stipite nitido, glabro æquali, citrino; lamellis paucis, 7-8, adnatis, albis; basidiis 12-14 \approx 6-7; sporis 5 \approx 2-3, ovoideis.

Hab. ad terram umbrosam, Nebraska Amer. bor. — Pileus $1\frac{1}{2}$ mm. latus; stipes 1 cm. longus, $\frac{1}{2}$ mm. crassus.

33. **Marasmius auklandicus** P. Henn. Hedw. 1896, p. 304. — Pileo 211
tenui membranaceo subtranslucente, campanulato, vertice papillato, striato plicatoque pallido-flavescente 3-5 mm. diametro; stipite tenui, curvato tereti vel subcompresso pruinoso, basi disciformi, albo, villosa, radiante, 3-6 mm. longo, vix 0,5 mm. crasso, pallido; lamellis distantibus, paucis (8-12) in collarium postice conjunctis, acie crassis, pallidis; sporis globosis, levibus, hyalinis 6-7 μ .

Hab. in ramis putridis Ohampo Novæ Zelandiæ (HÆUSLER).

34. **Marasmius gregarius** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 212
p. 413. — Pileo submembranaceo, glabro, centro depresso v. late umbilicato, udo striatulo, badio v. pallide alutaceo, centro obscuriore; lamellis angustis, subdistantibus, adnatis, interdum ramosis, albidis; stipite brevi, gracili, inserto, cavo, flocculoso v. subpubescente, pallide badio, basin versus obscuriore; sporis subglobosis, fere 4 μ . latis.

Hab. gregarius ad lignum decorticatam, Kentucky, Amer. bor. — Pileus 1-1 $\frac{1}{3}$ cm. latus; stipes 1-2 cm. longus, 1 mm. crassus.

35. **Marasmius hirtipes** Clem. Bot. Survey of Nebraska IV, Lincoln. 213
1896, p. 21. — Pileo plano-convexo, membranaceo, vix umbilicato, leniter radiato-sulcato, glabro, fulvo; stipite elongato, filiformi, cavo, pilis albis v. fulvis obsesso, obscure rufo; lamellis subnumerosis, adnatis, linearibus, albis v. dilute luteis; sporis ellipsoideis, minute biguttulatis, 7 \approx 4.

Hab. in terra? in Nebraska Amer. bor. — Pileus 3-7 mm.; stipes 3-8 cm. longus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. crassus.

36. **Marasmius papillosus** Clem. Bot. Survey of Nebraska IV, Lincoln. 214
1896, p. 21. — Pileo conico-papillato, dein campanulato v. expla-

nato, membranaceo, striato glabro, ochroleuco v. ochraceo; stipite æquali, cartilagineo, superne pruinoso, inferne dense lanato, sordide albo v. ochroleuco; lamellis paucis, adnexis, albis; sporis ellipsoideis, 6×4 .

Hab. in lignis putrescentibus, Nebraska Amer. bor — Pileus $\frac{3}{4}$ - $1\frac{1}{2}$ cm. latus; stipes $1\frac{1}{4}$ - $2\frac{1}{2}$ cm. longus, 2 mm. crassus.

37. **Marasmius Quercus** Britz. Hymen. Kunde II, 1896, p. 7, fig. 50. 215

— Pileo non nitente, ochraceo-albo; lamellis subconfertis, subadnexis, interdum rotundatis v. liberis ochraceo-albis; stipite 3-6 mm. crasso, sursum albido, deorsum luteo-brunneo v. violaceo-brunneo et fibroso-piloso, plerumque tortuoso vel compresso; sporis oblongo-rotundis, utrinque piriformibus, 10-12 \times 4-6; odore alliaceo.

Hab. ad folia quercina in silvis Bavaria.

38. **Marasmius Englerianus** P. Henn. Pilze Ostaf. p. 59. — Pileo 216

tenui, carnosulo-membranaceo, convexo-explanato, centro umbilicato v. umbonato, glabro levique, flavo-rubro v. aurantiaco, radiato-substriato, $1\frac{1}{2}$ -3 cm diam., margine tenui integro; stipite farcto, striato, basi subbulboso, flavo-ochraceo, velutino, 2-3 cm. longo, 2-4 mm. crasso; lamellis distantibus, adnatis subdecurrentibus, latis ventricosis, rufo-brunneis; sporis ellipsoideis, hyalinis, levibus, 6-8 \times 4-5.

Hab. ad truncos in Africa tropica (HOLST).

39. **Marasmius Volkensii** P. Henn. Pilze Ostaf. p. 59. — Pileo car- 217

nosulo, convexo-explanato, dein subumbilicato, subumbellifero v. centro depresso, orbiculari, pallido, levi glabroque, interdum subsulcato, 1-2 cm. diam.; stipite sæpe subclavato, fistuloso, tenaci, subfibroso, concolori, basi fusco sublignoso, radicanti, 1- $1\frac{1}{2}$ cm. alto, circiter 2 mm. crasso; lamellis decurrentibus, distantibus, latis, crassiusculis, flexuosis, venosis, pallidis; sporis subellipsoideis v. ovoideis, uniguttulatis, subhyalinis, 5-6 \times 4-5.

Hab. ad terram udam graminosam in Africa tropica (VOLKENS).

— *M. decurrenti* Mont. affinis.

40. **Marasmius maranguensis** P. Henn. Pilze Ostaf. p. 59. — Pileo 218

carnosulo, tenaci, obeonico-campanulato, dein explanato, subrimoso, vertice obtuso, glabro, levi, 1- $1\frac{1}{2}$ cm. lato, albo; stipite gracili interdum contorto flexuosoque, subsulcato, concolori, farcto, 3-5 cm. longo, 2 mm. crasso, basi vix incrassato; lamellis liberis, confertis, semilanceolatis, subæqualibus, pallidis; sporis oblique ellipsoideis v. ovoideis, hyalinis, intus subgranulatis, 5-6 $\frac{1}{2}$ \times 4 $\frac{1}{2}$ -5 $\frac{1}{2}$; basidiis clavatis.

Hab. ad terram hortorum in Africa tropica (VOLKENS). — *M. globulari* Fr. affinis. — Edulis.

41. **Marasmius badiceps** Peck, Bull. Torr. Bot. Cl. 1897, p. 142; *Mu-* 219
rasmius badius Peck, Bull. Torr. Bot. Cl. 1895, p. 487 nec B. et C.
 — Pileo tenui convexo, 6-13 cm. lato, giabro, badio v. rubro-brunneo; lamellis angustis, subdistantibus, adnatis, albidis; stipite glabro, cavo, circiter 2½ cm. longo, 2 mm. crasso, nigro-brunneo; sporis late ellipticis, 5 × 3.

Hab. ad frustula uda dejecta, Kansas Amer. bor. (BARTHOLOMEW).

42. **Marasmius subtomentosus** Peck, Bull. Torr. Bot. Cl. 1895, p. 487. 220
 — Pileo tenui, primo subcampanulato, dein convexo v. subplano, margine vix striato, minute tomentosopubescente, griseolo v. rubro-griseo; lamellis latis, subdistantibus, liberis v. vix adnexis, ventricosis, colore pilei; stipite æquali v. basim versus leviter incrassato, inserto, sericeo-tomentoso, griseolo v. griseolo-brunneo, intus albo; sporis 10-13 × 5-6½.

Hab. ad radices graminum in sabulosis, Kansas Amer. bor. (BARTHOLOMEW). — Pileus 1-2 cm. latus; stipēs fere 2½ cm. longus, 2 mm. crassus.

43. **Marasmius Hungo** P. Henn. Fungi camerun. I, in Engl. Jahrb. 221
 XXII, 1895, p. 98. — Pileo submembranaceo, convexo-explanato, subumbonato, sulcato plicatoque, subruguloso, levi, subflavo, 3-4 cm. diam.; stipite subcavo, tereti, striato, interdum contorto, levi glabroque, 2½-4 cm. longo, 1½-3 cm. crasso, basi vix incrassato; lamellis postice adnexis, decurrentibus, late ventricosis, subconfertis, tenuibus, subflavis.

Hab. ad ligna putrida, Kamerun (ZENKER et STAUDT). Edulis.

44. **Marasmius Cyathula** P. Henn. Fungi camerun. I, in Engl. Jahrb. 222
 XXII, 1895, p. 96. — Pileo tenui, membranaceo, cyathiformi v. infundibuliformi, dense radiato-striato subsulcatoque, levi, 5-10 mm. lato, griseo-brunneo; lamellis subannulato-adnatis, postice conjunctis, subconfertis, angustis, inæquilongis, pallidis; stipite farcto, pallido, dein brunneo, griseo-tomentoso, 10-15 mm. longo, ½ mm. crasso; sporis subglobosis, subhyalinis, minute flavescentibus, 4-5 µ.

Hab. ad folia putrescentia in silvis, Kamerun (ZENKER et STAUDT).

45. **Marasmius palmicola** P. Henn. Fungi camerun. I, in Engl. Jahrb. 223
 XXII, 1895, p. 102. — Pileo carnoso-membranaceo, plano depressove, obtuso, subplicato, striato, rugoso, margine tenui undulato, subrepando denticulatoque, primo griseo centro obscuriore, dein

pallido, $\frac{1}{2}$ -2 cm. diam.; stipite fistuloso, sæpe compresso, glabro levique, postice sæpe incrassato, flexuoso, subcurvato, pallido, basi subincrassato, flavo-brunneo v. subaurantio, tomentosulo; lamellis adnatis, subdistantibus, inæquilongis, latis, sæpe flexuosis, albidis; sporis oblique ovoideis, apiculatis, hyalinis, uniguttulatis, 7-8 \times 4-5 μ .; basidiis clavatis.

Hab. ad truncos putres, Kamerun (DUSÈN). — Var. **grisea** P. Henn. l. c. — Pileo cinereo, centro flavo-brunneo; stipite griseo, basi flavido; lamellis cinereis. Ad truncos putres, Kamerun (DUSÈN).

46. **Marasmius alliacioides** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 95. — Pileo tenui, membranaceo, tenaci, subconvexo explanato, albo, vertice subpruinoso, margine radiato-striato, 10-15 mm. diam.; lamellis subliberis, confertis, angustis, inæquilongis, pallidis; stipite subcompresso, pallido, dein brunneo, griseo-pruinoso v. subtomentosulo, 10-15 mm. longo, vix $\frac{1}{2}$ mm. crasso.

Hab. ad folia putrescentia, Kamerun (DUSÈN).

47. **Marasmius citrinus** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 96. — Pileo explanato, nummulariiformi, applanato-rotundato, centro subpapillato levi, glabroque, ca. 1 cm. diam. citrino; lamellis dense confertis, adnatis, angustis, inæquilongis, concoloribus; pedicello subcompresso, pruinoso, levi, citrino, 1 cm. longo, 1 mm. crasso.

Hab. ad ramos putrescentes in silvis, Kamerun (ZENKER et STAUDT).

48. **Marasmius congoanus** Pat. Bull. Soc. Myc. de France, 1895, p. 85. — Pileo rubro, sessili, pendulo, orbiculari, 3-3 mm. diam., primo tomentosulo, dein glabrescente, sulcato-pectinato; hyphis superficialibus, 4-5 μ . crassis, tenacibus, luteolis, valde elongatis; lamellis distantibus, inæqualibus, pallidioribus, glabris; cystidiis nullis.

Hab. ad ramos emortuos in regione Kongolana gallica (DYBOWSKI).

49. **Marasmius eligmophyllus** De Seyn. Rech. Champ. Congo fr. 1897, I, p. 22. — Pileo applanato, margine revoluta, membranaceo, pellucido, sordescente, secundum lamellas leviter striato, 7-8 mm. lato; stipite filiformi, plano, sordescente pallido, demum obscuriori, 18 mm. alto; lamellis liberis a stipite discretis, sed non collariatis, inæqualibus, distantibus, sinuosis, simulate ramosis; hymenio basidiis oblongis; cystidiis magnis, exsertis, mammiformibus, 40 μ . latis, instructo; sporis hyalinis, ovoideis, 3-5 μ . long.

Hab. ad ramenta putrescentia pr. Talagouga in regione Kongolana gallica.

50. **Marasmius hymenofallax** De Seyn. Rech. Champ. Congo fr. 228 1897, I, pag. 18, tab. I, fig. 12-17. — Pileo membranaceo pellucido, umbonato expanso, levi, ochraceo et in exsiccatō fuscescēte, margine integro vix striatulo, 6-7 mm. lato; stipite levi, a mycelio albo araneoso parco orto, ochraceo, apice expallente, basi fuscescēte, cavo, 7-9 mm. longo; lamellis albicantibus, pliciformibus, versus marginem pilei attenuatis, adnatis, subdistantibus, paucis incompletis cum integris anastomosantibus; hymenio cystidiis fusiformibus et cellulis oblongis levibus aut apice penicillatis latice flavescēte impletis instructo, basidiis veris sporisque nullis.

Hab. ad ramos dejectos p. Lambaréné in regione Kongolana gallica.

51. **Marasmius pahouinensis** De Seyn. Rech. Champ. Congo fr. 229 1897, I, pag. 12. — Pileo campanulato, conico, levi, margine recto tenui subinvolutō, castaneo-lateritio, 1 cm. alto, 1½ cm. crasso; stipite recto, levi, farcto, a basi sensim ad apicem attenuato, umbrino, sursum pallescente, roseo, 7 cm. longo, 2 mm. basi, 1 mm. apice crasso; lamellis confertis, rectis, inaequalibus, liberis, ad pilei marginem attenuatis, roseo-carneis; hymenio sterili.

Hab. ad folia et ramenta putrescentia pr. Talagouga in regione Kongolana gallica.

52. **Marasmius pandanicola** P. Henn. Notizbl. Königl. Bot. Gart. u. Mus. Berlin, 1897, N. 7, p. 228. — Pileo membranaceo, convexo-explanato, centro depresso, radiatim sulcato, levi, pallido, 2-3½ cm. diam., margine tenui, integro v. subcrenato; stipite subexcentrico, fistuloso, tereti, striatulo, levi, 1-1½ cm. longo, 1-2 mm. crasso, basi discoideo-incrassato, tomentosulo, pallido, curvato; lamellis adnatis, inaequilongis, distantibus, subventricosis, basi anastomosantibus, acie integris albis; sporis ellipsoideis vel ovoideo-ellipticis, basi oblique apiculatis, hyalinis, intus punctatis, 7-8½ × 4-5 μ., levibus; basidiis clavatis, 15-20 × 8-9.

Hab. ad truncos Pandani, Marshall-Inseln. — *M. Vaillantii* Fr. affinis.

53. **Marasmius petalocladus** De Seyn. Rech. Champ. Congo fr. 1897, 231 I. p. 23. — Pileo membranaceo expanso, sulcato, levi, centro umbilicatulō, margine denticulato, flavo pallescente decolorante, 5-6 mm. lato; stipite gracili, recto, glabro nitente, cavo, aequali, ochroleuco pallescente, 2-2½ cm. longo; lamellis albis, distantibus,

attingentibus anastomosantibus. plicis transversalibus conjunctis; cystidiis nullis; basidiis curtis; sporis parvis, pellucidis, ovoideis.

Hab. ad terram? pr. Lambaréné in regione Kongolana gallica.

54. **Marasmius pygmæus** P. Henn. Engl. Jahrb. XXIII, p. 548. — 232

Pileo membranaceo, campanulato-explanato, centro subdepresso, flavo, radiato-striato, levi, 2-3 mm. diam., gilvo; stipite capillari, cartilagineo, farcto, farinoso, subaurantiaco, 2 $\frac{1}{2}$ -3 $\frac{1}{2}$ mm. longo; lamellis adnatis, distantibus, ventricosis, flavescentibus.

Hab. in ramis putridis in Togo Afr. occ. (G. BAUMANN).

55. **Marasmius jodocodos** P. Henn. Engl. Jahrb. XXIII, p. 549. — 233

Pileo subovato-campanulato, membranaceo, vertice carnosulo, applanato, levi, glabro, atro-violaceo, radiatim sulcato-plicato, costis medio usque ad marginem dichotomo, margine crenato, undulato, 2 cm. alto latoque, lilacino; stipite compresso v. subtereti, torto, gracili levi glabroque, fistuloso, tenui, flavo-brunnescente, basi incrassato, circiter 10 cm. longo, 3-4 mm. crasso; lamellis liberis, subdistantibus, ventricosis, pallide lilacinis; sporis ellipsoideis, hyalinis, levibus, 6-8 \approx 3-4.

Hab. in foliis deciduis in Camerunia (ZENKER).

56. **Marasmius subviolaceus** P. Henn. Engl. Jahrb. XXIII, p. 549. 234

— Pileo tenui-membranaceo, convexo, vertice glabro levique, interdum depresso, radiatim striato sulcatoque, pallide violaceo, 3-5 mm. diam.; stipite fistuloso, subcorneo, gracili, striato, subconcolore, 3-7 cm. longo, 2-3 mm. crasso, basi subincrassato; lamellis adnatis, subconfertis, pallidis; sporis ellipsoideis, levibus, hyalino-subflavescentibus, 6-8 \approx 3 $\frac{1}{2}$ -4.

Hab. in ligno emortuo in Camerunia (ZENKER).

57. **Marasmius violaceus** P. Henn. Engl. Jahrb. XXIII, p. 549. — 235

Pileo tenui-membranaceo, convexo-campanulato, vertice interdum applanato, radiato-striato, levi, glabro, 4-10 cm. diam., margine tenui, pulcre violaceo; stipite tereti, firmo, farcto, æquali, levi glabroque, violaceo, 3-5 cm. longo, 3 mm. crasso; lamellis adnatis, decurrentibus, sublanceolatis, subconfertis, basi interdum anastomosantibus, violaceo-subflavescentibus; sporis subglobosis, levibus, 3-5 μ . diam.

Hab. inter folia decidua in Camerunia (ZENKER). — Sapor gratus.

58. **Marasmius Patouillardii** Sacc. et Syd. *Marasmius nigripes* Pat. 236

Journ. de Bot. 1897, p. 337, nec Schw. — Pileo albo, subglobuloso dein plano, tenui, membranaceo, striato, $\frac{1}{2}$ -2 $\frac{1}{2}$ cm. lato, opaco; sti-

pite gracili, 1 mm. crasso, $1/2$ - $1\frac{1}{2}$ cm. longo, subexcentrico, tenaci, nigro, sed albo-pruinato; lamellis non confertis, albis, subdecurrentibus, angustis, una alterave breviora immixta, non venoso-connexis; sporis hyalinis levibus, ovoideis, $7 \approx 5$ -6, guttula nitida præditis.

Hab. in ramulis putridis in Tonkin.

63. **Marasmius grandisporus** P. Henn. Engl. Jahrb. XXIII, p. 550. 237

— Pileo membranaceo-carnosulo, convexo-plano, levi, glabro, subplumbeo-cinerecente, 4-6 cm. diam., margine tenui obsolete striato crenatoque; stipite tereti, æquali, farcto, subfimbriato, pallido, 3-6 cm. longo, circiter 3 mm. crasso, basi subincrassato, subdiscoideo; lamellis adnatis, haud decurrentibus, subconfertis, ventricosis, crassis, pallidis; sporis levibus, subhyalinis, 18-21 μ ., intus granulosis; basidiis oblongo-clavatis, 30-40 \approx 18-32; sterigmatibus 2-4, subulatis, subcurvatis, 9-11 \approx 4.

Hab. in ligno in Camerunia (STAUDT).

64. **Marasmius pallidus** P. Henn. Engl. Jahrb. XXIII, p. 550. — 239

Pileo membranaceo, convexo-plano, centro umbonato, depresso, levi, glabro, albido, subcinerecente, 5 mm. ad $2\frac{1}{2}$ cm. diam.; stipite farcto, tenaci, tereti, levi, glabro, ad basim subclavato, sæpe curvato, pallido, 1-3 cm. longo, 2-3 mm. crasso; lamellis subconfertis, aduatis, decurrentibus, pallidis, angustis; sporis ellipsoideis, hyalinis, levibus, 1-guttulatis, 5-6 \approx $3\frac{1}{2}$ -4.

Hab. in ligno emortuo in Camerunia (ZENKER).

65. **Marasmius rufus** P. Henn. Engl. Jahrb. XXIII, p. 550. — 239

Pileo membranaceo-carnosulo, semiglobato v. campanulato, margine involuto, striato, levi, glabro, rufo, $1\frac{1}{2}$ -4 cm. diam.; stipite farcto, firmo, tereti, torto, levi, glabro, concolori, 3-6 cm. longo, 3-5 mm. crasso; lamellis sinuoso-adnatis haud confertis, lanceolatis, pallidis; sporis ellipsoideis, levibus, hyalinis, subfuscidulis, 7-8 \approx 4-5.

Hab. in foliis deciduis in Camerunia (ZENKER).

66. **Marasmius subcastaneus** P. Henn. Engl. Jahrb. XXIII, p. 550. 240

— Pileo membranaceo, campanulato-explanato, dein centro depresso, radiatim striato sulcatoque, margine tenui, interdum crenato-repando, $1\frac{1}{2}$ - $4\frac{1}{3}$ cm. diam., castaneo; stipite corneo, subfistuloso, badio v. atro, subcompresso, strigoso-tomentoso, æquali, tenui, circiter $1\frac{1}{2}$ - $2\frac{1}{2}$ cm. longo, 2-3 mm. crasso; lamellis adnatis, inæquilongis, subflexuosis, angustis, subconfertis, pallide badiis; sporis late ellipsoideis, 6-8 \approx 5-7, levibus, hyalino-subfuscidulis.

Hab. in ramis emortuis in Camerunia (ZENKER).

67. **Marasmius bipindeensis** P. Henn. Engl. Jahrb. XXIII, p. 549. — 241

Pileo membranaceo, convexo-explanato, dein centro depresso, radiato-striato, isabellino, levi, 2-5 cm. diam.; stipite gracili, tenui, subcorneo, fistuloso, tomentosulo, ferrugineo, 4-10 cm. longo, 2 mm. crasso, æquali; lamellis adnatis, subconfertis, angustis, flavofuscidulis.

Hab. in foliis emortuis in Camerunia (ZENKER).

68. **Marasmius Sacchari** Wakker, Centralb. f. Bact. u. Par. II, 242

Abth. 1896, I, p. 44, c. fig. — Gregarius v. basi fasciculatus, variabilis, carnosomembranaceus, persistens; pileo albo, late campanulato, dein sordide albo, plano v. cupuliformi 15 mm. diam.; lamellis albis, simplicibus v. bifurcatis; stipite centrali, albo, 15 mm. longo apice tubiformi basi villosulo; hyphis albis; sporis hyalinis, continuis, irregulariter oblongis, utrinque attenuatis, rotundatis, 16-20 \times 4-5.

Hab. in caulibus vivis Sacchari officinarum parasitans in Java.

69. **Marasmius plicatus** Wakker, De Ziekten van het Suikerriet op 243

Java, Leiden, 1898, p. 195. — Minutus, gregarius, persistens; pileo late campanulato cum excavatione centrali, plicato, membranaceo, brunneo, margine dilute ochraceo; stipite centrali filiformi, atro 1,2 cm. longo; hyphis albidis; lamellis paucis (7), simplicibus, membranaceis, dilute ochraceis; sporis continuis, hyalinis, ovoideis, basi acutis, apice rotundatis 6-8 \times 4-5.

Hab. in foliis mortuis siccis Sacchari officinarum etiam in Bambusæ in Java.

70. **Marasmius discipes** P. Henn. Fungi camerun. I, in Engl. Jahrb. 244

XXII, 1895, p. 101. — Pileo subexcentrico, ad stipitem ex obliquo verticali, carnosulo-membranaceo, convexulo-applanato, rotundato, medio papillato, zonato, margine substriato, plus minus repando v. sinuoso, 5-11 mm. diam., albido; stipite concolori, levi, glabro, 4-9 mm. longo, basi disciformi, radiato-fibroso; lamellis adnatis, non decurrentibus, inæquilongis, confertis, angustis, pallidis; sporis cylindræo-oblongis, hyalinis, levibus, 1-2-guttulatis, 4-6 \times 1 $\frac{1}{2}$ -2 μ .

Hab. ad truncos putres, Kamerun (DUSÉN).

71. **Marasmius excentricus** P. Henn. Fungi camerun. I, in Engl. 245

Jahrb. XXII, 1895, p. 101. — Pileo membranaceo, subcarnosulo, campanulato, dein concavo, applanato, medio depresso, striato-sulcato, levi, albido, usque ad 1 $\frac{1}{2}$ cm. diam.; stipite excentrico, brevi, curvato, concolori, glabro, levi, basi subbulbiloso, albo-tomentoso,

5-8 mm. longo, 0,5 mm. crasso; lamellis adnatis, omnino inæquilongis, subflexuosis, subdistantibus, pallidis; sporis oblique ovoideis, apiculatis, hyalinis, uniguttulatis, subgranulatis, 7-8 \times 4-5 μ .

Hab. ad truncos putres, Kamerun.

72. **Marasmius cyphelloides** P. Henn. Hedw. 1897, p. 207. — Pileo 246 minutissimo, membranaceo, subgloboso-campanulato, squamis candidis, sericeis, adpressis, setiformibus, 3-3 $\frac{1}{2}$ μ . crassis, nec ramosis, nec septatis tecto, margine involuto, fimbriato, 0,5-1 mm. diametro; stipite subcentrali vel laterali, subcorneo, recurvato, rufo-badio, 0,5 mm. longo; lamellis adnatis, distantibus, subventricosis, pallidis; sporis subglobosis, hyalino-flavidulis, levibus, 5-6 .

Hab. ad ramos siccos, pr. Itajahy Brasilæ (ULE.). — Habitu externo *Cyphellam villosam* optime simulat.

73. **Marasmius paradoxus** P. Henn. Fungi camerun. I, in Engl. 247 Jahrb. XXII, 1895, p. 101. — Pileo subresupinato pleuropodostipitato, membranaceo, reniformi explanato-convexo, striato, plicato, ruguloso, 5-11 mm. diam., flavo-brunneo; stipite brevi, curvato, arcuato, excentrico, 1-3 mm. longo, corneo, atro-nitenti, levi glabroque; lamellis adnatis, paucis, 6-12, angustis, crassiusculis, distantibus, inæquilongis, concoloribus; sporis subglobosis, granulatis, hyalino-flavescentibus, 7-8. μ . diam.

Hab. in ramis putridis in Camerunia (P. DUSEN).

74. **Marasmius sessilis** Pat. Bull. Soc. Myc. de Fr. 1896, p. 132. — 248 Pileo reniformi, membranaceo, tenui, resupinato, demum reflexo, puncto dorsali excentrico adfixo, levi, fusco-badio, 8-15 mm. lato, vix $\frac{1}{2}$ mm. crasso, pellicula ex cellulis erectis, claviformibus, 23-30 \times 10 μ ., inferne levibus, hyalinis, superne fuscis, grosse obtuseque corniculatis composita tecto; stipite nullo; hymenio albido v. pallidissime fuscidulo; lamellis 4-6, distantibus, 1 mm. latis, glaberrimis, rectis v. crispatis, interstitiis venoso-reticulatis; basidiis claviformibus, 25-30 \times 6-8 μ .; cystidiis nullis; sporis hyalinis, ovoideis, deorsum attenuatis, 6-8 \times 4-5.

Hab. ad ramulos emortuos, Tonkin (BOX).

75. **Marasmius auriformis** P. Henn. Hedw. 1897, p. 206. — Pileo 249 subresupinato, sessili, lateraliter affixo, subcampanulato, auriformi, pallido, glabro, levi, subpruinoso, ca. 12 mm. diam.; lamellis centro papilla subvelutina ornatis, radiantibus, inæquilongis, subdistantibus, acie incrassatis; sporis ovoideis v. subglobosis, basi apiculatis, levibus, hyalinis, 7-8 \times 5-6.

Hab. ad ramos putrescentes pr. Blumenau Brasilæ (MÖLLER).

76. **Marasmius pleurotoides** P. Henn. Engl. Jahrb. XXIII, p. 551. 250
 — Pileo tenui membranaceo, sessili, lateraliter affixo, spathulato, convexo, 3-4 mm. longo, 3-4 mm. lato, subsulcato, albo, levi; lamellis distantibus, paucis, ad basim decurrentibus, latis, albis, interstitiis subvenosis.
Hab. in ramis in Togo (BAUMANN). — *M. nidulo* Berk. affinis. 251
77. **Marasmius crispus** P. Henn. Engl. Jahrb. XXIII, p. 551. —
 Pileo tenui membranaceo, resupinato, lateraliter affixo, suborbiculari, explanato, radiatim sulcato subplicato, transverse rugoso, crispo, niveo, 1½-2 cm. longo latoque, basi interdum breviter stipitato; stipite recurvo, pallido, villosa, basi subatro; lamellis decurrentibus, distantibus, latis, ventricosis, venoso-anastomosantibus crispis, pallidis; sporis subglobosis, 4-5 μ .
Hab. in ramis emortuis in Togo (BAUMANN).
78. **Marasmius Spegazzinii** Sacc. et Syd. Sic nominandus est *Marasmius* 252
Balansæ Speg.-Sacc. Syll. XI, p. 35-, quum exstet anterior *M. Balansæ* Pat.
79. **Marasmius Wettsteinii** Sacc. et Syd. Sic nominandus est *Marasmius* 253
tenerrimus Wettst.-Sacc. Syll. IX, p. 69-, quum exstet præcedens *M. tenerrimus* Berk. et Curt.
80. **Marasmius Curtisii** Sacc. et Syd. Sic nominandus est *Marasmius* 254
hæmatodes Berk. et Curt.-Sacc. Syll. V, p. 568-, quum exstet anterior *M. hæmatodes* Berk., Sacc. Syll. V, p. 529.
- Phæomarasmius** Scherff. Hedw. 1897. p. 287 est, etiam sec. cl. Bresadola et P. Hennings, *Naucoria rimulincola* Lasch.

LENTINUS Fr. — Syll. V, p. 571, IX, p. 71, XI, 39.

1. **Lentinus castaneus** Ell. et Macbr. Bull. Lab. Nat. Hist. Iowa, III, 255
 n. 4, 1896, p. 194. — Pileo sinuato-depresso, centro cupulato; margine late revoluto persistenter velutino, radiato-striato; stipite firmo, solido, sursum gradatim dilatato, 4-5 cm. longo, basi 5-6 mm., summo apice 9-10 mm. crasso, dense velutino, castaneo, intus albo; lamellis castaneis, vix densis, plerumque æqualibus v. basi ramosis, marginem versus pilei interdum brevioribus, non denticulatis nec incis, vix decurrentibus.
Hab. ad caudices emarcidos in Nicaragua. — *L. Mepharoti* proximus.
2. **Lentinus magnus** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 413. 256
 — Pileo crasso, duro, convexo, centro subdepresso, glabro, sordide albo, areolis v. squamis latis tecto, margine involuto; carne albida;

lamellis latis, densis, crassis, leviter decurrentibus, acie dentatis v. laceratis, pallidis; stipite firmo, dūro, solido, squamoso, basi subincrassato, colore pilei; sporis oblongo-ellipticis, $8 \approx 4$.

Hab. gregarius ad terram humosam, California (Mc CLATCHIE). — Pileus 16-20 cm. latus; stipes circiter 10 cm. longus, $2\frac{1}{2}$ -3 cm. crassus.

3. ***Lentinus Rivæ*** Bres. Ann. R. Ist. Bot. Roma, VI, 1896, p. 177. 257

— Pileo carnosu-coriaceo e convexo-umbilicato infundibuliformi, albo-sericeo, squamis innatis, fuscis ornato, glabrescente, 5-7 cm. lato; stipite centrali v. excentrico, furfuraceo v. squamuloso-rimoso, solido, 3-5 cm. longo, 8-10 mm. crasso, fibroso, interdum annulato, annulo infero, membranaceo; lamellis attenuato-decurrentibus, confertis, angustis, acie integra, albis; sporis cylindraceo-subcurvulis, hyalinis, $8 \approx 2\frac{1}{2}$.

Hab. ad ligna, Baroda Somaliæ (DR. RIVA). — Habitu valde *L. tigrino* accedit, a quo statura majore, compactiore, lamellis acie integris, stipite valde fibroso et sporis distinguitur. Caro stipitis ita fibrosa ut sectio longitudinalis videatur villosa ex fibris manifestis. In speciminibus siccis color pilei et stipitis alutaceus, lamellarum fulvo-ochraceus.

4. ***Lentinus Underwoodii*** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 258

p. 414. — Pileo carnosu, tenaci, convexo v. subplano, glabro, albedo, alutaceo v. pallide ochraceo, squamis areolatis, indistinctis, sæpe marginem versus evanidis; carne alba; lamellis modice confertis, decurrentibus, basi subconnexis v. anastomosantibus, acie subcrenatis, albidis, demum decoloribus; stipite firmo, duro, solido, excentrico, squamoso, colore pilei; sporis oblongis, 13-16 \approx 5-6 $\frac{1}{2}$.

— *Hab.* cæspitosus ad lignum *Quercus*, Alabama Amer. bor. (UNDERWOOD). — Pileus 8-16 cm. latus; stipes 4-8 cm. longus, fere $2\frac{1}{2}$ cm. crassus. *L. magno* affinis.

5. ***Lentinus ventricosus*** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 259

p. 414. — Pileo carnosu, subplano, glabro, nitente, albo, margine involuto; carne albida; lamellis angustis, confertis, decurrentibus, acie serratis, albidis; stipite curto, crasso, ventricosu, levi, solido, basi abrupte angustato, annulato, albo, intus isabellino-tincto; sporis $10\frac{1}{2}$ -13 \approx 5-6 $\frac{1}{3}$.

Hab. ad terram (?) in Alabama Amer. bor. (UNDERWOOD). — Pileus 10-16 cm. latus; stipes 4-5 cm. longus, in parte ventricosa circiter 4 cm. crassus.

6. ***Lentinus crateriformis*** P. Henn. Fungi camerun. I, in Engl. 260

Jahrb. XXII, 1895, p. 95. — Pileo membranaceo-carnosulo, obconico, omnino infundibuliformi v. crateriformi, glabro levique, radiato substriato, griseo-flavescenti, margine tenui, subrevoluto, dein erecto, repando-inciso; lamellis angustis, subconfertis, ad marginem æquilongis, dein radiato-decurrentibus, cinereis; stipite concolori, glabro levique, basi discoideo-incrassato, pallido, 1-2½ cm. longo, 2-3 mm. crasso; sporis subglobosis, levibus, subhyalinis, 4-5. µ.

Hab. ad ramos putres, Kamerun (DUSÉN).

7. **Lentinus Dybowskii** Pat. Bull. Soc. Myc. de France 1895, p. 85. 261

— Pileo cyathiformi, 3-5 cm. diam., 5 cm. alto, ochraceo, sub lente subtiliter furfuraceo, margine recurvato, angusto, sinuoso: stipite æquali, cylindraceo, 10-15 cm. longo, 8 mm. crasso, rubro-brunneo, apice squamuloso, spongioso, farcto, molli, intus albido, radicante; lamellis decurrentibus, angustissimis, parum confertis, albidis, mollibus, integris, non anastomosantibus.

Hab. ad fragmenta lignea dejecta in regione congoana gallica (DYBOWSKI).

8. **Lentinus discopus** Pat. Bull. Soc. Myc. de France 1895, p. 86. 262

— Pileo infundibuliformi, glabro, pellucido, rubro, coriaceo, tenui, erecto, 2-3 cm. diam., 1½ cm. alto; margine incurvato, sinuoso, dein expanso; lamellis incoloribus, angustissimis, ⅓-½ mm., haud confertis, integris decurrentibus, inæqualibus; stipite glabrescente, cylindraceo, fibroso 1-3 cm. longo, 2-3 mm. crasso, basi bulbiloso et membrana discoidea villosa albida cincto.

Hab. ad truncos putridos in regione congoana gallica (DYBOWSKI).

9. **Lentinus annulifer** De Seyn. Rech. Champ. Congo fr. 1897, I, p. 25. 263

— Stipite brevi, deorsum incrassato, curvo, plano, striatulo, melleo-albicante ½-1 cm. longo, annulo siccitate fuligineo prædito; pileo infundibuliformi, inæquali, margine involuto, levi, melleo-albicante maculis minutis fuligineis asperso, 3-5 cm. lato; lamellis concoloribus, siccitate rufescentibus, strictis, utrimque acutis decurrentibus inæqualibus, acie integerrima.

Hab. ad ligna in regione Kongoana gallica.

10. **Lentinus holumbrinus** De Seyn. Rech. Champ. Congo fr. 1897, 264

I, p. 24. — Stipite pleno basi sensim incrassato, tomentosissimo, umbrino, 2-5 cm. longo; pileo concolori pilis curtis velutino, infundibuliformi, margine leviter striato et undulato involuto, 3-5 cm. lato; lamellis umbrinis, strictis, inæqualibus, utrimque attenuatis, decurrentibus, acie integerrima.

Hab. ad ligna pr. Talagouga in regione Kongoana gallica.

11. **Lentinus anisatus** P. Henn. Verhaudl. Bot. Ver. Prov. Brandbg. 265
XXXIX, p. XCVI. — Pileo carnosolento, subflabelliformi v. oblique subinfundibuliformi, sublobato, 2-3 cm. diam., albido, levi glabro v. subvillosulo, margine tenui; stipite laterali v. excentrico brevi, solido, firmo. pallido, glabro, basi interdum rufobrunneo; lamellis decurrentibus, subventricosis, subconfertis flavidulis, acie integris; sporis oblongato-cylindraceis, obtusis, basi oblique apiculatis, 6-7 \approx 3 $\frac{1}{2}$, hyalinis; odore anisato.
Hab. ad truncos Salicis cinereae pr. Rathenow Borussiae.
12. **Lentinus cylindrosporus** P. Henn. Hedw. 1897, p. 205. — Pileo 266
coriaceo, tenui, orbiculariter explanato, centro depresso subinfundibuliformi, cinnamomeo, squamis subimbricatis, membranaceo-floccosis adpressis concoloribus tecto, ca. 10 cm. diametro. obscuriore striato; stipite farcto, tereti ochraceo-squamosulo, 3 $\frac{1}{2}$ cm. longo, 5 mm. crasso; lamellis decurrentibus, coriaceo-membranaceis, pallide cinnamomeis, subpruinosis, subdistantibus, ca. 2 mm. latis, acie integerrimis; sporis subcylindraceis, rectis vel subcurvatis, utrinque obtusis, hyalinis, 7-8 \approx 2-2 $\frac{1}{2}$ μ .
Hab. ad lignum pr. Blumenau Brasiliæ (MÖLLER). — Externo habitu *Lentino velutino* Fr. affinis, sed sporis subcylindraceis diversus.
13. **Lentinus frondosus** P. Henn. Hedw. 1897, p. 206. — Pileis 267
coriaceo-sublignosis, confluentibus, plicato-costatis, rugosis, cinnamomeis, tomentosis, margine lobato-ineis, proliferantibus, 12-15 cm. diametro, contextu cinnamomeo-floccoso, tenui; stipitibus brevibus, sulcatis basi confluentibus, ca. 2 cm. longis, 1 cm. crassis farctis, sublignosis; lamellis decurrentibus latis denticulatis vel laceratis cinereo-pruinosis; sporis subglobosis vel ellipsoideis, brunneolis?
Hab. in Brasilia (SELLO). — An ad *Glæosporum* ducendus?
14. **Lentinus marasmioides** P. Henn. Engl. Jahrb. XXIII, p. 547. 268
— Pileo campanulato-explanato, coriaceo, rigido, centro umbilicato, gibboso v. umbonato, atro-badio, radiatum-striato, subtomentosulo, pallido, 5-10 mm. diam.; stipite tereti, farcto, brevi, curvulo, subtomentoso, basi strigoso, pallido, 3-5 mm. longo, 1 mm. crasso; lamellis adnatis, subdistantibus, subcoriaceis, angustis, crassis, pallide alutaceis.
Hab. in ramis putridis in Togo, Afr. occ. (BAUMANN).
15. **Lentinus Schomburgkianus** P. Henn. Hedw. 1897, p. 205. — 269
Pileo coriaceo-lignoso, maximo, infundibuliformi, costato-sulcato concentricè zonato, cinnamomeo-rugoso subtomentoso, costis aculeis

fasciculatis cristatis vel subulatis tectis, tabacino, margine lobato-inciso, c. 15 cm. diametro; stipite 9 cm. longo, 1 cm. crasso, excentrico, lignoso firmo, faretto concolori apice striato, basi tuberculis subconicis vel subhemisphæricis tecto disciformi ca. 3 cm. incrassato; lamellis decurrentibus, coriaceis, sublignosis, pallide cinnamomeis, usque ad 1 cm. latis, acie integra, ca. 0,5 mm. crassis.

Hab. ad lignum in America australi.

16. **Lentinus sericeo-squamosus** P. Henn. Hedw. 1897, p. 206. — 270

Pileo coriaceo-membranaceo, minutulo, resupinato, vertice affixo, pallido, strigoso, squamis adpressis, albis, papyraceis, fimbriatis, sericeis tecto, 2-4 mm. diam., margine ciliato; lamellis distantibus, inæquilongis, latis, ventricosis, alutaceis, acie dentatis.

Hab. in petiolis Palmarum pr. St. Catharina Brasilie (ULE).

17. **Lentinus fissus** P. Henn. Engl. Jahrb. XXIII, p. 547. — Pileo 271

coriaceo, tubiformi v. infundibuliformi, palmatifido-laciniato, dense velutino-tomentoso, concolori, tereti, firmo, 3 cm. longo, 4 mm. crasso; lamellis decurrentibus, pallidis, confertis, angustis.

Hab. in ramis putridis in Togo Afr. occ. (G. BAUMANN).

18. **Lentinus minutulus** P. Henn. Engl. Jahrb. XXIII, p. 547. — 272

Pileo coriaceo, minuto, centro depresso, umbonato, obscuriore papillato, imbricato-squamoso, cinnamomeo, 2-5 mm. diam.; stipite centrali, subcurvato, strigoso, tomentoso, concolori, usque ad 5 mm. longo, vix 0,5 mm. crasso; lamellis postice subaffixis, distantibus, coriaceis, inæquilongis, angustis, ochraceis.

Hab. in ramulis emortuis in Togo Afr. occ. (G. BAUMANN).

19. **Lentinus brunneo-maculatus** Pat. Journ. de Bot. 1897, p. 337. 273

— Pileo orbiculari, convexo dein plano, tenni, 4-8 cm. lato, albo, squamis concentricis applicatis rubris v. brunneis confertissimis, centro subconfluentibus marginem versus distantibus tecto, margine albido striatoque; stipite tenaci, recto v. curvato, cylindrico 5-8 cm. longo, 4-6 mm. crasso, squamuloso; lamellis confertis integris, denticulo adnexis.

Hab. ad terram, verisimiliter fragmentis ligneis affixus, Tonkin.

— Ad *L. tigrinum* accedit.

LENTODIUM Morg. Journ. Cinc. Sc. Nat. Hist. XVIII, 1895, p. 36.

(Ety. a *Lentino*, cui habitu accedit). — Pileus carnosocoriaceus, tenax, siccus durus, persistens. Stipes plus minus elongatus, tenax, centralis v. excentricus. Hymenium poroso-cellulosum, velo tandem

radiatim dehiscente tectum. Sporæ ovoideæ, albæ. Habitus *Lentini tigrini*.

1. **Lentodium squamulosum** Morg. l. c. p. 37, tab. I, fig. 3. — Pileo ²⁷⁴
 carnoso-coriaceo, orbiculari, plus minus irregulari, tenui, umbilicato,
 squamis minutis adpressis tecto, griseo v. rufo-nigrescente; stipite
 tenaci, solido, squamuloso, centrali v. excentrico, curto v. elongato,
 plus minus deformato; hymenio crasso, stipiti adnato, velo crasso
 albo floccoso tandem radiatim dehiscente tecto; poris irregularibus,
 ramosis, anastomosantibus, venosis, in cellulas divisis; sporis albis,
 elliptico-oblongis, 5-6 \times 2 $\frac{1}{2}$ -3.

Hab. ad truncos et ramos emortuos, Ohio Amer. bor. — Pileus
 2-5 cm. diam., 1 cm. crassus; stipes variæ magnitudinis, interdum
 brevissimus. Ab auctore locatur prope *Lentinum*, sed ob hymenium
 potius ad *Polyporeas* spectat.

PANUS Fr. — Syll. V, p. 614, IX, p. 76, XI, p. 41.

1. **Panus betulinus** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 413. ²⁷⁵
 — Pileo tenui, suborbiculari v. dimidiato, subplano, glabro, postice
 in stipitem brevem elongato, griseo-brunneo, stipitem versus ob-
 scuriore v. nigrescente; lamellis angustis, densis, decurrentibus,
 albidis; stipite leviter luteo-brunneo-piloso; sporis minutis, 4-5 \times
 1,6-2,1.

Hab. ad lignum putridum Betulae, Newfoundland, Amer.
 bor. (WAGHORNE).

2. **Panus papillatus** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII. ²⁷⁶
 1895, p. 95. — Pileo coriaceo-carnoso, tenaci, subsessili, resupinato-
 affixo, subexcentrico, rotundato-convexo, tabacino, tomentosulo, cen-
 tro margineque pallidiore, 3-5 mm. diam.; lamellis radiatis, con-
 fertis, angustis, inæqualibus, acie integerrima, incrassata, flavo-
 ochraceis; stipite excentrico papilliformi verrucoso, albo-subtomen-
 tosulo; sporis non visis.

Hab. ad ramos putres Kamerun (DUSÈN).

3. **Panus angustatus** Berk. in Cooke, Handb. Austral. Fg. 1892, ²⁷⁷
 p. 98. — Pileo spathulato, 1-2 cm. lato, 2-3 cm. longo, tenaci,
 subsessili, arutaceo, pilis paucis minutis sparsis vestito, in basim
 albidam angustato; lamellis inæqualibus, confertis, angustis, albis.

Hab. ad ramos putres, Queensland Australiæ.

4. **Panus paradoxus** P. Henn. Engl. Jahrb. XXIII, p. 547, tab. XIV, ²⁷⁸
 fig. 8 a, b. — Pileo coriaceo-subcarnoso, vertice affixo, sessili, oblique
 subcycathiformi v. cupulato, dense squamoso-tomentoso, margine

substriato, leonino 3-5 mm. diam.; lamellis radiantibus, confertis, acie integris, crassiusculis, rufo-cinnamomeis, postice in pilos erectos fasciculatos transeuntibus; sporis haud conspicuis.

Hab. in ramis in Camerunia (ZENKER).

5. **Panus subflabellatus** P. Henn. Hedw. 1897, p. 206. — Pileo coriaceo, submembranaceo, apodo, flabellato, pallido, tomentoso-stri-goso, 8-13 mm. longo, 5-8 mm. lato, margine inciso-lobato, basi albo-tomentoso radiante; lamellis subconfertis, alutaceis, inæqui-longis; sporis subglobosis v. subovoideis, hyalinis, levibus, $3\frac{1}{2}$ -4 μ .

Hab. in ligno vetusto pr. St. Catharina Brasiliæ (ULE).

XEROTUS Fr. — Syll. V, p. 630, IX, p. 78, XI, p. 42.

1. **Xerotus Drummondii** Berk. in Cooke, Handb. Austral. Fg. 1892, 280 p. 100. — Gregarius; pileo reniformi, lobato v. crispato, ferrugineo, tenaci, glabro, 1 cm. lato, in stipitem brevem obconicum angustato; lamellis distantibus, adnatis, latis, demum subnigris.

Hab. ad ramos, Victoria Australiæ.

2. **Xerotus fulvus** Berk. et Br. in Cooke, Handb. Austral. Fg. 1892, 281 p. 100. — Alutaceo-ochraceus; pileo reniformi, 1-2 cm. lato, membranaceo, tenaci, integro, obscure striato, velutino; stipite laterali, tenui, 1 cm. longo; lamellis paucis, angustis, tenuibus, stipitem attingentibus.

Hab. in ligno, Queensland Australiæ.

3. **Xerotus Mauryi** Pat. Bull. Soc. Mycol. 1898, p. 53, t. VII f. I. 282 — Pileo ochroleuco, indurato, glabro, flabelliformi, plicato-rugoso, opaco, margine inflexo, levi v. sulcato, antice rotundato, integro v. lobato, postice in stipitem brevem, lignosum, lateralem, glabrum attenuato; lamellis distantibus, crassis, simplicibus v. furcatis, venoso-connexis, fusciscentibus, acie obtusis; cystidiis nullis; sporis hyalinis, levibus, ovoideis, 4-5 \times 3.

Hab. ad ramos emortuos in Mexico (PAUL MAURY). — Pileus 2-5 cm. long., 2-3 cm., lat.; stipes 2-4 mm. long., 2 mm. cr. Habitus fere *Pani hygrophani* v. *P. arsenarii* sed multo rigidior.

SCHIZOPHYLLUM Fr. — Syll. V, p. 654, IX, p. 81, XI, p. 42.

1. **Schizophyllum lobatum** Went, Ber. Deutsch. Bot. Ges. 1896, p. 283 158. — Pileo ex albo rubro-griseo, piloso, margine crenato v. interdum lobato, 2-3 cm. diam.; sporis minutis, hyalinis.

Hab. in culmis Bambusæ in Java.

2. **Schizophyllum multifidum** (Batsch) Fr.-Sacc. Syll. V, p. 655. — 284

Var. **digitatum** Ell. et Macbr. Bull. Lab. Nat. Hist. Jowa. III, n. 4, 1896, p. 194. — Gregarium, minutum, 3-6 mm. latum, digitato-multifidum, laciniis 3-4 linearil us.

Hab. ad ligna emortua in Nicaragua.

3. **Schizophyllum Egelingianum** Ell. et Ev. Bull. Torr. Bot. Club. 285 1895, p. 439. — Pileis imbricatis, reniformibus, margine integro v. lobato, 1 1/2 cm. longis, 2 cm. latis, albo-tomentosis, margine albo-pilosis, depressis, azonis; stipite laterali; carne circiter 1 mm. crassa, alba, carnosio-coriacea; lamellis pallide carnis, inæqualibus, angustis, circa stipitem brevissimis; sporis hyalinis, globoso-ellipticis, circiter 3 × 2 1/2; basidiis clavato-cylindraceutis, 18-20 × 3 1/2.

Hab. ad truncum Magnoliæ mexicanæ, Mexico (EGELING).

Sect. 2. Rhodosporæ.

VOLVARIA Fr. — Syll. V, p. 656, IX, p. 82, XI, p. 43.

1. **Volvaria striatula** Peck, Bull. Torr. Bot. Club. 1895, p. 487. — 286

Pileo tenui, convexo v. subplano, minute sericeo, margine striato, sicco subreticulato, albo; lamellis angustis, liberis albis, dein carnis; stipite curto, glabro, albo, basi volvæ membranaceæ reliquiis ornato; sporis subglobosis, 1-nucleatis, 8 μ . longis.

Hab. ad terram uliginosam, Kansas Amer. bor. (BARTHOLOMEW).

2. **Volvaria Peckii** Atk. in Peck 48 Rep. 1896, p. 11. — Pileo 287

tenui, convexo, glabro, viscido, margine leviter striato, albido; lamellis subconfertis, tenuibus, dilute carnis; stipite sursum leviter tenuato, glabro, solido, albido, volva membranacea, optime evoluta, laxa; sporis levibus, ellipsoideis 7-10 × 5-6, typice crasse 1-nucleatis.

Hab. in ligno putri Ithaca Amer. bor. (ATKINSON). — Pileus 7 cm. lat.; stipes 8-10 cm. long., 6-8 mm. cr. *V. speciosa* subaffinis.

3. **Volvaria arenaria** Otth ap. Trog Mitheil. Nat. Gesell. Bern. 1857, 288

p. 31. — Pileo initio campanulato, 5-6 cm. lat., dein dilatato, umbonato, sericeo-fibrilloso, albo-brunneo, medio obscuriore, sicco; carne alba fragili, ad marginem valde tenuata; stipite albido, 5-6 cm. longo, 3-4 mm. cr., nitidulo, deorsum incrassato, farcto, volva minuta, ut plurimum adhærente, laciniata, brunneo; lamellis subventricosis, flavidulis, demum albo-roseis, confertis, liberis, sed a stipite non distantibus.

Hab. in arenosis pr. Heimbergbrücke in Helvetia.

4. **Volvaria emendatior** B. et Curt. Cert. of N. A. fungi, 1859, p. 6. 269
— Pileo plano, umbonato, glabro, albo; stipite sursum deorsumque
incrassato; volva marginata; lamellis remotis; sporis cymbifor-
mibus, 12-13 μ . longis.

Hab. in Carolina inf. et New England Americæ borealis ad
terram humosam. — Pileus 7-8 cm. lat.; stipes 7 cm. long., 8
mm. cr.

ANNULARIA Schulz. — Syll. V, p. 668, IX, p. 82, XI, p. 43.

1. **Annularia Teisseret** De Seyn. Rech. Champ. Congo fr. 1897, I, 290
p. 3, tab. I, fig. 21-26. — Stipite levi, vix fibrilloso, stricto, cavo,
argillaceo, sursum pallescente, bulbilloso, 3 cm. alto, deorsum 7
mm., sursum 3 mm. lato, annulo horizontali, persistente, mobili,
tertia parte superiori stipitis inserto; pileo globuloso, carnosulo,
argillaceo, apice umbrino et rimis paucis, minutis, quasi tuberculis
minimis ornato, 1 cm. lato, 8 mm. alto; lamellis liberis, remotis,
pallescentibus; hymenio basidiis, parabasidiis, cystidiis paucis,
mammiformibus, regulariter instructo; sporis ovoideis, roseis, apice
globulo celluloso interiori adfixo, 10-12 \times 6-7 μ .

Hab. ad truncos pr. Talagouga in regione Kongoana gallica.

PLUTEUS Fr. — Syll. V, p. 665, IX, p. 83, XI, p. 44.

1. **Pluteus giganteus** Masee, Journ. of Bot. 1896, p. 153. — Solitarius 291
v. gregarius; pileo late ovato, dein expanso, umbonato, levi gla-
broque, sicco contracto, margine plus minus incurvo, luteo-auran-
tiaco, disco obscuriore, 18-24 cm. diam.; carne firma, disco 2 cm.
crassa; lamellis liberis, distantibus, confertis, tenuibus, subundulatis
margine integris, pallide salmonicoloribus, usque ad 2 cm. latis;
sporibus ellipticis, levibus, 1-guttulatis, pallide salmonicoloribus, 7 \times 5;
stipite 12-14 cm. longo, apice 3-4 cm. crasso, basi incrassato, in-
curvo, solido, glabro, pallido.

Hab. ad lignum putridum, British Guiana (JENMAN).

2. **Pluteus phlephoroides** P. Henn. Hedw. 1896, p. 304. — Pileo 292
carnosulo convexo-explanato, cinnamomeo, vertice obscuriore ve-
nosulo, margine levi subglabroque, 2-3 cm. diametro; stipite sub-
fistuloso, striato, tenui, pallido, basi albo-villoso 4 cm. longo, 2 mm.
crasso; lamellis liberis, confertis, latis, flavo-carnescentibus; sporibus
ovoideis vel subellipsoideis $5\frac{1}{3}$ - $7\frac{1}{2}$ \times $4\frac{1}{2}$ -6, episporio levi, pal-
lide incarnato.

Hab. in truncis in Nova Zelandia (HÆUSLER).

3. **Pluteus stercorarius** Peck, Bull. Torr. Bot. Club. 1895, p. 488. 293
— Pileo tenuissimo, subplano, glabro, candido; lamellis latiusculis, densis, liberis, carneis; stipite æquali, solido, glabro, albo; sporis magnis, plerumque 1-nucleatis, 13-16 \times 8.

Hab. in finetis, Kansas Amer. bor. (BARTHOLOMEW). — Pileus fere 7 cm. latus; stipes 4 cm. longus, $\frac{2}{3}$ cm. crassus.

4. **Pluteus aurantio-rugosus** Trog, Mittheil. Nat. Gesell. Bern. 1857, 294 p. 32. — Pileo initio campanulato, dein expanso-conico, tenui, areolato-rugoso flavo-rubente centro fere cinnabarinio; stipite 4-6 cm. long., 4-8 mm. cr., flavido deorsum leviter incrassato et rube-scente, brunneo-fibrilloso; lamellis crebris, altis, dein carneis, serrulatis, 4 mm. latis, liberis; sporis rubellis, globosis.

Hab. ad truncum Populi pr. Zugl. Helvetiæ. — Inodorus.

5. **Pluteus nitens** Pat. Bull. Soc. Myc. 1898. p. 53, t. VII, f. II. 295
— Pileo convexo, tenui, fusco-brunneo, olivascenti, floccis paucis brunneis, radiantibus, prostratis subtiliter virgato, minute radiatim striatulo, striis concentricis nonnullis notato; stipite farcto, glabro, gracili, albido, nitenti, deorsum sensim incrassato; lamellis remotis carneo-flavidis, confertis, ventricosis, antice attenuatis, postice rotundatis; cystidiis fusoides, apice obtusis, 45 \times 20; sporis subglobosis, roseis, levibus, 6-8 μ . diam.

Hab. ad truncos in Mexico (MAURY). — Pileus 2-3 cm. lat.; stipes 1-3 cm. long. Affinis *P. nano* Fr.

6. **Pluteus curtus** Karst. Hedw. 1895, p. 7. — Pileo carnosulo, 296 tenui, convexo-expanso, obtuso, longitudinaliter (subinde rimose) fibrilloso, squamis disci erectis, crassiusculis, brevibus, muricatis squarroso, e pallido fuscescente, 2-3 cm. lato; stipite farcto, rigido, brevi (vulgo pileo breviori), æquali, flexuoso v. curvato, raro recto, flocculoso-squamuloso, fuscescente, apice nudo, intus albido; lamellis adnexas, latis, ventricosis, subconfertis, e pallido fusc-scentibus; sporis angulatis v. tuberculatis, flavescensibus, 5 \times 3-4; cystidis fusoides.

Hab. in humo uda subterfosa, musco brevi obducta pr. Mustiala Fennicæ. — *Inocyba lacera* similis, sed minor, curtus. Inodorus.

ENTOLOMA F. — Syll. V, p. 679, IX, p. 83, XI, p. 44.

1. **Entoloma grande** Peck, 50 Rep. p. 101 (1897). — Pileo carnosulo, 297 ad marginem tenuato, glabro, subplano, typice late umbonato rugoso, udo flavido-albo ad cinereo-brunneum vergente; carne alba, odore et sapore farinaceis; lamellis latis, distantibus, leviter adnexas,

demum subliberis; stipite subæquali, solido, extus subfibroso apice farinoso, albo; sporis angulosis, 7-10 μ . diam.

Hab. in silvis mixtis, Menands Amer. bor. — Pileus 10-15 cm. lat.; stipes 10-15 cm. long., 13-24 mm. cr.

2. **Entoloma griseo-olivascens** Britz. Hymen. Kunde I, p. 5, fig. 179. 298

— Pileo luteo-brunneo vel griseo-olivaceo, subtiliter fibroso; lamellis confertis, albicantibus v. albo-brunneis v. roseis; stipite albido v. brunneo-albo; sporis oblongo-rotundatis, angulosis, 8-10 \times 6-7; odore nullo.

Hab. in paludosis in Bavaria.

3. **Entoloma ferruginans** Peck, Bull. Torr. Bot. Club. 1895, p. 200. 299

— Pileo carnosus, convexo, obtuso v. umbonato, sæpe irregulari, hygrophano, glabro, nitido, obscure fuligineo; carne albida, superficie fibrosa, tincta; lamellis 9-16 mm. latis, adnexus facile transverse sinuatis, griseo-salmonicoloribus, demum sordide luteis; stipite solido, glabro, luteolo-cremeo, basi interdum attenuato; sporis subglobois, irregularibus v. angulosis, $7\frac{3}{4}$ - $10\frac{1}{2}$ μ . longis.

Hab. sub Quercubus, California (Mc. CLATCHE). — Pileus 5-16 cm. latus; stipes 8- $10\frac{1}{2}$ cm. longus, 9-18 mm. crassus. — *E. rhodopolio* affine.

4. **Entoloma Murrayi** B. et C. Cent of N. A. fungi 1859, p. 6. — 300

Stramineum; pileo tenui, striato, glabro; stipite gracili; lamellis latis, distantibus, adnexus, interstitiis venosis; sporis irregularibus, 9-10 μ . diam.

Hab. ad terram humosam, New England Amer. bor. (MURRAY).

— Pileus 2,5 cm. lat., siccus rufo-brunneus, margine crenulato; stipes 7 cm. long., 2-3 mm. cr.

5. **Entoloma pachypus** (Holmsk.) Cke. in litt. Agar. Holm. tab. 39. 301

— Solitarium, stipitatum, volvatum; pileo convexo obscure testaceo, centro squamoso; lamellis quadriserialibus, carneis; stipite solido, basi crasso, flavescente.

Hab. in silvis in Dania. — Cl. Fries ducit ad *Cortinarium varium*.

6. **Entoloma spilotum** (Holmsk.) Cke. in litt. Agar. Holms. tab. 42. 302

— Subsolarium, stipitatum, volvatum; pileo convexo, glabro, cœruleo-variegato; lamellis quadriserialibus, dilute lilacinis; stipite strigoso, cœrulescente, volva evanida.

Hab. in campis in Dania. — Cl. Fries ducit ad *Strophariam æruginosam*.

CLITOPILUS Fr. — Syll. V, p. 698, IX, p. 85, XI, p. 45.

1. **Clitopilus Underwoodii** Peck, 49 Rep. Stat. Bot. N. York. 1896, 303
p. 18. — Pileo tenui, sed carnosio, subplano v. centro leviter de-
presso, levi, albido; sporis subglobosis, 4-5 μ . longis.

Hab. ad terram, New York Amer. bor. — Pileus 3 1/2-4 cm.
latus; stipes circiter 2 1/2 cm. longus, 1/2 cm. crassus. *C. stilbocephalo*
affinis.

2. **Clitopilus depressus** Clem. Bot. Survey of Nebraska, IV, Lincoln. 304
1896, p. 21. — Pileo plano convexo v. centro depresso, submem-
branaceo, glabro ochraceo, centro pallidiore; stipite brevi, solido,
glabro, albo, utrinque incrassato; lamellis decurrentibus, subdistan-
tibus, dilute cinnamomeis; sporis irregulariter ellipsoideis, pallide
roseis, 8-10 \times 4-5.

Hab. in foliis dejectis, Nebraska Amer. bor. — Pileus 3/4-1 1/2
cm. latus; stipes 1 1/2-2 1/2 cm. longus, 2 mm. crassus.

3. **Clitopilus togoënsis** P. Henn. Fungi camerun. I, in Engl. Jahrb. 305
XXII, 1895, p. 103. — Pileo carnosulo, applanato, centro depresso,
pallido, farinaceo-granuloso, margine tenui, subrependo, involuto,
circiter 1 cm. diam.; stipite carnosio, farcto, dein cavo, glabro et
levi, albido, circiter 2 cm. longo, 1 1/2 mm. crasso; lamellis cuneato-
affixis, distantibus, latis, crassis, inæquilongis, subcarneis; sporis
ellipsoideis, levibus, uniguttulatis, carneis, 7 8 \times 5-6.

Hab. ad terram, Togo (BUETTNER). — *Cl. carneo-albo* With. affinis.

LEPTONIA Fr. — Syll. V, p. 706, IX, p. 87, XI, p. 46.

1. **Leptonia Staudtii** P. Henn. Engl. Jahrb. XXIII, p. 554. — Pileo 306
membranaceo, tenui, convexo-plano, radiatim striato-sulcato, fi-
broso, cœruleo, cinerescente; stipite cartilagineo, subcavo, cœrule-
scente, levi glabroque, 1 1/2-2 cm. longo; lamellis adnatis, ventri-
cosis, confertis, carneis; sporis irregulariter ellipsoideis, 5-6-angu-
latis, 1 grosse guttulatis, carneis, 6-8-10 \times 5-7.

Hab. ad terram in lapidibus in Camerunia (STAUDT).

2. **Leptonia viridula** P. Henn. Fungi camerun. I, in Engl. Jahrb. 307
XXII, 1895, p. 104. — Pileo membranaceo, e campanulato ex-
planato, centro subumbilicato v. depresso, margine substriato, vi-
ridi, 10-15 mm. diam.; stipite fistuloso, levi glabroque, flavo-viri-
dulo, usque ad 4 cm. longo, 3 mm. crasso; lamellis adnexis, inæ-
qualibus, lanceolatis, postice latioribus, margine angustis, flavo-
viridulis; sporis ovoideis v. ellipsoideis, 1-guttulatis, levibus, sub-
carneis, 5-6 \times 4-5; basidiis clavatis.

Hab. ad ligna putrida, Kamerun (ZENKER et STAUDT).

3. **Leptonia edulis** Peck, Bull. Torr. Bot. Club. 1895, p. 201. — Pileo 308
tenui, convexo v. in centro depresso, partim umbonato, partim
non umbonato, velutino, obscure griseo; lamellis sublatis, subven-
tricosis, adnexis, modice confertis, ex albido v. luteo-griseo carneis;
stipite gracili, fistuloso, colore pilei, basi sæpe tomento albo myce-
lioideo dense vestito; sporis subglobosis, angulosis, apiculatis, $7\frac{3}{4}$ -
 $10\frac{1}{2}$ μ . longis, nucleo magno præditis.

Hab. in graminosis, California (Mc. CLATCHIE). — Pileus $1\frac{1}{3}$ -4
cm. latus; stipes $2\frac{3}{4}$ -4 cm. longus, 1-2 $\frac{1}{4}$ mm. crassus.

NOLANEA Fr. — Syll. V, p. 716. IX, p. 88, XI, p. 47.

1. **Nolanea atro-cyanea** Clem. Bot. Survey of Nebraska, IV, Lincoln 309
1896, p. 21. — Pileo membranaceo, campanulato, glabro v. minute
verrucoso, papillato-umbonato, margine striato-lacerato, atro-cya-
neo; stipite æquali, cartilagineo, glabro, dilute cœruleo v. glauco;
lamellis angustis, subdistantibus, ochroleucis; sporis globosis v.
ellipsoideis, 3-7-angularibus v. apiculatis, uniguttulatis, roseis,
5-7 \times 7-9.

Hab. in silvis, Nebraska Amer. bor. — Pileus 1-3 mm. latus;
stipes 1 cm. longus, $\frac{1}{2}$ -1 mm. crassus.

ECCILIA Fr. — Syll. V, p. 729, IX, p. 88.

1. **Eccilia nivea** Peck, 49 Rep. Stat. Bot. N. York 1896, p. 18. — 310
Pileo submembranaceo, hemisphærico v. convexo, glabro, leviter
umbilicato, albo; lamellis tenuibus, distantibus, arcuatis, decurren-
tibus, albis, dein carneis; sporis angulosis v. irregularibus, uninu-
cleatis, 8 \times 7.

Hab. ad terram in silvis, New York Amer. bor. — Pileus 1-
 $1\frac{1}{3}$ cm. latus; stipes $2\frac{1}{2}$ -4 cm. longus, 1 mm. crassus.

2. **Eccilia Häusleriana** P. Henn. Hedw. 1896, p. 304. — Pileo sub- 311
carnoso subconvexo, depresso vel subinfundibuliformi atrocastaneo,
levi glabroque margine substriato, $\frac{1}{2}$ -2 cm. diametro; stipite cavo,
striato tortoque, cinereo, basi subincrassato, 15-20 cm. longo, $1\frac{1}{2}$ -2
mm. crasso; lamellis decurrentibus, subdistantibus, inæquilongis
basi venoso-connexis, flavo-brunnescentibus; sporis subglobosis sub-
acutangulis $3\frac{1}{2}$ - $4\frac{1}{2}$ μ ., episporio pallide incarnatis basidiis clavatis.

Hab. ad truncos? Ohampo Novæ Zelandiæ (HÆUSLER). — *Ec-
cilia griseo-rubellæ* Lasch videtur affinis.

3. **Eccilia Zenkeri** P. Henn. Fungi camerun. I, in Engl. Jahrb. 312

XXII, 1895, p. 104. — Pileo membranaceo, e convexo infundibuliformi v. depresso, subsulcato, margine inciso v. subcrenato, tenui, interdum crispo-involuto, lilacino-brunneo, 8-15 mm. diam.; stipite subcavo, tenaci, curvato, interdum contorto, subpruinoso, concolori, basi subdisciformi affixo, subtomentosulo, 8-10 mm. longo, circ. 1 mm. crasso; lamellis triquetro-decurrentibus, distantibus, inæqualibus, latis, interdum undulatis, lilacino-flavescentibus; sporis late ellipsoideis, basi oblique apiculatis, levibus, 1-guttulatis, carneis, $4\frac{1}{2}$ - $5\frac{1}{2}$ μ . \approx 4-5.

Hab. ad ramos putres dejectos, Kamerun (ZENKER et STAUDT). — *E. carneo-griseæ* Berk. affinis.

4. **Eccilia camerunensis** P. Henn. Fungi camerun. I, in Engl. Jahrb. 313
XXII, 1895, p. 104. — Pileo membranaceo-carnosulo, convexo-applanato, umbilicato, subinfundibuliformi, radiato-striato, tomentosulo, griseo-brunneo, margine tenui, interdum subrepando, 0,7-2 cm. lato; stipite gracili, firmo, curvato, glabro levique, griseo, basi subincrassato, pallidiore, 1-2 cm. longo, $1-1\frac{1}{2}$ mm. crasso; lamellis cuneato-decurrentibus, inæquilongis, distantibus, latis, acie integris, griseo-flavescentibus; sporis subglobosis, vix acutangulis, uniguttulatis, carnescentibus, 7-8 μ .; cystidiis clavatis.

Hab. ad truncos et ramos putridos, Kamerun (DUSÈN).

5. **Eccilia nigricans** Peck, Bull. Torr. Bot. Club. 1895, p. 201. — 314
Pileo tenui, convexo, umbilicato v. centro depresso, subzonato, griseo-nigro; lamellis latis, distantibus, decurrentibus, luteo-griseis v. brunneolis, demum subcarneis; stipite brevi, fistuloso, griseo-nigro, plerumque mycelio albo munito; sporis angulosis, circiter 13 μ . diam., nucleo magno præditis.

Hab. in graminosis, California (Mc CLATCHIE). — Pileus $1\frac{1}{3}$ -4 cm. latus; stipes circiter $2\frac{1}{2}$ cm. longus, $1-2\frac{1}{4}$ mm. crassus.

CLAUDOPUS W. Sm. — Syll. V, p. 733, IX, p. 89, XI, p. 48.

1. **Claudopus camerunensis** P. Henn. Fungi camerun. I, in Engl. 315
Jahrb. XXII, 1895, p. 103. — Pileo membranaceo, oblique campanulato, subreniformi, plicato, ruguloso, crispo, albido, nudo, usque 1 cm. diam.; stipite brevissimo, laterali, brunneo, levi, circiter 1 mm. longo, vix 1 mm. lato; lamellis sinuoso-adnatis, distantibus, latis, undulatis, basi anastomosantibus, pallidis; sporis subglobosis, 7-8 μ ., levibus, carnescentibus.

Hab. ad ramos siccos, Kamerun (DUSÈN).

2. **Claudopus truncorum** Britz. Hymen. Kunde III, 1897, p. 4, fig. 188. 316

— Pileo albo vel albido, subnitido, molli, submembranaceo, margine sæpe undulato; lamellis subdistantibus, albidis v. rubicundis; sporis subglobosis luteolis, 8-10 \times 6-8, in cumulo sordide carneis v. sordide rubicundis.

Hab. ad ramos *Quercus*, *Salicis* etc. in Bavaria.

3. **Claudopus terricola** Britz. Hymen. Kunde III, 1897, p. 4, fig. 186. 317

— Pileo albido, griseo v. brunneolo-albido; lamellis subconfertis, rubicundis v. brunneolis; sporis luteolis, 10-11 \times 6, in cumulo rubicundo-carneis.

Hab. ad terram in Bavaria.

4. **Claudopus Krugianus** P. Henn. Hedw. 1897, p. 208. — Pileo sub- 318

sessili, membranaceo, semiorbiculari, convexo, squamuloso, dein subnudo, pallido, squamis luteis tecto, 5-10 mm. lato, 3-6 cm. longo; lamellis ventricosis, latis, inæqualibus, distantibus, e pallido subcarnescentibus; sporis ellipsoideis, uniguttulatis, flavo-carnescentibus, 6-7 \times 4-5.

Hab. ad ramos pr. Balão Æquatoris (v. EGGERS).

Sect. 3 Ochrosporæ.

PHOLIOTA Fr. — Syll. V, p. 736, IX, p. 90, XI, p. 48.

1. **Pholiota violacea** Vogl. Bull. Soc. bot. Ital. 1896, p. 42. — Pileo 319

carnoso, molli, convexo v. expanso, obtuso, viscido, violaceo, disco obscuriore, 4-5 cm. lato; lamellis confertis, arcuato-decurrentibus, acie minute erosis, fusciscentibus; sporis ochraceo-fuscis, ellipsoideis, 8-12 \times 6; basidiis clavato-oblongis, 28-30 \times 6-8; stipite cylindrico, fistuloso, tenui, sericeo, atro-violaceo, 5-7 cm. longo, 4-6 mm. crasso; annulo integro, membranaceo, distante, violaceo.

Hab. ad terram in locis graminosis in silvis montis Generosi in Helvetia italica.

2. **Pholiota radicellata** Gill. Champ. Franc. (fasc. ult.) c. ic. — 320

— Pileo carnoso, ovoideo, dein convexulo, radiatim striato, saturate flavo-ochraceo, 3-4 cm. lat.; lamellis copiosis, leviter adnexas, pileo concoloribus; stipite albo, cavo deorsum longe radicato-acutato; annulo fugaci; carne alba; odore et sapore obsoletis.

Hab. cæspitosa in silvis Gallis sept.

3. **Pholiota rugosa** Peck, 50 Rep. p. 102 (1897). — Pileo tenui late 321

conico v. campanulato, dein expanso, sæpe umbonato, hygrophano humiditate flavido-rubro v. ferrugineo, margineque striatulo, in sicco pallide flavo v. fulvo et rugosulo; lamellis confertis, adnexas,

flavido-albis, dein ferrugineis vel brunneolis, acie albis minuteque denticulatis; stipite flexuoso æquali v. deorsum leviter incrassato, cavo, fibrilloso-squamuloso supra annulum membranaceum albidum radiatimque striatum; sporis ellipsoideis 8-13 \times 6-7.

Hab. ad v. prope caudices putres, Adirondack Mount. Amer. bor. — Pileus 12-24 mm. lat.; stipes 2,5-3 cm. long., 2-4 mm. cr. *Ph. blattarie* e *togulari* subaffinis.

4. **Pholiota sabulosa** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 414. 322

— Pileo convexo v. subplano, glabro, pallide luteo-brunneo; lamellis adnatis, subdistantibus, luteo-brunneis; stipite brevi, æquali v. deorsum leviter attenuato, cavo, colore pilei v. pallidioris; annulo minuto, subevanido; sporis subellipticis, brunneo-ferrugineis, 8-10 $\frac{1}{2}$ \times 5-6 $\frac{1}{8}$.

Hab. ad terram sabulosam, Alabama Amer. bor. (UNDERWOOD). — Pileus 2-2 $\frac{3}{4}$ cm. latus; stipes fere 2 $\frac{1}{2}$ cm. longus, 2-5 mm. crassus.

5. **Pholiota aurantio-ferruginea** Britz. Hymen. Kunde I, 1895, p. 5, 323

fig. 422. — Pileo glutinoso, aurantiaco, squamis ferrugineis adpressis; lamellis confertis, carneo-isabellinis vel carneo-fulvis; stipite aurantiaco, squamis fibrosis ferrugineis; sporis luteolis, 6-7 \times 3, in cumulo luteo-brunneis.

Hab. ad truncorum basin in Bavaria.

6. **Pholiota anomala** Peck, Bull. Torr. Bot. Club. 1895, p. 202. — 324

Pileo primitus hemisphærico v. subconico, dein convexo, glabro, hygrophano, sicco, pallide luteo v. cremeo; lamellis adnatis v. subdecurrentibus, subarcuatis, pallidis, dein brunneolo-ferrugineis, acie sæpe alba; stipite cavo v. fistuloso, interdum gossypino-tomentoso, albido; annulo parvo, evanescente; sporis ellipticis, 8-10 $\frac{1}{2}$ \times 4-5 $\frac{1}{4}$.

Hab. in lignis et foliis dejectis, California (MAC CLATCHIE). — Pileus 1 $\frac{3}{4}$ -4 cm. latus; stipes 4-6 $\frac{1}{2}$ cm. latus, 2 $\frac{1}{2}$ -6 $\frac{3}{4}$ mm. crassus.

INOCYBE Fr. — Syll. V, p. 762, IX, p. 95, XI, p. 50.

1. **Inocybe cucullata** C. Mart. Bull. Soc. bot. Genève, VII, 1892-1894, 325

p. 179. — Pileo vario, campanulato v. campanulato-convexo, interdum subirregulari, squamoso, fulvo, disco squamis obscurioribus tecto, 1 $\frac{1}{2}$ -3 cm. lato; stipite æquali v. sæpius basim versus attenuato, cavo, glabro, vulgo curvato v. flexuoso, 2-4 cm. longo, pileo pallidioris; lamellis latis, adnexis, dein liberis, ochraceis, demum pallide brunneo-ferrugineis, acie albis serrulatisque, subconfertis,

interdum plicatis; sporis ovoideis v. pruniformibus, levibus; sapore nullo, odore camphorato.

Hab. in graminosis Helvetiæ.

2. **Inocybe oblongispora** Britz. Hymen. Kunde I, 1895, p. 5, fig. 424. 326
— Pileo luteo-brunneo, squamis squarroso-fibrosis; carne rubicunda; lamellis isabellinis v. rubescenti-albicantibus v. luteo-brunneis, subconfertis; stipite sericeo-fibrilloso, fulvo-brunneo; sporis brunneololiteis, 14-16 \times 4-6, in cumulo brunneis.

Hab. in silvis in Bavaria.

3. **Inocybe fibroso-lacerata** Britz. Hymen. Kunde II, 1896, p. 4, 327
fig. 440. — Pileo adpresse brunneo-fibroso, margine lacerato-fibroso, centro brunneo; carne alba; lamellis confertis, griseo-brunneolis; stipite albido, brunneolo-fibroso; sporis luteis, 8-10 \times 4-5; odore pirino.

Hab. in silvaticis in Bavaria.

4. **Inocybe sanguinolenta** Britz. Hymen. Kunde II, 1896, p. 4, fig. 441. 328
— Pileo albido, dense sanguineo-fibroso, centro sanguineo, margine dein lacerato; stipite pileo concolori; carne fibrosa, albido-subsanguinea; lamellis primo albido-carneis, dein griseo-roseolis vel griseo-brunneis; sporis luteis, 10 \times 6, in cumulo sordide griseo-luteis.

Hab. ad truncos putridos in Bavaria.

5. **Inocybe radiata** Peck, Bull. Torr. Bot. Club. 1895, p. 488. — 329
Pileo tenui, convexo v. subcampanulato, distincte umbonato, sericeo-fibroso, vix rimuloso, sicco distanter radiato-rugoso, luteolo brunneo, umbone nigro-brunneo; lamellis latiusculis, confertis, emarginatis, brunneolis, ætate luteolo-cinnamomeis, acie albida; stipite æquali, solido, subglabro, pileo subconcolori, sed pallidiore; sporis subovatis, nodosis v. angulosis, 10-13 \times 5-6 $\frac{1}{2}$.

Hab. ad terram graminosam, Massachusetts Amer. bor. — Pileus fere 2 $\frac{1}{2}$ cm. latus; stipes 2 $\frac{1}{2}$ -5 cm. longus, 2-4 $\frac{1}{2}$ mm. crassus. E vicinia *Inocybæ fuscodiscæ*, *I. infidæ*, *I. agglutinatæ* etc., sed cum nulla harum apte conjungenda.

6. **Inocybe erythroxa** De Seyn. Rech. Champ. Congo fr. 1897, I, 330
p. 2, tab. I, fig. 1-5. — Stipite levi, demum cavo, flavescente, deorsum pallescente, 1 $\frac{1}{2}$ cm. alto; pileo carnosulo, plano, subdepresso, centro leviter prominente, margine tandem reflexo irregulari, ferrugineo, aculeis pyramidatis, rubris ornato, 1 $\frac{1}{2}$ -2 cm. lato; carne flavescenti-lutea, tenaci; lamellis ventricosis, inæqualibus, remotis, liberis aut vix adnatis, fuligineo-flavis, saturatis, acie decolorantibus; basidiis exsertis; clavatis, 25 μ . latis, 4 sterigmatibus

elongatis, raro 2-sterigmaticis; parabasidiis strictis; cystidiis non visis: sporis ovoideis, levibus, ferrugineis, copiosis, $7 \approx 3-4 \mu$.

Hab. ad terram pr. Talagouga in regione Kongoana gallica.

7. **Inocybe ochraceo-violascens** Britz. Hymen. Kunde III, 1897, p. 4, 331
fig. 452. — Pileo ochraceo, squarroso-squamoso-fibroso; carne rubicundo-alba; lamellis confertis, pallide griseo-luteis; stipite lilacino vel lilacino-violaceo, sursum albido, sericeo, non cavo; sporis ovoideis, non granulosis irregularibusve, luteis, $10-11 \approx 5-6$, in cumulo sordide luteo-brunneis.

Hab. in silvis in Alpibus.

8. **Inocybe unicolor** Peck, 50 Rep. p. 104 (1897). — Pileo initio 332
conico v. convexo, dein expanso, firmo tomentoso-squamuloso, pallide ochraceo v. griseo-ochraceo; carne alba; lamellis latis, subdistantibus leviter ventricosis, pallide ochraceis, demum rufo-brunneis; stipite tenui, æquali, firmulo, flexuoso, squamuloso, pileo concolore; sporis rufo-brunneis, ellipsoideis, levibus, $10-13 \approx 5-6$.

Hab. in calcareis, Menands Amer. bor. — Pileus 2-3 cm.; lat., stipes 2,5-4 cm. long., 2-4 mm. cr. Habitus *Inoc. ochraceæ*.

9. **Inocybe subtomentosa** Peck, 48 Rep. 1896, p. 11. — Gregaria v. 333
subcæspitosa; pileo tenui, sicco, convexo v. plano, minute tomentoso, brunneo-fulvo; lamellis tenuibus, confertis, adnatis, leviter emarginatis, albidis, dein flavido-viridulis, demum brunneo-fulvis; stipite brevi solido, sericeo-fibrilloso, fere colore pilei, sæpius mycelio copioso albo basi prædito; sporis ellipsoideis $7-10 \approx 5-6$.

Hab. ad terram inter folia dejecta, Rouses Point Amer. bor. — Pileus 12-24 mm. diam.; stipes 2-3 cm. long., 2 mm. cr. — Affinis *I. tomentosæ* et *I. fibrillose*.

HEBELOMA Fr. — Syll. V, p. 791, IX, p. 102, XI, p. 54.

1. **Hebeloma gregarium** Peck, 49 Rep. Stat. Bot. N. York. 1896, 334
p. 18. — Pileo tenui, sed carnosio, hemisphærico v. convexo, obtuso vel rarius umbone minuto inconspicuo coronato, udo subviscido, glabro vel margine veli reliquiis subsericeo, pallide ochraceo, centro interdum rubescenti-tincto; carne albida; lamellis tenuibus, confertis, adnatis, ex albido subcinnamomeis; stipite gracili, fistuloso v. cavo, albido, fibrilloso, apice subfarinaceo v. pruinoso; sporis ellipticis, $10-13 \approx 6\frac{1}{3}$.

Hab. ad terram arenosam, New York Amer. bor. — Pileus $2-3\frac{1}{2}$ cm. latus; stipes 4-5 cm. longus, 2-5 mm. crassus.

2. **Hebeloma flavum** Clem. Bot. Survey of Nebraska IV, Lincoln. 335

1896, p. 22. — Pileo campanulato, carnosio, viscido, margine incurvato, appendiculato, dilute luteo; squamis subconcentricis, fulvis, 2 mm. latis; stipite crasso, solido, brevi, curvato, squamis concentricis floccosis fulvis dense vestito; basi excepto, luteo; lamellis subsinuatis, modice confertis, sordidis; sporis ovoideis, ochroleucis, $7-8 \times 4$.

Hab. ad terram, Nebraska Amer. bor. — Pileus 5-6 cm. latus; stipes 3-5 cm. longus, $\frac{2}{3}$ -2 cm. crassus.

3. **Hebeloma fœdatum** Peck, Bull. Torr. Bot. Club. 1895, p. 202. — 336

Pileo carnosio, convexo, demum plano v. centro depresso, glabro valde viscido v. glutinoso, rubro-cinnamomeo; carne luteolo-alba; lamellis subventricosis, emarginatis, decurrentibus, cinnamomeis, dein fuscis; stipite solido, æquali v. apice leviter incrassato, fibrilloso, pallidiore; sporis late ellipsoideis, $6\frac{1}{4}$ - $7\frac{3}{4} \times 4-5\frac{1}{4}$.

Hab. ad terram, California (Mc CLATCHIE). — Pileus 4-8 cm. latus; stipes 4-6 $\frac{1}{2}$ cm. longus, $\frac{1}{2}$ -1 cm. crassus.

4. **Hebeloma fusiformi-radicatum** Britz. Hymen. Kunde I, 1895, p. 6, 337

fig. 429. — Pileo glutinoso, pallide ochraceo vel albo, centro luteolo; carne pileo concolori; lamellis confertis, albido-ochraceis vel carneo-brunneo-ochraceis; stipite albido, inferne luteo-rubro-brunneo; sporis luteis, 10-12 \times 6, in cumulo rubro-brunneis; odore nullo.

Hab. in silvaticis in Bavaria.

5. **Hebeloma albido-cortinatum** Britz. Hymen. Kunde I, 1895, p. 6, 338

fig. 428. — Pileo glabro, substriato, opaco, albido-luteo-rubro; carne in stipite superne albida vel sordide ochroleuca, inferne albido-rubiginosa; lamellis subconfertis, albicantibus; stipite superne albo, inferne brunneo, fibrillis vel floccis albis prædito; sporis luteis, 6-7 \times 3-4, in cumulo luteo-brunneis.

Hab. in silvaticis in Bavaria.

6. **Hebeloma violascens** Otth apud Trog Mittheil. Natur. Ges. Bern. 339

1857, p. 33. — Pileo carnosio-tenni, 2 $\frac{1}{2}$ cm. lat., convexo, umbonato, sicco, sericeo-nitidulo, læte violaceo, disco brunneolo adpresse squamuloso; stipite 3-4 cm. long., 4 mm. cr., pallide violaceo, demum rufo-fibrilloso, basi bulbilloso albo-flavido; lamellis adnexis, ventricosis, remotiusculis, integris, acie minutissime crenulata, e violaceo-carneo brunneolis.

Hab. ad terram pr. Bernam Helvetiæ.

7. **Hebeloma rubrum** Otth ap. Trog Mittheil. Nat. Gesell. Bern. 1857, 340

p. 33. — Pileo initio campanulato demum e conico expanso, inque plures lacinias scisso, læte rubro 4-cm. lato, exsiccando flavello;

carne tenui rubescente; stipite æquali 4 cm. long., 4-5 mm. cr., fibroso, levi v. striatulo, recto v. curvulo, sæpe basi bulbiloso, pileo concolore, pruinoso; lamellis liberis, ventricosis, pileo pallidioribus, demum brunneo-flavicantibus.

Hab. in graminosis pr. Bernam Helvetiæ.

8. **Hebeloma crustuliniforme** Bull. - Sacc. Syll. V, p. 799. — Var. 341
tunetanum Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 36. — Pileo carnosio, convexo-plano, orbiculari, glabro, subviscoso, albido-ochraceo, centro subfusco; lamellis adnexis, rufo-argillaceis, angustis, confertis, immaculatis; basidiis clavatis, 4-sterigmaticis, 20-23 \times 8-10 μ .; cystidiis nullis; sporis ovoideis, utrinque apiculatis, argillaceis, levibus, 1-2-guttulatis, 14-15 \times 6-8 μ .; stipite cylindræo, æquali, curvato, fibrilloso, apice farinoso, albido, gracili, farcto; carne pilei albida, molliuscula, immutabili.

Hab. ad terram in Tunisia.

9. **Hebeloma Kirtoni** Kalchbr. in Mc Alp. Arrang. Austral. Fungi, 342
 1893, p. 32. — Compacto-carnosum, convexo-planum, glabrum; stipite solido, carnosio, fibrilloso, albo-sericeo.

Hab. ad terram, prope caudices, N. S. Wales Australiae.

FLAMMULA Fr. — Syll. V, p. 809, IX, p. 104, XI, p. 56.

1. **Flammula edulis** Peck, Bull. Torr. Bot. Cl. 1897, p. 142. — Pileo 343
 carnosio, convexo, obtuso glabro, udo, brunneo, griseolo-brunneo v. alutaceo-brunneo, interdum rimoso; carne albida; lamellis latis, confertis decurrentibusque, luteo-brunneis, demum brunneolo-ferugineis; stipitibus cæspitosis, æqualibus, farctis v. cavis, brunneis; sporis subellipticis, 13 \times 5-6 $\frac{1}{2}$.

Hab. ad terram, in pratis, ad margines viarum etc. New Jersey Amer. bor. — Pileus 5-8 cm. latus; stipes 5-8 cm. longus, $\frac{3}{4}$ -1 $\frac{1}{4}$ cm. crassus.

2. **Flammula echinata** P. Henn. Engl. Jahrb. XXIII, p. 553. — 344
 Pileo carnosulo, convexo, plano, dense echinato-squarroso, squamis erectis, subconicis, margine dein evanescente, substriato, 8-20 mm. diam., aurantiaco; stipite farcto, 5-15 mm. longo, 2 mm. crasso, dense squamoso, concolori, basi subincrassato echinato; lamellis adnatis vix decurrentibus, subconfertis, ventricosis, flavis; sporis ellipsoideis, 6-8 \times 3-4 $\frac{1}{3}$, episporio flavo, levi.

Hab. in ligno in Camerunia (STAUDT).

3. **Flammula Zenkeri** P. Henn. Engl. Jahrb. XXIII, p. 553. — 345
 Pileo carnosio, convexo-explanato, flavo-ochraceo, medio squamis

verrucosis obscurioribus, ad marginem squamis depressis submembranaceis ornato, 3-6 cm. diam.; stipite fere to, levi, glabro, tereti, æquali, 2-3 cm. longo, $\frac{1}{2}$ -1 cm. crasso, concolori; lamellis adnatis, subdecurrentibus, ventricosus, primo pallidis, dein ochraceis; sporis ellipsoideis, flavo-ochraceis, 1-guttulatis, levibus, $4-7 \approx 3\frac{1}{2}-4\frac{1}{3}$.

Hab. in ligno in Camerunia (ZENKER). — *F. sapineæ* Fr. affinis.

4. **Flammula evagabunda** Britz. Hymen. Kunde, II, 1896, p. 4, f. 446. 346

— Pileo glutinosissimo vel viscido, albido vel isabellino-albo, centro dilute luteo; carne albida, basi stipitis pallide rubiginosa; lamellis cœnfertis vel subcœnfertis, albidis, luteolis, griseo-luteolis, dein ochraceo-brunneis; stipite superne albido, inferne dilute rubiginoso; annulo evanido; sporis pallide luteis, $6-8 \approx 3-4$, in cumulo cinnamomeis.

Hab. in foliis putrescentibus fagineis in silvis, Bavaria.

5. **Flammula Paxiana** P. Henn. in Engl. Jahrb. XXIII, 1896, p. 284. 347

— Pileo convexo-applanato, carnosulo, tenui, alutaceo, dense verrucoso-squamoso, squamis centro subconico-aculeatis obscurioribus ad marginem depressis subconcoloribus, ca. 2-3 cm. diam.; stipite fistuloso substriato, levi, p. superiore albido, subannulato-squamosulo, p. inferiore brunneolo, 3-5 cm. longo, 3 mm. crasso; lamellis adnatis, subcœnfertis, latis, ochraceis; sporis ellipsoideis v. subovoideis, 1-guttulatis, levibus, læte brunneis, $7-8\frac{1}{2} \approx 4-4\frac{1}{2}$.

Hab. in nuce Cocos ex insul. samoënsibus importata in hortum bot. Wratislav. orta. — *F. sapineæ* affinis.

6. **Flammula rubicundula** Rea, Grev. XXII, p. 40. — Pileo 4-6 cm. 348

lato, carnosulo, convexo-plano, initio viscido et innato-fibrilloso, mox levi, luteo, rubro-tincto, demum luteo-aurantiaco, margine sæpe lacerato, velo albo, dein luteolo, demum colore pilei; stipite 5-6 cm. longo, $1\frac{1}{2}-2\frac{1}{2}$ cm. crasso, solido, albido, apice dein rubro-tincto; carne lutea, dein pallidiore; lamellis adnatis v. adnato-decurrentibus, cœnfertis, 3-4 mm. latis, primo dilute ochraceis, dein ferrugineis; sporis ferrugineis, $9-10 \approx 4-5$; odore nullo, sapore acri.

Hab. ad terram Wyre Forest in Britannia (C. REA). — Affinis *F. astragalineæ*.

7. **Flammula Schinziana** P. Henn. Hedw. 1896, p. 304. — Pileo carno- 349

sulo convexo-explanato, obtuso subumbonato, aureo-ochraceo, squamis subimbricatis tecto ca. 15 mm. diametro; stipite fistuloso, striato subfibroso, pallido vel ochraceo, curvato, radicato, 3-4 cm. longo, $1\frac{1}{2}-2$ mm. crasso; lamellis adnatis, subcœnfertis, latis subventricosus,

ochraceis; sporis ovoideis vel ellipsoideis, basi apiculatis, 1-guttulatis 6-8 \approx 5-5 $\frac{1}{2}$, episporio luteo-ochraceo, levi.

Hab. ad truncos Ohampo Novæ Zelandiæ (HÆUSLER). — *F. sapinea* Fr. proxima.

8. **Flammula Underwoodi** Peck, Bull. Torr. Bot. Cl. XXIII. 1896, 350 p. 415. — Pileo convexo v. subplano, sæpe irregulari, squamuloso v. furfuraceo, luteo-brunneo; lamellis latis, confertis, adnatis v. leviter decurrentibus, luteis; stipite deorsum attenuato, radicato, in longitudine brunneolo-striato, apice luteo: sporis ellipticis, ochraceis, 6-8 \approx 4-5 $\frac{1}{4}$.

Hab. cæspitosa ad truncos pineos, Alabama Amer. bor. (UNDERWOOD). — Ab affini *F. sapinea* dignoscitur habitu cæspitoso et stipite striato.

9. **Flammula subsapinea** P. Henn. Fungi camerun. I, in Engl. Jahrb. 351 XXII, 1895, p. 102. — Pileo carnoso, convexo-explanato, dense imbricato-squamuloso, rufobrunneo, margine repando, dein rimoso involutoque, 4-5 cm. diam.; carne flava; stipite farcto, tereti, sæpe curvato, fibroso-squamuloso, concolori, 3 cm. longo, 5-6 mm. crasso; lamellis sinuoso-adnatis, interdum subdecurrentibus, subconfertis, late ventricosis, inæqualibus, aureo-brunneis; sporis ellipsoideis, flavo-brunneis, 1-guttulatis, 6-7 \approx 4-5.

Hab. ad truncos putres, Kamerun (ZENKER et STAUDT).

10. **Flammula anomala** Peck, Bull. Torr. Bot. Club. 1895, p. 202. 352 — Pileo profunde umbilicato v. infundibuliformi, sæpe irregulari, glabro, albido; lamellis angustis, confertis, decurrentibus, pallide ferrugineis; stipite brevi, irregulari, albido; sporis globosis, brunneolo-ferrugineis, 6 $\frac{1}{4}$ μ . diam.

Hab. cæspitosa ad terram, Pennsylvania Amer. bor. — Pileus circiter 2 $\frac{1}{2}$ cm. latus; stipes 1 $\frac{1}{8}$ -2 $\frac{3}{4}$ cm. longus.

11. **Flammula decurrens** Peck, Bull. Torr. Bot. Club. 1895, p. 489. 353 — Pileo tenui, umbilicato, centro depresso v. infundibuliformi, hygrophano, minute floccoso-squamuloso, pallide luteo v. cremeo; lamellis subdistantibus, valde decurrentibus, pallide luteis, demum ochraceis, interstitiis interdum venosis; stipite æquali v. deorsum attenuato, minute pubescente, farcto, pileo concolori; sporis ellipticis, 8-9 \approx 4.

Hab. ad terram udam umbrosam, Kansas Amer. bor. (BARTHOLOMEW). — Pileus fere 2 $\frac{1}{2}$ cm. latus; stipes 13-22 mm. longus, 2-4 $\frac{1}{2}$ mm. crassus.

12. **Flammula rotundifolia** Britz. Hymen. Kunde, III, 1897, p. 4, 354

fig. 458. — Pileo subglabro, luteo-rubro, centro rubiginoso; carne lutea, basi stipitis obscuriore; lamellis luteis v. subvitellinis, confertis; sporis luteis, 8×4 , in cumulo flammeis.

Hab. in silvis in Alpibus.

13. *Flammula magna* Peck, 50 Rep. p. 103 (1897). — Pileo carnos, 355
late convexo, molli, sicco, fibrilloso et leviter virgato, pallide flavo
v. fulvo, margine demum revoluta, intus albo v. flavido; lamellis
confertis, adnatis, v. subdecurrentibus, ad stipitem undulato-cri-
spulis, 6 mm. lat., ochraceis; stipite æquali v. deorsum incrassato,
carnoso-fibroso, solido elastico, fibrilloso, pileo concolore, intus lætius
flavo; sporis ellipsoideis, ochraceis, 10×6 .

Hab. cæspitose ad basim truncorum Westchester County Amer.
bor. (BASSET JONES). — Pileus 10-15 cm. lat.; stipes 7-10 cm.
long., 16-24 mm. cr.

14. *Flammula rigida* Peck, 50 Rep. p. 104 (1897). — Pileo tenui, 356
firmulo, rigidulo, convexo, dein plano-depresso, subinde margine
undulato, glabro, hygrophano, udo rubiginoso-fulvo, sicco fulvo
v. griseo-fulvo, carne concolore; lamellis modice confertis, ad-
natis, cremeo-albis, dein fulvo-ferruginascentibus; stipite æquali,
rigido, leviter striato, pileo concolore, basi albo-tomentoso; sporis
late ellipsoideis, $7-9 \times 4-5$.

Hab. ad fragmenta lignea vetusta, gregatim, Adirondack Mount.
Amer. bor. — Pileus 2,5-4 cm. lat.; stipes 2,5-5,5 cm. long., 3-6
mm. cr.

15. *Flammula nigripes* (Bull.) Cke in litt. *Agar.* Bull. t. 344. — 357
Cæspitosa; pileo convexo, flavo-alutaceo, levi 3-5 cm. lat., viscosulo,
disco rufescente; stipite cylindræo, deorsum crassiore, fistuloso, 6
cm. longo, 3-4 mm. cr., velutino-asperulo, melleo, deorsum nigri-
cante; lamellis ventricosis, confertis, liberis, fuscellis.

Hab. ad candices in Gallia, nov.-decembr. — Odor et sapor
nulli. Sec. Fries est *Collybia velutipes*.

NAUCORIA Fr. — Syll. V, p. 828, IX, p. 109, XI, p. 57.

1. *Naucoria sphærospora* P. Henn. Engl. Jahrb. XXIII, p. 553. — 358
Pileo membranæo, campanulato-explanato, centro subumbonato,
obtus, obscuriore, subcanescente, flavo-ochraceo, squamoso-tomen-
tosulo, 7-11 mm. diam.; stipite fistuloso, tenaci, æquali, gracili,
interdum flexuoso tortoque, concolori, fibroso-squamuloso, obsolete
striato, 4 cm. longo, 1 mm. crasso; lamellis rotundato-adnatis,
laxis, subventricosis, pallide ochraceis; sporis globosis, 1 grosse

guttulatis, 4-5 μ . diam., episporio flavo-fuscescente; basidiis clavatis.

Hab. in truncis in Camerunia (PREUSS). — *N. escharoidi* Fr. affinis, sed sporis globosis diversa species.

2. **Naucoria bipindeensis** P. Henn. Engl. Jahrb. XXIII, p. 553. — 359

Gregaria; pileo submembranaceo, convexo-explanato, obtuso, levi, glabro, pruinoso, margine subtiliter radiato-striato, flavo, 3-9 mm. diam.; stipite cartilagineo. tenaci, cavo tereti v. compresso, curvato, squamuloso, 1-2 $\frac{1}{2}$ cm. longo, 1-2 mm. crasso, flavo; lamellis adnatis, haud decurrentibus, confertis, subangustis, flavis v. subochraceis; sporis ellipsoideis, basi apiculatis, levibus, 1-guttulatis, flavis, 6-8 \approx 3 $\frac{1}{2}$ -4.

Hab. in truncis putridis in Camerunia (ZENKER). — *N. Dusenii* P. Henn. affinis.

3. **Naucoria Weberiana** P. Henn. in Engl. Jahrb. XXIII, 1896, 360

p. 284. — Pileo subcarnoso, explanato, vertice papillato, flavo-brunneo, levi glabroque, 4-6 mm. diam.; stipite subfistuloso, tenaci, tenui, concolori, subpulverulento, 7-10 mm. longo; lamellis adnatis, confertis, brunneo-ochraceis, acie minute crenatis; sporis ellipsoideis v. subovoideis, flavidis, 1-guttulatis, 4-4 $\frac{1}{2}$ \approx 3-4.

Hab. in ramis putridis ins. samoëns (C. WEBER). — *N. carpophilæ* Fr. affinis.

4. **Naucoria fulvida** Britz. Hymen. Kunde I, 1895, p. 7, fig. 495. 361

— Pileo fulvo, carne brunneo-lutea; lamellis subdistantibus, luteis v. fulvis v. brunneo-luteis, acie demum undulatis; stipite pileo concolori; sporis luteis, 9-11 \approx 4-5, in cumulo brunneo-luteis.

Hab. in silvaticis in Bavaria.

5. **Naucoria kilimandscharica** P. Henn. Pilze Ostaf. p. 60. — Pileo 362

campanulato-explanato, submembranaceo-carnosulo, levi, glabro, margine striatulo, 1 $\frac{1}{2}$ -2 cm. lato, flavo-subbrunneo; stipite cavo, tereti v. compresso, striato, fibrilloso, 2 cm. longo, 2 mm. crasso, pallido; lamellis sinuoso-adnatis, non decurrentibus, confertis, inæquilongis, flavo-subcorneis; sporis ovoideo-ellipsoideis, intus subgranulatis, flavo-subcarnescentibus v. subfuscescentibus, 8-11 \approx 6-8; cystidiis ovoideo-clavatis.

Hab. ad terram in Africa trop. (VOLKENS).

6. **Naucoria Dusenii** P. Henn. Pilze Ostaf. p. 60. — Pileo carnosulo, 363

expanso, umbonato, flavo, umbone obscuriore, obtuso, subsquamuloso, margine tenui levi vix striato, griseo-viridulo, 4-11 mm. diam.; stipite fistuloso, gracili, tenaci, subcompresso, substriato, basi subincrassato, flavo 2-3 $\frac{1}{2}$ cm. longo, 1-1 $\frac{1}{2}$ mm. crasso; lamellis

adnatis, non decurrentibus, confertis, pallide flavis; sporis subellipsoideis, basi oblique apiculatis, pallide flavis v. fuscescentibus, 7-8 \approx 4-5.

Hab. inter muscos, ad truncos putridos in Africa trop. (VOLKENS, DUSEN).

7. **Naucoria populicola** Britz. Hymen. Kunde I, 1895, p. 7, fig. 432. 364

— Pileo ochraceo, centro obscuriore furfuraceoque, fragili; lamellis subconfertis, fulvis; stipite superne ochroleuco, subdiaphano, inferne rubiginoso-luteolo furfuraceo; sporis luteis, 8 \approx 4.

Hab. in truncis Populi in Bavaria.

8. **Naucoria scabrispora** Britz. Hymen. Kunde I, 1895, p. 7, f. 437. 365

— Pileo brunneo, centro obscuriore, margine ochroleuco; lamellis confertissimis, luteis vel gilvo-ochraceis; stipite sordide rubro; sporis rotundis, 4 μ . diam., acuminatis, luteis, asperis.

Hab. in silvaticis in Bavaria.

9. **Naucoria pediades** Fr.-Syll. V, p. 844. — Var. **brasiliensis** P. 366

Henn. Hedw. 1897, p. 208. — Pileo carnosio, convexo-explanato, 0,5-3 $\frac{1}{2}$ cm. diametro, obtuso, levi glabroque, margine substriato, fusco-brunneo, hygrophano; stipite cavo, æquali, 3-7 cm. longo, 2-3 mm. crasso, levi, glabro, basi bulbiloso; lamellis subconfertis, fuscobrunneis; sporis ellipsoideis, levibus, flavo-ochraceis, 9-13 \approx 7-8.

Hab. ad terram pr. Blumenau Brasilæ (MÖLLER).

PLUTEOLUS Fr. — Syll. V, p. 859, XI, p. 60.

1. **Pluteolus luteus** Peck, Bull. Torr. Bot. Club. 1895, p. 203. — 367

Pileo tenui, primitus subovato, dein convexo v. subcampanulato, glabro, viscido, margine leviter striato, luteo; lamellis numerosis, confertis, liberis v. subadnexis, e luteolo ferrugineis; stipite gracili, fistuloso, basim versus leviter incrassato, apice striato et farinaceo-adsperso; sporis ellipticis, 10 $\frac{1}{2}$ -13 \approx 6 $\frac{1}{3}$ -7 $\frac{3}{4}$.

Hab. sub arboribus, California (Mc CLATCHIE). — Gregarius, fragilis; pileus 13 $\frac{1}{2}$ -27 mm. latus; stipes 4-6 $\frac{1}{2}$ cm. longus, 2 $\frac{1}{4}$ -4 $\frac{1}{2}$ mm. crassus.

GALERA Fr. — Syll. V, p. 860, IX, p. 113, XI, p. 60.

1. **Galera alba** Peck, Bull. Torr. Bot. Cl. 1897, p. 143. — Pileo 368

submembranaceo, campanulato, fragilissimo, udo, striato, margine lacerato, albo; lamellis angustis confertis, albis, demum brunneolo-

ferrugineis; stipite fragili, cavo, glabro, albo; sporis ellipticis, 13-16 \approx 8-10 $\frac{1}{2}$, vulgo 1-3 nucleis præditis.

Hab. ad terram in South Dakota Amer. bor (WILLIAMS).

2. **Galera angusticeps** Peck, Bull. Torr. Bot. Cl. 1897, p. 143. — 369

Pileo tenui, anguste ac irregulariter conico v. subcylindrico, apice obtuso-acuto v. abrupte acuminato, glabro, viscido, in juventute udo obscureque ochraceo, in ætate sicco ac subalbo; lamellis confertis angustis adnatis, acie albidis, plus minusve anastomosantibus, in maturitate brunneolo-ferrugineis; stipite gracili, glabro, cavo, æquali v. basi subincrassato, albido v. luteo-tincto, in sicco nitido; sporis ellipticis, 10 $\frac{1}{2}$ -13 \approx 8.

Hab. in pratis, Pasadena Californiæ (Mc CLATCHIE). — Pileus 2-3 $\frac{1}{2}$ cm. longus, 1-1 $\frac{1}{3}$ cm. latus; stipes 4-8 cm. longus, 2 $\frac{1}{1}$ -3 $\frac{2}{3}$ mm. crassus. *C. lateritie* affinis, a qua pileo viscido, margine non striato et lamellis in maturitate obscurioribus recedit.

3. **Galera fragilis** Peck, Bull. Torr. Bot. Cl. 1897, p. 144. — Pileo 370

submembranaceo, fragilissimo, late campanulato, glabro, sordide carneo; lamellis ascendentibus, adnatis, subdistantibus, obscure luteis v. subochraceis, demum ferrugineis; stipite gracili, flexuoso, cavo; sporis ellipticis, 10 $\frac{1}{2}$ \approx $\frac{1}{4}$.

Hab. in graminosis, Kansas Amer. bor. (BARTHOLOMEW) — Pileus 7-11 mm. latus; stipes 2-3 $\frac{1}{2}$ cm. longus, 1 mm. crassus.

4. **Galera versicolor** Peck, Bull. Torr. Bot. Cl. 1897, p. 143. — Pi- 371

leo tenui, fragili, convexo v. subcampanulato, udo v. subviscido, glabro, margine striato, albido, pallide luteo v. brunneolo-luteo; lamellis confertis, albis v. pallide luteis, demum rubescenti-ferrugineis; stipite æquali, cavo, fragili, leniter farinaceo v. pruinoso, basi sæpe tomentoso, albo; sporis magnitudine valde variis, 13-21 \approx 8-13, plerumque 1-3 nucleis præditis.

Hab. in lignis vel dejectis, South Dakota Amer. bor. — Pileus 2 $\frac{1}{2}$ -6 $\frac{1}{2}$ cm. latus; stipes 5-10 $\frac{1}{2}$ cm. longus, 2-4 $\frac{1}{2}$ mm. crassus.

5. **Galera pulcra** Clem. Bot. Survey of Nebraska IV, Lincoln, 1896, 372

p. 22. — Pileo conico, lato, membranaceo, centrum versus striato-sulcato, minute denseque sericeo-tomentoso; umbone distincto, ochraceo; stipite elongato cartilagineo, attenuato, fistuloso, longitudinaliter lineato-striato-pruinoso, ochroleuco; lamellis adnexis, angustis, linearibus, leniter curvulis, ochraceis; sporis sublimonii-formibus, fulvis, eguttulatis 15-16 \approx 9-10.

Hab. ad terram humosam, Nebraska Amer. bor. — Pileus 2 $\frac{1}{2}$ cm. latus, 2 cm. altus; stipes 7-8 cm. longus, 2 mm. crassus.

6. **Galera semilanceata** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 373 p. 415. — Pileo membranaceo, acuto, conico v. campanulato, sarpe umbonato, glabro, sulcato, striato, pallide luteo; lamellis latis, ascendentibus, distantibus, adnatis, maturis luteo-ferrugineis; stipite gracili, glabro, cavo, pallido; sporis ellipticis, ferrugineis, $10\frac{1}{2}$ -13 \approx 5-6 $\frac{1}{4}$.

Hab. inter folia dejecta, graminea, muscos etc. in Washington Amer. bor. — Pileus 1-1 $\frac{1}{3}$ cm. latus; stipes 4-5 cm. longus, 1-2 mm. crassus.

TUBARIA W. Sm. — Syll. V, p. 872, IX, p. 114, XI, p. 61.

1. **Tubaria venosa** P. Henn. Hedw. 1897, p. 208. — Pileo submembranaceo, tenui, convexo, flavo, levi, glabro, 5-17 mm. diametro; stipite tenui, fistuloso, levi, glabro, 1 $\frac{1}{2}$ -2 cm. longo, 2 mm. crasso, pallide flavo; lamellis decurrentibus, angustis, inæquilonis, basi venoso-connexis, subfavaceis, flavo-ochraceis; sporis subglobosis, levibus, flavis 3 $\frac{1}{2}$ μ . diametro; basidiis clavatis.

Hab. ad terram pr. Blumenau Brasiliæ (MÖLLER).

2. **Tubaria tenuis** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 415. 375 — Pileo membranaceo, hemisphærico v. convexo, obtuso v. subumbilicato, glabro, hygrophano, udo rubescenti-cinnamomeo, sicco cremeo v. pallide ochraceo, margine subtiliter striato v. sulcato-striato; lamellis 2-5 mm. latis, distantibus, ventricosis, adnatis v. leviter decurrentibus, luteo-ochraceis; stipite gracili, flexuoso, cavo, apice pruinoso, basi pubescente, cremeo v. pallide luteo; sporis ellipticis, 8 \approx 5.

Hab. inter muscos, California (MC CLATCHIE). — Pileus 1-1 $\frac{3}{4}$ cm. latus; stipes 2-5 cm. longus, 2 mm. crassus.

3. **Tubaria pallescens** Peck, Bull. Torr. Bot. Club. 1895, p. 202. — 376 Pileo carnoso sed tenui, convexo v. subplano, centro interdum depressulo, glabro, hygrophano, vivo lateritio, sicco luteolo v. cremeo; lamellis latis, adnexis v. subdecurrentibus, alutaceis, demum brunneolo-ferrugineis; stipite gracili, fistuloso, luteolo, basi mycelio albo vestito; sporis ellipticis, 7 $\frac{3}{4}$ \approx 4.

Hab. in lignis et foliis, California (MC CLATCHIE). — Pileus 1 $\frac{1}{4}$ -3 $\frac{1}{3}$ cm. latus; stipes 2 $\frac{3}{4}$ -4 cm. longus, 1-2 $\frac{1}{4}$ mm. crassus.

4. **Tubaria ptychophylla** Pat. Enum. Champ. Tunisie. 1892, p. 2, 377 tab. I, fig. 1. — Pileo convexo, rotundato, dein expanso, centro prominente, glabro, nitido, in juventute levi, dein rugoso, rigido, fulvo, centro pallidiore, margine incurvato; stipite rigido, gracili

glabroque, cavo, cylindræco, basi paululum incrassato, pallide luteo; lamellis concoloribus, non numerosis, confertis, arcuatis, crassis, obtusis, aliis decurrentibus, aliis brevioribus et stipitem non attingentibus; sporis ovalibus, levibus, pallide ochraceis, 8-10 \times 4-5.

Hab. ad terram inter muscos in Tunisia.

CREPIDOTUS Fr. — Syll. V, p. 876, IX, p. 115, XI, p. 62. — Ad hoc genus, teste Cooke in litt., spectat *Pleurotus Testudo* (Berk.) Sacc. V, n. 1512, ob sporas ochraceo-fuscas.

1. **Crepidotus togoënsis** P. Henn. Fungi camerun. I in Engl. Jahrb. 378 XXII, 1895, p. 102. — Pileo membranaceo-carnosulo, primo resupinato, dein expanso, reniformi v. flabelliformi, margine striato, sulcato, subrepando, 5-9 mm. lato, 3-5 mm. longo, fusco-brunneo, levi; lamellis brevibus, distantibus, anastomosantibus v. veniformibus, concoloribus; sporis subglobosis, levibus, brunneis, intus granulatis, 6-8 \times 5-6 μ .; basidiis clavatis, 5-7 μ . crassis.

Hab. ad ramos putridos, Togo, (BUETTNER)

2. **Crepidotus echinosporus** P. Henn. Pilze Ostaf. p. 60. — Pileo 379 carnosulo, sessili, horizontali-affixo, reniformi convexo, tomentosovilloso, griseo-brunneo, 3-8 mm. lato, 2-5 mm. longo; lamellis distantibus, inæquilongis, ventricosis, subdivergentibus, cinnamomeis, postice rotundatis; sporis globosis, fusco-brunneis, verrucoso-echinatis, 7-8 μ .

Hab. ad ligna putrida in Africa trop. (VOLKENS, JUNGNER). — *C. deplanato* Kalchbr. affinis.

3. **Crepidotus cinnabarinus** Peck, Bull. Torr. Bot. Club. 1895, p. 489. 380 — Pileo tenui, sessili, $\frac{3}{4}$ -1 cm. lato, resupinato v. reflexo, minute tomentoso v. pulverulento, cinnabarino; lamellis latiusculis, subdistantibus, acie minute rubro-flocculentis, siccis luteo-brunneis; sporis late ellipticis, $7\frac{3}{4}$ \times 6-7.

Hab. ad ligna dejecta, Michigan Amer. bor.

4. **Crepidotus condensus** Bres. Hedw. 1896, p. 278. — Pusillus; pileo 381 tenui e resupinato reflexo, convexo, postice adnato et villosulo, striato-sulcato, margine crenulato, 2-4 mm. lato; lamellis valde distantibus, ventricosis, postice sinuato-adnatis, stipite excentrico, curvato, 1-2 mm., basi villosulo, pileo connato; sporis globosis, luteolis 5-6 μ . diam.

Hab. ad cortices dense scalariformiter disseminatus pr. Blumenau Brasiliæ (MÖLLER).

5. **Crepidotus tener** P. Henn. in Engl. Jahrb. XXIII, 1896, p. 283. 382

— Pileo tenui, carnosulo, horizontaliter affixo, sessili, reniformi. plano, pallide griseo. 3-4 mm. longo latoque; lamellis angustis, confertis, subæquilongis, fusco-ochraceis vel ferruginosis; sporis ellipsoideis vel ovoideis, levibus, ochraceo-subfuscis, $5-6 \approx 4-5 \frac{1}{2}$.

Hab. in caulibus putridis, Upolu ins. samoëns. (C. WEBER).

CORTINARIUS Fr. — Syll. V, p. 889, IX, p. 117, XI, p. 64.

1. **Cortinarius arduus** Britz. Hymen. Kunde, II, 1896, p. 5 fig. 365. 383

— Pileo aureo vel brunneo-luteo; carne luteola; lamellis subdistantibus, roseolis vel brunneo-luteis; stipite albido-brunneo-luteo; sporis luteis, dein asperis, $10 \approx 8$; odore *Raphani sativi*.

Hab. in nemoribus in Bavaria.

2. **Cortinarius constantissimus** Britz. Hymen. Kunde, II, 1896, p. 5, 384

fig. 364. — Pileo subnitido, rubro-luteo; carne albida vel ochraceo-luteola; lamellis subconfertis, rubiginoso-luteis; stipite luteolo, plus minusve luteo, fibroso-fasciato; sporis luteis, granulosis vel asperis, $8 \approx 6$.

Hab. in nemoribus in Bavaria.

3. **Cortinarius pelmatosporus** C. Mart. Bull. Soc. Bot. Genève, VII, 385

1892-1894, p. 181 (*Phlegmacium*). — Pileo semigloboso, dein campanulato, convexo v. conico-campanulato, brunneo v. castaneo, centro obscuriore, 13-14 cm. lato, margine semper sulcato incurvo, dein expanso; cortina alba, persistente, fibrillosa; stipite farcto, valido, apice albo, basim versus violaceo, 12 cm. longo, apice $3-3 \frac{1}{2}$ cm. crasso; bulbo submarginato, luteo, 6 cm. longo, 4 cm. crasso; lamellis sinuatis emarginato-adnexas, colore variis, rubescentibus, lilacinis v. pallide flavis, irregulariter confertis, inæqualibus, una alterave margine dichotoma; sporis maximis; carne albida, apice stipitis lilacina, basim versus flava.

Hab. ad terram sub quercubus in Helvetia.

4. **Cortinarius cæsius** Clem. Bot. Survey of Nebraska IV, Lincoln. 386

1896, p. 22. — Pileo e campanulato-convexo explanato, carnosulo, glabro, haud vel vix viscido, margine involuto, obscure cæruleo-violaceo, denique brunneo-punctato; carne cæsia, immutabili; stipite fibroso-carnosulo, solido, superne violaceo, inferne ochroleuco, turbinato-bulboso, ætate subgloboso-bulboso, margine bulbi atque basi stipitis violaceis, pseudoannulato, cortina pallide cæsia; lamellis adnatis, subdistantibus, ex albo cinnamomeis, haud violaceis; sporis fulvo-brunneis, verrucosis, subellipticis v. globosis, $8-10 \approx 7-8$.

Hab. in silvis, Nebraska Amer. bor. — Pileus 4-8 cm. latus;

stipes 1-5 cm. longus, 1-1½ cm. crassus; bulbos 3-4 cm. altus, 4 cm. latus *C. glaucopodi* Schaeff affinis.

5. **Cortinarius foetidus** Karst. Hedw. 1896, p. 44. — Pileo carnosus, 387
tenui, orbiculari, convexo-plano, obtuso, levi, viscoso, nitenti,
fulvo-lutescenti, vix hygrophano, carne albida, c. 3 cm. lato;
stipite medullato. molli, æquali, glabro, nudo, candido, c. 7 cm.
longo et 1 cm. crasso; lamellis adnatis confertis albidis, mollis-
simis, antice subdeliquescentibus; sporis ovalibus v. late ellipsoideis,
flavescentibus, levibus, 5-7 × 3-4.

Hab. in paroecia Tammela pr. prædium Saaris in Fennia. —
Sapor valde amarus, odor foetens *Cortinarii tragani*. *C. emollito*
affinis, odore autem foetido, margine pilei regularis membranaceo,
stipite longiore lamellisque confertis distinctus.

6. **Cortinarius intrusus** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 388
p. 416. — Pileo carnosus, tenui, convexo-expanso, glabro, udo sub-
viscido, margine interdum radiato-rugoso, luteolo, rubescenti-tincto,
carne alba; lamellis tenuibus, confertis, postice rotundatis, primo
albidis v. cremeo-albis, dein cinnamomeis, acie sæpe serratis; stipite
æquali v. leviter attenuato, farcto v. cavo, interdum apice amœne
striato, in juventute minute floccoso, mox glabro, albo; sporis late
ellipticis, brunneo-cinnamomeis, 6¼-8 × 4-5¼.

Hab. in calidariis in Massachusetts, Amer. bor. — Pileus 2½-
6 cm. latus; stipes 3-8 cm. longus, ¾-1½ cm. crassus. *C. multi-*
formi peraffinis.

7. **Cortinarius virgatus** Peck, Bull. Torr. Bot. Club. 1895, p. 203. 389
— Pileo crasso, carnosus hemisphærico v. convexo, obtuso v. sub-
umbonato, vix viscido, olivaceo-ochraceo, fibrillis rubris conspicue
virgato; lamellis subdistantibus, adnexis, primo subcinnamomeis,
dein ex ochraceo-rubro brunneis; stipite brevi, firmo solido, basi di-
latato et fibrilloso, pallide ochraceo; sporis subglobosis v. late el-
lipticis, 6¼-7¾ × 5¼-6¼.

Hab. sub quercubus, California (Mc CLATCHIE). — Pileus 8-10½
cm. latus; stipes circiter 5½ cm. longus, 1¾-2¾ cm. crassus.

8. **Cortinarius griseo-lilacinus** Britz. Hymen. Kunde, I, 1895, p. 11. 390
fig. 344. — Pileo glutinoso, lilacino vel griseo-lilacino; carne pallide
lilacina; lamellis distantibus v. subdistantibus, lilacinis v. lilacino-
rubiginosis; stipite glutinoso; annulo rufo; sporis luteis, 8 × 6, in
cumulo ochraceis.

Hab. in silvaticis in Bavaria.

9. **Cortinarius subflexuosus** Britz. Hymen. Kunde, I, 1895, p. 11, 391

fig. 345. — Pileo mucoso, albido-ochraceo; lamellis subdistantibus, carneo-violaceis; carne albido-lutea, in stipite albido-lilacina; stipite mucoso, albido; annulo cinnabarino; sporis fulvis, 9-10 \approx 7-8.

Hab. in silvaticis in Bavaria.

10. **Cortinarius subluteolus** Britz. Hymen. Kunde, I, 1895, p. 11, 392
fig. 346. — Pileo viscido, vitellino-albido; carne albida; lamellis pallide fulvis; stipite pileo concolori; annulo lateritio; sporis pallide luteis, 8 \approx 4, in cumulo ochraceis vel melleis.

Hab. in silvaticis in Bavaria.

11. **Cortinarius fulvo-luteus** Britz. Hymen. Kunde I, 1895, p. 11, 393
fig. 348. — Pileo vitellino, centro obscuriore, viscido; carne albida vel luteola; lamellis confertis, isabellinis vel gilvo-carneo-cinnamomeis; stipite viscido, albido, superne violaceo; sporis aureis, 9 \approx 8, in cumulo fulvis.

Hab. in silvaticis in Bavaria.

12. **Cortinarius perrarus** Britz. Hymen. Kunde I, 1895, p. 11, f. 349. 394
— Pileo non viscido, fibroso, sordide ochraceo vel brunneo-luteo; carne violacea, superne albida; lamellis confertis, griseo-violaceis; stipite sericeo, subundulato, griseo-violaceo; sporis aureis, 10-11 \approx 6, in cumulo rubiginoso-luteis; odore farinaceo.

Hab. in silvaticis in Bavaria.

13. **Cortinarius floccoso-fibrillosus** Britz. Hymen. Kunde, I, 1895, 395
p. 11, f. 350. — Pileo carneo, centro rubiginoso, margine adpresse fibroso-floccoso; carne sordide cinnamomea; lamellis rubro-cinnamomeis; stipite carneo, squamis rubiginosis; sporis luteis, 8 \approx 6.

Hab. in silvaticis in Bavaria.

14. **Cortinarius mellinus** Britz. Hymen. Kunde, I, 1895, p. 11, f. 351. 396
— Pileo non viscido, sordide melleo, squamoso-fibroso; carne mellea vel brunneo-mellea; lamellis dilute melleis, demum cinnamomeis; stipite dilute inelleo; annulo albo fibroso; sporis aureis, 10 \approx 8, in cumulo rubro-brunneis.

Hab. in silvaticis in Bavaria.

15. **Cortinarius dubitabilis** Britz. Hymen. Kunde, I, 1895, p. 12, 397
fig. 360. — Pileo luteo-rubro, subtiliter albido-fibroso; carne alba; lamellis confertis, isabellinis; stipite albo, dilute ferruginoso-fibroso; sporis luteolis, 9-10 \approx 3, in cumulo rubro-luteis.

Hab. in silvaticis in Bavaria.

16. **Cortinarius definiendus** Britz. Hymen. Kunde, I, 1895, p. 11, 398
fig. 354. — Pileo viscido subtiliter fibroso, rubiginoso-luteo; carne albida vel pallide brunneo-lutea; lamellis confertis, ochraceis vel

rubro-brunneis; stipite albido, fibrillis maculisque luteo-rubiginosis; sporis aureis, $8-9 \approx 6-7$, in cumulo rubiginoso-luteis.

Hab. in silvaticis in Bavaria.

17. **Cortinarius truncigenus** Britz. Hymen. Kunde, I, 1895, p. 10, 399
fig. 335. — Pileo viscido, albido-luteo, centro rubescenti-luteo; lamellis confertis, albidis vel carneis vel lilacino-brunneolis; stipite albo; sporis luteis, $8 \approx 5$, in cumulo rubro-luteis.

Hab. in silvaticis in Bavaria.

18. **Cortinarius lilacinipes** Britz. Hymen. Kunde, I, 1895, p. 10, 400
fig. 337. — Pileo viscido, aurantiaco; carne pallide lilacina; lamellis confertis, griseo-lilacinis v. violaceis v. rubro-luteis; stipite lilacino inferne albido; sporis $12-14 \approx 7-9$, in cumulo rubiginoso-luteis.

Hab. in silvaticis in Bavaria.

19. **Cortinarius cano-lilacinus** Britz. Hymen. Kunde, I, 1895, p. 10, 401
fig. 340. — Pileo viscido cano-lilacino, centro brunneolo; carne albida; lamellis subconfertis, cinnamomeis; stipite cano-lilacino, inferne albido; sporis luteis, $8 \approx 6$, in cumulo rubro-luteis.

Hab. in silvaticis in Bavaria.

20. **Cortinarius alpinus** Boud. Bull. Soc. bot. Fr. 1894, p. CCXLVI 402
et Bull. Soc. Myc. 1895, pag. 27, tab. II, fig. 1. (*Myxacium*). — Pileo subcarnoso, convexo-campanulato, firmo, viscido, fulvo-aureo, ad marginem pallidiore; stipite curto, valido, albo, ad basim subattenuatam ochraceo, sed glutine albido infra cortinam subannulatam tecto, supra evidenter sulcato, intus dein cavo; lamellis latis, adnatis, primo pallidis, dein læte cinnamomeis, acie pallidiore; sporis majusculis, oblongo-fusiformibus, ferrugineis sub lente composita aureis, hilo bene conspicuo, intus nebuloso-guttulatis, extus levibus, $16-20 \approx 7-9$.

Hab. in pascuis alpinis pr. hospitium Grand-Saint-Bernard, Helvetia. — Curtus. circiter 3 cm. altus et totidem latus, sat robustus.

21. **Cortinarius odorativus** Britz. Hymen. Kunde, III, 1897, p. 5, 403
fig. 371. — Pileo luteo. adpresse fibroso; carne alba, in medio stipitis caesia; lamellis confertis, griseo-caesiis, dein ochraceis; stipite ochroleuco; sporis ellipticis, luteis, uno apice acuminatis, $8 \approx 4$, in cumulo fulvis; odore grato.

Hab. in silvis pr. Epagny in Alpiibus.

22. **Cortinarius saporatus** Britz. Hymen. Kunde III, 1897, p. 5, fig. 404
369. — Pileo viscido, rubicundo-luteolo; carne alba; lamellis confertis, lutescenti-albis, dein griseo-carneis; stipite albido; sporis

levibus luteis, uno apice acuminatis, 12-13 \times 6-7, in cumulo brunneo-fulvis; sapore miti, grato.

Hab. in silvis pr. Epagny in Alpibus.

23. **Cortinarius rimosus** Peck, 48 Rep. 1896, p. 12. — Pileo carnoso, 405
firmo, convexo v. plano, glabro, pallide griseo-violaceo dein rubenti-brunneo tincto, cute in squamas adpressas erumpente dein varie rimosa; carne albida; lamellis latiusculis, distantibus, subventricosis, emarginatis, violaceis, demum ochraceo-brunneis; stipite æquali v. basi incrassatulo, cum cortina albo-sericeo, intus violaceo-tincto; sporis subellipsoideis, 10-12 \times 5-7, sæpius 1-nucleatis.

Hab. in graminosis silvaticis, Westport Amer. bor. — Pileus 5-10 cm. lat.; stipes 4-8 cm. long., 8-12 mm. cr. — *C. canino* subaffinis.

24. **Cortinarius Karstenii** Sacc. et Syd. Sic nominandus est *C. olivascens* Karst. Sacc. Syll. XI, p. 68, quum exstet anterior *C. olivascens* (Batsch) Fr.
25. **Cortinarius Montellicus** Sacc. et Syd. Sic dicendus est *C. lilacinus* Sacc., Syll. V, p. 926, extante anteriore *C. lilacino* Peck (1872).

Sect. 4. Melanosporæ

CHITONIA Fr. — Syll. V, p. 992; IX, p. 136. — Genus hoc *Clarkeinda* O. K. potius nominandum est ob homonymum a Mocino et Sessé anno 1824 institutum.

1. **Chitonía plana** Clem. Bot. Survey of Nebraska. IV, Lincoln. 1896, 406
p. 23. — Pileo carnoso, applanato, plano, glabro, ochraceo v. subfulvo; stipite brevi, firmo solido, superne attenuato, fibrilloso-squamuloso, fulvescente; volva ampla, adpressa, membranacea; lamellis liberis, ventricosis confertis, atro-cinnamomeis; sporis breviter ellipsoideis v. globosis, uniguttulatis, purpureo-fulvis, 5-6 \times 4-6.

Hab. in terra Nebraska Amer. bor. — Pileus 7 cm. latus; stipes 3 cm. altus, 2 mm. crassus.

CHITONIELLA P. Henn. in Engler u. Prantl, Natürl. Pflanzenfam. 1898, p. 240. (Etym. a *Chitonía* cui affinis), — Pileus apice volvæ fragmentis asper, fibrilloso-squamosus; stipes supra medium annulatus, cetera ut in *Chitonía*.

1. **Chitoniella poderes** (B. et Br.) P. Henn. l. c. — *Chitonía poderes* B. et Br. in Syll. V, p. 992.

Hab. in insula Ceylon.

AGARICUS Linn. em. — Syll. V, p. 993, IX, p. 137, XI, p. 69.

1. **Agaricus yucatanensis** Ell. et Ev. Field Columb. Mus. I, n. 3, 407
1896, p. 285. — Pileo 4-5 cm. diam., tenui, alutaceo, margine sulcato-striato. disco convexo, squamis minutis, innatis, obscurioribus, persistentibus tecto; lamellis modice confertis, tenuibus, 1 mm. latis, attenuato-liberis, margine integro; stipite gracili, 5-6 cm. alto, 2-3 mm. crasso, apice attenuato; annulo medio, angusto; sporis brunneis, ovato-ellipticis, $7 \approx 4$.

Hab. ad terram humosam, Yucatan Amer. centr. — Habitus *Lepiota* sed sporæ brunneæ.

2. **Agaricus campester** Fr.-Sacc. Syll. V, p. 799. — Var. **desertorum** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 38. — Pileo carnoso, convexo-plano v. depresso, 5-8 cm. lato, minute adpressequè squamuloso, fusco-umbrino, margine involuto, striato; carne firma, albido-rubella, dein pallide umbrina; stipite umbrino, cylindraceo, 3-8 cm. longo, fibroso, subfarcto, tenaci, bulbo solido, suberoso, radicato, annulo medio, membranaceo, albo; lamellis confertis, strictis, fusco-atris; sporis sphæroideo-ellipsoideis, fusco-umbrinis, $7-9 \approx 6 \mu$.

Hab. in sabulosis in Tunisia.

3. **Agaricus californicus** Peck, Bull. Torr. Bot. Club. 1895, p. 203. 408
— Pileo e subconico convexo, minute sericeo v. fibrilloso, disco purpureo v. brunneo-purpureo tincto; carne albida; lamellis densis, liberis, carneis, dein purpureis, denique nigro-brunneis; stipite sublongo, solido v. farcto, æquali v. sursum angustiore, ad anulum sericeum distincte et subabrupte angustato, pallido v. brunneo; sporis late ellipticis, $5\frac{1}{4}-6\frac{1}{2} \approx 4-5\frac{1}{4}$.

Hab. ad terram sub quercubus, California (Mc. CLATCHIE). — Pileus $2\frac{1}{2}-8$ cm. latus; stipes 4-8 cm. longus, $\frac{1}{2}-1$ cm. crassus. *A. hæmorrhoidario* Kalchbr. affinis, tactu immutatus.

4. **Agaricus Kiboga** P. Henn. Pilze Ostafri. p. 60 (*Psall.*). — Pileo carnoso. expanso. rufo-fusco, squamis latis adpressis imbricatis tecto, centro umbonato, obscuriore, margine tenui, 5 cm. diam.; stipite fibrilloso, basi bulboso, annulo inferiore, membranaceo, lacerato, 6-7 cm. longo, 4 mm. crasso; lamellis liberis, confertis, deinde atris; sporis ellipsoideis, fusco-purpureis, $6-8 \approx 4-5$.

Hab. ad terram in Africa trop. (HOLST). — Habitu externo *A. hæmorrhoidarii* Kalchbr.

STROPHARIA Fr. — Syll. V, p. 1012, IX, p. 138, XI, p. 70.

1. **Stropharia cæsifolia** Peck, Bull. Torr. Bot. Club. 1895, p. 489. 411

— Pileo convexo, glabro, albo v. albido, centro interdum brunneolo; lamellis confertis, rotundatis v. emarginatis, cæsiis v. cœruleo-brunneis; stipite æquali v. basi leniter incrassato, solido, glabro, albo v. albido; annulo albo; sporis subellipticis, 10-13 \times 6-8.

Hab. in pascuis sabulosis, Kansas Amer. bor. (BARTHOLOMEW).
— Pileus 2 $\frac{1}{2}$ -5 cm. latus; stipes 2 $\frac{1}{2}$ -4 cm. longus, 4-7 mm. crassus.

2. **Stropharia paradoxa** P. Henn. Myk. Not. I, 1895, p. 4. — Pileo 412

carnoso, campanulato, umbonato-papillato, 1 $\frac{1}{2}$ -2 cm. lato, viscoso, centro brunneo, margine late revoluta, levi glabroque; stipite flexuoso, striato, fibroso, subfistuloso, flavo, 11-12 cm. longo, 2-2 $\frac{1}{2}$ mm. crasso, basi subincrassato, albo-tomentoso, annulo atrofloccoso, secedente; lamellis diverse longis, ca. 10-11, aliis late ventricosis longioribus, adnatis, subdecurrentibus, aliis brevioribus, subdistantibus flexuosis, venosis, fusco-atris; sporis longe ovoideis v. subfusoides, levibus, fusco-brunneis v. atro-fuscis, 14-17 \times 7-10; basidiis clavatis.

Hab. in fimo pr. Berolinum Germaniæ.

3. **Stropharia caryophyllacea** Britz. Hymen. Kunde I, p. 8, fig. 266. 413

— Pileo luteolo-brunneo, fibroso-furfuraceo; lamellis confertis, griseo-brunneis; stipite albo, persistenter albido-annulato; sporis brunneis, 10 \times 4, in cumulo purpureo-nigris v. violaceo-nigris; odore caryophyllaceo, grato.

Hab. in silvaticis in Bavaria.

4. **Stropharia bilamellata** Peck, Bull. Torr. Bot. Club. 1895, p. 204. 414

— Pileo carnoso, convexo, albido v. luteolo; carne candida; lamellis confertis, adnatis, in maturitate purpureo-brunneis; stipite brevi, solido, albo; annulo bene evoluto, candido, in superficie striato-lamellato; sporis ellipticis, purpureo-brunneis, 10 $\frac{1}{2}$ \times 5 $\frac{1}{4}$ -6 $\frac{1}{4}$.

Hab. ad terram, California (Mc. CLATCHIE). — Pileus 2 $\frac{1}{2}$ -5 $\frac{1}{2}$ cm. latus; stipes circiter 2 $\frac{1}{2}$ cm. longus, $\frac{3}{4}$ cm. crassus.

5. **Stropharia capitosa** Britz. Hymen. Kunde III, 1897, p. 5, fig. 284. 415

— Pileo subglabro, albo, centro luteolo; carne alba; lamellis subconfertis, griseo-violaceis v. brunneolo-violaceis; stipite albo; sporis brunneis (non luteolis), 14 \times 8, in cumulo brunneis v. violaceo-brunneis; odore *Raphani sativi*.

Hab. in silvis in Bavaria.

6. **Stropharia coronilla** (Bull.) Fr.-Sacc. Syll. V, p. 1014. — Var. **vir-** 416
gata Pat. Cat. rais. pl. cell. Tunisie 1897, p. 38. — Pileo carnosus, orbiculari, convexo, fusco, centro brunneo, margine pallidiorè, fibrillis minutis, adpressis, brunneis undique virgato; lamellis subliberis, ex albido cinereo-purpurascens, tactu rufescentibus, ventricosus confertisque; stipite cylindræo, brevi, subfistuloso, sursum candido, infra anulum rufescente; annulo supero, pendulo, albo, rufomarginato; contextu pilei albo, pellicula tenui, fusca tecto; sporis ovoideis, levibus, pallide violaceis, 5-6 \approx 4; basidiis cylindræis, 4-sporis; cystidiis paucis, apice rotundatis, medio inflatis. basim versus attenuatis, tenuiter tunicatis, 20-25 \approx 8-10.

Hab. ad terram sub Quercubus in Tunisia. — Pileus 2 $\frac{1}{2}$ cm. latus; stipes 2 $\frac{1}{2}$ cm. longus. 6-9 mm. crassus.

7. **Stropharia coprinifacies** Roll. Bull. Soc. Mycol. 1898, p. 83, t. IX, 417
 f. 1. — Pileo parèe carnosus firmo, obtuso, hygrophano, conico-campanulato, dein expanso, jove pluvio valde viscoso, brunneo-fuliginoso, sicco canescente, mucò ærugineo maculato, 3-4 cm. lato; stipite fibrilloso, tenui, elongato, rigido, cavo, 8-10 cm. longo, 4 mm. cr., sordide albo, ærugineo-tincto; carne albida; annulo medio nigro-fibrilloso; lamellis attingentibus, ventricosis, purpureo fuligineis, acie albis; sporis oblongis, variis, usque 20 \approx 7.

Hab. dense gregaria ad lignum et acus Pini Laricionis in silva Vizzavona Corsicæ.

HYPHOLOMA Fr. — Syll. V, p. 1027, IX, p. 139, XI, p. 71.

1. **Hypholoma atrifolium**, Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 418
 p. 417. — Pileo submembranæo, primo convexo v. hemisphærico, dein late convexo, plerumque umbonato, minute et irregulariter sulcato, in maturitate apicem versus striato, hygrophano, udo ligneo-brunneo, sicco pallide luteo v. cremeo, velo fugaci; lamellis subdistantibus, adnatis, primo pallide brunneis, dein obscure brunneis v. subnigris; stipite gracili, fibrilloso, cavo, pallido v. cremeo; sporis obscure brunneis, ellipticis, 10 $\frac{1}{2}$ \approx 5.

Hab. in fruticetis in California (Mc. CLATCHIE). — Gregarium, subcæspitosum; pileus 2-5 $\frac{1}{2}$ cm. latus; stipes 2 $\frac{1}{2}$ -6 $\frac{1}{2}$ cm. longus, 2-6 mm. crassus. Ad *H. hymenocephalum* accedit.

2. **Hypholoma longipes** Peck, Bull. Torr. Bot. Club. 1895, p. 204. — 4 19
 Pileo tenui, campanulato, margine interdum obscure striato, fibrilloso, demum glabro, hygrophano, vivo luteolo-brunneo, sicco brunneo v. isabellino-brunneo, margine appendiculato: velo albo. flocc-

coso, fugaci; lamellis angustis, confertis, adnatis, albis v. albidis, demum subnigrescentibus, acie sæpe albida; stipite gracili, longo, cavo, apice striato, albo, basi tomento albo mycelioideo vestito; sporis ellipticis, $13 \approx 7 \frac{3}{4}$.

Hab. ad terram inter folia dejecta, California (Mc. CLATCHIE).

— Fragile; pileus $2 \frac{1}{2}$ -4 cm. latus; stipes 5-13 cm. longus, $\frac{1}{4}$ - $\frac{2}{3}$ cm. crassus.

3. ***Hypophoma cutifractum*** Peck, Bull. Torr. Bot. Club. 1895, p. 490. 420

— Pileo tenui, campanulato v. expanso, margine interdum subtiliter striato, griseo-alutaceo, disco interdum obscuriore, cuticula irregulariter rimosa; lamellis tenuibus, confertis, adnatis, ex albo v. albedo roseo-brunneis; stipite longo, gracili, cavo, glabro, albo; sporis ellipticis, brunneis, $7 \frac{3}{4} \approx 5$.

Hab. ad caudices *Populi italicæ*, Kansas, Amer. bor. (BARTHOLOMEW). — Pileus 2-5 cm. latus; stipes 8-10 $\frac{1}{2}$ cm. longus, 2-4 $\frac{1}{2}$ mm. crassus. — *H. incerto* affine.

4. ***Hypophoma jaluitense*** P. Henn. Notizbl. Königl. Bot. Gart. u. 421

Mus. Berlin. 1897. N. 7, p. 228. — Pileo membranaceo, carnosulo, convexo-explanato, dein depresso, pallide fusciscente, 1-1 $\frac{1}{2}$ cm. diam.; stipite fistuloso, tereti, albo, subnitente, fibrilloso, interdum annulato (annulo membranaceo, albo), basi incrassato, tomentosulo, 1 $\frac{1}{2}$ -2 cm. longus, 2-2 $\frac{1}{2}$ mm. crasso; lamellis adnatis, confertis, ex pallido violaceo-fuscis; sporis ellipsoideis, utrinque rotundatis, levibus, ex pallido fuscis, 7-8 $\frac{1}{2} \approx 4$ -4 $\frac{1}{2}$ μ .

Hab. ad ligna putrida, Marshall-Inseln. — *H. appendiculato* et *H. Candolleano* valde affine.

5. ***Hypophoma irroratum*** Karst. Hedw. 1896, p. 44. — Pileo car- 422

noso, tenui, convexo-plano, gibbo, levi, fulvo-melleo, marginem versus micore sericello-argenteo, c. 4 cm. lato; stipite tenaci, fibrilloso-sericeo, pallescenti, æquali, inferne flexuoso, ferrugineo tomentoque denso concolori obvoluto, radicato, c. 13 cm. alto et 5 mm. crasso; lamellis adnatis, confertis, sat angustis, acie dentatis, stramineo-pallidis, dein obscurioribus obsoletissimeque virentibus, sporis ellipsoideis, hyalinis, uniguttulatis, 6-8 \approx 4.

Hab. in sphagnosis inter muscos pr. *Mustiala* in Fennia. — Sapor et odor valde amarus. Solitarium. A *H. disperso* Fr. proximo micore pilei sericello-argenteo, stipite sapore statim dignoscendum.

6. ***Hypophoma papillatum*** Pat. Bull. Soc. Mycol. 1898, p. 54, t. VII, 423

f. 3 — Pileo carnosulo, convexo, glabro, acute umbonato, sicco,

flavo-olivaceo, centro fusco, 15-20 mm. diam., levi; stipite rigido, tenaci, cylindraceo, flavo, intus farcto, 30-40 mm. long., 3 mm. cr.; lamellis adnexis, sulphureo-virescentibus, confertis; sporis fuscis, ovoideis, apice poro impressis 6-8 \times 4.

Hab. in truncis cariosis in Mexico (MAURY). — Species cæspitosa *H. fasciculari* proxima.

7. **Hypholoma peltostes** Kalchbr. in Mc. Alp. Arrang. Austral. Fungi 424
1893, p. 32. — Carnosum, viscidum, scutiforme, demum atro-luridum; stipite deorsum incrassato basique abrupte radicante pilosoque.

Hab. ad terram, N. S. Wales Australiae.

PSILOCYBE Fr. — Syll. V, p. 1043, IX, p. 140, XI, p. 72.

1. **Psilocybe sabulosa** Peck, Bull. Torr. Bot. Cl. 1897, p. 144. — 425
Pileo convexo subumbonato, glabro, luteo; lamellis latis, subdistantibus, ventricosis, adnatis, demum purpurascenti-brunneis, acie albidis; stipite æquali, cavo, pallido v. stramineo; sporis ellipticis, 13-16 \times 8.

Hab. ad terram sabulosam Kansas Amer. bor. (BARTHOLOMEW). — Pileus 2-2 $\frac{3}{4}$ cm. latus; stipes 2 $\frac{1}{2}$ -4 cm. longus, circiter 2 mm. crassus.

2. **Psilocybe obscura** Peck, Bull. Torr. Bot. Cl. 1897, p. 144. — 426
Pileo tenui, convexo, hygrophano, striato, tomento albo floccoso plus minusve adperso, brunneo v. rubescenti-brunneo; lamellis latis, subdistantibus, adnatis, e brunneo subnigris, acie albo-flocculentis; stipite gracili, cavo, pileo pallidiore, basi albo-tomentoso; sporis ellipticis, 10 $\frac{1}{2}$ -13 \times 6 $\frac{1}{2}$ -8.

Hab. in silvis in Kansas Amer. bor. (BARTHOLOMEW). — Pileus 1-2 cm. latus; stipes 2 $\frac{1}{2}$ -4 cm. longus, circiter 2 mm. crassus.

3. **Psilocybe samoensis** P. Henn. in Engl. Jahrb. XXIII; 1896, p. 427
283. — Pileo carnosulo, tenui, convexo expanso, vertice conico papillato, levi glabroque, ferrugineo, 7-10 mm. diam.; stipite subfistuloso, pallido, levi, basi subincrassato, 13-16 mm. longo, ca. 1 mm. crasso; lamellis adnatis, subconfertis, fusco-cinnamomeis; sporis ellipsoideis v. subovoideis, basi apiculatis, pallide fuscis, 8-9 \times 6-7.

Hab. in nucibus Cocos putridis in silvis humidis in ins. Upolu ins. samoëns. (WEBER).

PSATHYRA Fr. — Syll. V, p. 1060, IX, p. 142, XI, p. 73.

1. **Psathyra roseola** Clem. Bot. Survey of Nebraska IV, Lincoln. 423

1896, p. 23. — Pileo hemisphærico v. convexo, membranaceo, glabro v. minute micaceo, irregulariter ruguloso, udo vinoso, sicco incarnato; stipite fragili, fistuloso, nitido, glabro, apice granulis paucis magnis farinaceis vestito; lamellis leniter remotis, purpureo-cinnamomeis; sporis ellipsoideis, obscure purpureis, 12-13 \approx 7-8.

Hab. in terra Nebraska Amer. bor. — Pileus 1-2 $\frac{1}{2}$ cm. latus; stipes 4-8 cm. longus, 2 mm. crassus.

2. **Psathyra Schwabeana** P. Henn. Notizbl. Königl. Bot. Gart. u. 429

Mus. Berlin, 1897, N. 7, p. 248. — Pileo membranaceo, convexo-explanato, ex pallido fusco-brunneo, radiatim striato-subsulcato, centro venoso-rugoso, obscuriori, 1-2 cm. diam.; stipite fistuloso, tereti, glabro levique, albo, 8-16 mm. longo, 1-2 mm. crasso, basi incrassato, strigoso-tomentoso, brunneolo; lamellis adnatis, confertis, subventricosis, fusco-brunneis; sporis ellipsoideis, levibus, fuscis vel fusco-atris, 7-9 \approx 4-4 $\frac{1}{2}$ μ .

Hab. ad truncos putridos, Marshall-Inseln. — *Ps. obtusata* Fr. affinis.

3. **Psathyra Typhæ** Kalchbr.-Sacc. Syll. V, p. 1067. — Var. **Iridis** 430

Boud. Bull. Soc. Mycol. de France, 1897, p. 13, tab. I, fig. III. Minuta, 2-4 cm. alta, gracilis; pileo umbonato, fragili, fusco, ad marginem longe striato, supra præcipue ad umbonem rugoso-rivuloso, semipellucido; pediculo elongato, gracili, 1-1 $\frac{1}{2}$ mm. crasso, intus cavo, albo aut pallide fuscescente, ad apicem farinaceo, infra medium leviter flocculoso et annulo floccoso albido cingulato, ad basin bulboso sæpe pubescente et mycelio membranaceo albo ad folia adfixo; lamellis primo pallidis, dein fuscis posteaque fusco-purpureis, acie serrulatis, subliberis; sporis ellipticis pallide fusco-cinereis, plerumque fusco-badiis, intus nebulosis, 10-13 \approx 6-7.

Hab. ad folia putrida Iridis paludosæ, rarius Caricum vel Sparganiorum, in paludosis silvaticis in Gallia.

4. **Psathyra umbonata** Peck, 50 Rep. p. 106, (1897). — Pileo sub- 431

membranaceo, campanulato, umbonato, hygrophano, udo purpureo-brunneo, striatuloque, sicco griseo-albido, levi v. ruguloso, atomato, umbone pallidiore; lamellis latiusculis, confertiusculis, ventricosis, subadnatis, brunneo-rufis, dein purpureo-brunneis, demum nigricantibus; stipite tenui, flexuoso, cavo, albo, basi tomentosulo, supra pruinoso; sporis nigro-brunneis v. subnigris, 12-15 \approx 7.

Hab. ad detrita lignea, Lake Pleasant Amer. bor. — Affinis *Ps. corrugi*.

BOLBITIUS Fr. — Syll. V. p. 1073, IX, p. 143, XI, p. 74.

1. **Bolbitius marcescibilis** Britz. Hymen. Kunde, I, p. 10, fig. 6. — 432
 Pileo tenuissimo, submitido, luteo-rubro-brunneo, margine pallidiorē; lamellis subconfertis, sordide rubris v. rubro-brunneis; stipite albedo vel luteolo-rubro; sporis saturate luteis vel aureis, 16 \approx 8, in cumulo rubiginosis vel sordide rubris.

Hab. in fragmentis putridis in Bavaria.

2. **Bolbitius radians** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, 433
 p. 36, tab. I, fig. 1. — Pileo carnosio-membranaceo, convexo-expanso, depresso, sulcato, viscido, pallide carneo v. ferrugineo, demum obscuriore; stipite plus minus elongato, sursum attenuato, cavo, flocculoso, albo; lamellis liberis, ferrugineis; sporis ferrugineis, ellipticis, 12-14 \approx 8.

Hab. in stramine putri, in fimo equino, Canada (DEARNESS), Ohio (MORGAN) Amer. bor. — Pileus 4-6 cm. diam.; stipes 6-10 cm. longus.

COPRINUS Pers. — Syll. V, p. 1078, IX, p. 144, XI, p. 75.

1. **Coprinus Rostrupianus** Hansen. Botanische Zeit. 1897, VII, p. 125, 434
 tab. II, fig. 5-7. — Pileo tenui, ex campanulato explanato, albotomentoso, decidue squamuloso; stipite albo, sursum attenuato et glabro, deorsum pubescente, basi tomento albo vestito; lamellis liberis, linearibus v. anguste lanceolatis, e griseo nigricantibus; sporis irregulariter ovoideis v. globosis, umbonatis, levibus, breve stipitatis, atro-brunneis, 8-19 μ . diam., plerumque 10-15; cystidiis lanceolatis v. clavatis.

Hab. in stercore vaccino et equino in Dania. — Mediocris; *Coprino niveo* (Pers.) Fr. proximus.

2. **Coprinus arenarius** Pat. Enum. Champ. Tunisie, 1892, p. 3, tab. I, 435
 fig. 2. — Pileo vix carnosio, primitus rotundato, dein expanso-convexo, 8-12 cm. lato, 4-6 cm. alto, levi, non striato, glabro, sericeo, albo v. griseo, apicem versus squamis magnis imbricatis albis firmis crassisque tecto; lamellis numerosis, confertis, nigris, adnexis; stipite cylindraceo, albo, levi glabroque, cavo, demum in longitudine striato, 10-15 cm. longo, firmo, 8-12 mm. crasso; basi stipitis incrassato, elongato, solido, lignoso, intus albo et 3 cm. circiter longo; annulo mobili, fugaci, albo; sporis virescenti-nigris, ovalibus, levibus, magnis, 16-20 \approx 10-12, apice truncatis, basi apiculatis.

Hab. in sabulosis in Tunisia.

3. **Coprinus calyptratus** Peck, Bull. Torr. Bot. Club. 1895, p. 205. — 436
 Pileo in maturitate squamulis paucis, griseis, floccosis ornato, ca-

lyptra persistenti, stellato-fissa, membranacea, brunneo-lutea v. subalutacea coronato, discum versus radiato-striato, ad strias griseo-flocculoso, nigro; lamellis liberis, obscure alutaceis, demum nigris; stipite æquali, cavo, albo, tactu mox nigrescente basi excepto, non annulato et non distincte volvato; sporis ellipticis, nigris, $15\frac{1}{2}$ - $21 \approx 12$ - 13 .

Hab. ad terram cultam, Kansas Amer. bor. (BARTHOLOMEW). — Pileus circiter $5\frac{1}{2}$ cm. latus; stipes 8-13 cm. longus, $\frac{1}{2}$ - $\frac{2}{3}$ cm. crassus.

4. **Coprinus lanato-furfurosus** Britz. Hymen. Kunde I, 1895, p. 9, 437
fig. 277. — Pileo albo vel albido-griseo, centro luteo-brunneo, lanuginoso-furfuraceo-farinoso; lamellis confertis vel subconfertis, griseis, dein nigris; stipite albo, diaphano; sporis brunneo-nigris, impellucidis, $16 \approx 10$, in cumulo nigris.

Hab. in fimo equino in Bavaria.

5. **Coprinus incrassatus** Britz. Hymen. Kunde I, 1895, p. 9, fig. 276. 438
Pileo albo vel griseo-albo, pulverulento-tomentoso; lamellis confertis, nigris, margine sæpe albis; stipite albo, fibroso-floccoso; sporis brunneo-atrovirentibus, impellucidis, $16 \approx 8$, usque ad 12-14 μ . latis, in cumulo nigris.

Hab. in fimo equino in Bavaria.

6. **Coprinus pulverulento-floccosus** Britz. Hymen. Kunde I, 1895, 439
p. 9, fig. 275. — Pileo albo, tenue farinaceo-floccoso; lamellis primo albicantibus, dein rubro-griseis, denique nigris; stipite albo, tenue piloso-fibroso; sporis obscure brunneis, impellucidis, $12 \approx 10$, in cumulo nigris.

Hab. in fimo vaccino in Bavaria.

7. **Coprinus fuscellus** Britz. Hymen. Kunde I, 1895, p. 9, fig. 275a. 440
— Pileo sulcato, luteo-brunneo, centro brunneo, margine griseo; lamellis primo albicantibus, vel brunneolis, dein pullis; stipite albido, sæpe inferne brunneolo; sporis brunneis vel aureo-brunneis, 6 - $8 \approx 5$, in cumulo nigris.

Hab. ad terram in Bavaria.

8. **Coprinus grandisporus** P. Henn. Hedw. 1895, p. 331. — Pileo 441
membranaceo, campanulato, dein explanato, sulcato plicatoque, centro squamuloso, pallidiore, brunneo-fusco, dein aterrimo, usque ad 5-6 cm. diam.; stipite cavo, gracili, usque ad 15 cm. alto, 3-6 mm. crasso, levi, glabro, pallido, basi bulbilloso; lamellis adnatis, confertis, lanceolatis, dein nigris; sporis ellipsoideis, apiculatis, nigris, 17 - $23 \approx 12$ - 15 .

Hab. ad terram in Erythraea (SCHWEINFURTH).

9. **Coprinus laniger** Peck, Bull. Torr. Bot. Club. 1895, p. 491. — 442

Pileo tenui, conico v. campanulato, squamis numerosis, tomentosus v. floccosis, demum fugacibus tecto, apicem versus sulcato-striato, pallido, griseo-ochraceo v. luteo-griseo; lamellis confertis ex albedo brunneolo-nigris; stipite basi vix incrassato, minute pubescente v. pruinoso, cavo, albo; sporis oblongo-ellipticis, plerumque 1-nucleatis, $8-10\frac{1}{2} \approx 4$.

Hab. caespitosus ad basim truncorum Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). — Pileus, $\frac{1}{2}$ -3 cm. latus; stipes fere $2\frac{1}{2}$ cm. longus, 2-5 mm. crassus. *C. micaceo* affinis.

10. **Coprinus apiculatus** Peck, Bull. Torr. Bot. Club. 1895, p. 206. 443

— Pileo membranaceo, campanulato v. profunde convexo, acuto v. apiculato, furfuraceo, discum versus plicato-striato, griseolo; lamellis paucis, subdistantibus, stipitem attingentibus, nigris; stipite filiformi, glabro, albo; sporis ellipticis, nigris, $7\frac{3}{4} \approx 4$.

Hab. ad terram, Pennsylvania Amer. bor. — Pileus circiter $\frac{2}{3}$ cm. latus; stipes $2\frac{1}{2}$ -4 cm. longus, 1 mm. crassus.

11. **Coprinus Jonesii** Peck, Bull. Torr. Bot. Club. 1895, p. 206. — 444

Pileo submembranaceo, campanulato, demum late convexo v. expanso, margine mox lacerato revolutoque, in juventute apice truncato, primo squamis alutaceo-griseis v. pallide cervinis floccosis ubique tecto, dein nudo v. subnudo, rimoso-sulcato; lamellis confertis, linearibus, liberis, ex albo v. albedo nigris; stipite æquali v. sursum vix acutato, minute floccoso, floccoso, cavo, albo; sporis nigris, late ellipticis, $7\frac{3}{4}$ -9 $\approx 6\frac{1}{2}$.

Hab. in cella vinaria, Vermont Amer. bor. (JONES). — Fragilis, interdum caespitosus; pileus $2\frac{1}{2}$ - $5\frac{1}{2}$ cm. latus; stipes $5\frac{1}{2}$ -8 cm. longus, $\frac{1}{2}$ - $\frac{2}{3}$ cm. crassus. *C. fimetario* valde affinis, a quo differt præcipue apice pilei truncato, squamis et sporis minoribus.

12. **Coprinus ebulbosus** Peck, Bull. Torr. Bot. Club. 1895, p. 491. 445

— Pileo tenui, campanulato, squamis latis, superficialibus, persistentibus, albidis variegato, superficie sub cuticula leviter striata, griseo-brunneo, margine demum revoluto, lacerato; lamellis angustis, tenuibus, confertis, liberis, schistaceis, demum nigris; stipite æquali, cavo, albo; sporis ellipticis, $8-10\frac{1}{2} \approx 5$.

Hab. caespitosus ad basim truncorum Populi moniliferæ, Kansas, New York Amer. bor. — Pileus 5-8 cm. latus; stipes 8-16 cm. longus, 4-7 mm. crassus. *C. picaceo* valde affinis.

13. **Coprinus purpureophyllus** Jacobasch, Allgem. Bot. Zeitschr. 1896. 446

p. 146. — Pileo initio subcylindraco, dein conico-campanulato, lacero, diaphano, 1,5-3 cm. lato, 1-2,5 cm. alto, pallide griseo-luteo, usque ad verticem plicato-sulcato, squamulis griseis, mox evanidis tecto; lamellis ex albo intense violaceo-purpureis, demum nigro-purpureis, linearibus, adscendentibus, confertis, adnexis, deliquescentibus; stipite albo, sericeo, plerumque curvato, ex basi subbulboso strigoso-villoso sursum sensim angustato, apice albo-farinaceo, ceterum glabro, fistuloso, fragilissimo, 6-7 cm. longo, basi 0,3-0,5 cm., apice 0,2-0,3 cm. crasso; sporis ellipticis, ovoideo-ellipticis v. oblique ellipticis, apice interdum truncatis, 1-2-guttulatis, purpureo-brunneis, $7\frac{1}{2}$ - $8\frac{1}{2}$ \approx $5\frac{1}{2}$; odore nullo; sapore subamaro.

Hab. in ramis betulinis in prov. Brandenburgia Borussiæ.

14. **Coprinus comatus** Fr.-Sacc. Syll. V, p. 1079. — Var. **breviceps** 447 Peck, 49 Rep. Stat. Bot. N. Jork 1896, p. 29. — Pileo subovato, dein expanso, brevior ac latiore quam in typo, 4-7 cm. alto.

Hab. ad terram, Albany Amer. bor.

15. **Coprinus gigasporus** Masee, Ann. of Bot. 1896, p. 157, fig. 3-5. 448 — Pileo elliptico, campanulato, demum revoluto, nigro, primo squamis albis adperso, demum discum versus striato, 5-6 cm. alto; lamellis liberis, distantibus, nigris; stipite 12-17 cm. longo, niveo, æquali, cavo; sporis ellipticis, utrinque obtusis, nigris, 28-30 \approx 14-16.

Hab. in fimo, Brisbane Australia.

16. **Coprinus Strossmayeri** Schulzer, Verh. Zool. Bot. Ges. Wien. 449 XXVIII, p. 430; Masee Ann. of Bot. 1896, p. 163. — Pileo digitaliformi, dein conico-campanulato, albido-griseo, apice obscuriore, demum pallide ochraceo, squamis superficialibus secedentibus squarrosis tecto, non striato, 5-8 cm. lato; lamellis liberis; stipite 4-16 cm. longo, erecto v. ascendente, albo, pruinoso, e mycelio nigro-brunneo, compacto, ramoso oriundo; sporis 7-9 μ . longis.

Hab. ad radices arborum in Austria.

17. **Coprinus subcæruleo-griseus** Schulzer, Verh. Zool. Bot. Ges. 450 Wien. XXVIII, p. 431; Masee, Ann. of Bot. 1896, p. 156. — Pileo delicato, acute conico, dein plano, leviter striato, disco pallide subcæruleo-griseo, squamis minutis fugacibus tecto, $1\frac{1}{2}$ -2 cm. alto latoque; lamellis adnexis; sporis 10-13 \approx 6-8; stipite 3-4 cm. longo, albo, pruinoso-floccoso, dein glabro, cavo.

Hab. in fimo equino in Austria.

18. **Coprinus Gilletii** Jacobasch, Allgem. Bot. Zeitschrift. 1896, p. 146. 451 *Coprinus intermedius* Gill. Champ. Fr. fasc. ult. p. 6 et planch. nec Penzig. — Pileo tenui, ovato-campanulato, cinereo, disco flavo,

initio pulverulento, dein glabro, margine striato; lamellis nigricantibus (6-9 c.) ovato-elongatis; stipite gracili, glabro, cavo, annulato; annulo membranaceo, distanti, fixo et erecto.

Hab. in fimo equino in Gallia.

19. **Coprinus australiensis** Masee, Ann. of Bot. 1896, p. 171, fig. 452
31-32. — Pileo elliptico, mox plano, demum revoluta, umbonato, subglabro, pallide flavo-brunneo, demum marginem versus cinerescente, disco obscuriore, striato, 5-7 cm. lato; carne tenuissima; lamellis liberis, latis, nigris, subdeliquescentibus, acie albidis; stipite 10-14 cm. longo, subæquali, albedo; sporis limoniiformibus, nigris, 17-18 × 10-12.

Hab. in fimo, Brisbane Australiæ.

20. **Coprinus Baumannii** P. Henn. Engl. Jahrb. XXIII, p. 552. — 453
Pileo tenui membranaceo, ex ovato-cylindræco campanulato, dein expanso, vertice depresso subumbilicato, pallido-cinereo, substriato, levi, glabro, margine dein revoluta, 7-8 mm. diam.; stipite gracili æquali, cavo, levi, glabro, basi curvato, pallido, 15-17 mm. longo, 1 mm. crasso; lamellis adnatis, angustis, linearibus, ex pallido atris; sporis globosis, levibus, atris, 12-14 μ .

Hab. in truncis putridis in Togo Afr. occ. (BAUMANN). — Habitu externo *C. plicatilis*, sed sporis globosis diversa species.

21. **Coprinus Preussii** P. Henn. Engl. Jahrb. XXIII, p. 552. — 454
Pileo carnoso, submembranaceo, ovoideo-cylindræco campanulato-expanso, vertice applanato-umbilicato, glabro, radiatim striato subsulcato, griseo-badio, 2-2½ cm. alto, 3-4 cm. lato; stipite cylindræco, æquali, cavo, pallido, fibrilloso, 7-11 cm. longo, 5-8 mm. crasso; lamellis affixis, confertis, ventricosis, primo pallidis, dein nigris; sporis ellipsoideis, 1-guttulatis, levibus, atris, 6-8 × 4-5.

Hab. in Camerunia (PREUSS). — *C. fuscescenti* affinis.

22. **Coprinus quadrifidus** Peck, 50 Rep. p. 106 (1897). — 455
ovali dein campanulato, demum plus minus expanso, margine revoluta, atate juniore velo floccoso tomentoso, dein in squamulas fatiscente vestito demum denudato et cutem tenuiter striatam ostendente, albedo dein griseo v. griseo-brunneo, margine undulato v. inæquali; lamellis latis, tenuibus, confertis, liberis, albidis, dein atro-purpureo-brunneis, postremo nigris; stipite æquali v. sursum leniter tenuato, cavo, floccoso squamuloso, albo, interdum prope basin annulo floccoso-evanescente prædito; sporis brunneo-nigris 7-8 × 4-5.

Hab. gregatim v. cæspitose in detritis ligneis v. humo uligi-

nosa sub arboribus, Portage Amer. bor. — Pileus 5-7 cm. lat.; stipes 7-10 cm. long., 6-8 mm. cr. Senio pileus centro perforatur et in lacinias 4-5 dividitur.

23. **Coprinus Staudtii** P. Henn. Engl. Jahrb. XXIII, p. 551. — 456

Pileo ovoideo, dein campanulato-explanato, membranaceo, vertice obtuse depresso, granuloso, rufo-brunneo, striato subplicatoque, flavo-griseo, circiter 1 cm. alto, 1-1 1/2 cm. diam.; stipite fistuloso, pallido, pruinoso, 1 1/2 cm. alto, 2 mm. crasso, æquali; lamellis adnatis, lanceolato-ventricosis, confertis, primo pallidis, deinde atris; sporis ovoideo-ellipsoideis, levibus, atris, 10-12 × 7-8.

Hab. locis umbrosis et siccis in Camerunia (STAUDT). — *C. micaceo* Fr. affinis.

24. **Coprinus attenuatus** Gill. Champ. Fr fasc. ult. p. 6, cum ic. — 457

Pileo carnosulo, conico-campanulato, levi, glabro, margine sulcato, arescendo elevato-inflexo, vertice flavescente; lamellis adhærenti-liberis, ventricosis, latis, demum brunneo-rubrescentibus; stipite longo, gracili, cavo, basim versus attenuato; sporis ovoideis nigricantibus.

Hab. ad terram humosam, uliginosam in Gallia sept.

25. **Coprinus Forquignonii** Jacob. Allg. bot. Zeitschr. 1896. Sic nominandus est *Coprinus Quéletii* Forqu.-Sacc. Syll. IX, p. 146 - quum exstet anterior *C. Quéletii* Schulz. Sacc. Syll. V, p. 1102. — Sec. Cooke in litt. exstaret *Coprinus flavipes* Pat. in Bull. Soc. mycol. Fr., sed in hoc opere desideratur.

PANÆCLUS Fr. — Syll. V, p. 1118, IX, p. 147, XI. p. 77.

1. **Panæolus Bubalorum** Pat. Journ. de Bot. 1897, p. 339. — Pileo 458
carnoso, campanulato, obtuso, levi glabroque, 1-5 cm. diam., sordide albo; stipite cylindrico æquali, striato, exannulato, 6-10 cm. longo, 3-5 mm. crasso; lamellis nigro-brunneis, adnatis; sporis nigris, ovoideo-citriformibus, 15 × 12.

Hab. in fimo bovino in Tonkin.

2. **Panæolus digressus** Peck, Bull. Torr. Bot. Club. 1895, p. 205. 459

— Pileo hemisphærico v. convexo, glabro, rubro-brunneo; lamellis latissimis, distantibus, adnatis, purpureo-nigris, acie albida; stipite brevi, basim versus floccoso-fibrilloso, apice striato, cavo, pallidiore; sporis late ellipticis, 13-15 1/2 × 9-10 1/2

Hab. in fimo, California (Mc. CLATCHIE). — Pileus 1-1 1/2 cm. latus; stipes circiter 2 1/2 cm. longus, 1/4 cm. crassus.

3. **Panæolus intermedius** Peck, Bull. Torr. Bot. Club. 1895, p. 205. 460

— Pileo campanulato v. convexo, glabro, udo v. hygrophano, griseolo-brunneo; lamellis ascendentibus v. subarcuatis, subdistantibus, adnatis, in maturitate nigris; stipite gracili, sæpe elongato, cavo, griseo-brunneo, apice albo-pruinoso; sporis oblongo-ellipticis, $13-15\frac{1}{2} \approx 6\frac{1}{2}-7\frac{3}{4}$.

Hab. ad terram, in rejectamentis, California (Mc. CLATCHIE).

— Pileus $1\frac{1}{3}-2\frac{2}{3}$ cm. latus; stipes $5-10\frac{1}{2}$ cm. longus, $1-2\frac{1}{4}$ mm. crassus.

PSATHYRELLA Fr. — Syll. V, p. 1126; IX, p. 149, XI, p. 77.

1. **Psathyrella minuta** P. Henn. Engl. Jahrb. XXIII, p. 552. — 461

Pileo tenui membranaceo, campanulato-explanato, cinereo-flavescenti, levi, glabro, margine substriato, 3 mm. diam.; stipite tenuissimo, albo, levi, glabro, basi discoideo, 5-8 mm. longo, vix $\frac{1}{3}$ mm. crasso; lamellis rotundato-adnatis, latis, subventricosis, haud confertis, e pallido purpurascens; sporis ellipsoideis, levibus, subtropurpureis, $4\frac{1}{2}-5\frac{1}{2} \approx 3\frac{1}{2}$.

Hab. in ligno in Togo Afr. occ. (BAUMANN). — *P. disseminata* et *P. consimili* affinis.

2. **Psathyrella debilis** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 418. 462

— Pileo membranaceo, campanulato, umbonato, umbonem versus striato, subhyalino, albido, demum griseolo; lamellis tenuibus, angustis, confertis, adnatis, ex albido nigris; stipite gracili, debili, flexuoso, nunquam erecto, cavo, albo; sporis late ellipticis, $13 \approx 8$.

Hab. in truncis putridis, Kansas Amer. bor. (BARTHOLOMEW). — Pileus $1\frac{1}{2}-3\frac{1}{2}$ cm. latus; stipes 5-8 cm. longus, $2-3\frac{1}{2}$ mm. crassus. Statura *Psathyra gyroflexæ*.

3. **Psathyrella gracillima** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 463

p. 417. — Pileo membranaceo, convexo v. subplano, demum discum versus striato, cæsi, disco luteo et plerumque compresso; lamellis tenuibus, confertis, postice rotundatis, adnatis v. subliferis, in juventute dilute schistaceis, demum nigris; stipite gracili, elongato, erecto, cavo, albido v. cremeo; sporis oblongo-ellipticis, $14-16 \approx 6-8$.

Hab. in ligno humido, Kansas Amer. bor. (BARTHOLOMEW). — Pileus $1\frac{1}{2}-4$ cm. latus; stipes 8-13 cm. longus, fere 2 mm. crassus. E vicinia *Psathyrellæ hiascentis*, *Ps. trepidæ*, *Ps. hydrophoræ* etc., sed cum nulla harum apte conjungenda.

4. **Psathyrella graveolens** Sacc. Atti d. Soc. Ven. — Trent. di Sc. 464
Nat. 2 ser. 2 vol. 2 fasc. 1896, p. 26 extr. tab. I, fig. 1 et Bull.

Soc. Myc. de Fr. 1896, p. 76. — Pileo convexo, expanso, obtuse umbonato, atro-fusco, sericeo-atomato; lamellis sat confertis, latiuscule lanceolatis, sinuatis, nigricantibus; stipite gracili, cylindrico, glabro, fusco; basidiis ovato-clavatis, curtis, 12-16 \times 5-6, apice sterigmata quaterna, breviter gerentibus; sporis ovoideis v. ovoideoblongis, 5-6 \times 2, brunneis; cystidiis ovoideis basidio brevioribus.

Hab. ad humum in caldariis horti botan. Patavini, Italia. — Pilei superficies ex cellulis amplis, globosis, prominentibus atomata. Odore gravi fere Hydnum nec non sporarum exiguitate a ceteris affinis differt. Species forte exotica.

5. **Psathyrella leucostigma** Peck, Bull. Torr. Bot. Club. 1895, p. 490. 465

— Pileo submembranaceo, campanulato, striato, udo cæsio-albo, sicco spadiceo, sed apice albido; lamellis confertis, ex alutaceo nigris, acie albida; stipite gracili, flexuoso, cavo, albo; sporis nigris, ellipticis, 13-16 \times 8.

Hab. ad terram udam umbrosam, Kansas Amer. bor. (BARTHOLOMEW). — Pileus 9-14 mm. latus; stipes 2-4 cm. longus, 2 mm. crassus.

6. **Psathyrella Bartholomæi** Peck, Bull. Torr. Bot. Club. 1895, p. 490. 466

— Pileo tenui, subconico v. convexo, glabro, marginem versus striato, pallide brunneo; lamellis confertis, subplanis, adnatis, e brunneolo nigris; stipite gracili, flexuoso, cavo, fibrillis paucis griseolis ornato, pallide brunneo; sporis ellipticis, 10-13 \times 5-6 $\frac{1}{2}$.

Hab. ad terram umbrosam, Kansas Amer. bor. (BARTHOLOMEW).

— Pileus 1 $\frac{1}{3}$ -3 cm. latus; stipes 2 $\frac{1}{2}$ -4 cm. longus, 2 mm. crassus.

7. **Psathyrella hirta** Peck, 50 Rep. p. 107, (1897). — Pileo tenui, 467

hemisphærico, initio pilis erectis v. patentibus, fasciculatis, facile detersibilibus prædito, hygrophano, udo brunneo v. rubro-brunneo, leviter striato, sicco griseo-brunneo v. albido, carne subconcolore; lamellis latis subconfertis, adnatis, dente documenti sæpe auctis, pallidis demum nigricanti-brunneis v. nigris; stipite flexuoso, squamoso, cavo, nitido, albo; sporis ellipsoideis, nigris, 12-14 \times 6-7.

Hab. subcæspitosa ad terram stercoreatam umbrosam, Adirondack Mount. Amer. bor. — Pileus 8-12 mm. lat.; stipes 2,7-5 cm. long., 2-3 mm. cr.

8. **Psathyrella Clementsii** Sacc. et Syd. Sic nominanda est *Psathyrella sulcata* Clem.-Sacc. Syll. XI, p. 78, ob homonymam *Ps. sulcatam* Dun.

GOMPHIDIUS Fr. — Syll. V, p. 1137, XI, p. 68.

1. **Gomphidius nigricans** Peck, 48 Rep. 1896, p. 12. — Pileo convexo 468
v. subplano, pallide brunneo-rubro, glutine arescendo nigricante
illinito; carne firma, albida; lamellis distantibus, decurrentibus,
nonnullis furcatis, albis, demum fumoso-brunneis, in sicco nigris;
stipite subæquali diametrum pilei superante, glutinoso, solido, initio
albido, dein nigrescente, intus albido, basi rubro-tincto; sporis
oblongo-fusoideis, 15-25 × 6-7.

Hab. inter coniferas, Westport Amer. bor. — Pileus 2,5-5 cm.
lat.; stipes 4-7 cm. long., 4-8 mm. cr.

Fam. 2. Polyporaceæ Fr.

VOLVOBOLETUS P. Henn. in Engler u. Prantl, Natürl. Pflanzenfam.
1898, p. 196. — (Etym. a *volva* et *Boletus*, cui affinis). — Stipite
volvato a *Boleto* recedens.

1. **Volvoboletus volvatus** (Pers.) P. Henn. l. c. — *Gyrodon volvatus*
(Pers.) Opat. in Syll. VI, p. 51.

Hab. in silva pr. Mans in Gallia.

BOLETOPSIS P. Henn. in Engler u. Prantl, Natürl. Pflanzenfam.
1898, p. 194 (Etym. a *Boletus* et *opsis*, facies). — Pileus initio
cum stipite velo conjunctus; velum dein ruptum, partim ad pileum,
partim ad stipitem remanens, stipitem ideoque annulatum reddens.
Sec. P. Hennings huc pertinent *B. rufus* (Schæff.), *B. Staudtii*
P. Henn., *B. luteus* (L.), *B. flavus* (With.), *B. flavidus* (Fr.), *B.*
elegans (Schum.), *B. viscidus* (Fr.), *B. pulchellus* (Fr.), *B. triden-*
tinus (Bres.), *B. Bresadolæ* (Quél.), *B. submoricolor* (Frost), *B. se-*
rotinus (Frost), *B. cavipes* (Opat.).

BOLETUS Dill. — Syll. VI, p. 2. IX. p. 150. XI. p. 79.

1. **Boletus inflexus** Peck, Bull. Torr. Bot. Club. 1895, p. 207. — 469
Pileo convexo, glabro, viscido, luteo, disco sæpe rubro, margine
tenui, inflexo, tubulos marginales abscondente. carne albida, tactu
immutata; tubulis sublongis, adnatis, luteolis, ætate brunneo-luteis,
ore minuto, glandulis rubris adperso; stipite gracili, exannulato,
solido, viscido, glandulis lividis adperso; sporis luteolis, 10 1/2-13
× 4-5 1/4.

Hab. in silvis Amer. bor. — Pileus circiter 2 1/2 cm. latus;
stipes 5 cm. longus, 1/2-2/3 cm. crassus.

2. **Boletus corsicus** Roll. Bull. Soc. Myc. de Fr. 1896, p. 1, tab. I, 470
fig. 5. — Pileo pulvinato, usque ad 10 cm. et ultra diam. æquante, brunneo, cito rimoso et inde carnem luteam præbente; tubulis longis, sulphureis, demum canescentibus, decurrentibus, circum stipitem profunde sinuatis; poris aureis, minimis, rotundis; stipite pro ratione curto, fusiformi-bulboso, radicoso, ad apicem striis notato, luteo, brunneo-maculato, pustulis squamiformibus, crassis, hymenii vestigiis, exasperato, carne lutea, versus superficiem pilei flavescente et in stipite hinc inde brunnescente; sporis oblongis, pallidis, guttatis, 15-18 \approx 5; cystidiis fusiformibus.

Hab. juxta Cistos in pinetis Corsicæ. — *B. impolito* vicinus, differt stipite rugoso.

3. **Boletus intermedius** Pat. Bull. Soc. Myc. de France. 1895. p. 86. 471
— Pileo carnoso, duro, convexo-plano, dein depresso, glabro, rubro, sinuoso, 3-5 cm. lato, margine involuto; stipite excentrico, brevi, crasso, 1 1/2 cm. longo, 8 mm. lato, cylindræo v. ventricosus, basi curvato, farcto, duro; hymenio luteo-olivaceo; lamellis angustis 1 mm. latis, confertis, obtusis, crassis, decurrentibus, gelatinoso-mucilaginosus, venis transversalibus conjunctis et poros v. alveolos limitantibus; cystidiis nullis; basidiis claviformibus, 20-25 \approx 8-10, 4-sterigmaticis; sporis ochraceis, ovoideis, 7-9 \approx 5.

Hab. ad terram in Madagascar. — Exacte medius inter *Boletum* et *Paxillum*.

4. **Boletus splendidus** C. Mart. Bull. Sc. bot. Genève, VII, 1892- 472
1894, p. 190. — Pileo carnoso semigloboso, dein convexo v. pulvinato, 7-14 cm. lato, colore vario, mox rubro-brunneo, mox roseo-brunneo, interdum etiam roseo v. rubro, sed plerumque maculis luteis, viridibus v. olivaceis adperso, rarius atro-purpureo ac centro maculis nigris variegato; stipite valido, initio napiformi, dein elongato subæquali, 4-7 cm. longo, 2-7 cm. crasso, apice læte luteo, reticulo interdum usque ad basim descendente hic rubro illic luteo notato; tubulis brevibus, dein mediocribus, luteis, dein cœrulescentibus, virescentibus v. nigrescentibus, aëri diu expositis postremo rubris, adnexis dein liberis; poris minutis rotundatis, primo luteo-lateritiis, dein luteo-aurantiacis, tactu virescentibus; carne molli, luteo-rubra, demum cœrulea, maculis purpureis notata, basi stipitis obscure purpurea v. interdum brunnea, tactu ad rubrum v. rubro-brunneum vergente; sapore grato, odore subnullo.

Hab. in silvis frondosis, pluribus locis, in Helvetia.

5. **Boletus fragilipes** C. Mart. Bull. Soc. bot. Genève, VII, 1892- 473

1894, p. 189. — Pileo convexo, carnoso, brunneo-olivaceo, partialiter purpureo ac viridi, subtomentoso, 4-6 cm. lato; carne sulphurea, dein cœrulescente, deorsum in stipite aurea, sursum purpurea maculis luteis v. viridibus adspersa; stipite inæquali, clavato, apice constricto ibique rimoso, plus minusve curvato, 5-6 cm. longo, apice 8-11 mm. crasso, basi 15-20 mm. crasso, superne nigro-purpureo, inferne luteo maculis brunneis v. rubro-brunneis adsperso; tubulis decurrentibus v. sinuato-decurrentibus, mediocribus, 7-10 mm. longis, luteo-brunneis; poris magnis, luteis, rubro-maculatis; sapore acri, odore subnullo.

Hab. in silvis in Helvetia.

6. **Boletus fuliginospermus** Britz. Hymen. Kunde. I, 1895, p. 14, 474 fig. 75. — Pileo rubro-luteo vel lilacino vel brunneolo-fulvo, opaco, subglabro; stipite fulvo, basi pallidiore; tubulis fulvis; poris minutissimis, anguloso-subrotundis; sporis luteis, 8-10 \times 3-4, in cumulo brunneo-fulvis.

Hab. in silvis in Bavaria.

7. **Boletus subæqualis** Britz. Hymen. I, 1895, p. 14, fig. 77. — 475 Pileo griseo-brunneo-luteo, tomentosus; stipite luteolo, purpureo grosseque subreticulato; carne luteola, plus minus cœrulescenti, inferne cœruleo-ferruginea; tubulis flammeis vel sanguineis; poris minutis, aggregatis variabilibusve; sporis luteis, 12 \times 4-4.

Hab. in silvis in Bavaria.

8. **Boletus validus** C. Mart. Bull. Soc. bot. Genève VII, 1892-1894, 476 p. 190. — Pileo pulvinato, carnoso 14-17 cm. lato, ochraceo-brunneolo; carne sulphurea, sub cuticula rubro-vinosa, basi stipitis purpurea; stipite valido, 8-10 cm. longo, 4 $\frac{1}{2}$ -5 $\frac{1}{2}$ cm. crasso, subcylindrico v. ventricosus, non reticulato, sed squamoso-punctato, apice aureo, zona purpurea prædito, alibi maculis luteis, purpureis, brunneis ac etiam nigris variegato; tubulis 1 $\frac{1}{2}$ -2 cm. longis, adnatis, luteis; poris rotundatis, majusculis, luteis; sporis guttulatis; sapore grato, odore nullo.

Hab. in quercetis in Helvetia.

9. **Boletus miniatus** C. Mart. Bull. Soc. bot. Genève VII, 1892-1894, 477 p. 191. — Pileo pulviniformi, 10 cm. lato, crasso, levi, miniato; carne aurea v. roseo-rubra; stipite crasso, ventricosus, 7 $\frac{1}{2}$ cm. longo, levi, roseo-rubro, sursum coccineo, deorsum brunneo-fulgineo; tubulis luteis, sinuato-liberis v. sinuato-adhærentibus; poris amœne rubro-sanguineis; sapore dulci, odore alliaceo.

Hab. in silvaticis Helvetiæ.

10. **Boletus turbiniformis** C. Mart. Bull. Soc. bot. Genève VII, 1892- 478
1894, p. 192. — Pileo convexo-plano, dein plano v. medio depresso, carnosus, appianato-turbinato, margine irregulari, cuticula separabili, viscoso, brunneo-ferrugineo, 5-12 cm. lato; stipite gracili, recto v. flexuoso, æquali v. sursum incrassato et deorsum attenuato, firmo, brunneo-rubro, zonato, 3-7 cm. longo, $\frac{1}{2}$ -1 cm. crasso; tubulis brevibus, 2-4 mm. longis, e luteo brunneis, adnexus v. decurrentibus; poris ex aureo brunneo-olivaceis, denticulatis, ovalibus v. rotundatis; carne pilei primitus rubescenti, dein purpurea, luteo-incarnata v. lutea, stipitis luteo-brunnea, dein lutea, molli; sporis minutis ovoideis, ocellatis; sapore dulci, odore nullo.

Hab. in pratis humidis Helvetiæ.

11. **Boletus violascens** C. Mart. Bull. Soc. bot. Genève, VII, 1892- 479
1894, p. 192. — Pileo convexo, irregulari, margine involuto, levi glabroque, sicco, 5-13 cm lato, violaceo, maculis brunneis, ochraceis, rubris v. rubro-lilacinis adperso; stipite valido, æquali v. deorsum attenuato, demum basi pileo subconcolori, albo-zonato; tubulis brevissimis, primitus vix conspicuis, demum 2 mm. longis, decurrentibus, albis, dein brunneolis; poris minutis, irregularibus, ex albo brunneolo-roseis; carne compacta, alba, dein rosea; sporis nondum visis; odore nullo; sapore subamaro.

Hab. sub Pinis in muscosis Helvetiæ.

12. **Boletus thibetanus** Pat. Bull. Soc. Mycol. de Fr. 1895, p. 196, 480
tab. XIII, fig. 2. — Pileo convexo-plano, carnosulo, venis anastomosantibus reticulato, castaneo-rufo, pellicula crassa, viscosa obducto, margine appendiculato, hyalino; tubulis adnatis; poris minutis, radiantibus, olivaceis; sporis luteis, fusiformibus, levibus, 1-2-guttulatis, 10-13 \times 5 μ ; stipite viscoso, gracili, levi, sursum attenuato, castaneo, deorsum albicante.

Hab. ad terram, Thibet orient. — Pileus 4-5 cm. diam.; stipes 5-8 cm. alt., 8 mm. crasso.

13. **Boletus lacunosus** Otth Mitth. natur. Gesell. Bern. 1857, p. 37. 481
— Pileo plano-convexo ubique lacunoso-rugoso, velutino, atro-purpureo, demum atro-brunneo, margine atro-rubro, 6-7 cm. lat.; carne flava, immutata, sub cute tamen rubro-maculata; stipite inæquali fibroso carnosus, leviter ventricosus, 6-7 cm. long., 14-16 mm. cr., striato, flavido-rubente, deorsum rhabarbarino; tubis brevibus, ore rotundo v. oblongo, sepimentis oris diam. æquantibus, atro-rubro-brunneis; sporis ellipsoideo-oblongis sordide flavo-brunneis.

Hab. in silvaticis Bremgartenwald Helvetiæ.

14. **Boletus Underwoodii** Peck, Bull. Torr. Bot. Cl. 1897, p. 145. 482
 — Pileo tenui convexo, demum subplano, subvelutino, læte brunneolo-rubro, ætate pallidiore; carne lutea, tactu viridi-cærulescente; tubulis adnatis v. subdecurrentibus, viridi-luteis, tactu ad azureum vergentibus, ore minutissimo, rotundo, cinnabarino, demum brunneo-aurantiaco; stipite æquali v. sursum parum attenuato, subirregulari, solido, extus intusque luteo; sporis $10\frac{1}{2}$ - $13 \approx 5\frac{1}{2}$.
Hab. in silvis in Alabama Amer. bor. (UNDERWOOD). — Pileus 5-8 cm. latus; stipes 8- $10\frac{1}{2}$ cm. longus, $1-1\frac{1}{2}$ cm. crassus.
15. **Boletus tabacinus** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 418. 483
 — Pileo carnoso, convexo v. subplano, subglabro, sæpe rimoso-areolato, tabacino; carne in maturitate molli, pilei colore; tubulis concavis v. subplanis, circa stipitem depressis, colore pilei, ore minuto, anguloso; stipite subæquali, solido, reticulato, concolori; sporis oblongis v. subfusiformibus, 13-16 $\approx 5\frac{1}{3}$.
Hab. in terra ad margines viarum, Alabama Amer. bor. (UNDERWOOD). — Pileus 7-13 cm. latus; stipes 4-8 cm. longus, $1\frac{1}{2}$ - $2\frac{1}{2}$ cm. crassus.
16. **Boletus parvus** Peck, Bull. Torr. Bot. Cl. 1897, p. 145. — Pileo 484
 convexo, demum subplano, sæpe subumbonato, subtomentoso, rubescente; carne luteo-alba, tactu ad carneum vergente; tubulis subplanis, adnatis; poris magnis. angulosis. initio læte rubris, dein rubescenti-brunneis; stipite æquali v. deorsum subincrassato, rubro; sporis oblongis, 13 \approx 4.
Hab. in silvis in Alabama Amer. bor. (UNDERWOOD). — Pileus $2\frac{1}{2}$ -5 cm. latus; stipes $2\frac{1}{2}$ -5 cm. longus, 4-7 mm. crassus.
17. **Boletus frustulosus** Peck, Bull. Torr. Bot. Cl. 1897, p. 146. — 485
 Pileo crasso, convexo v. subplano, subglabro, rimose areolato, albo v. albido, carne alba; tubulis æqualibus, circa stipitem depressis, albidis, demum pallide brunneis; stipite æquali, solido, albido, supra reticulato; sporis $15\frac{1}{2}$ - $18\frac{1}{2} \approx 5-6\frac{1}{2}$.
Hab. ad terram pluribus locis in America boreali. — Pileus 8-13 cm. latus; stipes $2\frac{1}{2}$ -5 cm. longus, $1\frac{1}{3}$ - $2\frac{1}{3}$ cm. crassus.
18. **Boletus isabellinus** Peck, Bull. Torr. Bot. Cl. 1897, p. 146. — Pileo 486
 convexo, firmo, minute tomentoso, albido, ætate obscuricre ac glabriore; carne isabellina; tubulis adnatis, minutis, interdum stipitem versus majoribus, subrotundis, albidis; stipite subæquali, subglabro, cavo, albido; sporis subellipticis, 8-9 $\approx 5-6\frac{1}{2}$.
Hab. in silvis, Mississippi Amer. bor. (UNDERWOOD). — Pileus 5-8 cm. latus; stipes $2\frac{1}{2}$ -5 cm. longus, $1-1\frac{1}{3}$ cm. crassus.

19. **Boletus fumosipes** Peck, 50 Rep. p. 108. — Pileo convexo v. 487
subplano, minute tomentososo, leviter rivuloso, atro-olivaceo-brunneo;
carne albida; tubis subplanis, tandem convexis, ore albido tandem
flavido-brunneo, tactu cyaneo-atrato; stipite æquali solido, fumoso
brunneo, minute (sub vitro) furfuraceo; sporis purpureo-brunneis,
12-15 \times 5-7.

Hab. in silvaticis, Port Jefferson, Amer. bor. — Pileus 3-5 cm.
lat.; stipes 3-5 cm. long., 6-8 mm. cr. Affinis *B. crysenthero*.

20. **Boletus rubro-punctus** Peck, 50 Rep. p. 109. — Pileo convexo 488
glabro, rubescenti-brunneo, carne flavida, immutabili; tubis sub-
planis, ad stipitem depressis, ore minuto, rotundo, læte aureis,
tactu immutabilibus; stipite firmo, solido, sursum tenuato, flavo,
punctis squamulisve rubentibus prædito; sporis olivaceo-viridulis,
13 \times 4-5.

Hab. in silvis Port Jefferson, Cold Spring Harbor Amer. bor.
— Pileus 3-5 cm. lat.; stipes 3-5 cm. long.; 6-12 mm. cr. Videtur
affinis *B. radicans*.

21. **Boletus auripes** Peck, 50 Rep. p. 107. — Pileo convexo, sub- 489
glabro, flavido-brunneo, interdum senio areolato-rimoso; carne flava,
senio albida; tubis subplanis, ore minuto subrotundo, initio farctis,
flavis; stipite subæquali, solido, levi, v. apice leviter reticulato,
læte flavo, intus paullo pallidiore; sporis ochraceo-brunneis, chlo-
rino-tinctis, 12-13 \times 5.

Hab. sub *Kalmia latifolia* Port Jefferson Amer. bor. —
Pileus 8-16 cm. lat.; stipes 8-12 cm. long., 1 $\frac{1}{2}$ -2 $\frac{1}{2}$ cm. cr. Colore
aureo distincta species.

22. **Boletus illudens** Peck, 50 Rep. p. 108. — Pileo convexo, sicco, 490
subglabro, flavido-brunneo v. griseo-brunneo, subinde præsertim
centro rubro tincto, carne pallida v. flavida; tubis læte flavis planis
v. leniter convexis, ore angulosis v. subrotundis, sæpius ad stipi-
tem latoribus; stipite subæquali, subinde basi abrupte acutato, gla-
bro, pallido v. flavido, ubique v. apice reticulato; sporis oblongis
v. fusoideis, flavido-brunneis chlorinisque, 10-12 \times 4-5.

Hab. in silvaticis Port Jefferson Amer. bor. — Pileus 4-8 cm.
lat.; stipes 4-7 cm. long., 6-10 mm. cr. Affinis *B. subtomentoso*.

23. **Boletus fraternus** Peck, Bull. Torr. Bot. Cl. 1897, p. 145. — 491
Pileo convexo, dein plano v. depresso, subtomentoso, initio atro-
rubro, demum sordide rubro; carne alba, tactu viridi-cærulescente;
tubulis longis, demum ventricosus circa stipitem subdepressis, leniter
decurrentibus; poris magnis, angulosis v. irregularibus, dilute luteis,

tactu statim ad azureum vergentibus; stipite brevi, cæspitoso, sæpe irregulari, solido, subtomentoso, basi subvelutino, pallide rubescenti-luteo, apice basique pallidiorè, intus luteo, tactu statim virescente; sporis $13 \approx 6 \frac{1}{2}$.

Hab. ad terram in Alabama Amer. bor. (UNDERWOOD). — Pileus $2 \frac{1}{2}$ -4 cm. latus; stipes $2 \frac{1}{2}$ -4 cm. longus, 7-14 mm. crassus. Ad *Boletum rubentem* accedit.

24. **Boletus fistulosus** Peck, Bull. Torr. Bot. Cl. 1897, p. 144. — 492

Pileo convexo, viscido, glabro, luteo, margine initio incurvo v. involuto, carne lutea; tubulis planis v. subventricosis, mediocribus, rotundis, adnatis vel interdum circa stipitem depressis, luteis, dissepimentis tenuibus; stipite gracili, subæquali, viscido, glabro, cavo, luteo, basi tomento mycelioideo albo tecto; sporis ellipticis, $13 \approx 6 \frac{1}{2}$.

Hab. in silvis in Alabama Amer. bor. (UNDERWOOD). — Pileus circiter $2 \frac{1}{2}$ cm. latus; stipes 5-10 $\frac{1}{2}$ cm. longus, 7 mm. crassus.

25. **Boletus Cookei** Sacc. et Syd. Sic dicendus est *B. lacunosus* Cke. et Mass.-Syll. IX, p. 158, quum extet præcedens *B. lacunosus* Otth.

BOLETINUS Kalchbr. — Syll. VI, p. 51, IX p. 159.

1. **Boletinus borealis**. Peck, Bull. Torr. Bot. Club. 1895, p. 206. — 493

Pileo carnoso, convexo obtuso v. subumbonato, brunneo-luteo, lineis rubro-brunneis obscure et reticulate striato; poris magnis, angulosis, inæqualibus, subdecurrentibus, brunneo-luteis; stipite brevi, æquali v. sursum vix angustato, brunneo-luteo, basi tomento albido mycelioideo velato; sporis oblongis, $10 \frac{1}{2}$ -13 ≈ 4 -5 $\frac{1}{4}$.

Hab. ad terram arenosam, Labrador Amer. bor. (WAGHORNE). — Pileus $2 \frac{1}{2}$ -5 $\frac{1}{4}$ cm. latus; stipes circiter $2 \frac{1}{2}$ cm. longus.

2. **Boletinus appendiculatus** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 494

p. 418. — Pileo carnoso, convexo, glabro, ochraceo-luteo, margine velo incurvo membranaceo appendiculato; carne pallide lutea, immutabili; tubulis minutis luteis, ore anguloso, inæqualibus, tactu obscurioribus, ad brunneum vergentibus; stipite solido, basi leviter incrassato, luteo; sporis pallide luteis, oblongis, $10 \frac{1}{2}$ -13 ≈ 4 .

Hab. ad terram sub Pinis, Washington Amer. bor. — Pileus 10-21 cm. latus; stipes 5-8 cm. longus, 1-1 $\frac{1}{2}$ cm. crassus.

GYRODON Opat. — Syll. VI p. 51; IX, p. 160; XI, p. 81.

1. **Gyrodon capensis** Sacc. Bull. Soc. Myc. de Fr. 1896. p. 68. — 495

Pileo convexo-expanso, valde subtili, 3-4 cm. lato, 1-2 mm. crasso,

ex ochraceo umbrino, levi, nitido; carne molli sed parca, pallida, margine tenui acutissimo vix reflexo; tubulis adnatis, longe decurrentibus, albidis, pruina candida (initio?) tectis, brevissimis, 0,5 mm. longis; illis pilei subregularibus ore rotundo perexiguo; illis stipitis multo latoribus, reticulato-gyrosis; stipite deorsum incrassato, 2-3 cm. crasso, longitroorsum costato, albedo; sporis fuscoideis, 15 \approx 5-6, subhyalinis, grosse guttatis.

Hab. ad terram in Capite Bonæ-Spei et Natali Africæ. — *G. Sistotremati* affinis.

POLYPORUS Mich. em. — Syll. VI, p. 55, IX, p. 161, XI, p. 82.

1. **Polyporus involutus** Britz. Hymen. Kunde, II, 1896, p. 8, f. 183. 496

— Pileo lateraliter stipitato, albedo v. isabellino, interdum areolis luteo-brunneis, glabro vix fibroso, in senectute rimoso; stipite albo; poris minutissimis, oculo nudo non conspicuis, crasse tunicatis; carne alba; sporis irregulariter angulosis, luteolis, in cumulo albis, 6 \approx 4; sapore non ingrato.

Hab. in ericetis in Bavaria.

2. **Polyporus diminutus** Masee Journ. of Bot. 1896, p. 153, t. 357, 497

fig. 17-18. — Pileo horizontali, imbricato, conchato molli, carnoso, convexo, margine leviter incurvo, glabro, rubro-aurantiaco, 3-4 mm. diam.; carne pallide lutea; hymenio subplano, pileo concolori; poris oblongis, circiter $\frac{3}{4}$ mm. longis, dissepimentis crassis; stipite laterali, horizontali, leniter curvato, tenui, 2 mm. longo, luteo, pruinoso; cystidiis nullis; sporis hyalinis, levibus, elliptico-oblongis, 3-4 \approx 1 $\frac{1}{2}$.

Hab. ad basim truncorum, Victoria Australiæ (READER).

3. **Polyporus kansensis** Ell. et Barth. Erythea 1896, p. 1. — Pileo 498

orbiculari, convexo, 10 cm. diam., dilute brunneo, minute adpresso-squamuloso, margine tenui acutoque; stipite 10-12 cm. longo 2 cm. crasso, colore pilei, glabro v. subglabro, basi nigro, subæquali v. sursum subattenuato; carne lactea, suberoso-carnosa; poris mediocribus, $\frac{1}{3}$ mm. diam., 2-2 $\frac{1}{2}$ mm. longis, rotundis v. subangulosis, granuloso-tomentosis, decurrentibus; sporis albis, ellipticis, 6-8 \approx 5; basidiis firmis, cylindræis, 6-8 μ . crassis.

Hab. in trunco putrido, Kansas Amer. bor. (BARTHOLOMEW).

4. **Polyporus melanopus** Fr. — Syll. VI. p. 81. — subsp. **Hisingeri** Karst. 499

Hedw. 1896, p. 173. — A typo differt: pileo majore et crassiore, 13 cm. lato, 2,5 cm. crasso, pallidiore, glabro, stipite æquali, brunneo, 3 cm. longo, 2 cm. crasso, porisque duplo triplove majoribus, pallidis, exsiccando luteis, sporis...

Hab. ad terram in Fennia.

5. **Polyporus cryptopus** Ell. et Barth. Erythea 1896, p. 79. — Pileo 500
orbiculari, 3-4 cm. diam., griseo-albo, margine tenuissimo, involuto-
rependo vel etiam inflexo, levi v. leniter rugoso, sed non squamoso;
stipite $1\frac{1}{2}$ -2 cm. longo, plerumque subterraneo, basi leniter bul-
boso, sursum incrassato, usque ad 1 cm. vel minus; hymenio de-
currente; poris ca. $\frac{3}{4}$ mm. diam., $1\frac{3}{4}$ mm. altis, plerumque sub-
angulosis, margine inæquali, tomento subgranuloso tecto; sporis
albis, guttulatis, obtusis v. acuminato-ellipticis, 5-7 \approx 3-4.

Hab. ad terram in Kansas Amer. bor. (BARTHOLOMEW).

6. **Polyporus obolus** Ell. et Macbr. Bull. Labor. Nat. Hist. Univ. 501
Jowa IV, 1896, p. 68. — Pileo carnosio, molli, albo v. pallido,
glabro, delicato, rugoso, sicco, margine repando, superne plano v.
leniter convexo, 2 cm. v. minus diam.; stipite cartilagineo, delicato,
gracili, basi æquali v. parum aucto, brunneo, pellucido, 1-3 cm.
longo, 2-3 mm. crasso; poris minutis, oculo nudo vix conspicuis, ro-
tundis, non decurrentibus, albis, dissepimentis crassis, obtusis.

Hab. ad terram in Nicaragua (SMITH).

7. **Polyporus esculentus** Britz. Hymen. Kunde. I, 1895, p. 14. 502
fig. 172. — Pileo brunneo v. griseo-brunneo, breviter fibroso, sub-
tomentoso; stipite albo, fibroso, brunneolo-squamoso, submarginato;
tubulis albis; poris minutissimis, sub lente vix conspicuis, rotundis;
carne molli, eduli, in stipite tenaci; sporis hyalinis v. subluteolis,
oblongo-rotundis, leniter curvulis, 7-8 \approx $2\frac{1}{2}$ -3, in cumulo albis.

Hab. in ramis putridis Sarothamni scoparii in Bavaria.

8. **Polyporus evanido-squamulosus** P. Henn. Engl. Jahrb. XXII, 503
p. 90, *Polyporus squamulosus* P. Henn. Pilze Ostaf. p. 57. —
Pileo pleuropode, carnosio-lento, flabelliformi v. reniformi, 6-7 cm.
lato, 4-10 cm. longo, flavo, postice flavo-brunneo, squamis setulosis,
rufo-brunneis, secedentibus tecto, dein subnudo, azono, margine
subrepando, revoluta, primo setuloso; stipite laterali, circiter 1 cm.
longo, 7-8 mm. crasso, dense setulis fasciculatis rufo-brunneis tecto;
poris amplis, angulatis, laceris denticulatisque, pallidis, contextu
pallido; sporis oblique ovoideis, hyalinis, guttulatis, 9-10 \approx 5-6.

Hab. ad truncos? in Africa tropica (HOLST, DUSEN). — *P. squa-*
moso et *hirto* affinis.

9. **Polyporus Brenningii** P. Henn. Hedw. 1897, p. 201. — Pileis 504
cæspitoso-imbricatis vel solitariis, caseoso-carnosis, modo stipitatis,
modo apodibus, pallide flavis, levibus, glabris. nitentibus, 2-5 cm. latis,
2-3 cm. longis, usque ad $1\frac{1}{2}$ cm. crassis, carne alba; stipitibus

lateraliter confluetibus, albis, subpulverulentis; tubulis brevibus, vix 1 mm. longis; poris primo rotundatis vel oblongis, minutis, dein laceratis; sporis subovoideis vel ellipsoideis, hyalinis, $3-3\frac{1}{2} \approx 2\frac{1}{2}-3 \mu.$, hyalinis.

Hab. ad lignum in Columbia (BRENNING).

10. **Polyporus decurrens** Underw. Bull. Torr. Bot. Cl. 1897, p. 83. 505

— Pileo subcirculari, 5 cm. diam., plano v. centro leviter depresso, brunneo v. badio, glabro; poris subalbis, 2 mm. longis, decurrentibus, subangulosis, $\frac{1}{2}$ mm. diam., dissepimentis tenuibus integris; contextu albo, carnosio, compacto, homogeneo, centro circiter 7 mm. crasso; margine tenui, sicco subinvoluta; stipite basi subbulboso, 3 cm. longo, sursum angustato, apice 1 cm. diam., subalbido.

Hab. ad terram, California.

11. **Polyporus Earlei** Underw. Bull. Torr. Bot. Cl. 1897, p. 84. — 506

Pileo 7-12 cm. diam., cinereo, centrum versus obscuriore; margine tenuissimo, sicco valde incurvo; contextu carnosio, griseolo, sicco tenui; stipite 4-5 cm. longo, $1\frac{1}{2}$ cm. crasso, pileo concolori; poris 1-2 mm. longis, cinereo-griseis, in juventute pallidioribus, marginem versus minutis ($\frac{1}{2}$ mm.); dissepimentis firmis, integris.

Hab. ad terram in pinetis, Alabama Amer. bor. (EARLE).

12. **Polyporus favoloides** P. Henn. Engl. Jahrb. XXIII, p. 546. — 507

Pileo membranaceo-subcarnoso, suborbiculari, convexo, centro umbilicato, infundibuliformi, levi, glabro, pellucide subtessellato (in alcohole), margine piloso, $3\frac{1}{2}$ cm. diam.; stipite tereti, brunneo, farcto, piloso-tomentoso, $3\frac{1}{2}$ cm. longo, 2 mm. crasso, basi incrassato, subatro; poris plus minus amplis, oblongis, acutangulis, acie subfimbriato-denticulatis; sporis non conspicuis.

Hab. in ligno putrido in Camerunia (PÆUSS).

13. **Polyporus flavo-squamosus** Underw. Bull. Torr. Bot. Cl. 1897, 508

p. 84. — Pileo 15 cm. diam., flavo, viridi-tincto, squamis minutis floccosis imbricatis flavis tecto; margine subacuto, sicco plus minusve incurvo; contextu albo vel pallide flavo, carnosio, firmo, sicco sublignoso; stipite 7-8 cm. longo, 4-5 cm. crasso, subapplanato, irregulariter asperulo, pileo concolori; poris 5 mm. longis, 1 mm. latis, irregularibus, angulosis, subdecurentibus, albis, tactu virescentibus, siccis flavis, dissepimentis tenuibus; sporis ovalibus v. ovoideis, $9 \approx 6$, grosse 1-guttulatis.

Hab. ad terram, Alabama Amer. bor. (EARLE).

14. **Polyporus hirtolineotus** Pat. Ann. Jard. Buitenz. 1897, I, suppl. 509

p. 111. (*Leucoporus*). — Pileo obovato-subreniformi, applanato,

circiter 10 cm. diam., rufo-fusco, antice sinuato, margine recto, acuto, postice in stipitem brevem scutato dilatatum, 15 mm. longum, grosse scruposo-hirtum lateraliter attenuato, dense radiatim scabroso-lineato vel scruposo-reticulato; poris fuscis, mediis, angulosis, lateraliter compressis, 1-2 mm. latis; dissepimentis tenuibus, rigidis, subintegris, nonnullis in laminulas irpicoideas postice elongatis; contextu tenui, albo, carnosos-coriaceo.

Hab. ad truncos, Java (MASSART).

15. **Polyporus retipes** Underw. Bull. Torr. Bot. Cl. 1897, p. 85. — 510

Pileo 6-15 cm. lato, brunneo, adpresso-tomentoso, demum areolato-rimoso; contextu carnosos, 2 cm. crasso, sicco tenui, albido; margine acuto; stipite excentrico, 4-6 cm. longo, 2-2½ cm. crasso, basim versus flavo-albo; poris decurrentibus, albidis, magnis, 1½-2 mm. latis, plerumque hexagonalibus, dissepimentis tenuibus et subtiliter laceratis.

Hab. ad terram in pinetis, Alabama Amer. bor. (EARLE).

16. **Polyporus vibecinioides** P. Henn. Engl. Jahrb. XXIII, p. 546. — 511

Pileo carnosos-coriaceo, subflabelliformi, lateraliter stipitato, flavo-brunneo, radiato obsolete striato, levi, glabro, 2-3 cm. lato longoque, margine subdenticulato (sicco involuto), contextu pallido; stipite lateraliter postice cuneato, depresso, basi tomentosulo, discoideo, 1-1½ cm. longo, 2-3 mm. crasso; poris oblongis, subacutangulis, laceratis, acie denticulatis, concoloribus; sporis subglobosis, 1-guttulatis, intus granulatis, hyalino-subfuscidulis, 5-7 µ. diam.

Hab. in truncis in Camerunia et Usambara (STAUDT et HOLST).

17. **Polyporus fuligineo-albus** Trog in Otth Mitteil. nat. Gesell. Bern. 512

1857, p. 38. — Pileo mesopode applanato 8-12 cm. lat., leviter impresso margine sinuoso, fere lacero, sordide albo, quasi calce consperso; poris subrotundis, subæqualibus, pilis longiusculis conspersis, rufo-brunneis; stipite centrali brevissimo vix 13 mm. longo cum pileo confluyente porisque exarato.

Hab. in silvaticis pr. Lanterbrunnea Helvetiæ.

18. **Polyporus laxus** Otth, Mitt. nat. Gesell. Bern 1857, p. 39. — 513

Pileo flavido-albo, compacto-carnosos, subrotundo, piloso, intus albo, indistincte zonato, parallele laxo fibroso, aquam absorbente; poris longiusculis, inæqualibus, rotundis, laceris, acie obtusa.

Hab. ad Populos dejectas pr. Zug Helvetiæ. — Totus fungus 20 cm. lat. et long., 5 cm. cr. margine crasso obtuso. Contextus sec. fibras facile scissilis. Videtur *P. labyrinthico* affinis.

19. **Polyporus mexicanus** Pat. Bull. Soc. mycol. 1898, p. 55. — Pileo 514

fusco, sessili, dimidiato, subtriquetro, circ. 6 cm. lato, 5 cm. alto, glabro, nec zonato, nec sulcato, cuticula tenuissima, subnitenti tecto, subtus plano v. convexo, albido, margine acuto, rivuloso; contextu albido, carnosocompacto, fragili, azono; tubulis tenuibus, 6-10 mm. long., carnosus; poris minutis angulosis, dissepimentis tenuibus, acutis, laceratis.

Hab. ad truncos coniferarum, Mexico (P. MAURY). — Affinis *P. lacteo*.

20. **Polyporus gilvoides** P. Hedw. 1897, p. 201. — Pileo tenui, submembranaceo, molli, planiusculo, omnino ochraceo, apode, sulcatozonato, rugoso, tomentosovelutino, ca. 2 cm. diam., margine acuto; contextu ochraceo; poris minutis, æqualibus, rotundatis, ochraceis; sporis hyalinis subflavescentibus, globosis, 3 μ .

Hab. ad truncos in prov. St. Catharina Brasiliæ (ULE).

21. **Polyporus irregularis** Underw. Bull. Torr. Bot. Cl. 1897, p. 85. 516 — Pileo irregulari, brunneolo, marginem versus pallidiore, asperulo, subtomentoso, 4-6 cm. longo, 3-4 cm. lato, margine plerumque tenui; contextu albo, floccosotomentoso; poris albis, 5-6 mm. longis, irregularibus, plus minusve angulosis, minutis, 14 mm. diam.; dissepimentis tenuibus, firmis, glabris.

Hab. ad truncum pineum, Alabama Amer. bor.

22. **Polyporus Kmetii** Bres. Atti R. Ac. Sc. Lett. ed Arti degli Agiati, 517 3 ser. III, fasc. 1-3. 1897, p. 70. — Pileo sessili, basi attenuato, carnosofibroso, tenui, convexo v. plano-subdepresso, margine undulato-repando, involuto, aurantiaco, expallente, processibus dentatocristatis v. aculeolatis eleganter obtecto, 2-4 cm. antice producto; tubulis tenuibus, ex albo stramineis, 2-3 mm. longis; poris concoloribus, angulatis, mediocribus, acie tenui demum collapsa; substantia tenui, alba, sub epidermide pilei linea saturate aurantia; sporis hyalinis, obovatis, $4-4\frac{1}{2} \approx 2\frac{1}{2}-2\frac{3}{4} \mu$.; hyphis subhymenialibus, $2\frac{1}{2}-3 \mu$. latis.

Hab. in ramis emortuis *Quercus* in Hungaria (KMET). — Species pulchella cum *Hydno cirrato*, propter processus pilei, comparanda.

23. **Polyporus Meliæ** Underw. Bull. Torr. Bot. Cl. 1897, p. 85. — 518 Pileo convexo, sordide albo, subtomentoso, anodermeo, 5-8 cm. diam., interdum coalescente, margine obtuso; contextu floccososuberoso, albido; poris cremeis, ætate obscurioribus, plus minusve rimosis, 5-6 mm. longis, 0,2 mm. latis, acie obtusis, dissepimentis firmis, sporis anguste oblongis, $6 \approx 3$, hyalinis.

Hab. ad ramos Meliae Azedarach, Alabama Amer. bor.

24. **Polyporus Suberis** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 48. — 519

Pileo albido, dimidiato, subimbricato, carnosio-spongioso, compacto, pulvinato, grosse rugoso-hispido, margine tenui, acuto, inflexo; carne albida, compacta, nec fibrosa, nec zonata; poris in vivo albis, in sicco rufis, mediis, mollibus, angulatis, laceratis irpiciformibusque; dissepimentis tenuibus; sporis hyalinis, globosis v. subglobosis, 6-7 \approx 5 μ .

Hab. in ligno Quercus Suberis in Tunisia. — Pileus 15-20 cm. latus, 8-10 cm. longus; tubuli 10-15 mm. longi. Affinis *P. boreali* Fr. et *P. spumeo* Fr.

25. **Polyporus subluteus** Ell. et Ev. Americ. Natur. 1897, p. 339. — 520

Effusus; pileo albo, breviter tomentosio, azonato, subimbricato, margine obtuso, contextu molli et flexibili, margine superiore plus minusve reflexo; poris subcolliculosis, inæqualibus, rotundis v. sub-sinuosis, $\frac{1}{3}$ - $\frac{3}{4}$ mm. diam., $\frac{3}{4}$ -1 cm. longis, siccis subluteis, intus albis, margine subdentato, dissepimentis tenuibus, carne alba non fibrosa; sporis oblongis, paululum angustatis, albis, 4-6 \approx 1 $\frac{1}{2}$ -2.

Hab. in truncis vetustis Fagi in Canada (DEARNESS).

26. **Polyporus resinus** (Schrad.) Fr. — Syll. VI, pag. 137. — 521

Var. **incurvus** Peck, 49 Rep. Stat. Bot. N. York. 1896, p. 31. — Margine pilei incurvo; poris inæqualibus, angulosis, brevibus.

Hab. ad truncos, Maine Amer. bor.

27. **Polyporus perplexus** Peck, 49 Rep. Stat. Bot. N. York 1896, 522

p. 19. — Pileo suberoso-carnoso, fibroso, sessili, vulgo imbricato interdumque confluyente, irregulari, piloso-tomentoso v. setoso-hispido, ferrugineo, margine subacuto sterili, intus luteo-ferrugineo zonatoque; poris 5-7 mm. longis, inæqualibus, angulosis, dissepimentis ætate brunneo-ferrugineis; sporis ferrugineis, late ellipticis, 6-8 \approx 5.

Hab. ad truncos Fagi, New York Amer. bor. — Pileus 5-10 $\frac{1}{2}$ cm. latus. E vicinia *Polypori arcularii*, *P. hispidi* etc., sed cum nullo horum apte conjungendus.

28. **Polyporus Burtii** Peck, Bull. Torr. Bot. Cl. 1897, p. 146. — Pileo 523

dimidiato, 2 $\frac{1}{2}$ -5 cm. lato, tenaci, sessili v. effuso-reflexo, minute tomentosio, fumoso-albido v. pallido, carne 2-5 mm. crassa, pallida; poris 1-2 mm. longis, inæqualibus, angulosis, marginem attingentibus, fumoso-nigris, dissepimentis tenuibus.

Hab. ad truncos Betulae luteae in America boreali (BURR).
P. adustò proximus.

29. **Polyporus saxatilis** Britz. Hymen. Kunde, II, 1896, p. 9, fig. 184. 524
 — Pileo brunneo-luteo, sericeo-nitido, furrugineo, centro scrobiculato-concavo et tomentosio; stipite obscure brunneo; poris magnis, irregulariter angulosis, variis; carne in juventute ferruginea, dein rubiginosa, suberosa, fibrosa, hygrophana; sporis ellipticis, 10-11 \times 6-8, in cumulo pallide brunneo-luteis; odore nullo.
Hab. ad saxa in Alpibus. — *P. perenni* affinis.
30. **Polyporus Capreae** Britz. Hymen. Kunde, II, 1896, p. 10, f. 194. 525
 — Pileo ochraceo v. isabellino, non nitente, indistincte rubiginosozonato, sulcato, subundulato; poris minutis, subrotundis v. angulosis; carne vix zonata, suberosa, isabellina; sporis valde curvulis, hyalinis, 10-12 \times 2-2 $\frac{1}{2}$; odore non ingrato.
Hab. ad truncos Salicis Capreae in Bavaria.
31. **Polyporus repandus** Pat. Bull. Soc. Myc. de Fr. 1896, p. 133. — 526
 Sessilis, dimidiatus; pileo semiorbiculari, sinuato-lobato, glabro, pallide cinereo, zonis cinereis concentricis, crebris notato, postice plus minus plicato-radiato, margine acuto; hymenio fulgineo-cinereo, plano; poris minutis, rotundis, æqualibus, dissepimentis integris; tubulis brevibus; contextu albo-lacteo, sericeo, coriaceo.
Hab. ad truncos, Ins. Reunion. — Pileus 8-15 cm. latus, 8 cm. longus et 3 mm. crassus.
32. **Polyporus Bartholomæi** Peck, Bull. Torr. Bot. Cl. XXIII, 1896, 527
 p. 418. — Pileo tenui, molli, tenaci, obovato v. subspathulato, azonato, postice in basim stipitiformem applanatam angustato, margine tenui, albido; poris minutis, brevibus, subrotundis, decurrentibus, albidis.
Hab. ad ligna emortua, Kansas Amer. bor. (BARTHOLOMEW).
 — Pileus 1 $\frac{1}{2}$ -2 $\frac{1}{4}$ cm. latus, 2 $\frac{1}{2}$ mm. crassus; habitus *Polypori humilis* Peck.
33. **Polyporus gilvus** Schwein. — Sacc. Syll. VI, p. 121. — Var. **congregatus** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, p. 152. — 528
 Pileis coriaceis-sublignosis, in modo rosæ elongatæ compactæ imbricatis, (3-8 cm. crassis, 18 cm. longis), reniformibus, lobatis, radiatim sulcatis, concentricè subzonatis, superficie glabra, rugosa, ferruginosa, sæpe fusco-virescente tincta, 3-5 cm. latis, 2-3 cm. longis; carne fibrosa, ferruginosa, 1 mm. crassa; poris minimis, rotundatis, ferruginosis, 2-3 mm. longis.
Hab. ad truncos, Costa Rica.
34. **Polyporus ochraceo-cinereus** Britz. Hymen. Kunde. I, 1895, 529
 p. 14, fig. 175. — Pileo hygrophano, albido, dein ochraceo, margine

griseo, tomentosio; tubulis griseis v. brunneo-violaceis; poris minutissimis, subrotundis; carne albida; sporis 3-4 \times 1 $\frac{1}{2}$ -2, subluteolis, in cumulo albidis v. luteolis

Hab. ad truncos pineos in Bavaria.

35. **Polyporus pellitus** (Karst.) Sacc. et Syd. *Bjerkandera pellita* Karst. 530

Hedw. 1895, p. 7. — Pileo carnosio, reniformi-dilatato, convexo, levi, glabro, pellicula tecto, azono, postice sæpe porrecto, albido, 5-7 cm. lato, 1 cm. crasso, margine acuto inflexo; poris rotundis, tenuibus, integerrimis, albis, exiguis: sporis elongatis. rectis v. curvulis, 2-guttulatis, 2-3 \times $\frac{1}{2}$.

Hab. in truncis ramulisque Betulae et Abietis pr. Mustiala Fenniae. — Odor debilis, acidulo-funginus. A *P. chioneo*, ad quem proxime accedit, pellicula pilei statim dignoscitur.

36. **Polyporus aureo-marginatus** P. Henn. Fungi camerun. I, Engl. 531

Jahrb. XXII, 1895, p. 89. — Pileo suberoso-sublignoso, tenui, flabellato, applanato, radiato-sulcato, ruguloso, obsolete zonato, cinnamomeo-gilvo, 2-3 cm. lato, circ. 2 cm. longo, postice incrassato, tuberculato, subtomentoso, aureo-flavo, margine subincrassato, repando, subcrenulato, aureo-flavo, subvillosio; carne cinnamomeo-fulva, suberosa; poris minutis, punctiformibus, griseo-cinnamomeis, rotundatis, tubulis brevissimis; sporis non visis.

Hab. ad truncos, Kamerun (DUSÈN). — *P. gilvo* Schw. affinis. 532

37. **Polyporus sericeus** Pat. Bull. Boiss. 1895, p. 53. — Pileo coriaceo,

tenui, semiorbiculari, postice scutato-adfixo, margine inflexo, integro vel vix sinuato, acuto, azono, candido, pilis longis, prostratis, sericeis, albis undique tecto, 3 cm. lato, 2 cm. longo, 2 mm. crasso; hymenio carneo-albido, vibranti; tubulis brevibus; poris angulosis, $\frac{1}{3}$ mm. latis, dissepimentis integris, obtusis, glabris; contextu candido.

Hab. ad truncos vetustos, Pichincha, Æquatoria (v. LAGERHEIM).

— *P. velutino* et *P. conchoidi* affinis.

38. **Polyporus anceps** Peck, Bull. Torr. Bot. Club. 1895, p. 207. — 533

Effuso-reflexus v. resupinatus, a matrice inseparabilis, firmus, subsuberosus, flexilis, albus; pileo angusto, circiter 1 $\frac{1}{3}$ cm. lato, lateraliter elongato v. confluyente, minute pubescente, interdum rugoso-rimoso; poris minutis, subrotundis, plerumque $\frac{1}{2}$ - $\frac{2}{3}$ cm. longis, dissepimentis obtusis; mycelio albo.

Hab. in truncis Tsugae canadensis, Massachusetts Am. bor.

39. **Polyporus pseudoradiatus** Pat. Bull. Soc. Myc. de Fr. 1895, p. 534

207. — Dimidiatus, sessilis, imbricatus; pileo applanato, orbiculari,

margine acuto-repando, inciso-fimbriato, flabellatim dense radiato-cristato, cervino aut fusco-brunneo, zonis numerosis, concoloribus, antice notato; contextu lignoso. tenui, aureo-fusco, fragili; hymenio convexo-plano, obscure tabacino; poris inæqualibus, minutis, angulosis, dissepimentis tenuibus, integris; cystidiis acutis, fuscis, spiniformibus, crasse tunicatis, 23-30 \times 4; sporis non visis.

Hab. ad truncos arborum in Æquatoria (v. LAGERHEIM). —
— Pileus 6-15 cm. latus, 6 mm. altus. *P. tabacino* affinis.

40. **Polyporus Sancti-Georgii** Pat. Bull. Soc. Myc. de Fr. 1895, p. 535 207. — Pileo 5 cm. alto, 6-8 cm. lato, lignoso, dimidiato, unguiformi, dense pectinato-sulcato, velutino, dein glabrescente, primitus fusco-tabacino, dein fere atro, margine sinuato-undulato; contextu durissimo, crasso, fusco-tabacino, crustula tenui nigra tecto; hymenio concavo, undulato, ochraceo-fusco; poris vibrantibus, minutis, nudo oculo vix perspicuis, angulato-rotundatis, dissepimentis tenuibus, integris; tubulis brevibus, 2-3 mm. longis, fuscis, æqualibus, lignosis; cystidiis nullis; sporis levibus, ovoideis, luteis, 5-6 \times 3-4 μ .

Hab. ad truncos arborum in Æquatoria (v. LAGERHEIM). — *P. conchato* affinis.

41. **Polyporus Baumannii** P. Henn. Engl. Jahrb. XXIII, p. 546. — 536 Pileo coriaceo, tenui, rigido, flabelliformi, apode, lateraliter affixo, convexo-plano, radiato-lineato, levi, glabro, margine crenato, inciso, flavo-alutaceo, 4-7 cm. lato, 3-4 cm. longo, contextu gilvo; poris rotundato-oblongis, subamplis, brunneis, acie fimbriatis; sporis globosis, hyalinis, levibus, 4-5 μ . diam.

Hab. in truncis vivis in Togo Afr. occ. (E. BAUMANN).

42. **Polyporus pallido-micans** Britz. Hymen. Kunde III, 1897, p. 9, 537 fig. 232. — Pileo fulvo, griseo-vel luteolo-zonato, non piloso; poris minutis, subrotundis vel subrotundo-angulatis, albido-vel griseo-luteo-micantibus, dissepimentis tenuibus; carne alba, suberoso-lignosa; sporis 7 $\frac{1}{2}$ -8 \times 2 $\frac{1}{2}$ -3, in cumulo ochroleucis.

Hab. in truncis putridis Salicis in Bavaria.

43. **Polyporus luteo-cinereus** Britz. Hymen. Kunde III, 1897, p. 9, 538 fig. 230. — Pileo sordide ochraceo basi piloso-tomentoso, margine brunneo-griseo vel albido-griseo, plerumque toroso, dense piloso-tomentoso; carne alba, suberosa, subaquosa; tubulis albis vel albidis; poris oblongo-rotundis, dein subvermicularibus; sporis luteolis, 10 \times 4, in cumulo albis.

Hab. ad truncos Fagi in Bavaria.

44. **Polyporus mollicomus** Britz. Hymen. Kunde III, 1897, p. 9, 539

209. — Pileo albo, fibroso, rugoso, subsericeo, basi pallide rubicundo; carne molli; tubulis albis; poris magnis, irregulariter v. vermiculariter subrotundis; sporis albis, arcuatis, $5-6 \times 2$.

Hab. ad truncos putridos pr. Epagny in Alpibus.

45. **Polyporus mollissimus** Pat. Journ. de Bot. 1897, p. 340. — Totus 540
candidus, mollissimus, siccitate ligneus; pileo sessili dimidiato, sub-
tus plano, azonato, pilis erectis tomentoso, margine tenui acuto,
interdum perfecte resupinato; tubulis etiam marginem pilei occu-
pantibus, $1/2-1$ cm. longis, obliquis, mollibus, dissepimentis tenuibus;
poris majusculis, 1 mm. diam., rotundatis, angulosis v. labyrinthi-
formibus, typicæ integris, interdum denticulatis; sporis hyalinis
levibus, ovoideis, 10×6 , centro guttulo nitente munitis; cystidiis
nullis.

Hab. in truncis Euphorbiæ longanæ in Tonkin. — Pileus
 $5-10$ cm. latus, $1 1/2$ cm. crassus.

FOMES Fr. — Syll. VI, p. 150, IX p. 173, XI, p. 88.

1. **Fomes Pappianus** Bres. Ann. R. Ist. Bot. Roma, VI, 1896, p. 178. 541
— Pileo e pulvinato unguato, crasso, ferrugineo-umbrino, demum
nigrescente, cute glabra v. primitus leviter pruinata, levi v. rugulo-
so-granulosa, contigua, demum in stratis annosis rimosa, in specimi-
nibus annosis e novis stratis concentrice sulcato, intus durissimo, li-
gnoso, subfibroso, ferrugineo-umbrino, usque ad 12 cm. lato; tubulis
stratosi fulvellis; poris mox fuscidulis rotundato-angulatis, mediocri-
bus, dissepimentis crassiusculis; sporis sub microscopio luteo-aureis,
ellipticis, $6-6 1/2 \times 4 1/2-5$; hyphis subhymenialibus $2-3 \mu$. latis.

Hab. ad truncos Acaciæ in Somalia (PAPPI et RIVA). — Spe-
cies hæc media inter *F. zelandicum* Cke. et *F. rimosum* Berk. A
primo distinguitur pileo lignoso, non velutino, nec in formis hor-
notinis concentrice sulcato et sporis; a secundo pileo lætius colo-
rato, poris duplo majoribus et sporis ellipticis. Obiter tantum in-
specta specimina vetusta vix distinguuntur.

2. **Fomes fulvo-umbrinus** Bres. Hedw. 1896, p. 280. — Resupinatus; 542
subiculo suberoso-lignoso, fulvo, valde effuso, ligno arcte adhærente;
tubulis stratosi, longis, luteo-umbrinis; poris minimis, subrotundis,
ferrugineo-umbrinis; sporis luteis, elongato-subellipticis, levibus
 $7 \times 4 \mu$.

Hab. ad ligna pr. Blumenau Brasilæ (MÖLLER).

3. **Fomes Hæuslerianus** P. Henn. Hedw. 1896, p. 305. — Pileo ri- 543
gido sublignoso, reniformi vel flabellato radiato venoso-rugoso, oli-

vaceo pruinoso-tomentosulo dein nudo subnigro, azono $2\frac{1}{2}$ -3 cm. longo, 3-4 cm. lato, margine rigido tenui undulato crenato vel subdentato; stipite lateraliter brevi, basi disciformi olivaceo-pruinoso; contextu pallido-subflavescente; hymenio subcinereo; tubulis brevibus; poris punctiformibus, minutis, rotundatis; sporis subglobosis.

Hab. in truncis Ohampo Novæ Zelandiæ (HÆUSLER).

4. **Fomes albo-luteus** Ell. et Ev. Proc. Acad. Philad. 1895, p. 413. 544

— Effusus, connatus, circiter 1 cm. crassus, 5-6 cm. latus, immarginatus, totus resupinatus v. interdum margine angustissimo reflexo, extus intusque aurantiacus, contextu spongioso, molli; poris latis, 1-2 mm. diam., margine tenui, membranaceo, albo, denticulato.

Hab. in truncis cariosis Abietis subalpinæ, Colorado Amer. bor. (CRANDALL).

5. **Fomes minutulus** P. Henn. Fungi camerun. I, in Engl. Jahrb. 545

XXII, 1895, p. 88. — Pileis lignosis, duris, unguiformibus, parvis, lateraliter confluentibus, vertice oblique sessili-adnatis, concentricè zonato-sulcatis, subreticulato-rugosis, cinnamomeis, 1-2 cm. latis, 5-15 mm. crassis; hymenio griseo-fulvo; tubulis elongatis, confluenti-stratosis, pallide cinnamomeis; poris minutis, punctiformibus, subrotundatis, ore albo pruinosis; contextu lignoso, duro, firmo, pallide cinnamomeo; sporis subglobosis, subhyalinis, levibus, $4-5\frac{1}{2} \approx 4-5$.

Hab. ad truncos, Kamerun (DUSÉN).

6. **Fomes tinctorius** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 362. — 546

Pileo dimidiato, sessili, subunguliformi, convexo, schistaceo-brunneo, parce concentricè elevato-zonato, superficie plus minusve rimoso, contextu floccoso-fibroso et intense rubro, margine obtuso, 6-7 cm. longo latoque, 4-5 cm. crasso; poris magnis, 1-2 cm. longis, $1\frac{1}{2}$ -2 mm. crassis, rubris; sporis subglobosis v. breve ellipticis, crebris, $5-6 \approx 3\frac{1}{2}$ - $4\frac{1}{2}$.

Hab. in truncis Tsugæ canadensis, Alaska Amer. bor. — *F. lateritio* affinis, sed differt poris majoribus, non stratosis.

7. **Fomes circumstans** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 547

1895, p. 37, tab. I, fig. 4. (*Polyporus*). — Pileo duro, lignoso, pulvinato, ungulato, crasso, plus minusve stipitem circumdante, brunneo v. nigrescente, aspero, concentricè rugoso-sulcato; poris longissimis, minutis, rotundis, intus extusque albis; sporis oblongis, levibus, hyalinis, $6-7 \approx 4-5$.

Hab. ad truncos Shepherdiæ argenteæ, South Dakota

AMER. BOR. WILLIAMS). — Pileus 4-8 cm. latus, 2-5 altus et crassus. *F. pinicolæ* affinis.

8. **Fomes fasciculatus** Pat. Bull. Soc. Myc. de France 1895, p. 86. 548

— Pileo convexo, rigido, lignoso, concentrice sulcato, radiatim plicato, crustaceo, nigrescente, glabro, 8-10 cm. lato, circiter 1 cm. crasso; hymenio concavo, rubro; tubulis longis; poris minutissimis, dissepimentis crassis; 10-15 cm. longo, 8-10 mm. crasso, farcto, intus fulvo stipite lignoso, cylindraceo, rubro-nigro, glabro, sporis ovoideo-rotundatis, ochraceis, verrucosis, 14-16 \times 10-13.

Hab. ad caudices in regione congoana gallica (DYBOWSKI).

9. **Fomes ferreus** Berk.-Sacc. Syll. VI, p. 200. — Forma **cinerea** 549

P. Henn. Fungi camerun. I in Engl. Jahrb. XXII, 1895, p. 88. — Pileis subresupinatis, lignoso-duris, rugulosis, fusco-cinereis, margine crassis, contextu pallido; poris rotundato-angulatis, griseo-cinereis.

Hab. ad ramos, Kamerun. (DUSÉN).

10. **Fomes conchatus** (Pers.) Fr.-Sacc. Syll. VI, p. 174. — Var. 550

Bambusæ Pat. Bull. Boiss. 1895, p. 54. — Resupinatus, separabilis, tenuis, orbicularis, margine luteo, villosus; tubulis brevibus, obliquis; cystidiis rubris v. brunneolis, spiniformibus, paucis; hyphis luteis.

Hab. ad culmos *Bambusæ* in Æquatoria.

11. **Fomes melanodermus** Pat. Ann. Jard. Buitenz. 1897, I, p. 113. 551

(*Xanthochrous*). — Pileo dimidiato, sessili, plano, concentrice sulcato v. omnino levi, crusta atra, glabra, $\frac{1}{2}$ mm. crassa tecto, margine crasso, villosus, fusco; hymenio applanato, fusco; poris minutis, 80-100 μ ., rotundis; tubulis 2-3 mm. longis; cystidiis acutis, rigidis, 20-50 \times 8-10; sporis flavis, globosis, levibus, 4-5 μ . diam.; contextu lignoso, rhabarbarino.

Hab. in silvis, Java (MASSART). — Pileus 10-12 cm. diam., $1\frac{1}{2}$ - $2\frac{1}{2}$ cm. crassus.

12. **Fomes tuniseus** Pat. Bull. Soc. Mycol. de France 1897, p. 200, 552

tab. XIII, fig. 1. (*Xanthochrous*). — Pileo unguiformi, dimidiato, lignoso, cinereo, dein fulvo et denique nigrescente, hispido v. villosus, margine tumido, rotundato, sulco bene distincto separato; trama aurata, dura, cinnamomea v. brunneola; tubulis distantibus, trametoideis; dissepimentis crassis, integris; poris rotundis; sporis ovoideo-rotundatis, brevibus, 6-7 \times 5; cystidiis nullis.

Hab. in truncis *Robiniaë Pseudacaciæ* in Tunisia. — Pileus 4-5 cm. latus.

13. **Fomes ignarioides** Pat. Bull. Soc. Mycol. 1898, p. 54 (*Xantho-* 553

chrous). — Pileo dimidiato unguolato, 5-15 cm. lato, cinereo-fusco, pruinoso-velutino, dein glabrato, sublaccato, atro, profunde 1-2-sulcato, margine crasso, rotundato, obtuso, velutino, fusco v. ochraceo; contextu lignoso, radianti, concentricè zonato, fulvo-ferrugineo, subtus plano, fusco-brunneo, olivascenti; poris minutis, rotundato-angulosis, integris, dissepimentis crassis, obtusis; tubulis brevibus 2-4 mm. long., non stratosis; cystidiis nullis; sporis levibus, ovoideo-globosis, intense luteis 5 ≈ 4.

Hab. ad truncus, Mexico (P. MAURY). — A *F. igniario*, cui habitu affinis, differt sporis aureis et hymenio non stratoso.

14. **Fomes roseiporus** Pat. Ann. Jard. Buitenz. 1897, I, suppl. 554
p. 111. — Pileo sessili, dimidiato, orbiculari, antice crenato, 10 cm. lato, 5 cm. longo, plano, concentricè sulcato-zonato, crustula fragili, glabra, opace ochraceo-fulva tecto, margine villosa, fusco-aurantiaco. obtuso; hymenio plano, incarnato, fulvo v. olivaceo maculato; poris minutis, subrotundatis; dissepimentis obtusis, integris; tubulis 6 mm. longis, incarnatis; cystidiis nullis; contextu fibroso, albo.

Hab. in silvis, Java (MASSART).

15. **Fomes rhizomatophorus** P. Henn. Hedw. 1897, p. 202. — Pileo 555
coriaceo-sublignoso, duro, rigido. pleuropode, reniformi, obsolete zonato sulcatoque, cinnamomeo, 4 cm. lato, 3 cm. longo, 1-2 mm. crasso; contextu cinnamomeo; hymenio cinereo, alutaceo; tubulis brevissimis; poris minutis, rotundatis, pallide ochraceis; stipite tereti, æquali, flexuoso, ochraceo, pruinoso, tomentosulo, 8 cm. longo, 4-5 mm. crasso, basi valde elongato-radicato, flexuoso-repenti, rhizomatoideo, 17 cm. longo, inæquali, proliferante, ochraceo-tomentoso.

Hab. ad radices? pr. Rio de Janeiro Brasiliæ. — *P. Glaziovii* Berk. affinis.

16. **Fomes Pini-halepensis** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 49. 556
— Pileo sessili, dimidiato, pulvinato, unguiformi, 6-8 cm. lato, 4-5 cm. longo, crusta albida, membranacea, glabra, rimosissima tecto, margine integro, acuto v. obtuso; hymenio plano, pallide fusco (in sicco); poris minutissimis, angulosis, dissepimentis tenuibus, laceratis; contextu fusco-albido, suberoso, haud fibroso, 2-5 mm. crasso; tubulis concoloribus, 1½-2 cm. longis; cystidiis nullis; sporis non visis.

Hab. in truncis emortuis *Pini halepensis* in Tunisia.

17. **Fomes (Ganoderma) renidens** Bres. Hedw. 1896, p. 280. — Pileo su- 557
beroso-sublignoso, flabelliformi v. reniformi, rugoso, e flavo sangui-

neo-castaneo, nitido, laccato, 3-8 cm. lato; stipite laterali, nitido, laccato, e flavo fulvo-badio, radicato; poris subhexagonis, mediis, pallidis; tubulis umbrinis; contextu cinnamomeo; sporis subglobosis, asperulis, luteis, 8-10 \approx 8.

Hab. ad ligna pr. Blumenau Brasilæ (MÖLLER). — Habitu, colore etc. omnino *Fomitum lucidum* (Seys.) Fr. refert, a quo præcipue sporis globosis distinguitur.

18. **Fomes** (*Ganoderma*) **valesiacus** Boud. Bull. Soc. Bot. Fr. 1894, 558 p. CCXLV et Bull. Soc. Myc. 1895, p. 28. — Pileo sessili aut subsessili, 7 cm. aut ultra lato, dimidiato, laccato, nitente, castaneo v. umbrino-sanguineo, subconcentrice sulcato, ad marginem attenuatum, 2 mm. crassum pallidiore, ad basim circiter 3 cm. crasso; carne albida ad tubulos vix fuscescente, non fibrosa, sed hyphis tenuioribus, ramosis, hyalinis contexta, subputrescenti; tubulis 5-8 mm. longis, fuscescentibus, minutis, ore rotundatis et pallidioribus; sporis fusco-brunneis v. fuscis, ovoideis, asperulis, guttula sæpius unica intus faretis, 10-12 \approx 7.

Hab. ad basim truncorum Laricum pr. Zermatt in Helvetia. — *F. carnosus* Pat. subsimilis, sed carne albida adhuc carnosiore et sporis paulo minoribus diversus.

19. **Fomes** (*Ganoderma*) **Fici** Pat. Enum. Champ. Tunisie, 1892, p. 4, 559 tab. II, fig. 1. — Major, 15-30 cm. latus; pileo semiorbiculari applanato, imbricato, basi stipitiforini brevissimo 1-2 cm. diam., marginato, concentrice zonato, sulcis distantibus, crusta cinereo-nigra v. umbrina, opaca, in juventute rubescenti v. luteola tecto, margine acuto concolori; contextu molli, pallide fulvo, sericeo, tenui, $\frac{1}{2}$ cm.; poris minutis, angulosis, albidis; tubulis umbrinis, longissimis, 4-5 cm. longis; sporis brunneo-rubrescentibus, ovalibus, basi truncatis, asperulis, 2-14 \approx 6-8.

Hab. ad basim truncorum Fici Caricæ in Tunisia. — *F. resinaceo* Boud. proximus.

20. **Fomes** (*Ganoderma*) **mexicanus** Pat. Bull. Soc. Mycol. 1898, p. 54. 560 — Pileo rigido, indurato, subsessili, applanato, tenui, semiorbiculari, antice sinuoso, postice cuneatim attenuato, irregulariter concentrice sulcato, grosse tuberculoso, radiatim rivuloso, fusco-brunneo, opaco, margine recto, tenui, sinuoso tuberculoso pallidiori, crustula fragili tecto, subtus plano-convexo, alutaceo v. pallide fusco, plus minus plicato; poris minutis, rotundis, dissepimentis integris; tubulis brevibus, fusco-brunneis; sporis ovoideis, uno apice truncatis, levibus, 10 \approx 6-7; contextu rhabarbarino.

Hab. ad truncos emortuos Mexico (MAURY). — Affinis *P. lucido*

POLYSTICTUS Fr. — Syll. VI, p. 208, IX, p. 181, XI, p. 90.

1. **Polystictus Mölleri** Bres. Hedw. 1896, p. 280. — Pileo coriaceo- 561
papyrino, tenui, flabelliformi v. reniformi, sericeo, subzonato, ex
albo stramineo, 1 1/2-4 cm. lato; stipite laterali, brevi, interdum
obsoleto, pubescente, basi dilatato-adnato, albo, fuscescente, 2-7
mm. longo, 3-4 mm. crasso; tubulis brevissimis, concoloribus; po-
ris minimis, punctiformibus, rotundatis, ex albo stramineis; hyphis
subhymenialibus, 2 1/2-4 . latis; sporis non visis.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER).

2. **Polystictus cingulatus** Fr.-Sacc. Syll. VI, p. 268. — Forma **pleuro-** 562
poda P. Henn. in Engl. Jahrb. XXIII, 1896, p. 281. — Pileo
coriaceo, cinereo-cervino, zonato, 4-8 cm. lato, margine acuto,
brunneo, pleuropode vel submesopode; stipite depresso, pallido,
usque ad 15 mm. longo, 10 mm. crasso; poris minutis, rotundatis,
pallidis; contextu floccoso, alutaceo.

Hab. ad truncos, Upolu ins. samoëns (GRAEFFE).

3. **Polystictus Holstii** P. Henn. Pilze Ostaf. p. 57. — Pileo coria- 563
ceo-papyraceo, infundibuliformi, rotundato, interdum obliquo, 1-5
cm. diam., dense strigoso-velutino, zonato, rufo-badio v. nigricante,
zonis nunc griseo-velutinis, nunc sublevibus, nitentibusque, mar-
gine tenui, plerumque pallido; stipite centrali v. subexcentrico, 1-4
cm. longo, 1-3 mm. crasso, griseo-fusco, strigoso v. velutino, basi
dilatato; hymenio cretaceo-albido; poris minutissimis, oculo nudo
inconspicuis, rotundatis, contextu albido.

Hab. ad ramos emortuos in Africa trop. (HOLST).

4. **Polystictus atro-albus** P. Henn. Fungi camerun. I, in Engl. 564
Jahrb. XXII, 1895, p. 92. — Pileo coriaceo-papyraceo, rigido,
infundibuliformi, subrotundato, villosulo, dein nudo, subzonato,
atrofusco, 2-3 cm. diam., margine subrepando, rigido; stipite sub-
excentrico, lignoso, duro, firmo, atro, griseo-tomentoso, 2 cm. longo,
1 1/2-2 mm. crasso, intus albido; poris minutissimis v. conspicuis,
rotundatis.

Hab. ad ramos, Kamerun (DUSÉN).

5. **Polystictus Gregorii** A. L. Smith, Journ. of Bot. 1895, p. 341. 565
— Pileo coriaceo-papyraceo, infundibuliformi, rotundato, subobli-
quo, radiatim rugoso, 2-8 cm. diam., superne velutino, zonato,
albido-griseo, zonis nunc griseis, nunc atris, plerumque sinuatis,
margine tenui, atro, crispato-revoluto; hymenio griseo; poris mi-

nutis, rotundis vix decurrentibus; stipite brevi, atro-fusco, velutino, ad 1,5 cm. longo.

Hab. ad cortices, Africa orient. (GREGORY).

6. **Polystictus obesus** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 125. 566

— Pileo stipitato, convexo, dein centro depresso, initio obconico margineque obtuso, demum expanso et margine acuto, flavo-cinamomeo, asperulo, velutino, subcolliculoso, azonato, 4-6 cm. diam.; stipite centrali. spongioso, velutino, obscuriore cinnamomeo, 4-6 cm. alto, $\frac{1}{2}$ -1 $\frac{1}{2}$ cm. apice crasso, basi 2-3 cm.; poris irregularibus, brevibus, 1 mm. longis, initio rotundis margineque crasso, demum irregularibus, subsinuosis, $\frac{1}{2}$ -1 mm. latis, margine acuto; sporis ellipticis, ferrugineis, 7-8 \times 4-5.

Hab. ad terram, Newfield N. Jersey et Fairmount Park Philadelphiae, Amer. bor. — *P. perenni* affinis.

7. **Poystictus semiplicatus** Ell. et Macbr. Bull. Lab. Nat. Hist. Jowa. 567

III, n. 4, 1896, p. 192. — Pileo flabelliformi, saepe resupinato et margine reflexo, tenuissimo, membranaceo, 1-1 $\frac{1}{2}$ cm. longo latoque, albo, postice obscure zonato, margine plicato-striato; poris albis, subangulosis, minutis, fere ut in *P. versicolori*, sed angustioribus.

Hab. ad truncos? in Nicaragua (SMITH).

8. **Polystictus subglaber** Ell. et Macbr. Bull. Lab. Nat. Hist. Jowa. 568

III, n. 4, 1896, p. 192. — Pileo tenui, sicco, rigido, 3 cm. longo, 6 cm. lato, sordide luteo, zonato, radiato-striato, margine rhabarbarino; carne tenuissima, 1 mm. fibrosa, rhabarbarina; poris minutis, oculo nudo vix conspicuis, 1-2 mm. longis, colore carnis, ore albo-griseis.

Hab. ad truncos in Nicaragua.

9. **Polystictus versicolor** Fr.-Sacc. Syll. VI, p. 253. — Var. **albo-** 569

marginatus Peck, 49 Rep. Stat. Bot. N. York. 1896, p. 31. — Pileo ut in typo, sed margine pilis albis saepe zona glabra a parte obscuriore definite separatis late tecto; poris albis, saepe laceratis

Hab. ad truncos, Newfoundland Amer. bor. (WAGHORNE).

10. **Polystictus zonatus** Fr.-Sacc. Syll. VI, p. 260. — Var. **imper-** 570

fectus Peck, 49 Rep. Stat. Bot. N. York, 1896, p. 31. — Poris inaequalibus, dissepimentis tenuibus, acutis v. subdentatis, albidis.

Hab. ad truncos Populi tremuloidis et *P. grandidentatae*, New York Amer. bor.

11. **Polystictus okunduensis** P. Henn. Fungi camerun. I, in Engl. 571

Jahrb. XXII, 1895, p. 91. — Pileo coriaceo-spongioso, subrigido,

duriusculo, reniformi, sessili, fusco-brunneo, subpallidiore zonato, vix ruguloso, villosulo-pruinato, margine obtuso, pallido, 5-8 cm. lato, 4-5 cm. longo; hymenio pallide griseo, contextu ferrugineo-fusco, spongioso, circiter 1 mm. crasso; tubulis 1-1 1/2 mm. longis; poris minimis punctiformibus, rotundatis, griseo-albis, subvillosis; sporis non visis.

Hab. ad truncos, Kamerun (DUSÉN). — *P. badio* affinis.

12. **Polystictus subflabellum** P. Henn. Fungi camerun. I, in Engl. 572

Jahrb. XXII, 1895, p. 91. — Pileo pleuropode, membranaceo-carnosulo, flabelliformi v. spathulato, longitrorsum striato subsulcatoque, azono, margine tenui, sublobato fimbriatoque, albo nitente, ca. 2 cm. lato, 1 1/2 cm. longo; stipite laterali, concolori, velutino, basi discoideo-subincrassato, ca. 5 cm. longo, 1 1/2 cm. crasso; poris mediis, oblongis, acutangulis v. sublaceratis, pallidis.

Hab. ad truncos putres, Kamerun (DUSÉN).

13. **Polystictus griseo-brunneus** P. Henn. n. sp. in litt. *P. aratus* 573

Berk. var. *griseo-brunneus* P. Henn. in Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 90. — Pileo coriaceo, rigido, tenui, sessili, semiorbiculari, cinereo-brunneo, subnitido, obscuriore zonato, verrucis innatis aculeiformibus asperato v. rugoso, margine tenui, rigido subundulato, 4-8 cm. lato, 3-5 cm. longo, contextu ferrugineo; poris minutis, rotundatis, æqualibus, brunneo-fuscis: sporis ovoideis. levibus, uniguttulatis, fusco-brunneis, 7-9 \approx 5-7 μ .

Hab. ad truncos, Kamerun (DUSÉN). — *P. luteo-olivaceo* affinis.

14. **Polystictus Fischeri** P. Henn. Jahrb. XXIII, p. 546. — Pileo 574

coriaceo, rigido, tenui, apode, conchiformi subreniformi, interdum inciso-lobato, cervino, concentrice obscuriore zonato sulcatoque, velutino 4-8 cm. lato, 3-4 cm. longo, margine tenui pallidiore, contextu ferrugineo, subspongioso; poris rotundatis, minutis, acutangulis, brunneo-ferrugineis, acie cinereis, integris; sporis haud conspicuis.

Hab. in Usambara, Afr. occ. (FISCHER).

15. **Polystictus discifer** Pat. Ann. Jard. Buitenz. 1897, I, suppl. 575

p. 111. (*Leucoporus*). — Pileo 2-5 cm. longo, coriaceo-membranaceo, tenui, convexo, cuneiformi, antice lobulato, postice in stipitem attenuato, longitudinaliter striato, concentrice zonato. fusco-brunneo v. nigrescente, velutino dein glabrato, margine tenui, acuto, pallidiori; stipite 5-6 mm. longo, anguste acuteque marginato, compresso, basi orbiculariter dilatato; hymenio concavo, non decurrente, albido; poris minutissimis, angulosis; dissepimentis tenuibus, integris; cystidiis nullis; contextu tenui, pallido.

Hab. ad truncos, Java (MASSART). — *P. mutabili* Berk. affinis.

16. **Polystictus suboccidentalis** Sacc. et Syd. Sic nominandus est *Polystictus albidus* Mass., Sacc. Syll. XI, p. 92, quum exstet anterior ac bene notus *P. albidus* Trog, Sacc. Syll. VI, p. 239.
17. **Polystictus Léveillei** Cooke Enum. Polyp. 144. Sic nominandus *P. cinerescens* Lév., Syll. VI, p. 223, quum extet homonymus anterior Schweinitzii.

HENNINGSIA Möll. Protobasid. p. 44. (Ety. a cl. mycologo berolynensi P. HENNINGS). — Genus esset initio vere thelephoreum, demum polyporeum et sæpius parallele bicipitem, sed teste cl. Bresadola, cum *Polysticto* confluit, immo species ipsa a *P. rigescente* Cooke non differret.

1. **Henningsia geminella** Möll. l. c.

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Hab. ad truncos pr. Blumenau Brasiliæ.

PORIA Fr. — Syll. VI, p. 292. IX, p. 189, XI, p. 93.

1. **Poria carneola** Bres. Hedw. 1896, p. 282. — Late effusa, carnosâ; 577 subiculo membranaceo, alutaceo-pallido, margine tomentoso, albopilacino; tubulis brevibus, interruptis, sæpe obliquis; poris mediis subrotundis v. angulatis, variantibus, luride carneis, hinc inde lilacino-tinctis demumque carneo-pallentibus; sporis non visis; hyphis subhymenialibus $3\frac{1}{2}$ -4 μ .

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER).

2. **Poria flavicans** Karst. Hedw. 1896, p. 44. — Effusa, determinata, 578 adnata, tenuis, ambitu byssina, alba; poris rotundis, æqualibus firmis, integris, sæpe obliquis et laceris, flavicantibus, minutis; cystidiis nullis.

Hab. ad lignum trunci, secti Pini corticati pr. Mustiala in Fennia.

3. **Poria graphica** Bres. Hedw. 1896, p. 282. — Late effusa, tenuis- 579 sima, lilacino-carnea, margine rubello, subiculo nullo; tubulis vix $\frac{1}{4}$ mm. longis; poris elongatis, sinuosis, variis, dissepimentis tenuissimis præditis; sporis non visis; hyphis subhymenialibus 3 μ . latis.

Hab. ad ligna pr. St. Catharina Brasiliæ (MÖLLER). — Species memorabilis, delicata.

4. **Poria pavonina** Bres. Hedw. 1896, p. 282. — Late effusa, coriacea, 580 adglutinata, vivide pavonina, expallens margine obsolete, subiculo nullo; tubulis brevibus, 1 mm. longis; poris parvis, subangulatis; sporis non visis; hyphis subhymenialibus 2 μ .

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER). — *Poria carneo-pallenti* Berk. proxima, sed colore, consistentia et poris inagis regularibus distincta.

5. *Poria umbrinella* Bres. Hedw. 1896, p. 282. — Late effusa; subiculo fere nullo; tubulis 5-8 mm. longis, albo-farctis, umbrino-fuscis; poris minimis, subrotundis, luteo-umbrinis, acie obtusa; sporis luteis, subglobosis, 3-4 × 3; hyphis subhymenialibus luteis, 2-3 μ . latis.

Hab. ad ligna pr. St. Catharina Brasiliæ (MÖLLER). — Habitu et colore cum formis resupinatis *Fomitis salicini* optime convenit, sed sporis diversa.

6. *Poria tephra* Pat. Bull. Soc. Myc. de Fr. 1895, p. 208. — Effusa, tenuis, adnata, orbicularis, cinereo-alutacea, 1-3 cm. diam., margine lato, 1-3 cm. aporo, ambitu byssino, albido dein ochraceo; poris minutis, angulosis brevibus, dissepimentis tenuibus, acutis, integris; sporis hyalinis, levibus, ovatis, 5 × 4; cystidiis nullis.

Hab. ad ramos emortuos in Æquatoria (v. LAGERHEIM).

7. *Poria Dusenii* P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 88. — Late effusa, subcarnosa-coriacea, griseo-flavescens, ambitu byssino, pallido; poris elongatis, angulatis, labyrinthiformibus, amplis, tenuibus, acie laceratis, denticulatis, fimbriatis; sporis non visis.

Hab. ad cortices truncorum, Kamerun (DUSÉN).

8. *Poria ambigua* Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati 3 ser. III, fasc. 1-2 1897, p. 84. — Latissime effusa, margine superiore sæpe inflato subreflexo, alba, demum stramineo-isabellina, subiculo membranaceo, arcte adnato, albo; tubulis ut plurimum obliquis, hinc inde noduloso-congestis, usque ad 8 mm. longis; poris majusculis, angulatis, demum dentato-laceris; sporis hyalinis, obovatis, 5-8 × 3-3½ μ .; basidiis clavatis, 18-20 × 6-8 .; cystidiis fusoides, apice muricellatis et demum levibus, 24-30 × 6-8 μ ., hyphis subhymenialibus tenuiter tunicatis, septatis, 3-4 μ . latis.

Hab. ad truncos Fagi, Carpini et Piri communis in Hungaria (KMET) et in regione tridentina ad truncos Robiniæ Pseudacaciæ. — Nutat inter *Poriam* et *Irpices*.

9. *Poria confusa* Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati 3 ser. III, fasc. 1-2, 1897, p. 87. — Effusa, alba, ætate ochroleuco-crustulina, margine persistenter albo et tenuiter fimbriato, subiculo tenui tomentoso, ambitu separabili; tubulis brevibus, 1-1½ mm. longis; poris variis, rotundatis, angulatis, oblongis, parvis v. me-

diis, ore integro; sporis elongatis, uno latere compressis, hyalinis, 1-guttulatis, $5-6 \approx 3 \mu$.; basidiis clavatis, $15-20 \approx 4-6 \mu$.; hyphis subhymenialibus $2\frac{1}{2} \mu$. latis.

Hab. ad ramos corticatos *Alni glutinosæ* in Hungaria (KMET). — Species media inter *Poriam vulgarem* et *P. mucidam*. Videtur quoque *Polyporo Rostafinskii* Karst. valde affinis, sed iste sec. Karst. Krit. Oefvers. p. 274 sporas habet globosas, 4-6 μ . diam. et marginem strigosum.

10. ***Poria fulvescens*** Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati 3 ser. III, fasc. 1-2, 1897, p. 81. — Late effusa, fulvo-ferruginea, subiculo vix conspicuo arcte ligno innato; tubulis ut plurimum obliquis, subcarnosis, in sicco collapsis, circiter 2 mm. longis; poris majusculis, angulatis, mox in dentes foliaceos v. subulatos porrectis; margine vix visibili, pruinato, pallidiore; sporis hyalinis, obovato-elongatis, $6-9 \approx 3\frac{1}{2}-4\frac{1}{2} \mu$.; basidiis clavatis, $30-35 \approx 6-8 \mu$.; hyphis subhymenialibus tenuiter tunicatis, $2\frac{1}{2}-4 \mu$. latis. 586

Hab. in trunco Populi tremulæ in Hungaria (KMET). — Videtur *Polyporo chrysolomati* Fr. proximus; forma vero pororum ad *Irpices* transit, quibus tamen vix affinis.

11. ***Poria nigrescens*** Bres. Att. R. Acc. Sc. Lett. et Arti degli Agiati 3 ser. III, fasc. 1-2, 1897, p. 83. — Late effusa, subiculo membranaceo, stramineo, facile separabili, $1-1\frac{1}{2}$ mm. crasso; tubulis concoloribus, usque ad 2 mm. longis; poris parvis, subrotundis, in vegeto albis, dein pallide carneo-violaceis, demum nigrescentibus; hyphis subhymenialibus tenuiter tunicatis, 4-6 μ . latis; sporis non visis. 587

Hab. ad truncos emortuos *Abietis pectinatae* in Hungaria (KMET), in regione tridentina (BRESADOLA) et in Bavaria (ALLESCHER). — Perennans, stratosæ, tubulis singulorum annorum strato intermedio floccoso distinctis. Forte hucusque cum *Poria obducente* Fr. confusa, a qua optime distincta.

12. ***Poria subviolacea*** Ell. et Ev. Americ. Natur. 1897, p. 339. — 588 Subiculo arachnoideo-tomentoso, albo, laxo, a matrice non separabili; hymenio primo violaceo et poris hemisphærico-depressis dein sordide albido vel luteolo-albido et poris elongatis, sed brevibus, plus minusve inæqualibus, margine dentato; sporis allantoideis, hyalinis, $3\frac{1}{2} \approx 1$.

Hab. in ramis dejectis *Quercuum* pr. Newfield Amer. bor.

13. ***Poria albo-grisea*** Britz. Hymen. Hymen. Kunde, III, 1897, 589

p. 10, fig. 217. — Albo-grisea, tenuissima, ceracea; poris minutissimis, globoso-angulosis, vermicularibus, dissepimentis laceratis; sporis $6-9 \times 2-3\frac{1}{2}$, curvulis luteolis, in cumulo albis.

Hab. ad ramos quercinos in Bavaria.

14. **Poria carneo-lilacea** Britz. Hymen. Kunde, III, 1897, p. 9, 590
fig. 211. — Carneo-lilacina; poris minutis, irregulariter subgloboso-angulosis, mollibus, interdum carnosis; sporis $3 \times 1\frac{3}{4}-2\frac{1}{2}$, albis.

Hab. ad truncos betulinos in Bavaria.

15. **Poria fulvo-badia** Pat. Journ. de Bot. 1897, p. 340. — Tota 591
resupinata, a matrice inseparabilis, effusa, 12 cm. longa, fulvo-badia, tenuis, margine sterili applicato, pallide ochraceo, tenui, membranaceo, 1 cm. circiter lato; tubulis brevibus, 150-400 μ . longis; poris tantum sub lente conspicuis, angulosis v. rotundatis, 70-90 μ . diam., dissepimentis tenuibus integris; cystidiis hyalinis cylindricis, apice obtusis, sæpe incrustatis, 20-40 \times 10-18.

Hab. ad lignum vetustum in Tonkin.

16. **Poria hanoiensis** Pat. Journ. de Bot. 1897, p. 341. — Tota re- 592
supinata, late effusa, plana, glabra, margine indistincto applicato, initio albo-lilacina, demum brunneola; tubulis brunneis, obliquis, longis; poris minutissimis, oculo nudo vix perspicuis, rotundatis, dissepimentis crassis integris; cystidiis nullis.

Hab. ad truncos vetustos in Tonkin.

17. **Poria subrufa** E. et D. Proc. of the Canad. Inst. 1897, p. 89. 593
— Resupinata, effusa, plerumque plagulas minutas 2-4 cm. lat. inseparabiles, succoso-molles, cremeas, dein (in sicco) rubentes efformans, margine tenui membranaceo angusto, sæpius nullo; poris rotundo-subangulosis, $\frac{1}{4}-\frac{1}{2}$ cm. long., $\frac{1}{4}-\frac{1}{2}$ mm. lat., sepimentis tenuibus, acie acuta, non lacerata; sporis ellipsoideo-oblongis 4×3 .

Hab. ad ramos putres fagineos, Granton, Canada. — Affinis *Poria cruentata*.

18. **Poria xanthospora** Underw. Proc. Indiana Acad. 1893, p. 61. — 594
Resupinata areas amplas ligni obtegens; mycelio tenui, sordide albo, subiculum fere inconspicuum efformante; poris initio albidis, fere superficialibus, usque ad subiculi marginem nascentibus, licet non perfecte evolventibus, dein ob sporas copiosas flavescens demum flavescens-brunneis vel obscure ferrugineis, leniter angulatis, 250 μ . diam. orificio cristato, maturis 1 cm. circiter longis, raro usque 2-2,5 cm. longis; sporis numerosis, ovatis, $6 \times 4,5 \mu$., aureo-flavis nitentibus, levibus, nucleatis.

Hab. sub cortice relaxato et in ligno Populi heterophyllæ, Goose Pond, Indiana Amer. bor.

19. **Poria calcicolor** Sacc. et Syd. Ita dicenda *P. calcea* B. et Br., Syll. VI. p. 295, quum adsit *P. calcea* Schwein. anterior.

TRAMETES Fr. — Syll. VI, p. 334, IX, p. 194, XI, p. 96. — Confer generis dispositionem et emendationes apud Cooke Grev. XIX, p. 98.

1. **Trametes floccosa** Bres. Ann. R. Ist. Bot. Roma, VI, 1896, 595 p. 179. *Fomes introstuppeus* P. Henn. Fg. Afr. I, p. 343 nec Berk. — Pileo dimidiato-sessili, e pulvinate explanato-subconchato suberoso-molli, substuppeo, glabro, postice subcruposo, luride alutaceo, hinc inde livido tincto, margine zonis violaceo-lividis ornato, 8-12 cm. lato, 5-9 cm. antice producto, intus substantia spongioso-molli, floccosa, ligni colore, zonis fuscidulis concentricis signata, 1½-2½ cm. crassa prædito; tubulis 1-2 cm. longis, alutaceis; poris ½ mm. circiter latis, rotundato-subhexagonis, concoloribus; sporis obovato-elongatis, hyalinis, 12-14 × 5-7.

Hab. ad truncos Africae centralis (SCHWEINFURTH). — A *Fomite introstuppeo* Berk. præcipue poris majoribus, subhexagonis, mox distinguenda. *Trameti cubensi* Mont. proxime affinis.

2. **Trametes Chusqueæ** Pat. Bull. Boiss. 1895, p. 84, tab. II, f. 7. 596 — Pileo sessili, orbiculari, 2-3 mm. diam., puncto dorsali adfixo, albo, villosa, margine acuto, integro, recto vel leviter inflexo; hymenio pallide rufo vel albido, concavo, plano vel convexo; poris minutissimis, oculo nudo vix perspicuis, angulosis, dissepimentis tenuibus, mollibus, subintegris; basidiis clavatis, 20 . longis 4-sterigmaticis; cystidiis nullis; sporis hyalinis, ovoideis, levibus, 5 × 3 µ.; contextu firmo, albo, non gelatinoso.

Hab. in truncis emortuis *Chusqueæ* in Æquatoria (v. LAGERHEIM). — *T. Sprucei* Berk. affinis.

3. **Trametes andina** Pat. Bull. Soc. Myc. de Fr. 1895, p. 208. — 597 Pileo sessili, imbricato-lobato, adpresse tomentoso, albido, postice subalutaceo, dense minuteque concentricè sulcato, margine repando, contextu albido, tenui, coriaceo, hymenio pallide alutaceo; poris mediis, angulosis, dissepimentis tenuibus, integris; tubulis brevibus.

Hab. ad truncos emortuos in Æquatoria (v. LAGERHEIM). — Pileus 8-12 cm. latus, 3-4 mm. altus, coriaceus. *T. occidentali* valde affinis.

4. **Trametes Ellisiana** P. Henn. Fungi camerun. I, in Engl. Jahrb. 598

XXII, 1895, p. 92. — Pileo coriaceo, sublignoso, rigido, sessili, semiorbiculari, decurrente, leonino, dense fibroso-strigoso, azono, fibris ramosis, subrigidis, stuposis, erectis vel depressis, margine reflexo, contextu ochraceo; hymenio irregulariter decurrente, alutaceo v. ochraceo, tomentosulo; poris mox amplis, rotundatis, oblongis, plus minus acutangulis, mox in dentes compresso-acutangulos laceratis.

Hab. ad truncos Sierra Leone, Africa (COLE).

5. **Trametes grisea** Pat. Journ. de Bot. 1897, p. 341. — Solitaria 599
v. imbricata; pileo semiorbiculari sessili, dimidiato, rigido, plano-convexo, margine sinuato, antice in longitudine plicato rugulosoque, postice tuberculoso, zonis tribus concentricis vix innatis prædito, pruinoso, griseo, 5-8 cm. lato, 1-2 cm. crasso; margine albo obtuso, rotundato, erecto, 6-8 mm. crasso; tubulis brevibus; poris rotundatis v. ovalibus, mediocribus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.

Hab. in truncis putridis in Tonkin.

6. **Trametes trabea** Otth, Bern. Mittheil. 1870, p. 92. — Pileo sub- 600
eroso-coriaceo e basi parum dilatata reflexo, sulcato-zonato, villosulo, fulvido, umbrino v. rufescenti-brunneo, intus fulvo-ferrugineo, margine vulgo subtus tumidulo et sterili; poris concoloribus, subpruinosis, rotundis, oblongis v. linearibus, in series a basi ad marginem excurrentes digestis v. hinc inde inordinatis.

Hab. ad truncos et lignea pinea, quercina, faginea, populina in Helvetia. Pileus pororum strato nunc crassior, nunc angustior, vegetus fragrans.

7. **Trametes Fagi** Otth, Bern. Mittheil. 1870, p. 93. — Pileo fulvo, 601
triquetro, superficie in fibras sericeas soluto, margine subacuto; poris minutis, inæqualibus, vix ultra 2 mm. longis, pileo concoloribus licet paullo pallidioribus, subdecurrentibus; contextu duriusculo, parum elastico, fulvo, zonato.

Hab. in ligno fagineo fluctuato in Helvetia. — Pileus 2 cm. lat. 15 mm. cr.

8. **Trametes nivea** Otth, Bern. Mittheil. 1870, p. 94. — Pileo albo, 602
immutabili, crasso, suberoso-elastico, submolli et tenaci, triquetro, scruposo-inæquabili, gibboso-adnato et leniter attenuato-decurrente, margine acutiusculo, contextu albo, obsolete zonato; poris longis, mediocribus, subirregularibus.

Hab. ad ligna pinea putrescentia in Helvetia. — Pileus transverse 9-10 cm. lat. pori 10-12 mm. long.

HEXAGONIA Fr. — Syll. VI, p. 356, IX, p. 198, XI, p. 97. — Cfr. Cooke, Grev. XIX, p. 103.

1. **Hexagonia atro-sanguinea** P. Henn. Engl. Jahrb. XXIII, p. 545. 603
— Pileo subresupinato, late effuso, margine libero, coriaceo, rigido, atro-rufo v. atro-sanguineo, zonato, striato, levi, glabro; alveolis amplis, hexagonis, subsanguineis, cinereo-pruinosis, 1-1 1/2 cm. diam., intus setulis brunneis vestitis, acie integris.

Hab. in ramis putridis in Camerunia (STAUDT).

2. **Hexagonia vittata** Ell. et Macbr. Bull. Labor. Nat. Hist. Univ. 604
Jowa, IV, 1896, p. 68. — Pileo membranaceo-coriaceo, expanso, 2-3 cm. lato, 6-10 cm. longo, subresupinato, margine libero, plus minus reflexo, vix sulcato-plicato, tenui, undulato, acuto, concentricè vittato, subglabro, atro, margine pallidiore et substerili; alveolis pallide brunneis v. fuscis, nitidis, rigidis, acutis, margine integro, 500-700 μ . diam., elongatis.

Hab. in ramis et truncis pr. Castillo Nicaraguæ (SMITH).

MYRIADOPORUS Peck — Syll. VI p. 384, IX p. 201.

1. **Myriadoporus subsulphureus** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 605
p. 277. — Effusus immarginatus, extus ligneus v. griseo-albus, intus dilute sulphureus, contextu grumoso suberoso, subinde horizontaliter stratosus, 4-5 mm. crassus, continuus, vulgo 5-6 cm. longus; poris imperfecte evolutis, non continuis nec cylindraceis, sed cellas parvas seu cavitates tubulorum instar efformantibus, irregulariter sparsis, superficiem versus magis numerosis.

Hab. in ligno putrido, Colorado Amer. bor.

CERIOMYCES Corda -- Syll. VI, p. 385, IX p. 201.

1. **Ceriomyces cubensis** Pat. Bull. de la Soc. Mycol. de France, 1896, 606
p. 133, tab. IX, fig. 4 (*Ptychogaster*). — Fulvus, durus, subglobulosus, 3-5 cm. altus, circiter 3 cm. latus, fibrosus, concentricè zonatus; sporophoris cohærentibus, cylindricis, elongatis, fulvis, transverse septatis; sporis globosis v. ovoideis, circiter 8 μ . diam. utrinque truncatis, sed interdum attenuatis et fusiformibus, levibus, varie coloratis, pallide fulvis, fulvis v. intense rubris; cystidiis (?) fulvis v. rubris, non septatis, 200-500 \times 12-20.

Hab. ad truncorum basim (?), in Cuba.

2. **Ceriomyces Fici** Pat. Enum. Champ. Tunisie, 1892, pag. 4, tab. II, 607
fig. 2 (*Ptychogaster*). — Sessilis, tuberculiformis, hemisphæricus, 5-8 cm. diam., fragilissimus, intus fulvus; contextu radianti, zo-

nato, ex hyphis erectis formato; sporophoris sterilibus v. fertilibus; crusta nulla; sporis binis v. trinis concatenatis, ex hyalino luteis, demum rubris, globosis, ovalibus v. elongatis, levibus, 10-22 \approx 8-12 vel 9-10 μ . diam.

Hab. ad basim truncorum Fici Caricæ in Tunisia.

CYCLOMYCES Kze. et Fr. — Syll. VI, p. 389.

1. **Cyclomyces javanicus** Pat. Ann. Jard. Buitenz. 1897, I: suppl. 608 p. 113, (*Xanthochrous*). — Pileo fusco-ferrugineo, molli, orbiculari, 6 cm. diam., centro scruposo-tomentoso depresso, margine erecto, sinuoso, obtuso, cristato, hispido; stipite radicato, inverse conico, centrali, 8 cm. longo, apice 25 mm. crasso, regulariter attenuato, rugoso-sulcato, rufo-brunneo, velutino, farcto, contextu indurato; lamellis fusco-olivaceis, concentricis, crassiusculis, integris, obtusis, distantibus (1 mm.), centralibus subporiformibus; cystidiis nullis; basidiis longissimis, 50-70 μ .; sporis ovoideis, levibus, 13 \approx 5, pallide fuscis.

Hab. ad terram (?) in silvis Javæ (MASSART):

FAVOLUS Fr. — Syll. VI, p. 390, IX, p. 202, XI, p. 101.

1. **Favolus Preussii** P. Henn. Engl. Jahrb. XXIII, p. 545. — Pileo 609 carnoso, submembranaceo, flabelliformi, sinuoso-lobato, lateraliter stipitato, levi, subglabro, postice obsolete striato, margine inciso denticulato, crispato, brunneo, usque ad 13 cm. lato, 7 cm. longo; stipite postice cuneato, subcylindraco, basi discoideo, farcto, villoso, concolori, 2 cm. longo, 5 mm. crasso; alveolis amplis, oblongis, acutangulis, acie laceratis, denticulatis, brunneolis; sporis non visis.

Hab. in truncis putridis in Camerunia (PREUSS).

2. **Favolus congolensis** De Seyn. Rech. Champ. Congo fr. 1897, I, 610 p. 28, tab. I, fg. 27-31. — Stipite laterali, tenui, luteo-flavescente, levi, plano, 5-6 mm. longo; pileo orbiculari, convexulo, bulloso papuloso, carnosulo-membranaceo, margine sinuoso integro, luteo flavescente, 4-6 mm. lato, subtus poris hexagonis, in quibusdam elongatis, ornato, dissepimentis acie integra; hymenio pilis claviformibus apice verruculosus exsertis prædito; cystidiis mammi-formibus paucis; sporis non visis.

Hab. ad cortices in regione Kongolana gallica.

3. **Favolus striatulus** Ell. et Ev. Americ. Natur. 1897, p. 339. — 611 Pileo convexo-plano, siccio firmo et rigido, umbilicato, stipitato,

radiato-striato lineis obscurioribus, sed non sulcato, 4-5 cm. lato, siccò pallide luteolo; margine pallidiore, sublobato, anguste incurvato; stipite centrali, in pileum dilatato, solido, pallide luteolo, subtilissime velutino, 1 cm. longo, 3-5 mm. crasso; poris inæqualibus, decurrentibus, subquadrangularibus v. ellipticis, 1-2 mm. altis, margine acuto minuteque eroso-dentato; sporis allantoides, hyalinis. 5-7 × 1.

Hab. in ramis putridis in silvis Delaware Amer. bor. (COMMONS).
— *F. Curtisii* Berk. affinis.

GLÆOPORUS Mont. — Syll. VI, p. 403, IX, p. 204, XI, p. 103.

1. **Glæoporus conchoides** Mont.-Sacc. Syll. VI, p. 403. — Var. **steriformis** P. Henn. Hedw. 1897, p. 204. — Pileo coriaceo, dimidiato, velutino, subzonato, interdum tuberculato sulcatoque, alutaceo, 1-4 cm. lato; poris gelatinosis, subrotundatis, 100-120 μ . diam., pallido-carneis; sporis non visis.

Hab. ad truncos emortuos pr. Balao Æquatoriæ (EGGERS).

LASCHIA Fr. — Syll. VI, p. 404, IX, p. 204, XI, p. 103.

1. **Laschia Moelleri** Bres. Hedw. 1896, p. 285. — Sessilis et stipitata; pileo orbiculari v. reniformi, glabro, pellucide alveolato, albo, 4-8 mm. lato; stipite laterali, concolore, usque ad 4 mm. longo, 1 mm. circiter crasso, pellucido, glabro; alveolis obovatis, hexagonis, majusculis, 1-1½ mm. albis; sporis subglobosis, hyalinis, 6-9 × 6-8; basidiis clavatis 20-25 × 5-6; cellulis pilei granuloso-asperulis, 16-18 × 14, ellipsoideis.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER).

2. **Laschia flava** Bres. Hedw. 1896, p. 285. — Pileo subreniformi, pellucide alveolato, sub lente pruinato, vivide flavo, 2-3 mm. lato; stipite laterali, filiformi, 2-3 mm. longo, concolore, pruinato; alveolis parvis, rotundato-angulatis, dissepimentis crassiusculis, concoloribus; sporis ellipsoideis, 7-8 × 4-4½; basidiis clavatis. 20-24 × 6; cellulis pilei clavato-stipitatis, apice echinulatis, 15-20 × 12-14.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER).

3. **Laschia rubra** Bres. Hedw. 1896, p. 285. — Pileo subreniformi v. suborbiculari, pellucide alveolato, glabro, læte rubro, 1-2 mm. lato; stipite laterali v. excentrico, concolore, glabro, pellucido, 1½-3 mm. longo, ½-1 mm. crasso; alveolis hexagonis, parvis, concoloribus, dissepimentis crassiusculis; sporis subglobosis, 8-10 × 7-8;

basidiis clavatis, 20-25 \times 5-6; cellulis pilei ellipticis, glabris, 12-14 \times 8-9, polygonalibus.

Hab. ad cortices arborum pr. Blumenau Brasiliæ (MÖLLER). — A *Laschia Auriscalpio* Mont., cui simillima, præcipue alveolis quadruplo minoribus distincta.

4. *Laschia Volkensii* Bres. in P. Henn. Pilze Ostafri. p. 58. — Tota 616
citrina; pileo membranaceo, orbiculari, e latere stipitis sinuato-bilobo, pellicide reticulato, glabro, 4-10 mm. lato; alveolis hexagonis, $\frac{2}{3}$ mm. latis, dissepimentis crassiusculis, obtusis; stipite tereti, excentrico, fere laterali, e pruinato glabrescente, farcto, 4-7 mm. longo, $\frac{2}{3}$ mm. crasso; basidiis clavatis, 40-45 \times 8-10; sporis luteolis, ellipticis, 10-11 \times 6-7; cellulis pilei elongato-subclavatis, echinulatis, 30-45 \times 12-15.

Hab. ad ligna putrida in Africa trop. (VALKENS) — *L. Auriscalpio* Mont. affinis, sed bene diversa.

5. *Laschia cantharelloides* Pat. Ann. Jard. Buitenzorg. 1897, I. 617
suppl. p. 109, tab. XXIV, fig. 5-7. — Pileo gelatinoso, sessili, vertice adfixo, pendulo, inverse cupuliformi, lateraliter inciso, rufobrunneo, pruinose, margine sinuato, irregulariter bulboso v. radiatim sulcato, 1-3 cm. diam.; hymenio infero; lamellis paucis, 3-6, radiantibus, ramosis, crassis, obtusis, interstitiis lamellato-reticulatis; basidiis claviformibus, 4-sporis; cystidiis nullis; sporis ovoideis, hyalinis, 8-10 \times 5-6; contextu gelatinoso ex hyphis crassis subhyalinis composito.

Hab. ad truncos, Java.

6. *Laschia (Favolaschia) saccharina* Pat. Bull. Boiss. 1895, p. 54. — 618
Pileo albido, carnoso-coriaceo, horizontali, coniformi, postice marginato, pruinoso-pulverulento, 1-2 mm. lato, margine involuto; hymenio glauco, concavo; poris minutis (200 μ . latis), distantibus angulosis, dissepimentis crassis, pruinosis integris; stipite puncto dorsali adfixo, curvato, gracili, tereti 1 mm. longo, vix $\frac{1}{2}$ mm. crasso, albido-pruinoso; contextu albo vix gelatinoso; pellicula pilei e cellulis subhyalinis, ovoideis, numerosis, 25-30 \times 20 μ . composita.

Hab. in truncis putridis Chusqueæ in Aequatoria. — *F. Auriscalpio* affinis.

7. *Laschia (Favolaschia) Frieseana* P. Henn. Fungi camerun. I, in Engl. 619
Jahrb. XXII, 1895, p. 94. — Pileo tremellosomembranaceo, resupinato, subreniformi, vertice affixo, melleo, tessellato-tuberculato, integro, 2-7 mm. diam.; alveolis rotundatis, hexagonis, subdenti-

culatis, concoloribus, usque ad 1 mm. diam.; sporis subglobosis, hyalinis, 5-7 μ .

Hab. ad petiolos putres *Palmarum*? Kamerun. (DUSÉN).

8. *Laschia* (*Favolaschia*) *lateritia* P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 94. — Pileo membranaceo, verticaliter affixo, reniformi, tessellato-verrucoso, pruinoso, 3-11 mm. lato, margine repando-crenato, lateritio; stipite excentrico, sublaterali, faretto, concolori, farinaceo-subpruinoso, 5-9 mm. alto, $\frac{1}{2}$ -1 mm. crasso, basi incrassato; poris rotundato-oblongis, acutangulis, 0,5-1,5 mm. diam., crassiusculis; sporis ellipticis, intus granulatis, flavis, 7-8 \approx 4-5 $\frac{1}{2}$ μ .; basidiis clavatis, 18-30 \approx 10-14.

Hab. ad ramos putres, Kamerun (ZENKER et STAUDT).

9. *Laschia* (*Favolaschia*) *bibundensis* P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 94. — Minima, pleuropoda, albida; pileo horizontali, convexulo, semiorbiculari, tessellato, albo-villosulo, 1-2 mm. lato, 1-1 $\frac{1}{2}$ mm. alto, margine subrepando; stipite vix 0,3 mm. alto, albo-pruinoso v. villosulo; hymenio plano, pallido; poris rotundato-angulatis, parvis, crassis, pruinosis; sporis ovoideo-ellipsoideis, hyalinis, granulatis, 9-10 \approx 7-8 μ ; basidiis subclavatis, 20-25 \approx 9-11 μ ., granulatis.

Hab. ad petiolos putres *Elaeis guineensis*, Kamerun (DUSÉN).

10. *Laschia* (*Favolaschia*) *Staudtii* P. Henn. Engl. Jahrb. XXIII, p. 544. — Pileo gelatinoso, subramoso, mesopode, convexo-plano, crasso, suborbiculari, levi glabroque, niveo, 8-16 mm. diam., hymenio plano v. subconvexo; tubulis 2-4 mm. longis; poris rotundatis v. oblongis, subacutangulis, crassiusculis, acie integris; stipite gracili, fistuloso, æquali, levi, glabro, subpruinoso, niveo, 2-4 cm. longo, 2 mm. crasso; sporis subglobosis, levibus, hyalinis, guttulatis, 4-4 $\frac{1}{2}$ \approx 3 $\frac{1}{2}$ μ .-4.

Hab. in ligno putrido in Camerunia (STAUDT).

11. *Laschia* (*Favolaschia*) *Baumanniana* P. Henn. Engl. Jahrb. XXIII, p. 544. — Pileo tenui translucente, gelatinoso, orbiculariter campanulato-explanato, centro umbonato v. umbilicato-subpapilloso, tessellato-tuberculato, flavo, 5-15 mm. diam.; stipite centrali, gracili v. tenui, æquali, fistuloso, levi glabroque, obsolete striato, interdum torto, basi vix incrassato, pallido, 1-3 cm. longo, 1-1 $\frac{1}{2}$ mm. crasso; alveolis oblongis v. rotundato-hexagonis, brevissimis, planis, angustis, acie integris; sporis ellipsoideis, hyalinis, basi apiculatis, 6-7 \approx 4.

Hab. in ligno in Togo Afr. occ. (BAUMANN).

12. *Laschia (Favolaschia) rosea* P. Henn. Engl. Jahrb. XXIII, p. 545. 624
 — Pileo membranaceo, gelatinoso, subreniformi, subsessili, resupinato, affixo vel lateraliter breve stipitato, 5–11 mm. diam., tessellato, roseo; stipite vix $1\frac{1}{2}$ mm. longo, 1 mm. lato, concolori, recurvato; alveolis hexagonis, $1\frac{1}{2}$ mm. amplis, acie crassis, integris, subroseo-pallidis; sporis ovoideis v. subellipsoideis, flavis, $5-6 \times 3\frac{1}{2}-4\frac{1}{2}$.
Hab. in ramis emortuis in Togo Afr. occ. (BAUMANN).
13. *Laschia (Favolaschia) citrinella* P. Henn. Engl. Jahrb. XXIII, 625
 p. 545. — Pileo membranaceo, gelatinoso, subreniformi, flavo, verrucoso-rugoso, margine sinuoso, 2–6 mm. lato; hymenio crispato, sublamelloso-venato; alveolis irregularibus, plus minus amplis, acutangulis v. laceratis, crassis; stipite laterali affixo, tereti, farcto, pruinoso, 3–6 mm. longo, 1 mm. crasso, flavo; sporis ellipsoideis, levibus, $6-7 \times 4-5$; basidiis clavatis.
Hab. in ligno putrido in Camerunia (STAUDT).
14. *Laschia (Favolaschia) brasiliensis* P. Henn. Hedw. 1897, p. 203. — 626
 Pileo reniformi, tenui-membranaceo, pellucido, flavo, reticulato, glabro, 4–8 mm. diametro; stipite tereti vel subcompresso, luteolo, minute tomentosulo, 5–12 mm. longo, 0,5–0,9 mm. lato; alveolis hexagonis, oblongis, dissepimentis crassiusculis.
Hab. ad ramos in Brasilia (SELLO).
15. *Laschia (Favolaschia) Selloana* P. Henn. Hedw. 1897, p. 203. — 627
 Pileo membranaceo, gelatinoso-elastico, subreniformi vel spatulato lobato, tessellato-reticulato, levi, subaurantiaco, 5–17 mm. diametro; stipite laterali compresso, subcurvato, aurantiaco, 2–3 cm. longo, 1–2 mm. crasso, tomentosulo; alveolis acutangulis 0,5–2 mm. latis, crassiusculis.
Hab. ad ramos in Brasilia (SELLO).
16. *Laschia (Favolaschia) pulverulenta* P. Henn. Hedw. 1897, p. 203. — 628
 Pileo pusillo, membranaceo, semiorbiculari, convexo, pallido, farinaceo-pulverulento, 0,5–1 mm. diametro; stipite laterali, concolori, farinaceo, ca. 0,5 mm. longo; alveolis paucis, 5–12, hexagonis, pallidis, crassiusculis.
Hab. ad caules herbarum in Brasilia (ULE). — Species minutissima *L. flavæ* Bres. proxime affinis.
17. ?*Laschia (Favolaschia) magnifica* P. Henn. Hedw. 1897, p. 203. — 629
 Pileo membranaceo, tenui, subgelatinoso, orbiculariter convexo subcampanulato, glabro, rufo-brunneo vel purpurascente 2–3 $\frac{1}{2}$ cm. diametro; stipite centrali, farcto, tereti vel compresso, tenui, levi gla-

broque subpruinoso, rufobrunneo, interdum curvato 4-7 cm. longo, 1-2 mm. crasso; alveolis radiantibus penta-vel hexagonis, amplis ad marginem veniformibus; sporis subglobosis, hyalinis $3\frac{1}{2}$ - 4μ .

Hab. in foliis deciduis, ligno in Brasilia (SELLO) et Venezuela (GOLLMER). — Species magnifica forte potius ad *Favolum* ducenda.

18. **Laschia** (*Porolaschia*) **micropora** Pat. Bull. Soc. mycol. 1898, 630 p. 55. — Pileo sessili, suborbiculari, plano, 8 cm. lato, tenui, glabro, brunneo-fusco, pellucido, gelatinoso, margine acuto, inflexo, integro; hymenio infero, applanato; poris minutissimis, angulosis, regularibus; dissepimentis tenuibus, integris, gelatinosis; basidiis simplicibus claviformibus, 4-sterigmaticis; cystidiis nullis; sporis albis, ovoideis, grosse 1-guttatis, $7\approx 5$.

Hab. ad truncos, Mexico (P. MAURY). — Affinis quoque *Glæoporo*.

MERULIUS Hall. — Syll. VI, p. 411, IX, p. 205, XI, p. 104. — Cfr. Grev. XIX, p. 100.

1. **Merulius subambiguus** P. Henn. Hedw. 1897, p. 202. — Resupinato-effusus, submembranaceus, ochraceo-rufus, ambitu late byssino, albo; hymenio ceraceo, primo reticulato, dein poroso; poris subrotundis, acutangulis; sporis subglobosis, hyalino-fuscidulis, levibus, 5-6 μ .

Hab. ad cortices truncorum pr. Blumenau Brasiliæ (MÜLLER).

2. **Merulius rufus** Pers.-Sacc. Syll. VI, p. 417. — Var. **pinicola** 632 Karst. Hedw. 1896, p. 45. — Mycelio pelliculam tenuissimam, crustaceo-adnatam, albam sistente; hymenio carnosomolli, æqualiter poroso, carneo-flavo.

Hab. in ligno Pini in regione Mustialensi Fennicæ.

3. **Merulius lacrymans** (Jacq.) Fr. — Sacc. Syll. VI, p. 419. — Var. 633 **terrestris** Ferry, Revue mycol. 1895, p. 72; var *terrestris*. Peck, 49 Rep. Stat. Bot. N. York, 1896, p. 31. — Pileis dimidiatis, horizontalibus, superpositis, stipite communi suffultis; subiculo albido v. griseolo; hymenio sporisque dilute ferrugineis; cetera ut in typo.

Hab. ad terram in Vogesis, in cellario, Michigan Amer. bor.

4. **Merulius Moelleri** Bres. et P. Henn. Hedw. 1896, p. 285. — Pileo 634 membranaceo-molli, sessili, valde posticè resupinato-producto, albo, tomentoso-floccoso, 2-4 cm. lato, sæpe aliis connato, concentricè sulcato, margine repando-lobato; hymenio plicis reticulatis, subporosis prædito, aurantio-carneo vel vinoso, fuscescente; sporis

hyalinis, globosis, nucleo fulvo, 3 μ . diam.; basidiis clavatis, 25 \times 4-5; hyphis subhymenialibus 4-4 $\frac{1}{2}$ μ . latis.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER). — Habitus prorsus *Merulii tremellosi* Schrad., at substantia molli, membranacea, forma sporarum etc. satis superque distinctus.

SOLENIA Hoffm. — Syll. VI, p. 424, IX, p. 207, XI, p. 106.

1. **Solenia porioides** (Alb. et Schw.) Sacc.-Syll. VI, p. 425. — Var. ⁶³⁵
quercina Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 62. — Tubulis sessilibus, globosis, dein cupuliformibus, villosis, cinereis, radiatim striatis, glabrescentibus, minutis, sparsis aut densissime gregariis, mycelio late effuso (10-20 cm.) mucedineo, cinereo, insidentibus; hymenio levi, brunneo-fusco; basidiis clavatis, 20 \times 6 μ .; cystidiis nullis; sporis hyalinis, globosis, 5-6 μ . latis, levibus, 1-guttulatis.

Hab. in ligno denudato, putrido *Quercus Mirbeckii* in Tunisia.

Fam. 3. Hydnaceæ Fr.

HYDNUM L. — Syll. VI, p. 430, IX, p. 208, XI, p. 106. — Cfr. Grev. XX, p. 2.

1. **Hydnum serotinum** C. Mart. Bull. Soc. bot. Genève, VII, 1892- ⁶³⁶
1894 p. 194. — Pileo glabro levique, convexo-plano, subumbilicato, carnosomembranaceo, tenui, rubro-ferrugineo, margine sinuato, 1 $\frac{3}{4}$ cm. lato; stipite claviformi, compresso, glabro levique, apice curvato, concolori, 2 $\frac{3}{4}$ cm. longo, basi 7 mm. crasso, apice 2 mm.; aculeis pallidioribus, dein concoloribus, brevibus, vix 1 mm. longis, integris, acutis.

Hab. in muscosis montanis sub nive in Helvetia.

2. **Hydnum spongiosipes** Peck, 50 Rep. p. 111. — Pileo convexo, ⁶³⁷
molli, spongioso-tomentoso, contextu tamen duriusculo, ferrugineo-brunneo, strato inf. firmiore et fibroso, sed concolore; aculeis tenuibus, 2-4 mm. long., ferrugineo-brunneis, dein obscurioribus; stipite intus duro coriaceo, extus spongioso tomentoso, pileo concolore, substantia centrali sæpe zonata; sporis subglobosis, nodulosis, purpureo-brunneis, 4-6 μ . diam.

Hab. in silvis, Rensselaer et Saratoga Amer. bor. — Pileus 4-10 cm. lat.; stipes 4-7 cm. long., 8-16 mm. cr.

3. **Hydnum albo-nigrum** Peck, 50 Rep. p. 110. — Pileo convexo-pla- ⁶³⁸
no, infra late obconico-stipitato, carnosolento, dense tomentoso,

fulvo-brunneo v. fumoso-brunneo, tomento albido omnino tecto, carne superne brunnea, inferne duriore et nigra; aculeis brevibus albis, dein albidis v. griseis; stipite brevi inæqualiter compresso, udo nigricante, sicco fulvescente, dense crasseque tomentoso, intus nigro; sporis albis, globosis 4-5 μ . diam.

Hab. ad terram in silvis mixtis, Gansevoort Amer. bor. — Pileus $2\frac{1}{2}$ -7 cm. lat., stipes 2-5 cm. long. — *H. nigro* proximum sed structura diversum.

4. **Hydnum scabripes** Peck, 48 Rep. 1896; p. 13. — Pileo carnosio, 639
firmo, convexo, glabro, rubro-griseo, margine incurvato et ultra aculeos extenso; carne alba; aculeis albidis v. cinereis, demum ferrugineo-brunneis, decurrentibus; stipite obtuso, subæquali, scabroso-punctato; sporis subglobosis v. irregularibus, leniter nodulosis, coloratis, 7 μ . diam.

Hab. sub *Tsuga canadensi*, Elizabethtown Amer. bor. — Colore pilei et stipite punctato-scabrido facile dignoscitur.

5. **Hydnum vellereum** Peck, 50 Rep. p. 110. — Pileo subplano, 640
coriaceo-duriusculo, centro sæpe inæquali v. colliculoso, tomentosovelutino, albido v. cinereo (ob tomentum) v. ferruginascente; margine albido, intus fibroso, ferrugineo-brunneo; aculeis brevibus, 2 mm. long., albidis in brunneum vergentibus; stipite brevi pileo concolore sæpeque albo-tomentoso; sporis albis, globosis, minute echinulatis, 4 μ . diam.

Hab. inter folia dejecta in silvis, Port Jefferson Amer. bor. — Pileus 12-36 mm. lat.; stipes 12-20 mm. long., 4 mm. cr.

6. **Hydnum atro-viride** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, 641
p. 38, tab. I, fig. 5. — Pileo carnosio-coriaceo, atro-viridi, tenui, convexo-expanso, orbiculari, glabro; stipite plus minus deformato, brevi v. elongato, centrali v. excentrico, atro-viridi; aculeis gracilibus, acutis; sporis atro-viridibus, asperis, irregularibus, 6-9 μ . diam.

Hab. ad lignum putridum, Alabama Amer. bor. — Pileus 1-2 cm. diam.; stipes 1-2 cm. longus.

7. **Hydnum Uleanum** P. Henn. Hedw. 1897, p. 198. — Pileo coriaceo, 642
submembranaceo, apode vel substipitato, flabelliformi, alutaceo, radiato obsolete striato; margine tenui, integro, 3-5 cm. lato, $2\frac{1}{2}$ -3 cm. longo; aculeis subulatis, integris, pallide ochraceis, densis, 1-1 $\frac{1}{2}$ mm. longis, 110-180 μ . crassis, ad marginem subtuberculatis; sporis globosis, levibus, 7-8 μ . episporio brunneo vel fusco.

Hab. in ligno carbonaceo et ad truncum pr. Sao Francisco et Itajahy Brasiliæ (ULE).

8. **Hydnum andinum** Pat. Bull. Boiss. 1895, p. 55. — Pileo levi, membranaceo, tenui, $\frac{1}{2}$ cm. crasso, orbiculari, 12-15 mm. diam., plano, rufo-ochraceo, pruina alba consperso; stipite brevi, erecto, tereti, 5 mm. longo, 1-2 mm. crasso, brunneo-ochraceo, pruinoso, lateraliter adfixo; aculeis albis, confertis, gracilibus, acutis, simplicibus, pruinosis; cystidiis hyalinis, subfusoides, acutis, 10 μ . altis, levibus; sporis globosis, hyalinis, minute asperulis, 5-6 μ . diam.; trama albidâ, firma, epelliculosa. 643

Hab. ad truncos emortuos in Æquatoria (v. LAGERHEIM).

9. **Hydnum basi-asperatum** P. Henn. Hedw. 1897, p. 199. — Pileo coriaceo, tenui, flabellato, plano, lobato-inciso, pallide alutaceo, ochraceo, zonato, 4-8 cm. lato, 3-5 cm. longo, levi, glabro, basi usque ad medium asperato, atro-cinnamomeo, setulis subulatis, erectis dense tecto, margine tenui, rigido; hymenio alutaceo; aculeis subulatis, compressis, densis, erectis, interdum apice fimbriatis, cinereo-alutaceis, 1-1 $\frac{1}{2}$ mm. longis, 100-150 μ crassis. 644

Hab. ad truncos pr. Blumenau Brasilîæ (ULE).

10. **Hydnum albo-canum** Britz. Hymen. Kunde, III, 1897, p. 12, fig. 98 (Persooniana). — Carnosum, sordide brunneolum v. griseolum, glabrum, opacum; aculeis albido-griseis, parum plicatis, irregulariter incis; sporis 3-4 \times 1-1 $\frac{1}{2}$, oblongo-rotundis, curvulis. 645

Hab. ad truncos vetustos in Bavaria.

11. **Hydnum caperatum** Pat. Ann. Jard. Buitenz. 1897, I suppl. p. 114. — Pileo carnosocoriaceo, orbiculari, pendulo, vertice stipitiformi adfixo, tomentosohispido, margine integro v. lobato, recto, tenui; aculeis regularibus, acutis, integris, confertis, 1-5 mm. longis; cystidiis nullis; contextu albo. 646

Hab. in silvis, Java (MASSART). — Pileus 6-10 cm. latus.

12. **Hydnum javanicum** Pat. Ann. Jard. Buitenz. 1897, I suppl. p. 114. — Pileo 6 cm. lato, imbricato, suborbiculari, sessili, postice adfixo, plano, striolato, villosa, margine recto, obtuso, crasso; aculeis confertis, brevibus, 1-2 mm. longis, cylindrâceis, obtusis. 647

Hab. ad truncos in silvis, Java (MASSART).

13. **Hydnum rigido-squamulosum** P. Henn. Hedw. 1897, p. 198. — Resupinatum, crustaceum, subiculo nudum, vix tomentosum, pallide alutaceum; aculeis rigidis, subulatis, raro subcompressis, dense squamis rigidis pallidis tectis; sporis subglobosis, hyalinis, 3 $\frac{1}{2}$ -4 μ . 648

Hab. ad cortices truncorum pr. St. Catharina Brasilîæ. (ULE).

14. **Hydnum chrysocomum** Underw. Bull. Torr. Bot. Cl. 1897, p. 82. — Resupinatum, 2-6 cm. effusum; mycelii hyphis repentibus, plus 649

minus ramosis, aurantiacis, interdum expansis; subiculo tenui, margine albido-fimbriato, aurantiaco, intus flavo; aculeis confertis, 1 mm. v. ultra longis, sæpe confluentibus, teretibus, concoloribus, subobtusis.

Hab. ad ligna corrupta, Staten Island, New York Amer. bor.

15. **Hydnum conio-phoroides** P. Henn. Hedw. 1897, p. 199. — Resu- 650
pinatum, carnosum-membranaceum, subiculo membranaceo albo; aculeis confertis, compressis vel subacutangulis, apice obtuso-rotundatis, fusco-ochraceis $1\frac{1}{2}$ - $2\frac{1}{2}$ mm. longis, $\frac{1}{2}$ -1 mm. latis; sporis ellipsoideis, $4-4\frac{1}{2} \times 3 \mu$., episporio fusco, levi.

Hab. ad lignum? pr. Rio de Janeiro Brasiliæ (GLAZIOU).

16. **Hydnum flavicans** Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati 651
3, ser. III, fasc. 1-2, 1897, p. 95. — Subiculo crustaceo, arcte adnato, stramineo-flavo, tenui; aculeis confertis, tereti-subulatis v. depresso-conicis, glabris, tenacibus, coriaceis, concoloribus, ex hyphis $2\frac{1}{2}$ -3 μ . latis conflatis; sporis non visis.

Hab. ad corticem Quercus in Hungaria (KMET). — Aculeis coriaceis, sæpe dentiformibus, ad *Irpicem* accedit.

17. **Hydnum glaucum** Pat. Ann. Jard. Buitenz. 1897, I suppl. p. 115. 652
— Omnino resupinatum, late effusum, ceraceo-membranaceum; aculeis obliquis, confertis, cylindraceutis, acutis, glabris, rufo-violaceis; sporis hyalinis, cylindraceutis, 6×2 .

Hab. ad lignum putridum in silvis. Java (MASSART).

18. **Hydnum Dusenii** P. Henn. Fungi camerun. I, in Engl. Jahrb. 653
XXII, 1895, p. 87. — Resupinatum, tenue, ceraceo-crustaceum, tabacinum, subiculo membranaceo, subvillosa, pallidiore; aculeis subulatis, interdum subfasciculato-confertis, inæqualibus, acutis, ferrugineis; sporis non visis.

Hab. ad cortices truncorum, Camerunia (DUSÉN).

19. **Hydnum citrsum** Pat. Bull. Boiss. 1895, p. 55. — Subiculo latis- 654
sine effuso, undique adnato, tenuissimo, citreo-aurantiaco; aculeis brevibus, obtusis, concoloribus; trama albida, ceracea, undique hymenio tecta: basidiis clavatis; cystidiis nullis; sporis hyalinis, levibus, minutis, ovoideis, $3-4 \times 2\frac{1}{2}$.

Hab. ad truncos vetustos dejectos in Æquatoria (v. LAGERHEIM). 655

20. **Hydnum rimulosum** Peck, 49 Rep. Stat. Bot. N. York, 1896, p. 20.
— Resupinatum, tenue, a matrice non separabile, orbiculare, 5-7 mm. latum vel confluendo majus ac irregulare; hymenio minute rimoso, pallide ochraceo, margine floccoso-tomentoso, albo; aculeis

brevibus teretibus, confertis, subacutis, ochraceis, sæpe albis et apice subciliatis; sporis minutis, ellipticis, 4-5 × 2-3.

Hab. ad corticem emortuum Alni incanæ, New York Amer. bor. — E vicinia *Hydni ciliolati*, *H. hypoleuci*, *H. laminiferi* etc., sed cum nullo horum apte conjungendum.

21. **Hydnum ochraceo-fulvum** Britz. Hymen. Kunde II, 1896, p. 11, 656
fig. 81. — Aculeis plus minusve acutis, luteo-albidis; subiculo concolori, ceraceo-carnoso; sporis 10-11 × 5-6.

Hab. ad ramos putridos Quercus in Bavaria.

22. **Hydnum serratum** Peck 50 Rep. p. 112. — Resupinatum, album; 657
subiculo tenui, subgelatinoso, e livido albo v. cyanescente; aculeis crebris, brevibus, subconfluentibus in fasciculos minutos, compactos, compressis, ubique serrulatis, albis, subinde stramineis,

Hab. in ligno decorticato Abietis Marianæ, Adirondack Mount. Amer. bor. — Affinis *H. indico* Sacc. et Syd. et *H. fasciculari* B. et C.

23. **Hydnum separans** Peck, 50 Rep. p. 112. — Resupinatum, album; 658
subiculo membranaceo, pure albo dein flavido v. cremeo; aculeis subulatis, glabris, crebris, 4-6 mm. long., fragilibus, a subiculo facile secedentibus atque alveolares impressiones relinquentibus; sporis globosis, hyalinis, 4 μ diam.

Hab. in lignis putridis, Adirondack Mount. Amer. bor.

24. **Hydnum indicum** Sacc. et Syd. Sic nominandum *H. Artocreas* B. et Massee (1892) Syll. XI, p. 108, nec homonymon B. et C. (1891).

IRPEX Fr. — Syll. VI, p. 482, IX, p. 213, XI, p. 110. — Cfr. Grev. XIX, p. 109.

1. **Irpex effusus** P. Henn. Hedw. 1897, p. 198. — Resupinatus, late 659
effusus, adnatus, membranaceo-carnosulus, albo-flavescens, subiculo tenerrimo; aculeis floccosis, obliquis, pendulis, membranaceis, tenuibus, laxis, late compressis, interdum subtubuliformibus; sporis globosis vel subellipsoideis, hyalinis, levibus, 3-4 × 3.

Hab. ad truncos pr. Blumenau Brasiliæ (MÖLLER).

2. **Irpex conjunctus** Britz. Hymen. Kunde III, 1897, p. 12, fig. 108. 660
— Dentibus plicatis, subgloboso-incisis, rotundato-acutatis, undulato-conjunctis, sordide luteolis; sporis 8 × 2-3, curvulis.

Hab. ad ramos in Bavaria.

3. **Irpex brevidens** Pat. Bull. Boiss. 1895, p. 55. — Resupinatus, 661
arcte adnatus, 10-15 cm. diam., tenuis, dilute ochraceus, margine sterili albido, membranaceo, levi, tenuissimo, glabro v. flocculoso,

lato cinctus; hymenio minutissime reticulato-poroso, dentibus integris v. laceratis, planiusculis v. teretibus, 200 μ ., altis formato; basidiis clavatis; sporis ovoideis, hyalinis, levibus, 4-5 \times 3 $\frac{1}{2}$ μ .; cystidiis nullis.

Hab. ad ligna emortua in Æquatoria (v. LAGERHEIM).

4. *Irpex quisquiliaris* Pat. Bull. Boiss. 1895, p. 55. — Sessilis, re- 662
supinatus, orbicularis, 3-20 mm. diam., tenuis, coriaceo-lignosus, sparsus vel confluens; pileo azono, fusco, levi, breviter sericeo-velutino, margine libero plus minus reflexo, acuto, tenui, sinuato incisove; hymenio brunneo-fusco, glabro, primitus levi, dein tuberculoso-aculeato; aculeis teretibus v. compressis, lignosis, obtusis, confertis, radiantibus v. inordinatis, $\frac{1}{2}$ mm. longis; cystidiis numerosis, longissimis, fusco-brunneis, acutis, crasse tunicatis; contextu fulvo.

Hab. ad fragmenta lignea dejecta in Æquatoria (v. LAGERHEIM).

5. *Irpex ? lamellosus* Pat. Bull. Boiss. 1895, p. 56. — Pileo hori- 663
zontali, subreniformi vel ovato-spathulato, rufo, pusillo, 2-3 mm. longo, minute villosulo, coriaceo-lignoso, margine acuto, inciso, striatulo; hymenio rufo, infero, undique lamellis radiantibus confertis, lacerato-dentatis obsito; cystidiis nullis, contextu albo; stipite laterali, rufo, tereti, 2-4 mm. longo, vix 1 mm. crasso, farcto, villosulo, basi inflatulo, nigricante.

Hab. ad ligna putrescentia in Æquatoria (v. LAGERHEIM).

RADULUM Fr. — Syll. VI, p. 493, IX, p. 214, XI, p. 111. — Cfr. Grev. XX, p. 3.

1. *Radulum Kmetii* Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati 3 664
ser. III, fasc. 1-2, 1897, p. 102. — Longitudinaliter late effusum, vivide incarnatum, margine albo, coriaceo-molle, separabile, demum margine supero breviter reflexum, pileolatum, pileolis albidis, fibroso-rugosis v. margine ubique libero, cupuliforme; hymenio diu levi, dein tuberculato; tuberculis distantibus integris v. deformatibus, apice multifidis v. cristatis, incarnatis, apice albedo-tomentosis; sporis hyalinis, majusculis, ellipticis, uno latere compressis, 13-23 (generatim 16-17) \times 7-10 μ .; basidiis clavato-stipitatis, 40-45 \times 12-13 μ .; hyphis subhymenialibus 2 $\frac{1}{2}$ μ .

Hab. in cortice Populi tremulæ in monte Sytno pr. Prencov Hungariæ (KMET), in regione tridentina in cortice Sorbi A u cupariæ et Alni viridis. — Species pulchra, *R. pendulo* Fr. affinis, sed nunquam alba v. pallens; jam peltæ primordiales colore

læte incarnato-roseo gaudent. In prima evolutione e contra facile pro *Radulum molare* f. *incarnatum* sumitur.

2. *Radulum umbrinum* Bres. Hedw. 1896, p. 287. — Latissime effu- 665
sum; subiculo membranaceo, secedente, alutaceo-umbrino, margine
fimbriato, mox similari; tuberculis distantibus, variis, curtis v.
elongatis, subconicis, sæpe conglomerato-confluentibus, carneo-fu-
scis, collabentibus; sporis stramineis, obovatis v. subglobois, $3-3\frac{1}{2} \times 2-2\frac{1}{2}$; hyphis subhymenialibus 4 μ . latis.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER.). — Habitu
externo omnino refert *Radulum molare* Pers., a quo differt tuber-
culis tenuioribus et sporis multo minoribus.

3. *Radulum irregulare* Britz. Hymen. Kunde III, 1897, p. 13, fig. 109. 666
— Dentibus conicis, rotundatis v. irregulariter incisus, albidis v.
luteolis, floccosis, velutinis; sporis $8-9 \times 3\frac{1}{2}$, curvulis, albis.

Hab. ad ramos quercinos in Bavaria.

PHLEBIA Fr. — Syll. VI, p. 497, IX, p. 215, XI, p. 112.

1. *Phlebia blumenaviensis* P. Henn. Hedw. 1897, p. 198. — Omnino 667
resupinata, effusa, tenui-papyracea, subceracea, subiculo pallido,
fimbriato; hymenio venoso, plicato, olivaceo, margine rufo-brunneo,
rugis radiato-cristatis; sporis subcylindraceis, hyalinis, 3×1 .

Hab. ad lignum pr. Blumenau Brasiliæ (MÖLLER).

2. *Phlebia Moelleriana* P. Henn. Hedw. 1897, p. 198. — Subgelati- 668
noso-ceracea, in sicco tenui membranacea, rigida, resupinata, effusa,
brunneo-aurantiaca; hymenio interrupte radiato, rugoso-cristato;
sporibus oblongis, hyalinis, $3-4 \times 1\frac{1}{2}$.

Hab. in ligno vetusto pr. Blumenau Brasiliæ (MÖLLER).

GRANDINIA Fr. — Syll. VI, p. 500, IX, p. 215, XI, p. 113.

1. *Grandinia fugax* Karst. Hedw. 1896, p. 173. — Orbiculari-vel 669
elongato-effusa, membranacea, pertenuis, facillime solubilis, nivea,
roseo-maculata, ambitu subtiliter fimbriatulo, hyalino, granulis ro-
tundatis, confertis v. confertissimis; sporis ellipticis, hyalinis, $4-8 \times 3-4$;
hyphis ramosis, remote articulatis, ad septa unilateraliter
nodulosis, hyalinis, $1-5 \mu$. crassis.

Hab. in ligno putrescente Abietis excelsæ ad Mustiala
Fennicæ.

2. *Grandinia granulosa* Fr. — Sacc. Syll. VI, p. 501. — Var. *Chusqueæ* 670
Pat. Bull. Soc. Myc. de Fr. 1895, p. 208. — Effusa ceracea, in

siccò rimosà; hymenio rubro-viridulo; granulis rotundatis v. elongatis; margine ceraceo, glabro, nigrescente.

Hab. in culmis Chusqueæ, San Jorge, Æquatoria.

3. **Grandinia fusco-lutea** Ell. et Ev. Proc. Acad. Philad. 1895, p. 413. 671

— Membranacea, mollis, 1-10 cm. diam., dilute lutea, tuberculoso-granulosa, dein obscurior et siccitate levior; margine albo, gossypino v. arachnoideo; granulis minutis, apice albidis; hymenio demum rimoso, subiculo albo; sporis ellipticis, obscure luteis, 5-6 × 3; basidiis clavato-cylindraceis, circiter 15 × 6, 2-4-sterigmaticis; sterigmatibus brevibus, 4-5 μ.

Hab. in truncis putridis dejectis, New Jersey Amer. bor.

GRANDINIELLA Karst. Hedw. 1895, p. 8 (Etym. a *Grandinia*, cui affinis). — Hymenium udum subgelatinoso-ceraceum, siccitate corrugatum v. rimosum, granulose; granulis hemisphæricis, mollibus. Cystidia subuliformia v. fusioidea. Sporæ ellipsoideæ v. oblongatæ.

1. **Grandiniella livescens** Karst. l. c. — Ceraceo-mollis, latissime ef- 672

fusa, tenuis, secedens, livida, siccitate pallescens, ambitu determinato, similari, hymenio contiguo, sicco rimoso; granulis sat confertis, hemisphæricis, inæqualibus, mollibus, majoribus; basidiis clavulato-cylindraceis, 4-5 μ. crassis; cystidiis subuliformibus, apice crassis muriculatis, hyalinis, 50-60 × 5-6, apice sæpissime usque ad 10 μ. crassis; sporis ellipsoideis v. oblongatis, rectis v. inæquilateralibus, eguttulatis, hyalinis, 3-4 × 1-1 1/2.

Hab. in ligno mucido Tiliæ ulmifoliæ pr. Mustiala Fennicæ.

— A *Grandinia mucida* Fr., quacum *Peniophora convolvens* Karst. forte confluit, colore aliisque notis diversa.

ODONTIA Pers. — Syll. VI, p. 506, IX, p. 216, XI, p. 113.

1. **Odontia flavo-argillacea** Bres. Hedw. 1896, p. 286. — Late ef- 673

fusa, crustaceo-ceracea, e flavo avellanea, mycelio albo in corticem reptante, margine pruinato, arcte matrici adnata; dentibus papilliformibus, crassiusculis, subdistantibus, concoloribus, apice albo-fimbriatis; sporis non visis.

Hab. ad corticem arborum pr. St. Catharina Brasiliæ (MÖLLER).

2. **Odontia andina** Pat. Bull. Boiss. 1895, p. 56. — Effusa, indeter- 674

minata, rimosà, crustacea, arcte adnata, albido-ochracea, ambitu similari; hymenio e papillis conicis, minutis, erectis, dense gregariis, 1/3 mm. latis, acystidiatis, sæpe incrustatis obsito; basidiis 2-4-sterigmaticis; sporis ovoideis, hyalinis, levibus, 8-10 × 6-8.

Hab. ad cortices et ligna putrida in Æquatoria (v. LAGERHEIM).

3. *Odontia melleo-alba* Britz. Hymen. Kunde III, 1897, p. 14, fig. 105. 675
— Albida v. melleo-alba, subceracea; aculeis numerosis, sæpe confertis, 1 v. 2 denticulatis; sporis 6-7 \approx 3.

Hab. in ligno fagineo in Bavaria.

4. *Odontia incisa* Britz. Hymen. Kunde III, 1897, p. 13, fig. 101. 676
— Tenuis, albida, griseolo-albida; dentibus confertis, incisus; sporis 3 μ . diam.

Hab. ad truncos fagineos in Bavaria.

5. *Odontia conspersa* Bres. Atti R. Acc. Sc. Lett: ed Arti degli 677
Agiati, 3 ser. III, fasc. 1-2, 1897, p. 100. — Ex albo luride ochroleuca; subiculo tenerrimo, pruinoso-farinoso, vetustate obsolete; aculeis subdistantibus, conicis, usque 1 mm. longis, ob cystidia asperulis, concoloribus; sporis hyalinis, cylindraceo-subcurvulis, guttulis, 4-5 \approx 2 μ ; basidiis clavatis, 15 \approx 4 μ ; cystidiis fusoides, crasse tunicatis, furfuraceo-asperulis, 50-70 \approx 8-10 μ .; hyphis subhymenialibus 2-3 μ . latis.

Hab. ad truncos Alni glutinosæ, Populi tremulæ etc. in Hungaria (KMET). — *Odontia farinacea* proxima, sed sporis, cystidiis et subiculo tenuiori optime distincta.

6. *Odontia pannosa* Bres. Atti R. Acc. Sic. Lett. et Arti degli Agiati, 678
3 ser. III, fasc. 1-2, 1897, p. 98. — Subiculo tomentosum, crassiusculo, molli ex hyphis 4-6 μ . latis, ex albo pallide isabellino vel ochroleuco, late effuso, margine pruinoso; verrucis papillosis, apice multifidis, concoloribus; sporis ellipticis, hyalinis, 10 \approx 5-6 μ ; basidiis clavatis, 25-30 \approx 7-9 μ .

Hab. ad corticem Aceris campestris et in ligno Quercus in Hungaria (KMET). — *Od. corrugata* valde proxima, a qua præcipue differt subiculo crassiori ex hyphis latioribus conflato et colore nunquam rubescente.

7. *Odontia Schroeteriana* P. Henn. Hedw. 1897, p. 197. — Crustacea, 679
late effusa, flavo-ochracea, margine membranaceo, floccoso, dentibus papilliformibus, aggregatis, ochraceis, apice incisus, denticulatis; sporis ellipsoideis, hyalino-subflavescentibus, 4 \approx 3; mycelio flavo-ochraceo, tomentoso, in cortice repente.

Hab. ad lignum pr. Rio de Janeiro Brasilæ (ULE). — *Odontia flavo-argillacea* Bres. affinis.

8. *Odontia badia* Pat. Journ. de Bot. 1897, p. 342. — Resupinato- 680
effusa, tenuis, initio flavo-ochracea, demum fulva, tota tomentosa;

aculeis fasciculatis, simplicibus v. furcatis, acutis, carnosio-ceraceis, vix $\frac{1}{2}$ mm. longis; cystidiis nullis.

Hab. in truncis putridis Psidii in Tonkin.

9. **Odontia Patouillardi** Sacc. et Syd. *Odontia hirta* Pat. Journ. de Bot. 681
1897, p. 342, nec Fuck. — Tota resupinata, effusa, ceraceo-membranacea, tenuis, vix rimosa, alba, dein pallide ochracea, raro glabra, vulgo tuberculis minutis confertis rigidis 2 mm. longis, obtusis, simplicibus v. rarius furcatis tecta; cystidiis lageniformibus, acutis, verrucosis, hyalinis, 40-50 \times 7-10.

Hab. in ligno putrido in Tonkin.

10. **Odontia late-marginata** Pat. Journ. de Bot. 1897, p. 342. — 682
Late effusa, resupinata, incrustans, cretacea, tenuis, membranacea, initio glabra ac corticioidea, demum tuberculis obtusis, brevibus, rigidis, crassis, confertissimis, apice rotundatis, integris omnino tecta; margine membranaceo concolori, 1-2 cm. lato; cystidiis hyalinis, cylindricis, 30 \times 10, rugulosis, copiosissimis.

Hab. in ligno putrido in Tonkin.

11. **Odontia rimosissima** Peck, 50 Rep. p. 114. — Effusa, tenuissima, 683
determinata, crustosa, adnata, crebre rimosa, albida dein pallida v. subinde griseo-ochracea, granulis minutissimis oculo inermi vix visibilibus, subconicis, distantibus, v. approximatis, apice setulam singulam v. plures gerentibus; sporis late ellipsoideis, plerumque 1-nucleatis, 5-6 \times 3,5-4.

Hab. in lignis et corticibus Alni in Canada, Sand Lake Amer. bor.

HYDNELLUM Karst. Hedw. 1896, p. 173 (Etym. ab *Hydnum*, cui affine genus). — A *Kneiffia* sporis aculeatis diversum.

1. **Hydnellum subtile** Karst. Hedw. 1896, p. 173; *Kneiffia subtilis* 684
Karst. Syll. IX, 216. — Sporis sphæroideis, longe aculeatis, 5-11 μ . diam.

Hab. in ligno Pini in Fennia.

KNEIFFIA Fr. — Syll. VI, p. 510, IX, p. 216, XI, p. 114.

1. **Kneiffia nivea** Karst. Hedw. 1896, p. 173. — Orbiculari-effusa, 685
flocculoso-submembranacea, crustoso-adnata, tenuis, indeterminata, nivea, verrucis confertis, brevissimis, inæqualibus, conoideis v. setiformibus, superne ciliatis; sporis sphæroideis v. ellipsoideo-sphæroideis, uniguttulatis, 5 \times 4 vel 3-4 μ . diam.; hyphis ramosis, articulatis, unilateraliter nodosis, 2-4 μ . crassis.

Hab. supra corticem Betulæ in agro Mustialensi Fennia.

HYDNOCHÆTE Bres. Hedw. 1896, p. 287 (Etym. *Hydnum* et *chæte* seta, h. e. *Hydnum* setulosum). *Hydnochaete* Peck, 50 Rep. p. 113 (1897) = *Hydnochaetella* Sacc. supra pag. 11, non videtur satis differre. — Receptaculum resupinatum, suberoso-coriaceum; hymenium aculeato-dentatum, setulis subulatis, fulvis præditum; basidia tetraspora; sporæ hyalinæ. — Generi *Asterodonti* Pat. proximum, a quo præcipue differt receptaculo cystidiis stellatis haud farcto.

1. **Hydnochaete badia** Bres. l. c. — Late effusa, arcte adnata, subiculo 686 crasso, 2-3 mm., suberoso-coriaceo, fulvo-umbrino, hymenio varie configurato, aculeato, dentato v. tuberculoso, castaneo-badio, ubique setulis consperso; setulis fulvis, 45-75 \times 9, simplicibus; basidiis clavatis 15-20 \times 5-6; sporis stramineis, ellipticis, 5 \times 3.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER). — Sub tribus formis observata; prima perfecte hydnoidea, aculeis subulatis; secunda raduloidea, tuberculis teretibus crassiusculis, elongatis; tertia irpicoidea, dentibus basi favosa junctis. Habitu externo forma irpicoidea facile pro *Irpice portoricensi* haberi potest, qui mox dignoscitur defectu setularum.

2. **Hydnochaete setigera** Peck, 50 Rep. p. 113 (1897). — Subiculo 687 effuso tenui, submembranaceo, griseo- v. albedo-fulvo, tomentello, setigero, margine levi, concolori v. fimbriato, albedo; aculeis brevibus, conoideis, obtusis, pallidis, dein subulatis, 2 mm. long., villosa-setigeris, persistentibus, demum atro-ferrugineis; setulis simplicibus v. ramosis 40-60 μ . long., angustis, acutis; sporis subglobois v. late ellipsoideis 5-7 μ . long.

Hab. in ligno putri Coniferarum, Adirondack Mount. Amer. bor. — Fungus perdurans, dein stratosus. Affinis *Caldesiellæ* sed setiger.

MUCRONELLA Fr. — Syll. VI, p. 512, IX, p. 218, XI, p. 115. —

1. **Mucronella togoensis** P. Henn. Engl. Jahrb. XXIII, p. 544. — 688 Alba; aculeis fasciculatis basi connatis (5-16), pendulis, curvatis, subulatis, 3-3 $\frac{1}{2}$ mm. longis, circiter 500 μ . crassis; basidiis clavatis, 12-15 \times 7-8; sporis globosis, hyalinis, subflavescentibus, 4 $\frac{1}{2}$ -6 μ . diam.

Hab. in cortice in Togo Afr. occ. (BAUMANN).

Fam. 4. Thelephraceæ PERS.

CRATERELLUS Fr. — Syll. VI p. 514, IX p. 218.

1. **Craterellus pusio** Berk. Fl. Tasm. II, p. 258; Cooke, Handb. Austral. 689
Fung. 1892, p. 178. — Aurantiacus; pileo laterali, convexo, 4-6 mm. lato; stipite sursum incrassato, 2-3 mm. longo; hymenio rugoso, venoso.

Hab. inter muscos, Tasmania Australiæ.

THELEPHORA Ehr. — Syll. VI, p. 521, IX, p. 220, XI, p. 115. —
Cfr. Grev. XIX, p. 108, et XX, p. 34.

1. **Thelephora ninh-thaiensis** Pat. Journ. de Bot. 1897, p. 342. — 690
Terrestris, erecta, 1-2 cm. alta, solitaria; stipite simplici, gracili, rigido, 1 mm. crasso ex albo pallido v. rubescente, pruinoso-villoso, apice in pileum infundibuliformem dilatato; pileo aut regulari, tenui, plus minusve radiato, fulvo, pallido v. nigrescente, aut in lobos diviso; lobis pilei crassis, expansis, plus minusve incisis, applanatis v. cylindræis, obtusis v. acutis, extimis tantum hymenium in pagina inferiore gerentibus, internis quaque superficie hymeniferis; cystidiis nullis; basidiis clavatis; sporis hyalinis, levibus, subglobosis.

Hab. in silvis in Tonkin.

2. **Thelephora bidentata** Pat. Ann. Jard. Buitenz. 1897, I suppl. 691
p. 115. — Coriacea, erecta, rufo-pallida, e basi ramosa v. stipitata; stipite cylindræo, 3-4 cm. longo, 4 mm. crasso, villoso, ramis inæqualibus, gracilibus, 1½ mm. crassis, 1-2-furcatis, apice dilatatis, bidentatis; contextu albido, suberoso; hymenio amphigeno; cystidiis nullis; basidiis 2-4-sporis, clavatis, 30 × 10-12; sporis hyalinis, levibus, globosis, 6-8 μ. diam.

Hab. ad terram in horto bot. Buitenzorg, Java. — E vicinia *Thelephoræ amboinensis*, *Th. scopariæ*, *Th. palmatæ* etc., sed cum nulla harum apte conjungenda.

3. **Thelephora leucobryophila** P. Henn. Verhandl. Bot. Ver. Prov. 692
Brandbg. XXXIX, p. XCVI. — Crustacea, subcarnosa, aurantiaca, siccitate contracta ac membranacea, mycelio arachnoideo-floccoso, luteo; hymenio e basidiis clavatis 21-27 × 5 μ. 2-4-sterigmata gerentibus composito; sporis ovoideis v. subgloboso-ellipticis, 7-8 × 5-6, luteo-brunneolis, verrucosis.

Hab. ad *Leucobryum vulgare* in horto botan. Berolinensi Germaniæ. — *Th. crustaceæ* proxima.

4. **Thelephora fissa** P. Henn. Hedw. 1897, p. 193. — Pileo tenui- 693
membranaceo, translucente, subflabellato vel subinfundibuliformi,
laciniato-fisso, lobis laciniatis, tenuiter subulatis vel cuneatis, margi-
ne incisus, pallido-flavescente, radiato-lineato, azono; stipite laterali
vel excentrico, subcompresso, albovillosa, interdum proliferante,
usque ad $1\frac{1}{2}$ cm. longo, 1. mm. lato; hymenio albo, pruinosa,
interdum subvenosa; sporis oblongo-ellipsoideis, hyalinis, levibus
 $5 \times 2-2\frac{1}{2} \mu$.

Hab. ad radices? pr. Blumenau Brasiliæ (MÖLLER). — *Thelephoræ decoloranti* Berk. affinis.

5. **Thelephora ? sebacinoides** P. Henn. Hedw. 1897, p. 193. — Mem- 694
branacea, subcarnosula, sicca subcoriacea, rigida, cæspitosa, pileis
stipitatis, erectis, subflabellatis, multifidis, albis, azonis, margine
inciso lobatis, crispis; stipitibus basi confluentibus; hymenio levi,
pallido; sporis subglobosis, ellipsoideis, hyalinis, levibus, guttulis
 $3\frac{1}{2}-4\frac{1}{2} \mu$.

Hab. ad cortices truncorum in prov. St. Catharina Brasiliæ (ULE). — *Thelephoræ Sowerbyi* Berk. videtur proxima.

6. **Thelephora pinicola** Britz. Hymen. Kunde III, 1897, p. 14, fig. 67. 695
— Albida, carnosomembranacea, rotundato-limitata, margine lato,
fibrosa; odore nullo; sporis $7-8 \times 2\frac{1}{2}-3$.

Hab. ad truncos pineos in Bavaria.

7. **Thelephora cæσιο-carnea** Britz. Hymen. Kunde III, 1897, p. 14, 696
fig. 68. — Carnosa, difformis, digitata, opaca, livido-lilacina v.
cæσιο-carnea, tenuis; sporis hyalinis, $18-20 \times 6-8$, intus granulis
luteolis repletis, oblongo-rotundis, utrinque angustatis v. acutatis.

Hab. in silvis inter muscos, Bavaria.

8. **Thelephora tubaraoënsis** P. Henn. Hedw. 1897, p. 194. — Radiata, 697
effusa, coriacea, ramosa, plurifida, læte mellea $\frac{1}{2}-3$ cm. diametro,
pileis conoideis vel subflabellatis, multifidis, laciniis sublinearibus;
hymenio levi concolori; sporis subcylindraceis vel oblongis, hya-
linis subflavescentibus, levibus, $10-15 \times 4-5 \mu$.

Hab. ad lignum in silva pr. Tubarao Brasiliæ (ULE).

9. **Thelephora Uleana** P. Henn. Hedw. 1897, p. 194. — Pileo tenui, 698
membranaceo, sicco subcoriaceo, rigido, flabellato vel spathulato,
subzonato, radiato, striato, margine lobato vel crenato, pallide fla-
vescente, substipitato; stipite late compresso; hymenio levi gla-
broque, pallido, interdum rugoso, subverrucoso vel rimoso.

Hab. ad terram inter muscos pr. Tubarao et Blumenau Brasiliæ (ULE). — Species 1-2 cm. alta, 1-1,5 cm. lata; pileus flabel-latus sensim in stipitem late compressum transiens.

10. **Thelephora sublilacina** Ell. et Ev. Bull. Labor. Nat. Hist. Univ. 699
Jowa IV, 1896, p. 67. — Orbicularis, 2-4 mm. diam., sordide lilacina; hymenio tenui, circa marginem frustuloso, pedicellis v. potius radiculis e fibris numerosis erectis obscuris compactis; subiculo orbiculari, obscuro, adnato v. margine sublifero; membrana in apicibus fibrarum pallida.

Hab. ad ramos vigentes pr. Castillo Nicaraguae. — An potius varietas *Th. pedicellate*?

11. **Thelephora subundulata** Peck Bull. Torr. Bot. Club. 1895, p. 700
492. — Pileo tenui, subcoriaceo, centro depresso, marginem versus plicato-undulato, subcinereo v. griseolo-brunneo; hymenio glabro, pallidiore, griseolo v. griseolo-luteo; stipite firmo, solido, raro ramoso, colore pilei; sporis late ellipticis, $7\frac{3}{4} \times 5$.

Hab. ad terram, Delaware Amer. bor. (COMMONS). — Pileus circiter $1\frac{1}{2}$ cm. latus; stipes 2-2 $\frac{1}{4}$ cm. longus, 1 mm. crassus. *Th. undulatae* affinis, sed præcipue differt hymenio glabro et sporis majoribus.

12. **Thelephora (Sebacina) mucedinea** Pat. Bull. Boiss. 1895, p. 60. 701
— Resupinata, effusa, tenuissima, mucedinea, maculas albas 1-3 cm. longas efficiens; contextu albo, ex hyphis ramosis, hyalinis, late contextis, 3 μ . crassis compacto; basidiis ovoideis, 2-4 cruciatim septatis, hyalinis, 15-18 \times 10-12 μ .; sporis hyalinis, cylindraceis, curvulis, guttulatis, 10 \times 5 μ .

Hab. ad fragmenta lignea dejecta in Æquatoria (v. LAGERHEIM). — *Th. Letendreane* affinis.

13. **Thelephora (Sebacina) reticulata** Pat. Bull. Boiss. 1895, p. 59. 702
— Resupinata, irregulariter effusa, tenuis, fibrilloso-membranacea, non gelatinosa, margine fibrilloso-radiante, albo-alutacea, sub lente tenuissime reticulata; basidiis globosis vel ovoideis, stipitatis, hyalinis, 10-15 \times 8-12; sporis non visis.

Hab. ad ligna denudata putrida in Æquatoria (v. LAGERHEIM).

14. **Thelephora helvetica** Sacc. et Syd. *Thel. pallida* Otth, Bern. Mit- 703
theil., 1868, p. 38, nec Pers. — Erecta, stipitata, simplex v. furcata, spatulata sæpe subinfundibuliformis, repando-incisa, pallide carneolo-ochracea, rubenti-squamulosa, 3-5 cm. alta.

Hab. inter conos abietinos et folia faginea in Bremgartenwald Helvetiæ. — Hymenium inferum venuloso-rugosum.

15. *Telephora helvola* Sacc. et Syd. Sic. nominanda est *Telephora liliputiana* Speg., Sacc. Syll. IX, p. 221, quum exstet anterior *Th. liliputiana* Mont., Sacc. Syll. VI, p. 531.

SEPTOBASIDIUM Pat. — Syll. XI, p. 118.

1. *Septobasidium Carestianum* Bres. Malpighia XI, 1897, p. 16 extr. 704
— Resupinatum, late effusum, membranaceum, ex avellaneo tabacino-castaneum v. badium, margine pallido, subfimbriato v. tomentoso; hymenio tomentoso e levi ruguloso-tuberculoso; contextu ex hyphis rigidis, septatis, luteo-fuscis 2-3 μ . conflato; basidiis primitus ovoideis dein elongatis, sæpe medio compressis. transverse septatis, 15-18 \times 9-11; sporis non visis.

Hab. in ramis Salicis incanae in Italia (CARESTIA).

2. *Septobasidium rubiginosum* Pat. Ann. Jard. Buitenz. 1897, I, suppl. 705
p. 118. — Latissime effusum (20 cm. et ultra), omnino resupinatum, ambitu byssinum, subiculo rubiginoso, crasso, spongioso-fibroso, hymenio tenui, membranaceo, fragmentitio, ex hyphis ramosis, tenuibus, purpureis, circinantibus, subiculo oriundis composito; basidiis sparsis, globosis, dein cylindraceo-elongatis.

Hab. ad lignum emortuum in silvis, Java (MASSART).

STEREUM Pers. — Syll. VI, p. 551, IX, p. 222, XI, p. 119. — Cf. Grev. XX, p. 34-35.

1. *Stereum Sprucei* Berk. Sacc. Syll. VI, p. 567. — Var. *cinereum* 706
P. Henn. Fungi camerun. I. in Engl. Jahrb. XXII, 1895, p. 84. — Coriaceum; pileo subflabelliformi-effuso, concentricè sulcato-zonato, subochraceo, zonis cinereis tomentosis, hymenio concentricè sulcato, levi, cinereo.

Hab. ad truncos, Kamerun (DUSÉN).

2. *Stereum Moelleri* Bres. et P. Henn. Hedw. 1896, p. 288. — 707
Pileo verticali, flabelliformi, sericeo, nigro-fusco, margine albicante, zonis concentricis, elevatis prædito, 1-2 cm. lato; stipite concolori, laterali, sericeo, 5-7 mm. longo, 2 mm. crasso, basi tuberoso-radicata, interdum magis quam stipite longa; hymenio pallido, levi v. subruguloso; basidiis clavatis, 15-20 \times 5-6; sporis subglobosis, 3 \times 2 $\frac{1}{2}$ -3, hyalinis, uniguttulatis; hyphis subhymenialibus 2-3 μ . latis:

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER). — Habitu, coloribus etc. omnino *Hydnum graveolentem* Del. refert.

3. *Stereum crustaceum* Karst. Hedw. 1896, p. 45, syn. *Corticium* 708

acerinum Karst. in Oefvers. Finl. Basidsw. p. 415 pr. p. — Effusum, tenuissimum, subgrumosum, indeterminatum, arcte crustaceo-adnatum, leve, siccum parum rimosum, albido-pallens, opacum, ambitu similari; sporis ellipsoideo-sphæroideis v. subsphæroideis, 4-7 \times 3-5.

Hab. ad corticem Populi tremulæ et P. nigrae in agro Mustialensi in Fennia.

4. **Stereum flavo-ferrugineum** Karst. Hedw. 1895 p. 8 (*Xerocarpus*). 709
— Late effusum, crustaceo-adnatum, spurie papillosum, læte flavo-ferrugineum, ambitu similari, contextu grumoso; sporis non visis.

Hab. in ligno putrido Pini vel Abietis pr. Mustiala Fennia.

5. **Stereum muscicolum** Pat. Ann. Jard. Buitenz. 1897, I. suppl. 710
p. 116. — Pusillum, spathulatum, 3-6 mm. longum, 5 mm. latum, antice rotundum, postice cuneato-attenuatum, sub lente flabellato-squamulosum, squamis innatis, floccosis, minutis, margine tenui, acuto, patenti, denticulato; hymenio infero, levi; basidiis clavatis, 6-10 \times 4; cystidiis nullis; sporis hyalinis, ovoideis, 6-7 \times 1-2.

Hab. ad muscos, Java (MASSART).

6. **Stereum Karstenii** Bres. Atti R. Acc. Sc. Lett. ed Arti degli 711
Agiati 3 ser. III, fasc. 1-2, 1897, p. 108; *Xerocarpus odoratus* Karst. Hattsv. II, p. 137 (nec *Stereum odoratum* Fr.); *Phanerochaete odorata* Karst. Krit. Oefvers. p. 427; *Corticium pubescens* Rom. in litt. — Late effusum, primitus membranaceum, margine tomentosum, dein suberosum, ex adnato ambitu libero et facile ex integro separabile, albido-cremeum, demum luride et pallide cinnamomeum; hymenio levi v. vix hinc inde undulato-subtuberculoso, in vetustis substratoso, pubescenti-velutino; sporis hyalinis, cylindraceo-curvulis, 6-7 \times 1 $\frac{1}{2}$ -2; basidiis clavatis; organis ductoriis in toto contextu sparsis, ultimis emergentibus, apice clavato, 6-7 μ . lato; hyphis 2 $\frac{1}{2}$ -3 μ .

Hab. ad truncos Abietis pectinatae in Suecia, Hungaria. — Species hæc valde *Stereo tuberculoso* proxima et in statu adulto facie simillima. In *Stereo tuberculoso* Fr. hymenium dense tuberculosum, pallidius; sporæ minores, organa ductoria obverse piri-formia, 15-18 μ . lata et succo luteo repleta.

7. **Stereum Persoonianum** Britz. Hymen. Kunde, III, 1897, p. 15, 712
fig. 72. — Hymenio sordide isabellino v. ochraceo-carneo, opaco, pruinoso, gibboso, dein areolato-rimoso, lignoso, margine brunneo-nigro; sporis 6-7 μ . diam., luteolis, uniguttulatis.

Hab. ad truncos quercinos in Bavaria.

8. **Stereum fuscum** Britz. Hymen. Kunde III, 1897, p. 14, fig. 70. 718
— Pileo fibroso, basi brunneo, margine lato et albo-fibroso; hymenio non fibroso nec piloso, albido usque brunneolo, margine fibroso; sporis 8×4 , hyalinis, in cumulo albis.

Hab. ad truncos emortuos fagineos in Bavaria.

9. **Stereum carbonarium** Britz. Hymen. Kunde III, 1897, p. 14, 714
fig. 69. — Subtus album, subtomentosum; hymenio amœne castaneo, opaco, margine lato alboque, carne alba v. luteola marginem versus brunneola, coriacea; sporis $6-7 \times 2-3$, pallide luteolis.

Hab. in carbonariis in Bavaria.

10. **Stereum fusco-olivaceum** Oth, Mitth. natur. Gesell. Bern. 1857, 715
p. 40. — Pileo tenui coriaceo-molli, extus albido-olivaceo, pilosulo, expanso involutoque; hymenio initio pallide olivaceo, demum ex atro-rufo olivaceo-virenti.

Hab. in truncis pineis vetustis, Aarziehle pr. Bernam Helvetiæ.

11. **Stereum radiatum** Peck, — Sacc. Syll. VI, p. 571. — Var. **reflexum** 716
Peck 49, Rep. Stat. Bot. N. York, 1896, p. 31. — Margine anguste reflexo, crispato sublobatoque, nigro; hymenio inæquali, tuberculoso.

Hab. ad truncos Abietis nigræ in montibus Adirondak Amer. bor.

12. **Stereum Puiggarii** Speg. — Sacc. Syll. IX, p. 225. — Var. **zonatum** 717
Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, p. 155. — A typo differt pileo zonato.

Hab. ad lignum in Costa-Rica.

13. **Stereum fulvidum** Oth, Bern. Mittheil. 1868, p. 39. — Postice 718
adnatum, tenue, ambitu liberum et reflexum; pileo villosulo, fulvicescenti-albido, subzonato; contextu coriaceo, albo; hymenio glabro, rufo-fulvido, levi aut leniter rugoso.

Hab. ad truncos fagineos in Helvetia. — Cm. 2,5 long. et paullo minus, lat., vere tenue.

14. **Stereum Martini** Sacc. et Syd. Sic nominandum est *Stereum pannosum* Cke. et Mass., Sacc. Syll. XI, p. 120, quum exstet antierius *St. pannosum* Cke., Sacc. Syll. VI, p. 567.

15. **Stereum tasmanicum** Sacc. et Syd. Ita est dicendum *S. concolor*
Berk., Syll. VI, p. 566, extante anteriore *S. concolori* Jungh.

HYMENOCHÆTE Lév. — Syll. VI, p. 588, IX, p. 227, XI, p. 122.

1. **Hymenochæte formosa** Lév. — Syll. VI, p. 589. — Var. **frondosa** 719
Bres. Hedw. 1896, p. 289. — Pileis plurimis alternatim v. ver-

ticillatim ex stipite communi prodeuntibus, spathulatis, ad stipitem attenuato-stipitatis v. rarius sessilibus, vaginantibus, ferrugineis, zonis badiis demum variegatis, coriaceo-papyraceis, velutinis et setulis fulvis hirtellis, $1\frac{1}{2}$ -2 cm. latis, margine fimbriatis; hymenio levi, concolore, setulis fulvis, uti in pileo, 100-180 \times 9-15 prædito; stipite communi tereti, basi toruloso, 10-12 cm. longo, 3-4 mm. crasso, supra dimidium frondoso-pileato, concolore, tomentoso, setulis fulvis, ejusdem dimensionis et formæ prout in pileo hymenioque, hirtis; sporis non visis.

Hab. ad terram pr. Blumenau Brasiliæ mer. (MÖLLER).

2. **Hymenochæte infundibuliformis** P. Henn. Hedw. 1897, p. 192. — 720
Pileo coriaceo, molli, vertice affixo, sessili, subconchiformi v. subinfundibuliformi, sulcato-zonato, velutino-tomentoso, ochraceo, ca. 4-5 cm. diam., hymenio velutino, badio, setis simplicibus, hyalino-brunneolis, apice obtusis, ca. 30-50 μ . longis, 4-5 μ . crassis tecto; sporis subglobosis, hyalinis, levibus, $3\frac{1}{2}$ -4 μ .

Hab. ad lignum pr. Rio de Janeiro Brasiliæ (ULE).

3. **Hymenochæte tabacina** (Sow.) Lév. — Sacc. Syll. VI, p. 590. — Var. 721
colliculosa Sacc. Malpighia, 1896, p. 263. — Hymenio effuso (forma pileata non visa) obscurius tabacino, ubique dense minute granuloso-colliculoso, setulis aureo-fulvis, 60-7 \times 6-7.

Hab. in cortice Caraganae, Sibiria.

4. **Hymenochæte fusco-lilacina** Britz. Hymen. Knde III, 1897, p. 15, 722
fig. 73. — Coriacea, carnososuberosa, ferruginea; hymenio fuscolilacino; setis sub microsc. luteo-brunneis, 120-180 \times 5-6: sporis 7 \times 2 $\frac{1}{2}$, oblongo-rotundis, curvulis

Hab. ad truncos vetustos Abietis excelsae in Bavaria

5. **Hymenochæte fusca** Karst. Hedw. 1896, p. 174. — Longitudinaliter 723
effusa, adnata, grumosa, arida, determinata, contigua, levis, fusca, setis acutis, strictis, ferrugineis, usque ad 80 μ . longis et basi 8 μ . crassis obsessa.

Hab. in ligno vetusto in Suecia media (K. STARBAECK). — *H. corrugata* proxime accedit.

6. **Hymenochæte rudis** Karst. Hedw. 1896 p. 173. — Longitudinaliter 724
effusa, adnata, mox floccoso-grumosa, arida, crassa, determinata, inaequalis, obscure ferruginea, setis acutis, strictis, ferrugineis, usque ad 100 μ . longis et basi 10 . crassis conspersa, demum in areolas frustulatas dirupta.

Hab. in cortice Alni incanae pr. Mustiala Fenniae. — *H. unicolori* (Berk.) affinis, forte ejus varietas.

CORTICIUM Fr. — Syll. VI, p. 603, IX, p. 230, XI, p. 124. —
Cfr. Grev. XX, p. 12.

1. **Corticium aureum** Pat. Journ. de Bot. 1897, p. 343. — Effusum, 725
tenue, a matrice inseparabile, aureum, siccitate rubescens, glabrum,
tuberculis minutis rotundatis sparsis rugulosum, margine pallide
aureo; basidiis clavatis, 40 μ . longis, 2-4-sterigmaticis; cystidiis
nullis; sporis hyalinis, ovoideo-rotundatis, minutis, 4 \times 3.

Hab. in ramis emortuis et in culmis siccis Bambusae, duobus
locis in Tonkin.

2. **Corticium calothrix** Pat. Cat. rais. pl. cell. Tunisie. p. 59. — Ef- 726
fusum, adglutinatum, ceraceum, albidum, totum in glebulas mi-
nutas solutum, undique ciliatum, margine farinaceo; contextu
tenui, albo, ex hyphis hyalinis septatis laxè intricatis 3-8 μ . crassis
composito; basidiis minutis, hyalinis, clavatis, 13-15 \times 6; sporis
non visis; cystidiis numerosis, cylindraceis, rectis v. flexuosis, le-
vibus v. rugosis apice rotundatis, sæpe leviter inflatis, 50-80 \times 5-6.

Hab. ad lignum denudatum Pini halepensis in Tunisia.

3. **Corticium cremorinum** Britz. Hymen. Kunde. III, 1897, p. 15, 727
fig. 61. — Sporis luteolis, 6 μ . diam., sub cumulo albidis v. carneo-
albidis.

Hab. ad truncos Abietis in Bavaria.

4. **Corticium album** Britz. Hymen. Kunde. III, 1897, p. 15, fig. 78. 728
— Subcrassum, extus intusque album, margine fibrosum; hymenio
candido, subnitente; sporis 5 \times 2 $\frac{1}{2}$, albis.

Hab. ad lignum quercinum in Bavaria.

5. **Corticium ferax** Ell. et Ev. Americ. Natur. 1897, p. 339. — 729
Tenue, farinaceum, albidum, immarginatum; hymenio luteolo, gla-
bro, centro mox evoluto, ceraceo; sporis ellipticis, hyalinis, abun-
dantibus, 4 \times 3.

Hab. in ligno emortuo in Canada (MACOUN).

6. **Corticium confluens** Fr. Syll. VI, p. 628. — Var. **tunetanum** 730
Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 59. — Lignicolum, decorti-
cans, latissime effusum, tenuissimum, hyalinum, gelatinoso-cera-
ceum, albido-vel ochraceo-roseum, sub lente pruinose, margine
nudo, indistincto; contextu tenui, compacto; cystidiis nullis; basidiis
clavatis, elongatis, 4-sterigmaticis; sporis hyalinis, levibus, globoso-
ovatis, 1 guttulis, 6-8 \times 5 μ .

Hab. in ramis Quercus Mirbeckii in Tunisia.

7. **Corticium cerebrinum** Pat. Ann. Jard. Buitenz. 1897, I. suppl 731
p. 116. — Effusum, adglutinatum, albidum, ceraceum, in glebulas

minutas solutum; contextu albo, stratoso; cystidiis hyalinis, acutis, minutis, 15-25 \times 4-6.

Hab. in corticibus arborum in silvis, Java (MASSART).

8. **Corticium ochraceo-lividum** Pat. Bull. Boiss. 1895, p. 57. — Re- 732
supinatum, effusum, arcte adnatum, ceraceum, non rimosum, leve, ochraceo-lividum; margine fugaci, albo-pulverulento; cystidiis nullis; sporis ovoideo-curvulis, levibus, hyalinis, 6 \times 1-2 μ .

Hab. ad ligna emortua in Æquatoria (v. LAGERHEIM).

9. **Corticium stratosum** Pat. Bull. Boiss. 1895, p. 57. — Omnino 733
resupinatum, arcte adnatum, crassiusculum, suberoso-induratum, immarginatum, late effusum, leve aut rugulosum, rimosissimum; hymenio incarnato, sub lente pruinoso; cystidiis subconicis, rugulosis, crasse tunicatis, albis, 16-20 \times 10; contextu distincte stratoso, roseo-ochraceo; sporis non visis.

Hab. ad cortices in Æquatoria (v. LAGERHEIM). — *C. incarnatum* in mentem revocat.

10. **Corticium agglutinans** Pat. Bull. Boiss. 1895, p. 57. — Effusum, 734
incrustans, tenue, himantioideum, albido-ochraceum, non rimosum, leve, venosum vel minute rugosum, margine adpresso-sericeo; contextu tenui, compacto; basidiis clavatis; cystidiis hyalinis, crassiuscule tunicatis, protoplasmate repletis, levibus v. minute granulosis, teretibus aut conicis, rectis, distantibus, 30-45 \times 5-7; sporis hyalinis, levibus, ovoideis, 8 \times 5 μ .

Hab. ad truncos putridos in Æquatoria (v. LAGERHEIM). — *C. lacteo* affinis.

11. **Corticium atratum** Bres. Hedw. 1896, p. 290. — Late effusum, 735
adnatum, membranaceo-ceraceum, demum late rimosum, sub lente pruinatum, ex atro murinum, ambitu similari; sporis hyalinis, obovato-elongatis, 8-10 \times 4-5 $\frac{1}{2}$; hyphis subhymenialibus conglutinatis, septato-nodulosis, 4-5 μ . latis.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER). — Species valde *Corticio cœruleo* affinis, a quo colore, margine similari, substantia tenuiore et hyphis minus distinctis diversa.

12. **Corticium leptaleum** Ell. et Ev. Field Columb. Mus. X, 1896, 736
p. 170. — Tenue, arcte adnatum, griseo-album, pulverulentum, mox rimosum et areas 2-3 mm. latas formans, margine inflexo; sporis oblongis, hyalinis, continuis, 10-12 \times 4; basidiis cylindraceutis, 30-40 \times 6, sterigmatibus duobus firmis.

Hab. in truncis Magnoliæ Fraseri in W. Virginia (NUTTALL). — Adsunt etiam sporæ minores globosæ vel ellipticæ, 5-7

≈ 3-3 1/2. An hæ sunt sporæ immaturæ? Margines arearum sæpe ita inflexi ut *Pezizæ* speciem simulet.

13. **Corticium gilvescens** Bres. Hedw. 1896, p. (61). — Effusum, ad- 737
glutinatum, ceraceo-molle, ex albo isabellinum, ambitu pruinato-
radiato, mox similari; hymenio levi glabro, sicco rimoso; sporis
hyalinis, subglobosis vel ellipsoideis, 9-10 ≈ 7-8 μ.; basidiis clavatis
60-65 ≈ 10-12 hyphis tenuibus, noduloso-septatis, 2 1/2-4 μ. latis.

Hab. ad ramos *Spirææ* sp. Wilmersdorf pr. Berlin. (SUDOW).
— *Corticio bombycino* Somm. affine, a quo hymenio crassiore, ce-
raceo, basidiis longioribus et hyphis strictioribus præcipue distin-
ctum.

14. **Corticium pelliculare** Karst. Hedw. 1896, p. 46. — Effusum, in- 738
determinatum, adnatum, pertenuè, hymenio ceraceo, membranaceo,
tenuissimo, albo v. albido, in alutaceum v. lutescentem levissime
vergente, sicco vulgo rimoso, ambitu similari; sporis ellipsoideis,
5-7 ≈ 2-3; basidiis 18-22 ≈ 5-7.

Hab. supra corticem et lignum *Alni* et *Betulæ* pr. Mustiala
Fennicæ.

15. **Corticium rimicolum** Karst. Hedw. 1896, p. 45. — Longitudina- 739
liter effusum, indeterminatum, ceraceum, pertenuè, adglutinatum,
ambitu similari, cæsiuum v. cœruleo-glaucum, siccum sporis albo-
pruinosis; contextu minute parenchymatico; sporis sphæroideo-el-
lipsoideis v. sphæroideis, hyalinis, 8-10 ≈ 6-8.

Hab. in rimis corticis crassioris *Populi* in agro Mustialensi
in Fennia.

16. **Corticium subochraceum** Bres. Hedw. 1896, p. 290. — Late ef- 740
fusum, tenue, subceraceum, adglutinatum, contiguum, e luteo lu-
ride-ochraceum vel isabellinum, margine primitus albo-subfim-
briato, dein similari; sporis stramineis, ellipsoideis, 6-8 ≈ 4-4 1/2;
basidiis clavatis, 15-20 ≈ 6; hyphis subhymenialibus conglutinatis,
3-5 μ. latis.

Hab. ad cortices arborum pr. Blumenau Brasiliæ (MÖLLER). —
Externa facie *Corticium alutarium* B. et C. simulat, sed structura
microscopica prorsus diversa.

17. **Corticium tuberculatum** Karst. Hedw. 1896, p. 45. — Orbiculare 741
v. elongato-effusum, determinatum, adnatum, crassiusculum, hy-
menio ceraceo, præcipue in statu udo colliculoso v. tuberculoso,
albido, mox alutaceo, ambitu radiato-fibrilloso v. nudo; sporis el-
lipsoideis v. sphæroideo-ellipsoideis, eguttulatis, 5-7 ≈ 3-4.

Hab. in cortice crassiore vetusto *Populi tremulæ*, in re-

gione Mustialensi in Fennia. — A *Corticio confluyente* affini hymenio colliculoso sporisque diversum.

18. **Corticium radicatium** P. Henn. Pilze Ostaf. p. 54. — Resupinato- 742
effusum e mycelio radiciformi, ramoso tomentoso flavo oriundum, ambitu subtomentoso, coriaceo-spongiosum, flavo-ochraceum; hymenio subruguloso, tuberculato, albo-pruinoso v. setuloso, setulis subsubulatis, hyalinis, obtusis v. acutiusculis, 30-40 \times 7-10; sporis subglobosis, uniguttulatis, levibus, subhyalinis, 5-6 \times 4-5. membrana subflavescente.

Hab. ad truncos vetustos in Africa trop. (HOLST) — *C. sulphureo* Fr. affine, sed sporis diversum.

19. **Corticium portentosum** B. et C., Syll. VI, p. 636. — Var. **cry-** 743
stalophorum Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 125. — Arcete adnatum, corticis inæqualitate asperulum, cremeum, circiter $\frac{1}{2}$ mm. crassum, stratosum, tenax, coriaceum, margine determinato, interdum obscure subfimbriato, late effusum, confluyendo 10 cm. longum, 4-6 cm. latum, contextu ex hyphis dense intricatis composito, crystallæ amorpha numerosa includente.

Hab. in cortice truncorum, Louisiana Amer. bor. (LANGLOIS).

— Habitu externo *Corticium leve* Pers. simulat.

20. **Corticium pruinosum** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 60. 744
— Effusum, latissime expansum, tenuissimum, subgelatinosum. pruinosum, violaceo-cinereum; contextu hyalino, tenui; basidiis 4-sporis, 10 μ . latis; cystidiis sparsis, erectis, cylindræis, hyalinis, apice obtusis, basi vix incrassatis, levibus, tenuiter tunicatis, pelucidis, 60-70 \times 8-10; sporis hyalinis, levibus, cylindræo-ovatis, curvulis, 8-9 \times 5.

Hab. in ligno putrido *Quercus* in Tunisia.

21. **Corticium Zurhausenii** Bresad. ap. Rick in Oesterr. bot. Zeitschr. 745
1898, n. 4. — Effusum, in plagulas irregulares 1-5 cm. long., 1-2 cm. latas distributum, margine similari, æque crasso, mox libero et sæpe subreflexo, primitus ceraceum, dein indurato-aridum, fragile nec proprie lignosum, e pallido crustulinum, vetustate albicans; hymenio ut plurimum tuberculato, demum late rimoso; substantia alba, 1-1 $\frac{1}{2}$ mm. cr. demum friabili; sporis elongatis, uno latere depressis, hyalinis, 8-10 \times 4-5; basidiis clavatis 25 \times 7-8; hyphis contextus tenuibus, conglutinatis, septatis, 3-5 μ . cr., mox degeneratis et grumoso-collapsis.

Hab. ad truncos mucidos Fagi, Saminathal Vorarlberg Austriæ.

— *Stereo candido* (quod teste A. Bresadola esset *Corticii* species)

affine, differt colore, forma magis elongata, hymenio tuberculoso etc.

22. **Corticium Rickii** Bres. ap. Rick in Oesterr. bot. Zeitschr. 1898, 746 n. 4. — Effusum, subrotundum v. polygonale, sæpe confluens, membranaceo-molle, margine primitus subfimbriato, dein similari et sublibero, ex albo cremeum, exsiccando candicans; hymenio in vegeto subrotundato, in sicco levi et rimoso; sporis globosis, hyalinis, $7,5-9 \times 7,5-8,5$, crasse apiculatis; basidiis clavatis, $30-35 \times 9-10$; hyphis parvis, conglutinatis, parum distinctis.

Hab. ad truncos et corticem Sambuci nigræ, Vorarlberg Austriae. — Affine *C. confluenti*, a quo substantia molliori, haud ceracea et sporis constanter globosis præcipue distinguitur.

23. **Corticium subroseum** Sacc. et Syd. Sic nominandum est *Corticium roseolum* Karst.-Sacc. Syll. IX, p. 234, quum exstet antierius *C. roseolum* Mass.-Sacc. Syll. IX, p. 233.

ASTEROSTROMA Masee. — Syll. IX, p. 236, XI, p. 128.

1. **Asterostroma pallidum** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 747 1895, p. 38, tab. I, fig. 6. — Effusum, dense agglutinatum, leve, pallidum, margine integro; subiculo hyalino-fibrilloso, hyphis numerosis stellatis brunneis elongatis acutisque $40-60 \mu$. longis immixtis; sporis hyalinis, globosis, echinulis paucis gracilibus tectis, $6-7 \mu$. diam.

Hab. ad ligna vetusta late effusum, California (Mc CLATCHIE).

PUNCTULARIA Pat. Bull. Boiss. 1895, p. 57 (Etym. *punctulum*). — Receptaculum resupinatum, coriaceo-membranaceum, tuberculis carnosulis, marginatis, globosis, confertissimis obsitum; basidiis clavatis, 2-4-sterigmaticis; sporis hyalinis, ovoideis; cystidiis nullis.

1. **Punctularia tuberculosa** Pat. l. c. — *Corticium tuberosum* Pat. Bull. Soc. Myc. 1892, p. 118; Sacc. Syll. XI, p. 126.

Hab. ad truncos putridos in Æquatoria (v. LAGERHEIM).

PENIOPHORA Cooke. — Syll. VI, p. 640, IX, p. 237, XI, p. 128.

1. **Peniophora trachytricha** Ell. et Ev. Proc. Acad. Philad. 1895, 748 p. 413. — Tenuis, e lacteo luteola, effusa, superficie primo minute granulosa, demum floccoso-tuberculosa, *Kneiffiam* simulans, margine tenui, granuloso-gossypino; basidiis clavato-cylindræcis, $12-15 \times 3\frac{1}{2}-4\frac{1}{2}$; sporis oblongis, obtusis, $7-8 \times 3-3\frac{1}{2}$, hyalinis; cystidiis subcylindræcis, dense tuberculoso-asperis v. interdum

parte superiore levibus et apice tumidis, 100-120 \times 10-12, parte
excedente 40-50 μ . longis.

Hab. in cortice ramorum *Quercus*, New Jersey Amer. bor.
— *P. hydroidi* affinis.

2. ***Peniophora galochroa*** Bres. Hedw. 1896, p. 290. — Late effusa, 749
membranacea, ex albo cremoricolor, ambitu primitus subfimbriato,
mox similari, demum rimosa interstitiis sericeis; sporis hyalinis,
ellipticis, $5\frac{1}{2}$ - $6\frac{1}{2}$ \times 4 - $4\frac{1}{2}$; basidiis clavatis, 30-35 \times 4-5; cystidiis
fusoides, primo furfuraceo-tunicatis, 50-55 \times 9-10, dein granuloso-
asperulis, 5-6 μ . latis; hyphis subhymenialibus $2\frac{1}{2}$ -4 μ . latis.

Hab. ad ramos corticatos pr. Blumenau Brasiliæ (MÖLLER) et
Rio de Janeiro (GLAZIOU). — Aspectu externo *Corticium Berkeleyi*
et *C. diminuens* simulat, a quibus structura microscopica bene di-
stincta.

3. ***Peniophora globifera*** Ell. et Ev. Americ. Natur. 1897, p. 340. — 650
Effusa, tenuis, flexibilis, sicca fragilis, cinerea, non rimosa, dense
adnata, margine primo pilis adpressis, sericeis albidis sed mox
evanescentibus vestito; cystidiis primo globosis, mox in processus
asperos lanceolatos prolongatis, 40-70 \times 8-10, hyalinis, numerosis-
simis; sporis minutis, globosis, 3 μ . diam.

Hab. in cortice Abietis in Canada (MACOUN).

4. ***Peniophora citrina*** P. Henn. Hedw. 1897, p. 192. — Subcoriacea, 751
effusa, omnino resupinata, citrina, subvelutina, rimosa, ambitu
nuda; sporis subglobosis v. late ellipsoideis, levibus, hyalinis v.
subflavescentibus, 7-8 μ ; setis pallide flavis, 2-3 μ . crassis.

Hab. ad ramos truncorum in prov. St. Catharina Brasiliæ
(ULE).

5. ***Peniophora occidentalis*** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 652
p. 277. — Effusa, 4-6 cm. longa lataque, margine plus minusve
reflexo ac strigoso-tomentoso, sordide alba, azonata; hymenio pal-
lide lilacino, marcescente, farinoso; sporis ellipticis 1-2-nucleatis,
12-15 \times 5-7; cystidiis gracilibus, rugulosis, subacutis, 75-100 \times 13-16.

Hab. ad corticem arborum dejectarum in America boreali.

6. ***Peniophora Schweinitzii*** Sacc. et Syd. Sic nominanda est *Peniophora*
lilacina (Schw.) Mass., Sacc. Syll. XI, p. 129 ob homonymam *P.*
lilacinam (B. et Br.) Cke., Sacc. Syll. VI, p. 672.

CONIOPHORA DC. — Syll. VI, p. 647, IX, p. 241, XI, p. 129.

1. ***Coniophora Betulæ*** Karst. Hedw. 1896, p. 174. — Effusa, tenuis, 653
indeterminata, tomentosa, ambitu subsimilari, sulphureo-spadicea;

sporis ellipsoideis, uniguttulatis, flavis, levibus, 10-12 \times 6-8; hyphis teneris, fragilibus, hyalinis, 2-3 μ . crassis.

Hab. in cortice Betulæ pr. Mustiala Fenniae.

2. **Coniophora subochracea** Peck, 50 Rep. p. 114. — Effusa, mem- 754
branacea, subiculo filamentis arachnoideis albidis composito; hymenio viridulo-ochraceo, levi v. minute papilloso, demum rimoso et tunc subiculum matricemque ostendente; sporis copiosis, late ellipsoideis, coloratis, 6 \times 4.

Hab. in lignis et corticibus putrescentibus in umbrosis, humidis, Menands Amer. bor.

PRILLIEUXIA Sacc. et Syd., *Karstenia* Britz. Hymen. Kunde III, 1897, p. 18, nec Fr. (Etym. a cl. mycologo et phytopathologo gallico E. PRILLIEUX). — Sporæ aculeatæ v. angulosæ, luteæ v. brunneæ, cetera ut in genere *Coniophora*.

1. **Prillieuxia faginea** (Britz.) Sacc. et Syd., *Karstenia* Britz. l. c. f. 104. 755
— Carnoso-membranacea; hymenio brunneo, toroso; margine brunneo-albo, carnosofibroso; sporis aculeatis, brunneo-luteis, 7 $\frac{1}{2}$ -9 \times 6-6 $\frac{1}{2}$, in cumulo violaceo brunneis.

Hab. ad lignum vetustum fagineum in Bavaria.

2. **Prillieuxia pinophila** (Britz.) Sacc. et Syd., *Karstenia* Britz. l. c. 756
fig. 105. — Hymenio luteolo v. brunneo-luteolo, furfuraceo; margine albo, albido-piloso; sporis angulosis, 8 \times 6, brunneis.

Hab. ad truncos vetustos Abietis excelsæ in Bavaria.

HYPOCHNUS Fries. — Syll. VI, p. 653, IX, p. 242, XI, p. 130.

1. **Hypochnus capnoides** Bres. Hedw. 1896, p. (62). — Effusus, 757
adnatus, mollis, tomentosus, subpulverulento-granulosus, fumoso-umbrinus, ambitu pallidiore, canescente; sporis sphaeroideis, luteofuscis, aculeatis, 6-7 \times 6; basidiis clavatis, 35-40 \times 6-8; hyphis subhyalinis vel rarius luteolis, nodoso-septatis, 3-6 μ . latis.

Hab. in culmis Phragmitis com., Berlin Germaniæ (SYDOW).

2. **Hypochnus microsporus** Karst. Hedw. 1896, p. 174. — Effusus, 758
tenuis, ADNATUS, tomentososubmembranaceus, mollis, immarginatus, argillaceo-vel ferruginescente-cinnamomeus, ambitu subtusque byssinus albicans, papillis hinc inde conspersus; sporis sphaeroideis, minute aculeolatis, subfuligineo-hyalinis, 4-6 μ . diam.; basidiis clavatis, 6-9 μ . crassis; hyphis ramosis, articulatis, unilateraliter nodulosis, 4-7 μ . crassis.

Hab. supra corticem Alnincanæ pr. Mustiala Fenniae.

3. **Hypochnus Sacchari** Speg. Rev. Agr. y Veter. La Plata, 1896, 759
p. 227. — Superficialis, plus minusve late effusus, 1-10 cm. diam.,
immarginatus, tenuiter ex arachnoideo membranaceus, albus vel
vix subroseus, ex hyphis tenuibus dense ramuloso-intertextis (4-
5 μ . crass.) septulatis hyalinis efformatus, hymenio subvelutino;
basidiis obclavulatis, 20-35 \times 5-8, antice acute attenuatis, medio sub-
coarctatis, postice rotundato-obtusatis, continuis, simplicibus, rarius
bifidis, monosporis, hyalinis; sporis ovatis, 10-12 \times 4-5, hyalinis,
antice obtuse rotundatis, postice sæpius valde acutatis, continuis,
levibus, acrogenis.

Hab. in foliis apicalibus adhuc convolutis languidis Sacchari
officinarum prov. Tucuman, Argentina.

4. **Hypochnus serus** (Pers.) Fr.-Syll. VI, p. 656. — Var. **sphærin-** 760
cola Karst. Hedw. 1896, p. 45. — Effusus vel ovalis, ceraceus,
laxe adnatus, tenuis, rugosus, albidus, ambitu similari; sporis sphæ-
roideo-ellipsoideis, uniguttulatis, 5-6 \times 3-4; hyphis ramosis, articu-
latis, 2 μ . crassis.

Hab. supra Cucurbitariam Caraganæ, Mustiala Fennicæ.

5. **Hypochnus obscuratus** Karst. Hedw. 1896, p. 46. — Effusus, floccoso-membranaceus, indeterminatus, tenuis, facile secedens, griseo-fumosus, subinde papillis minimis obsitus, ambitu similari; sporis sphæroideis, aculeolatis, flavescens, 7-10 μ .; hyphis ramosis, nodoso-articulatis, plus minus flavescens, 4-7 μ . crassis.

Hab. supra corticem vetustum Tiliæ in agro Mustialensi in Fennia.

6. **Hypochnus andinus** Pat. Bull. Boiss. 1895, p. 58. — Terrestris 762
latissime effusus, tenuis, mucedineus, albidus, contextu subnullo;
basidiis glomeratis, claviformibus, hyalinis, 25 \times 10, 4-sterigmati-
cis; cystidiis sparsis, hyalinis, teretibus, apice obtusis vel acumi-
natis, tenuiter tunicatis, 55-60 \times 8-12; sporis hyalinis, levibus, glo-
bosis, 6-7 μ . diam.

Hab. ad terram in Æquatoria (v. LAGERHEIM). — Corticio epi-
gæo Ellis affinis.

7. **Hypochnus Euphorbiæ** Pat. Bull. Boiss. 1895, p. 58. — Effusus, 763
tenuis, arachnoideus vel submembranaceus, albedo-ochraceus; hy-
phis primariis, hyalinis, enodosis, 1 $\frac{1}{2}$ -2 $\frac{1}{2}$ μ . crassis; hyphis fer-
tilibus ramosis, fasciculatis; cystidiis cylindræis, hyalinis, crassius-
cule tunicatis, subtorulosis, simplicibus, 33-40 \times 4-5; sporis ovoide-
globois, hyalinis, levibus.

Hab. ad truncos siccos Euphorbiæ in Æquatoria (v. LA-GERHEIM).

8. **Hypochnus elæodes** Bres. Atti R. Acc. Sc. Lett. ed Arti degli Agiati, 3 ser. III, fasc. 1-2, 1897, p. 115. — Effusus, e flavo-⁷⁶⁴viridi olivaceo-tabacinus, margine zona vivide olivacea fere semper permanente cinctus; mycelio brunneo intra lignum vel corticem serpente; hymenio e levi dense granuloso; sporis subgloboso-angulatis, laxe aculeatis, luteis, $7-9 \times 6-9$; basidiis clavatis, $30-35 \times 8-10$; hyphis basidiophoris stramineis, cylindraceis, regularibus, $2\frac{1}{2}-3\frac{1}{2} \mu$.; hyphis contextus luteis, septato-nodosis v. stramineis, similaribus vel rarius hic inde inflatis ibique $4-7 \mu$. latis.

Hab. ad corticem et ligna Betulæ etc. in Hungaria (KMET).

9. **Hypochnus fulvo-cinctus** Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati, 3 ser. III, fasc. 1-2, 1897, p. 116. — Effusus, olivaceo-umbrinus, zona fulva cinctus; mycelio tomentoso, fulvo hymenio olivaceo-umbrino, papilloso; sporis luteis, subgloboso-angulatis, echinulatis, $7-9 \times 7-8$; basidiis clavatis, $45-50 \times 7-9$; hyphis cylindraceis, regularibus, septato-nodosis, $2\frac{1}{2}-3\frac{1}{2} \mu$.⁷⁶⁵

Hab. ad corticem arborum in Hungaria (KMET). — *H. elæodi* valde affinis, a quo præcipue strato infero myceliali fulvo distinguitur.

10. **Hypochnus incarnatus** (P. Henn.) Sacc. et Syd. *Tomentella incarnata* P. Henn. in Schrift. des Naturwissensch. Ver. für Schleswig-Holstein. Bot. XI, Heft 1, p. 102. — Hymenio late effuso, tenui membranaceo, byssino, velutino, pallide incarnato; hyphis septatis, ramosis, hyalinis, levibus, $5-7 \mu$. crassis; basidiis clavatis, 2-3-guttulatis, $15-19 \times 6-7$, tristerigmaticis; sterigmatibus curvulis, 4μ . longis; sporis globosis, $4\frac{1}{2}-6 \mu$., episporio brunneo, aculeato-asperato.⁷⁶⁶

Hab. in ramulis ecorticatis pr. Friedrichsruhe Germaniæ (P. HENNINGS).

11. **Hypochnus lateritius** (Pat.) Sacc. et Syd. *Tomentella lateritia* Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 63. — Tenuissimus, late effusus, mucedineus, rubro-lateritius, non granuloso, arcte adnatus, immarginatus; hyphis sterilibus fere hyalinis, vix sub lente fuscis, septatis, nodosis ramosisque, $4-6 \mu$. latis; hyphis fertilibus erectis, brevibus, ramosis, sæpe indumento granuloso, nitido obductis; basidiis hyalinis, clavatis, $5-7 \mu$. latis, 4 sterigmaticis; cystidiis nullis; sporis pallide brunneis, globoso-angulosis, echinatis, $6-8 \mu$. diam.⁷⁶⁷

- Hab.* parasiticus in superficie *Hypochni longispori* Pat. in ligno adusto *Quercus* in Tunisia.
12. **Hypochnus lilacino-roseus** Pat. Cat. rais. pl. cell. Tunisie, 1897, 768 p. 62. — Effusus, orbicularis, submembranaceus, margine **fimbriato**; hymenio sub lente pruinoso, pallide roseo-lilacino; basidiis sparsis, subflexuosis, 30-58 \times 6-7; cellulis sterilibus denticulato-torulosis, non incrassatis; cystidiis nullis; sporis hyalinis, ovoideis, 8 \times 5 μ .
Hab. in ligno denudato *Quercus Suberis* in Tunisia.
13. **Hypochnus rubiginosus** Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati, 3 ser. III, fasc. 1-2, 1897, p. 116. — Effusus, luride ferrugineo-fulvus, tomentosus; sporis subgloboso-angulatis, breviter et laxe aculeatis, 7-9 \times 7-8, luteis; basidiis clavatis, 35-40 \times 7-10; hyphis basidiophoris tenuibus, sæpe hinc inde inflatis, 2-6 μ .; hyphis contextus luteis, regularibus, cylindræis, septato-nodosis, 3-5 μ .
Hab. ad acus *Juniperi* et folia *Quercus* in Hungaria (KMET). — Colore *H. ferrugineo* simillimus, at structura et sporis satis diversus.
14. **Hypochnus Suberis** (Pat.) Sacc. et Syd. *Tomentella Suberis* Pat. 770 Cat. rais. pl. cell. Tunisie, 1897, p. 62. — Tenuis, resupinatus, submembranaceus, effusus, fusco-brunneus, margine albido, floccoso-filamentoso, evanescente; hymenio subpulverulento, granuloso, papillis congestis, rotundis, fuscis obsito; trama ex hyphis dilute brunneis, 4-5 μ . latis, nodosis, ramosis, septatis contexta; hyphis fertilibus hyalinis, ramoso-intricatis in nodulos congestis; basidiis clavatis, 25-30 \times 10, 4-sterigmaticis, protoplasmate oleoso repletis, distantibus, sterilibus immixtis; cystidiis nullis; sporis brunneis, 7-20 μ . latis, globoso-angulatis, spinulosis.
Hab. in ligno adusto *Quercus Suberis* in Tunisia. — *H. fusco* et *fuscello* affinis.
15. **Hypochnus niveus** Britz. Hymen. Kunde III, 1897, p. 18, fig. 119. 771 — Membranaceus, tenuissimus, gracilis; hymenio niveo; margine fibroso.
Hab. ad lignum vetustum fagineum in Bavaria.
16. **Hypochnus atrovirens** Bres. Atti R. Acc. Sc. Lett. et Arti degli Agiati, 3 ser. III, fasc. 1-2, 1897, p. 116; *Hypochnus olivaceus* Fr. pr. p. — Effusus, totus atro-virens v. fusco-olivaceus, margine concolore, tomentosus; hymenio pruinato-furfuraceo; sporis fusco-olivaceis, globoso-angulatis, subtiliter et laxe aculeolatis, 7-9 \times 7; basidiis clavatis; hyphis irregularibus, cylindræis, hinc inde inflatis, septato-nodosis, 3-9 μ . latis.

Hab. ad ligna mucida arborum frondosarum in Hungaria (KMET).

17. **Hypochnus sitnensis** Bres. Atti R. Acc. Lett. et Arti degli Agiati 773
ser. 3, III, fasc. 1-2, 1897, p. 115. — Late effusus, tomentosus, castaneo-fuscus, hymenio unito, submembranaceo, fumoso; sporis globoso-angulatis, luteo-fuscis, muricellatis, $9-11 \approx 9$; basidiis clavatis, $70-80 \approx 9-10$; hyphis basidiophoris hyalinis, cylindraceis, septatis, 4 μ . crassis; hyphis contextus luteis, regularibus, cylindraceis, septatis, sæpe nodosis.

Hab. in trunco putrido Fagi in Monte Sytno in Hungaria (KMET). — Ab *Hypochnis ceteris* differt hymenio discolore, unito, submembranaceo.

18. **Hypochnus Hellebori** Rostr. Bot. Tidsskr. 1897, p. 43 (nomen!). 774
Hab. in rhizomate et parte infer. caulium Hellebori nigri in Dania.

MATRUCHOTIA Boul. — Syll. XI, p. 118.

1. **Matruchotia complens** Moell. Protobasid. p. 150. — Ab affini 775
Matruchotia variante præcipue basidiis 4-sporis, rarissime 2-sporis recedit.

Hab. ad truncos in Brasilia, ubi cl. MÖLLER etiam *M. variantem* pluries observavit.

EXOBASIDIUM Wor. — Syll. VI, p. 664, IX, p. 244, XI, p. 130.

1. **Exobasidium Gaylussaciæ** P. Henn. Hedw. 1896, p. 52. — Re- 776
ceptaculo in foliis rarius in caulibus petiolisque, maculis irregularibus, effusis, plus minus bullatis, crassioribus, subcarnosis, fuscidulis v. atro-sanguineis, pruinosis; sporis cylindraceis, oblongis, utrinque obtusis, rectis v. curvulis, hyalinis, $7-8 \approx 1-1\frac{1}{2}$.

Hab. in foliis, caulibus petiolisque Gaylussaciæ spec. divers. Itaiahy Brasiliæ (ULE).

2. **Exobasidium japonicum** Shirai, Bot. Magazin. Tokyo, 1896, p. 52. 777
— Carnosum, viridulum, glabrum, dein e rubescente albidum, globosum, hypophyllum, interdum irregulare, folia deformans; hymenio subcuticulari; sporis oblongo-reniformibus, $14\frac{1}{2} \approx 4$.

Hab. in foliis Rhododendri indici in Japonia.

3. **Exobasidium Camelliæ** Shirai, Bot. Magazin. Tokyo, 1896, p. 51, 778
fig. 1-3. — Primo epidermide tectum, dein eam rumpens, inflorescentiis infectis hypertrophicis; hymenio crasso, albo, continuo; sporis oblongo-obovatis, $14\frac{1}{2}-17 \approx 7$.

Hab. in inflorescentiis Camelliæ japonicæ in Japonia. —

Var. **gracilis** Shirai l. c. hymenio hypophyllo, interdum epiphyllō; sporis oblongis, leniter curvulis, $14\frac{1}{2} \approx 2\frac{1}{2}$ -5. In foliis Camelliæ Sasanquæ in Japonia.

4. **Exobasidium pentasporium** Shirai, Bot. Magazin. Tokyo, 1896, p. 53, 779 fig. 18-19. — Mycelio perenni; hymenio subepidermico, hypophyllo, contracto v. explanato; sporis plerumque $14\frac{1}{2} \approx 4$, oblongo-reniformibus.

Hab. in foliis Rhododendri indici in Japonia.

5. **Exobasidium hemisphæricum** Shirai, Bot. Magazin. Tokyo, 1896, 780 p. 53, fig. 12-17. — Carnosum, extus compactum, intus spongiosum, niveum, primo piriforme, apice globulosum, basi angustatum, dein explanatum, hemisphæricum, 3 cm. v. ultra diam.; hymenio subcuticulari; sporis cylindræis, rectis, $15-19 \approx 4\frac{1}{2}$.

Hab. ad paginam foliorum inferiorem Rhododendri Metternichii in Japonia.

6. **Exobasidium Giseckii** Allesch. Pilze Ostaf. p. 54. — Hymenio 781 versiformi, albido-roseo, in utraque pagina foliorum et florum integumentum subinflatum formante; basidiis subclavatis, 4 sterigmatibus; sporis ellipsoideis, dein ovoideis, hyalinis, $6-9 \approx 4-5$.

Hab. in foliis floribusque, quæ deformantur, Giseckii pharmacioidis in Africa trop. (VOLKENS).

7. **Exobasidium discoideum** Ell.-Sacc. Syll. VI, p. 665. — Var. **Hor-** 782 **vathianum** Thomas in Forstl.-Naturw. Zeitschr. 1897, Heft 8 p. 305 cum fig. — Differt a typo sporis bicellularibus, abrupte curvatis, $13-14 \approx 3,2$ (in typo 20 μ .)

Hab. in foliis Azaleæ ponticæ in Caucaso (HORVATH).

8. **Exobasidium Leucothoës** P. Henn. Hedw. 1897, p. 191. — Effu- 783 sum; foliis ramulisque infectis, longioribus proliferisque, violaceis, pruinosis, haud bullosis; sporis subfusoides, utrinque obtusis, curvulis v. subrectis, hyalinis, intus minute guttulatis, $9-14 \approx 4-5$.

Hab. ad ramos, qui deformantur, foliaque Leucothoës spec. St. Catharina Brasiliæ (ULE).

9. **Exobasidium patavinum** D. Sacc. Mycoth. Ital. n. 8. — Hypo- 784 phyllum, album v. dilutissime cinereum, maculas inæquales 2-6 mm. latas, pelliculoso-velutinas formans; basidiis crebre parallele stipatis, subcutaneo-erumpentibus, tereti-clavatis, utrinque obtusis, $20-30 \approx 7-8$; sterigmatibus subquaternis, circularibus, curvulis, $6 \approx 1$; sporis ellipsoideis, $8-10 \approx 5-6$, hyalinis, faretis, basi minutissime apiculatis.

Hab. in pagina inferiore foliorum langudorum Ilicis Aqi-

folii, quæ non deformantur, in horto botanico Patavino Italiæ bor.

AUREOBASIDIUM Viala et Boyer. — Syll. XI, p. 131.

1. **Aureobasidium Vitis** Viala et Boy.-Sacc. Syll. XI, p. 132. — Var. 785
album Montem. Atti del R. Ist. Bot. della Univ. di Pavia, V, 1897, cum tab. — Pustulis interdum confluentibus, albidis; basidiis hyalinis, 6-7 μ . latis (in parte superiore), 13-22 μ . longis; sporis cylindræis, 6-8 \approx 1 $\frac{1}{2}$ -2.

Hab. in foliis et petiolis fructuum *Vitis viniferæ* in Istria. — Var. **tuberculatum** Mc Alp. Add. Fungi on the vine, Australia 1898, p. 16, t. III. A typo differt colore albido-brunneo, pustulis non erumpentibus, sporis hyalinis, rectis 9 \times 3, et hymenii basi plerumque tuberculari. — In baccis *Vitis viniferæ* var. *Muscat* etc., Victoria Australiæ.

CYPHELLA Fr. — Syll. VI, p. 667, IX, p. 245, XI, p. 132. — Cfr. Grev. XX, p. 9.

1. **Cyphella Reineckeana** P. Henn. Engl. bot. Jahrb. XXIII, 1896, 786 p. 279. — Tenui-membranacea, subcylindræo-campanulata v. subdigitaliformis, e vertice oblique porrecto pendula, nivea, subnitens, levis, margine integro; hymenio levi, concolori; basidiis clavatis; sporis subglobosis, hyalinis, 4-5 μ .

Hab. in truncis in insula Upolu Samoens. (REINECKE).

2. **Cyphella Cookei** Sacc. et Syd. *Cyphella flicicola* Cke. Grev. XIV. 787 1886, p. 129 nec B. et C. — Albida; cupulis subdiscoideis, concavis, 1 mm. latis, levibus. glabris, subtus marginali-affixis, latere altero incurvis, margine integro v. bicuspidato; sporis ellipticis, hyalinis, 12 \times 4.

Hab. in fronde *Hymenophylli* spec., Nova Zelandia.

3. **Cyphella poriformis** P. Henn. Fungi camerun. I, in Engl. Jahrb. 788 XXII, 1895, p. 85. — Dense gregaria, subiculò pallido, villosobysino; cupulis sessilibus, membranæis, concavis, cinereo-flavescentibus, extus villosis, margine ciliatis, involutis; hymenio levi, flavescente, circiter 0,3 mm. diam.; sporis subglobosis. hyalinis. levibus, 1-1 $\frac{1}{2}$ μ .

Hab. in vaginis foliorum Palmarum, Kamerun (DUSÉN).

4. **Cyphella rufo-brunnea** P. Henn. Fungi camerun. I, in Engl. 789 Jahrb. XXII, 1895, p. 85. — Sparsa, membranacea, oblique cupuliformis, rufo-brunnea; cupula circ. 1 mm. alta, 0,5 mm. lata,

intus levi, extus subpilosa; stipite 0,5 mm. longo, 150 μ . crasso, basi bulbilloso, levi glabroque; sporis ellipsoideis, levibus, uniguttulatis, 5-7 \times 3-4 $\frac{1}{2}$ μ . hyalinis.

Hab. ad cortices, Kamerun (JUNGNER).

5. **Cyphella disciformis** P. Henn. Fungi camerun. I, in Engl. Jahrb. 790 XXII, 1895, p. 85. — Gregaria, membranacea, centro stipitata, primo cupuliformis, dein orbiculariter discoidea, applanata v. convexula; cupula circiter 1 mm. diam., flavo-cervina, extus squamoso-villosa, margine ciliata, dein reflexa, sæpe incisa; stipite centrali, plus minus elongato, usque ad 5 mm. longo, plerumque brevissimo, squamoso-tomentuloso, obscuriore; sporis non visis.

Hab. ad culmos emortuos Penniseti, Kamerun (JUNGNER).

6. **Cyphella globosa** Pat. Bull. Soc. Mycol. de Fr. 1895, p. 209. — 791 Minuta, 200-250 μ . diam., globosa, sessilis, alba, tenera, sparsa vel laxe gregaria, villosa, pilis molliusculis, simplicibus, acutis, hyalinis, undique granulosis, 50-60 \times 4 dense vestita.

Hab. in foliis Filicis cujusdam in Æquatoria (v. LAGERHEIM).

7. **Cyphella Erica** Pat. Pull. Soc. Mycol. de Fr. 1895, p. 209. — 792 Minuta, $\frac{1}{3}$ mm. alta, sparsa vel subgregaria, sessilis, tenuissima, glabra, pallide glauco-ochracea, urceolato-globosa, margine contracto, albido, recto, elongato, compresso, integro, dein inciso; hymenio levi. pallidiore.

Hab. ad ligna vetusta in Æquatoria (v. LAGERHEIM).

8. **Cyphella reniformis** Pat. Ann. Jard. Buitenz. 1897, I. suppl. 793 p. 115. — Mycelio epiphylo, albo, himantioideo; cupulis sparsis v. gregariis, sessilibus, reniformibus, glabris, membranaceis, 1-2 $\frac{1}{2}$ mm. diam.; hymenio concavo, levi.

Hab. in foliis emortuis, Java (MASSART).

9. **Cyphella subceracea** P. Henn. Hedw. 1897, p. 194. — Cupulis 794 subceraceis, solitariis v. 2-5 aggregatis, ca. $\frac{1}{2}$ mm. diam., cupulatis, vertice affixis, albis v. flavescentibus, margine involutis, pruinosis, intus levibus; sporis subglobosis, hyalinis, 3-4

Hab. ad ramos putrescentes pr. St. Catharina Brasilæ (ULE).

10. **Cyphella Sydowii** Bres. in Sydow, Mycotheca Marchica n. 3706. 795 — Cupulis concavis, sessilibus, sparsis, $\frac{2}{3}$ mm. latis, intus villosis, fuscidulo-griseis, margine albido; hymenio levi, albido; basidiis clavatis, 4-sterigmaticis, 36-40 \times 9-10; sporis obovato-oblongis, hyalinis, 12-15 \times 8; pilis cylindræis, luteis, apicæ hyalino-granulato, 240-250 \times 5-5,5.

Hab. in ramulis dejectis Genistæ tinctoriæ pr. Berolinum

Germaniæ (SYDOW). — Aspectu externo videtur *Lachnella corticalis*. Cum *Solenia granulosa* Fckl. comparanda, an revera distincta sit.

11. **Cyphella Brayeræ** P. Henn. Pilze Ostaf. p. 55. — Cupulis mem- 796
branaceis, solitariis, longe pedicellatis, cochleariformibus v. oblique
cupulatis, hymenio levi, extus dense tomentosus, albis, 1-2 mm.
diam., margine involuto; pedicello pubescente usque ad 3 mm.
longo; sporis subglobosis v. ovoideis, basi apiculatis, intus subgra-
nulatis, hyalino-subfuscescentibus, 6-8 μ .; basidiis subclavatis, 30 \times 8
subfuscis; pilis cupulæ circiter 25 \times 6 μ .

Hab. in petiolis Brayeræ anthelminticæ, Africa trop.
(VOLKENS).

12. **Cyphella usambarensis** P. Henn. Pilze Ostaf. p. 55. — Cupulis 797
solitariis v. subgregariis, minutissimis, punctiformibus, pallidis,
primo subglobosis, dein cupulatis, margine involutis, extus albo-
villosis v. griseo-pruinosis, substipitatis, hymenio glabro, pallido;
basidiis clavatis, flavescentibus; sporis ellipsoideis, uniguttulatis
subflavescentibus, levibus, 7-9 \times 5-6.

Hab. ad ramos putres in Africa trop. (HOLST). — *C. villosæ*
Pers. affinis.

13. **Cyphella variolosa** Kalchbr.-Sacc. Syll. VI, p. 671. — Var. **Vol-** 798
kensii P. Henn. Pilze Ostaf. p. 55. — Cupulis dense gregariis,
membranaceis, primo subglobosis, demum hemisphæricis, stipitatis
v. sessilibus, orbicularibus vel mutua pressione undulato-angu-
latis, 0,5-2 mm. diam., extus squamuloso-tomentosulis, flavo-brun-
neis, margine integris, hymenio concolore, levi glabroque; sporis
ellipsoideis v. ovoideis, granulosis, flavidis v. flavo-fuscis 6-9 \times
4 $\frac{1}{2}$ -6; basidiis clavatis; pilis cupulæ circ. 30 μ . longis, 4-6 μ .
crassis.

Hab. in cortice Erythrinae tomentosae in Africa trop.
(VOLKENS).

14. **Cyphella punctoidea** P. Henn. Hedw. 1897, p. 194. — Cupulis 799
gregariis, minutissimis, ca. 180-220 μ . diam., albis, dense tomentosus,
setis rigidis 4-5 μ . crassis intus granulosis apice capitaliformibus
6-8 μ . incrassatis, tectis; sporis globosis, levibus, hyalino-flavescenti-
bus, 3-3 $\frac{1}{2}$ μ .

Hab. in pagina superiore foliorum coriaceorum pr. St. Catha-
rina Brasiliæ (ULE). — *Cyphellæ villosæ* (Pers.) Karst. affinis.

15. **Cyphella Saccardoi** Syd. Sic nominanda est *Cyphella Ravenelii*
Sacc. in Syll. VI, p. 672 (syn. *Cyphella fulva* B. et Rav. North

Am. Fg. n. 287, nec B. et Br. Rav. fasc. IV, p. 16), quum exstet anterior *C. Ravenelii* B. et Rav., Sacc. Syll. VI. p. 673.

Tulasnellaceæ JUEL.

Bih. K. Sv. Vet. Akad. Handl. XXIII, Afd. III, n. 10, 1897, p. 21, extr.

Gymnocarpæ; basidia globosa, unicellularia, sterigmatibus carentia; sporæ non deciduæ, in basidio germinantes, conidia gignentis.

Clavis analytica generum

Tulasnella. Fungi plani, subgelatinosi.

Muciporus. Fungi plani, foveati, spongiosi, hymenio evanido.

TULASNELLA Schroet. in Cohn, Kryptogamenflora Schles. Bd. III, p. 397, 1888. (Etym. a cl. mycologo TULASNE), *Prototremella* Pat. et *Pachysterigma* Johan-Olsen. — Fungus subgelatinosus, planus effusus, tenuis; basidia continua, sterigmata 4 usque 8 majuscula gerentia; sporæ et conidia globulosa vel fusiformia.

* Conidia globosa vel ovoidea.

1. *Tulasnella lilacina* Schroet. l. c. Sacc. Syll. VI, p. 625 sub *Corticium*.
2. *Tulasnella Tulasnei* (Pat.) Juel l. c. p. 21. *Prototremella Tulasnei* Pat. Journ. de bot. II, 1888, p. 267, Sacc. Syll. IX, p. 236.
3. *Tulasnella incarnata* (Johan-Olsen) Juel l. c. p. 22? *Corticium incarnatum* (*pinicola*) Tul. Ann. sc. nat. 5 sér. t. XV, p. 227, tab. X, fig. 3-5, non Fries; *Pachysterigma incarnatum* Johan-Olsen in Brefeld Untersuch. Heft VIII, 1889, p. 7, t. I, f. 1-2; *Corticium incarnatum* Bref. Sacc. Syll. IX, p. 235.
4. *Tulasnella fugax* (Joh.-Ols.) Juel l. c. p. 22. *Pachysterigma fugax* Joh.-Ols. l. c. p. 6, tab. I, fig. 3-4, *Corticium fugax* Bref. Sacc. Syll. IX, p. 236.

* Conidia fusiformia.

5. *Tulasnella rutilans* (Joh.-Ols.) Juel l. c. p. 22. *Pachysterigma rutilans* Joh.-Ols. l. c. p. 6, tab. I, fig. 5-7; *Corticium rutilans* Bref. Sacc. Syll. IX, p. 236.

6. **Tulasnella violacea** (Joh.-Ols.) Juel l. c. p. 22. *Pachysterigma violaceum* Joh.-Ols. l. c. p. 6, tab. I, fig. 8-10; *Corticium violaceum* Bref. Sacc. Syll. IX, p. 236.
7. **Tulasnella calospora** (Boud.) Juel l. c. p. 23. *Prototremella calospora* Boud. Journ. de Bot. 1896, p. 85, c. fig. — Receptaculo membranaceo, candicante, effuso, 0,5 mm. circiter spisso, maculas plagasve 2-8 cm. latas irregulares et ad marginem vix byssoideas formante, hymenio ceraceo albo-pruinoso glaucescente; basidiis brevibus extremitate filamentorum inflata formatis, sterigmatibus quaternis ovoideis, dein conicis crassis posteaque elongatis, flexuosis, ad apicem plus minusve attenuatis et sporam unicam gerentibus; sporis pro genere magnis, fusoideis sed sæpe flexuosis, achrois, intus granulis minutis numerosis et vacuolo unico aut 2-3 repletis, extremitatibus acutiusculis, sæpe germinationis initio 2-3-cornutis, 20-28 \times 5-8.

Hab. ad tela putrida, Parisiis in Gallia.

MUCIPORUS Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII, Afd. III, n. 10, 1897, p. 23. — Fungus planus dense foveatus, spongiosus; hyphæ subresistentes; hymenio evanido; conidia et sporæ ut in *Tulasnella*.

* Conidia ovoidea.

1. **Muciporus corticola** (Fr.) Juel, l. c. p. 23, fig. 16-45. *Polyporus corticola* Fr. Syst. myc. I, p. 384; *Poria corticola* Sacc. Syll. VI, p. 322. — forma *thelephorea* Juel, l. c.

* Conidia fusiformia.

2. **Muciporus deliquescens** Juel l. c. p. 24, fig. 1-15. — Decolorans vel pallide fulvus; hymenio gelatinoso, deliquescente; basidiis globosis, circiter 9 μ . diam., 4-sporis; conidiis leniter curvulis, sæpe bicellularibus, 20-22 \times 3 $\frac{1}{2}$.

Hab. supra corticem Populi tremulæ in Suecia.

Fam. 5. **Clavariaceæ** CORDA.

SPARASSIS Fr. — Syll. VI, p. 690.

1. **Sparassis Herbstii** Peck Bull. Torr. Bot. Club. 1895, p. 207. — Ramosissima, 10-13 cm. alta, 13-16 cm. lata, albida v. cremeo-

lutea, uda, tenax; ramis numerosis, tenuibus, applanatis concre-
scentibus, supra dilatatis, spathulatis, plerumque concoloribus, raro
apice lato indistincte et transverse subconcolori-zonatis; sporis sub-
globosis v. late ellipticis, $5\frac{1}{4}$ - $6\frac{1}{2}$ \approx 4 - $5\frac{1}{4}$.

Hab. ad terram, Amer. bor. — *S. spathulata* (Schw.) Fr.
affinis.

CLAVARIA Vaill. — Syll. VI, p. 692, IX, p. 247, XI, p. 134, Cfr.
Grev. XX, p. 10.

1. **Clavaria kewensis** Masee, Journ. of Bot, 1896, p. 153. — Gre- 803
garia, 13-16 cm. lata, basi crassa, ramis numerosis, subæqua-
libus, divergentibus, 4-7 cm. longis, sæpe compressis, fistulosis,
ferrugineis, demum ochraceis, pruinosis, apicem versus in ramulos
2-4 breves partitis, axillis subglobosis, apicibus obtusis vel inciso-
laciniatis, laciniis 2-4 brevibus; sporis ellipticis, hyalinis, 5-6 \approx
 $3\frac{1}{2}$ -4.

Hab. ad lignum putridum, Kew Britannia.

2. **Clavaria aculeata** Blonski, Wyniki. Posz. Floryst. 1890, p. 17. 804
— Lignicola, ramosissima, tenella, roseo-albida, ramis teretibus,
levibus, erectis, ramulis attenuatis mucronatisque undique aculeis
concoloribus vel etiam saturatius coloratis dense ac regulariter
obtectis; sporis albis.

Hab. ad truncos putridos in montibus Polonia.

3. **Clavaria obtusiuscula** Britz. Hymen. Kunde. III, 1897, p. 19, 805
fig. 97. — Griseo-violacea; ramis brevibus, obtusis, 3-denticulatis,
albidis v. violaceis; sporis 10-11 \approx 8, oblongo-rotundis uno apice
angustis, in cumulo albis; sapore grato.

Hab. in silvis in Bavaria. — Circiter 4 cm. alta.

4. **Clavaria gigantula** Britz. Hymen. Kunde. III, 1897, p. 19, f. 98. 806
— Irregulariter undulato-rugosa, albida, demum brunneola, cla-
væformis, simplex v. ramosa; stipite circiter 2 cm. alto; sporis
10-12 \approx 9-10 albis.

Hab. in silvis in Bavaria. — Circiter 11 cm. alta, 3 cm. lata.

5. **Clavaria Rieli** Boud. Bull. Soc. Mycol. de France, 1897, p. 13. t. II. 807
(*Ramaria*). — Magna, robusta, 10-12 cm. alta, ochraceo-rufescens;
trunco $2\frac{1}{2}$ -3 cm. lato, albido, deorsum incrassato, ramis satis numero-
sis, robustis, bis terve divisus, obtusis, sæpe ad extremitatem erosis,
1-1 $\frac{1}{2}$ cm. crassis, longitudinaliter et elegantè striatis, ochraceo-
rufescentibus; carne alba non amara, sub hymenio citrina unde

ramis (in partibus erosis) lutescentibus; basidiis clavatis, elongatis, intus granulosis, 70-80 \approx 10, tetrasporis; cystidiis elongatis, filiformibus, intus granulosis; sporis majoribus, levibus, oblongo-undulatis, hilo lateraliter producto bene conspicuo, pallide ochraceis, intus granulosis rarius guttulosis, 16-18 \approx 5-7.

Hab. in fagetis et abiegnis mixtis in Gallia (RIEL).

6. **Clavaria seminicola** P. Henn. Hedw. 1897, p. 195. — Basi fasciculata, subspathulata vel subulata compressa, rugulosa apice palmatifida vel acuta, flava 5-11 mm. longa; sporis subglobosis, levibus, hyalinis, 3 $\frac{1}{2}$ -4 $\frac{1}{2}$ μ .

Hab. in seminibus Euphorbiaceæ ignotæ pr. Blumenau Brasiliæ (MÖLLER).

7. **Clavaria Wakkeri** Sacc. et Syd. *Clavaria gracillima* Wakk. De Ziekten van het Suikerriet of Java, Leiden 1898, p. 195, nec Peck. — Filiformis, solitaria vel 2-5 basi fasciculata, simplex, dilute ochracea, longitudine variabilis, 1-3 cm. longa, acutissima; basidiis simplicibus 4-sporis; hyphis repentibus albis; sporis hyalinis, ovoideis, utrinque acutis, 8 \approx 5.

Hab. in vaginis emortuis Sacchari officinarum in Java.

8. **Clavaria mucronella** Bres. Hedw. 1896, p. 290. — Densè gregaria, clavulis liberis, subulatis, raro apice furcatis, albis, subpruinatis, filiformibus, $\frac{1}{2}$ -1 mm. altis, basi tenuiter albo-fibrillosis; sporis hyalinis, obovatis, 4-6 \approx 2 $\frac{1}{2}$ -4; basidiis clavatis, 4-sterigmaticis, 15-20 \approx 6-7.

Hab. ad ligna mucida pr. Blumenau Brasiliæ (MÖLLER). — *Clavariæ Bresadolæ* Quél. valde affinis. Habitu *Mucronellam calvam* refert, a qua tamen defectu subiculi et sporis diversa.

9. **Clavaria Sydowii** Bres. Hedw. 1896, p. (61). — Cæspitosa, minima; cæspitulis 2-3 mm. altis, dilute carneis; clavis filiformibus, apice attenuatis, levibus, ubique summo apice excepto, fertilibus; sporis obovato-elongatis, hyalinis, 9-10 \approx 5-5 $\frac{1}{2}$; basidiis clavatis, 24-26 \approx 6; hyphis 4 μ . latis.

Hab. ad ramulos Robiniæ Pseudocaciæ pr. Muskau in Germania (SYDOW).

10. **Clavaria platyclada** Peck, Bull. Torr. Bot. Club. 1896, p. 419. — Cæspitosa, plus minus connata, simplex v. furcata, raro 1 vel 2 vel paucis irregularibus, solida, compressa, in basim albidam attenuata, lutea, ætate brunneola, intus alba, apice applanata, obtusa; sporis globosis, 5-10 $\frac{1}{2}$ μ . latis.

Hab. in silvis, Maine Amer. bor. (DAVIS). — 8-10 $\frac{1}{2}$ cm. alta, $\frac{1}{2}$ -1 cm. lata, 2 mm. crassa. *Cl. fusiformi* proxima.

11. **Clavaria falcatulata** P. Henn. Hedw. 1897, p. 195. — Simplex, 813
carnosa, subochracea, recta v. falcata, subulata, basi byssina, pallida, 3-5 mm. longa, 0,5-0,7 mm. crassa; sporis subglobosis, levibus, 3 $\frac{1}{2}$ -4 μ ., episporio dilute brunneo.

Hab. in caulibus herbarum putrescentibus pr. St. Catharina Brasilie (ULE).

12. **Clavaria microscopica** Sacc. et Malbr.-Sacc. Syll. VI, p. 727. — 814
Var. **Asphodeli** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 66. — Simplex, gregaria v. sparsa, perexigua, 1-2 mm. vix alta, 50-80 μ . crassa, apice acuta, medio subincrassata, deorsum in stipitem spurium attenuata, primo alba, dein rosella, stipite saturatius colorato; basidiis bisporis, claviformibus; cystidiis elongatis subfusiformibus, 20-25 \times 6-8, numerosis; sporis levibus, hyalinis, ovoideis, 8-10 \times 5.

Hab. in foliis putridis *Asphodeli* in Tunisia.

13. **Clavaria Schröeteri** P. Henn. in litt. Sic nominanda est *Clavaria compressa* Schroet., Sacc. Syll. VI, p. 694, quum exstet anterior *Cl. compressa* Berk.

14. **Clavaria filicina** Sacc. et Syd. Sic nominanda est *Clavaria cervina* Worth. G. Smith, Sacc. Syll. VI, p. 702, quum exstet præcedens *Cl. cervina* B. et C., Sacc. Syll. VI, p. 716.

15. **Clavaria Saccardoi** Syd. Sic nominanda est *Clavaria Kalchbrenneri* Sacc. in Syll. VI, p. 710, 1888 (syn. *Cl. dichotoma* Kalchbr.), quum exstet anterior *Cl. Kalchbrenneri* Muell. 1882.

16. **Clavaria Karstenii** Sacc. et Syd. Sic nominanda est *Clavaria divaricata* Karst., Sacc. Syll. XI, p. 135, quum exstet anterior *Cl. divaricata* Peck, Sacc. Syll. IX, p. 249.

17. **Clavaria javanica** Sacc. et Syd. Sic est nominanda *C. coronata* Zipp. (1844), Syll. VI, p. 715, extante anteriore *C. coronata* Schw. (1831).

PHÆOCLAVULINA Brinkm. Jahresber. d. Westf. Prov. Ver. f. Wiss. u. Kunst. Bot. Sect. 1896-97, pag. 197 (Etym. *phaios* fuscus et *Clavulina*). — Carnosa, plerumque fragilis, plus minus ramosa; hymenophorum glabrum v. subrugosum, a parte sterili non distincte separatum; basidia conferta, bispora; sporæ ellipticæ, ovoideæ v. globosæ, ochraceæ v. flavidæ.

1. **Phæoclavulina macrospora** Brinkm. l. c. p. 198. — 3-6 cm. alta; 815
trunco carnoso; ramis crassis, irregulariter ramulosis, erectis, apice

obtusis v. 2-4 truncatis, glabris v. in longitudine rugosis, sordide ochraceis, subolivaceis, ob sporas pruinosis; carne sordide albida, tactu pallide rubescente v. viridi-nigrescente; basidiis sterigmatibus duobus crassis acuminatis; sporis ellipticis, 14-18 × 5-7, flavidis, granulosis.

Hab. in pratis inter Juniperos in terra calcarea, Guestfalia Germaniæ.

CALOCERA Fr. — Syll. VI, p. 732, IX, p. 251.

1. **Calocera Cavaræ** Bres. apud Cavares Contrib. allo studio del 8
 Marciume p. 14 (1896). — Dense gregaria vel subcæspitosa, radicata, subtuberculata, *candida*; clavulis inferne crassioribus ut plurimum palmato-digitatis, vel ramis parce furcatis, 2 cm. circiter altis, basi stipitiformi, 5-6 mm. longa, 3-4 mm. crassa præditis; ramis 3-5 teretibus, apicibus bi-trifidis; basidiis cylindræco-subclavatis, 3-4 mm. latis, apice furcatis, lobulis 1-sterigmaticis; sporis cylindræco-curveis, hyalinis, demum 1-septatis, 10-12 × 4-4 1/2, nonnullis majoribus 15 × 5 μ . commixtis.

Hab. ad truncos Abietis pectinatae in silva Vallombrosa Italiæ (FR. CAVARA). — Inter *Cal. palmatam* et *Cal. viscosam* media.

LACHNOCLADIUM Lév. — Syll. VI, p. 738, IX, p. 252, XI, p. 139.

1. **Lachnocladium samoënsis** P. Henn. Engl. Jahrb. XXIII, 1896, 81
 p. 279. — Coriaceum, tenax, ramosissimum, pallide ochraceum, pruinoso-subtomentosum, conferte cæspitosum, 6-12 cm. altum; stipitibus numerosis, brevibus v. confluentibus, ramis repetito dichotomis v. pluripartitis, subteretibus, axillis nec compressis nec arcuatis, plerumque substrictis v. flexuosis, ramulis apicibus subulatis, nudis, obscurioribus.

Hab. ad ramos in insul. samoëns. (REINECKE). — *L. Lauterbachii* P. Henn. affine.

2. **Lachnocladium strictum** P. Henn. Fungi camerun. I, in. Engl. 81
 Jahrb. XXII, 1895, p. 86. — Strictum, ramosissimum, flavum, usque ad 10 cm. longum; stipitibus liberis v. cæspitoso-connatis, subteretibus, 1-2 cm. altis, 3-5 mm. crassis, basi subincrassatis, albo-tomentosis, e mycelio membranaceo pallido oriundis; ramis repetito dichotomis, strictis, exsertis, axillis nec arcuatis nec sulcatis, vix compressis, faretis, apicibus acutis, subcristatis v. longe subu-

latis; sporis ellipsoideis, subhyalinis v. flavescentibus, 1-guttulatis, $6-7 \approx 4\frac{1}{2}-5\frac{1}{2}$.

Hab. ad ligna emortua, Kamerun (ZENKER et STAUDT).

3. **Lachnocladium Dusenii** P. Henn. Fungi camerun. I, in Engl. Jahrb. 819
XXII, 1895, p. 86. — Stipitatum, ramossimum, coriaceum, molle; trunco basi bulboso, usque ad 5 mm. longo, 2 mm. crasso, compresso, repetito ramoso, subpalmato; ramis late compressis, submentosis, griseo-violaceis, apicibus dichotomis, compressis, subspathulatis, obtusis v. subulatis, pallidis, pruinosis; sporis subglobois, hyalinis, $4-5 \mu$. (?).

Hab. ad terram arenosam, Kamerun (DUSEN). — *Thelephoram palmatam* in mentem revocat.

4. **Lachnocladium quangense** P. Henn. Fungi camerun. I, in Engl. 820
Jahrb. XXII, 1895, p. 86. — Coriaceum, tenax, pallidum, tomentosulum, ca. 9 cm. altum, 5-8 cm. latum; stipitibus basi simplicibus v. ramosis, usque ad 3 cm. long., 5 mm. crass., ramis axillis compressis latioribusque, ramulis repetito dichotomis, apicibus plerumque multipartitis, subulatis, nudis, pallide flavis; sporis ovoideis, levibus, flavescentibus, $6-7 \approx 5-6$.

Hab. in silvis ad terram, Angola et Kamerun.

5. **Lachnocladium galaxauroides** P. Henn. Pilze Ostaf. p. 55. — 821
Dense cæspitosum, erectum, plus minus ramosum, subspongiosum, farctum, subfragile, alutaceum, setuloso-tomentosum, 2-5 cm. altum; stipite simplici v. ramoso e mycelio membranaceo, albo oriundo, ramis dichotomis, tripartitis v. irregulariter partitis, teretibus, crassis, raro compressis, subrugosis, apice subulatis v. furcatis, obtusis v. acutiusculis, setulis ramosis.

Hab. in areis ustis in Africa tropica (HOLST).

6. **Lachnocladium pterulooides** P. Henn. Pilze Ostaf. p. 56. — 822
Dense cæspitosum, confluens, subpulvinatum, erectum, pallide ochraceum, setosum, 2-4 cm. altum; stipitibus ramosissimis, fastigiatis, ramis repetite dichotomis v. fasciculatis, axillis late compressis, strictis v. divergentibus, tenacellis; ramulis apice subulatis, fastigiatis v. cristatis; sporis subellipsoideis, levibus, fuscidulis, $5-6 \approx 3\frac{1}{2}-4\frac{1}{2}$; mycelio albo, membranaceo.

Hab. sub foliis putridis in Africa tropica (HOLST). — *L. semi-vestito* B. et C. affine.

7. **Lachnocladium palmatifidum** P. Henn. Engl. Jahrb. XXIII, p. 544. 823
— Album, 3-6 cm. altum, erectum, coriaceum, tenax; stipitibus ramosis v. basi connexis, subteretibus v. compressis, tomentosis;

ramis in axillis late compressis, subflabellatis, palmato-ramosis, ramulis repetito-dichotomis v. palmatifidis, apice subulato-elongatis, squarrosis, $\frac{1}{2}$ -1 $\frac{1}{2}$ cm. longis; sporis ellipsoideis, hyalino-subflavescentibus, $6-7\frac{1}{2} \approx 3\frac{1}{2}-4\frac{1}{2}$, levibus.

Hab. inter folia decidua putrida in Camerunia (ZENKER).

8. **Lachnocladium victoriense** P. Henn. Engl. Jahrb. XXIII, p. 543. 824

— Fusco-violaceum, 5-6 cm. altum; stipite brevi, $\frac{1}{2}$ -1 cm. longo, incrassato, irregulariter ramoso; ramis sæpe confluentibus, teretibus v. compressis; ramulis repetito dichotomis, levibus, haud compressis, divergentibus, apice subulatis; sporis ellipsoideis v. subovoideis, basi oblique apiculatis, $7-8 \approx 3\frac{1}{2}-4$, episporio fuscidulo, levi.

Hab. ad terram in Camerunia (PREUSS).

9. **Lachnocladium asterosetosum** P. Henn. Hedw. 1897, p. 196. — 825

— Pallide alutaceum, tomentosum; stipite fere tereti, ca. 1-2 cm. longo, 1-1 $\frac{1}{2}$ mm. crasso, repetite ramoso, ramis subteretibus, axillis compressis, divergentibus, ramulis apice furcatis vel subulatis, setulis asteroideis, ochraceis tectis; sporis subglobosis, levibus, hyalino-fuscidulis, 3-4 μ .

Hab. ad terram pr. Blumenau Brasiliæ (ULE).

10. **Lachnocladium Moelleri** P. Henn. Hedw. 1897, p. 196. — Tenuiter 826

coriaceum, late compressum, cretaceum, trunco simplici interdum elongato, compresso, fere tereti, ramis repetite di-vel trichotomis, planis, levibus, ramulis apice longe subulatis vel palmatifidis; sporis ellipsoideis vel ovoideis, hyalinis, dense aculeato-asperatis, 7-9 \approx 5-6.

Hab. ad terram pr. Blumenau Brasiliæ (MÖLLER). — *L. leuco-creati* Pat. affine, sed verisimiliter distinctum.

11. **Lachnocladium olivaceum** P. Henn. Hedw. 1897, p. 196. — Oli- 827

vaceum, 6-10 cm. altum; stipite compresso, 2-3 cm. longo, 2-3 mm. crasso, ramis dichotomis substrictis, setulosis, ramulis apice subulatis vel bifidis; sporis ellipsoideis vel ovoideis, echinato-asperatis, ochraceo-fuscis, basi apiculatis, 9-12 \approx 6-8.

Hab. ad terram pluribus locis in Brasilia (SCHWACKE, ULE).

12. **Lachnocladium Schwackei** P. Henn. Hedw. 1897, p. 196. — Te- 828

nuer coriaceum, late compressum, ca. 6-7 cm. altum, cretaceum, trunco simplici, furcato, ramis repetite di-vel trichotomis, axillis late compressis, levibus, ramulis apice subulatis vel furcatis; sporis subglobosis, levibus, hyalino-flavescentibus, 4-5 μ .

Hab. ad terram pr. Rio de Janeiro Brasiliæ (SCHWACKE). — *Lachnocladia Mölleri* P. Henn. habitu externo valde affine, sed notis microscopicis diversum.

PTERULA Fr. — Syll. VI, p. 740, IX, p. 255, XI, p. 140.

1. **Pterula arbuscula** Bres. Hedw. 1896, p. 291. — Stipite subcom- 829
presso, rufo-badio, basi 1 mm. lato, 2 cm. longo, jam a basi ra-
moso; ramis filiformibus, glabris, paucis, distantibus, rufidulis, in
ramulos bifidos vel alternatim dispositos divisus; hymenio amphi-
geno; basidiis clavatis, minimis; sporis luteolis, obovatis, 10-12 \times 7.

Hab. ad cortices pr. Blumenau Brasiliæ (MÖLLER). — Tota
planta 3 cm. alta, 2 cm. lata; ramuli laxi, distantes, apice steriles.

2. **Pterula incarnata** Pat. Bull. Boiss. 1895, p. 58. — Pusilla, 3-5 830
mm. alta, sparsa vel cæspitosa, rigida, tenax, erecta, pallide incar-
nata, ramosa; ramis patentibus, simplicibus, pallidioribus, undique
basidiferis; sporis non visis.

Hab. ad fragmenta lignea dejecta in Æquatoria (v. LAGERHEIM).

3. **Pterula subplumosa** P. Henn. Hedw. 1897, p. 197. — Minuta, 831
flavo-carnea, sparsa, ca. 1 cm. alta, usque ad 1 cm. diametro;
stipite tereti, erecto ochraceo-tomentoso, squarroso-ramoso; ramis
repetite dichotomis, teretibus, cartilagineis, levibus, apice subulatis;
basidiis clavatis; sporis globosis, hyalinis, 3 $\frac{1}{2}$ μ .

Hab. ad cortices pr. Blumenau Brasiliæ (ULE).

4. **Pterula subsimplex** P. Henn. Hedw. 1897, p. 197. — Flavo-in- 832
carnata, cartilaginea, basi fasciculato-ramosa, ramis filiformibus,
subrigidis, simplicibus, rectis vel flexuosis, apice subulatis, sub-
pruinosis 1-1 $\frac{1}{2}$ cm. longis, 130-200 μ . crassis; sporis globosis, le-
vibus, hyalinis, 3-3 $\frac{1}{2}$ μ .

Hab. ad truncos in silva pr. Blumenau Brasiliæ (ULE). — *Pte-
rulae simplici* Sacc. et Paol. videtur affinis. — Tenuissima gracil-
lima, tantum basi ramosa ideoque *Mucronellæ* similis.

5. **Pterula togoensis** P. Henn. Engl. Jahrb. XXIII, p. 543. — Car- 833
tilaginea, rufo-brunnea, repetito ramosa, 5 cm. alta, ramis com-
pressis, ramulis fasciculatis, strictis, tenuibus, filiformibus, nudis,
apicibus subulatis, usque ad 2 cm. longis; sporis haud conspicuis.

Hab. in truncis putridis in Togo Afr. occ. (BAUMANN). — *Pt.
arundinaceæ* et *Pt. subaquaticæ* Bres. affinis.

6. **Pterula Uleana** P. Henn. Hedw. 1897, p. 197. — Cæspitosa, car- 834
tilaginea, ramosissima, sicco rufo-brunnea, erecta; stipite subtereti,
repetite di-vel trichotomo, ramis filiformibus, strictis, apice subulatis
v. palmatifidis; sporis ellipsoideis, levibus, hyalino-flavescentibus,
4-4 $\frac{1}{2}$ \times 3 $\frac{1}{2}$ -4.

Hab. ad truncos putrescentes pr. St. Catharina Brasiliæ (ULE).
— *Pterulae plumosæ* (Schw.) affinis, sed sporis diversa.

TYPHULA Pers. — Syll. VI, p. 743, IX, p. 255, XI, p. 141.

1. **Typhula Uleana** P. Henn. Hedw. 1897, p. 195. — Simplex, fili- 835
formis, subulata, pallida v. subbrunnea, tomentosula, teres, 1-2 cm.
longa, $\frac{1}{2}$ mm. crassa, apice acute subulata, basi vix incrassata;
basidiis 10-14 \times 6-7; sporis subglobosis, hyalinis, 4-4 $\frac{1}{2}$ μ .

Hab. ad folia decidua pr. St. Catharina Brasilie (ULE).

2. **Typhula tenerrima** P. Henn. Hedw. 1897, p. 195. — Simplex, 836
tenui-filiformis, glabra, sicca rufobrunnea, 1 $\frac{1}{2}$ -2 cm. longa, 35-50 μ .
crassa, teres, apice subulata, basi subsclerotioidea, incrassata, fusca;
sporibus subglobosis, hyalinis, 3 $\frac{1}{2}$ -4 μ .; basidiis clavatis, 5-6 \times 4 $\frac{1}{2}$.

Hab. ad folia decidua pr. St. Catharina Brasilie (ULE).

3. **Typhula lividula** Roll. Bull. Soc. Myc. 1898, p. 83, t. IX, f. 2. 837
— Simplex, primum olivacea, dein siccitate canescens, 2-3 mm.
alta; clavula oblonga v. piriformi; stipite filiformi, pallidiore, gla-
bro, inferne dilatato v. bulbiformi, roseo; sporibus hyalinis, ovato-
oblongis, 8 \times 3-3,5.

Hab. ad caules Hellebori lividi putrescentes, Valle Tavi-
gnano fluminis prope Cortè in Corsica.

4. **Typhula Traillii** Berk. et Cke. — Syll. VI, p. 751 (diagnosis in-
completa!). — Clavula cylindraneo-subfusiformi, ubique fertili,
sæpe falcata, alba, exsiccando lutea, sensim in stipitem abeunte,
4-5 mm. longa, $\frac{1}{4}$ mm. circiter crassa; stipite filiformi, concolore,
glabro, sub microscopio hinc inde aliqua setula cuspidata septata
prædito, 5-7 mm. longo; sporibus oblongo-obovatis, 5-6 \times 2 $\frac{1}{2}$; ba-
sidiis clavatis, 4-sporis, 15-20 \times 6-7 (ex Bresadola in Hedw. 1896,
p. 291).

Hab. ad ramenta pr. Blumenan Brasilie (MOELLER).

PISTILLARIA Fr. — Syll. VI, p. 752, IX, p. 255, XI, p. 141.

1. **Pistillaria Penniseti** P. Henn. Fungi camerun. I, in Engl. Jahrb. 838
XXII, 1895, p. 86. — Gregaria, filiformis, simplex v. ramosa,
albida, 1-2 cm. longa, basi subbulbosa, levi; ramis filiformibus,
sparsis, apicibus subulatis; sporibus ovoideis, hyalinis, 6-7 \times 4-5 ba-
sidiis clavatis, 5-6 μ . crassis,

Hab. in foliis emortuis Penniseti, Kamerun (JUNGNER). —
P. Helenæ Quél. affinis.

2. **Pistillaria Carestiæ** (Ces.) Sacc. Malpighia XI, 1897, p. 17 extr. 839
Typhula Ces. herb. — Minuta, æqualiter cylindranea, obtusa, cæspi-
tosa, carnosa, alba, lutina, $\frac{1}{2}$ -1 mm. alta; basidiis clavato-cylindra-

ceis, 15-20 \approx 4, 2-4-sterigmaticis; sporis ovato-oblongis, 9-10 \approx 3-3 $\frac{1}{2}$, granulosis.

Hab. in ramis siccis *Syringæ vulgaris* in Italia boreali.

BAUMANNIELLA P. Henn. Engl. Jahrb. XXIII, p. 543 (Etym. a cl. botanico G. BAUMANN). — Fungi membranaceo-subgelatinosi, capitati; capitulum subglobosum v. ovoideo-clavatum, vesiculoso-inflatum, cavum, tenue, hymenio ubique tectum; stipes gracilis; basidia monospora, cystidiis superantibus; sporæ subglobosæ, fusciculæ. *Physalacriæ* Peck affinis.

1. **Baumanniella togoënsis** P. Henn. l. c. tab. XIV, fig. 7 a-c. — 840
Pileo vesiculoso-inflato, subgloboso v. ovoideo-subclavato, cavo, tenui, flavo pallescente, 1 $\frac{1}{2}$ -2 mm. alto, 1-1 $\frac{1}{2}$ mm. crasso; stipite tenui, brevi, æquali, farcto, hyalino, vix 1 mm. longo; basidiis subclavatis, monosporis, cystidiis lageniformibus, valde superantibus, sparsis, 25-30 \approx 14-16; sporis subglobosis, fuscidulis, levibus, 4-6 μ .

Hab. in cortice in Togo Afr. oce. (BAUMANN).

Fam. 6. Tremellaceæ FR.

STYPINELLA Schroet. Schles. Pilzfl. p. 383 (Etym. *stypa stupa*, ob contextum stupaceum). — Receptaculum applanatum, stupaceum, immarginatum, ex hyphis laxè intertextis firmis crasse tunicatis formatum; basidia solitaria, transverse articulata, sterigmata filiformia gerentia; sporæ in sterigmatium apicibus oriundæ, simplices. A genere *Hypochno* præcipue basidiis transverse articulatis cylindraceis recedit.

1. **Stypinella orthobasidion** Moell. Protobasid. p. 12 et 161, tab. IV, 841 fig. 1. — Floccis irregularibus, laxis, albis, paucis mm. diam., vix 1 mm. crassis, numerosissimis; hyphis crasse tunicatis, 6 μ . crassis; basidiis rectis, circiter 30 μ . longis, sterigmata subulata 2 $\frac{1}{2}$ μ . longa gerentibus; sporis oblongo-ovalibus, 7 \approx 5; sporis secundariis numerosis.

Hab. in corticibus emortuis pr. Blumenau Brasilæ.

SACCOBLASTIA Moell. Protobasid. p. 162 (Etym. *saccos saccus* et *blastos* germen). — Irregularis, vix 1 mm. crassa, alba, ex hyphis laxè intertextis composita; basidiis liberis, solitariis; cellula,

a qua excresecit basidium, sacculum lateralem vesiculosum gerente. — Est quasi *Hypochnus* sporis pleurogenis, basidiis articulatis, cylindraceis.

1. **Saccoblastia ovispora** Moell. l. c. tab. IV, fig. 3. — Hyphis 6 μ , 842
crassis; sacculo piriformi, 30 \times 8; basidiis irregulariter arcuatis, 100 μ . longis; sterigmatibus subulatis, brevibus omnibus; sporis ovalibus, 13 \times 7-9, germinatione uniseptatis; sporis secundariis numerosis eadem longitudine; conidiis (spermatii) minutis, globosis, in hypharum apicibus abundanter ortis.

Hab. ad cortices putridos pr. Blumenau Brasiliæ.

2. **Saccoblastia sphaerospora** Möll. l. c. tab. IV, fig. 2. — Hyphis 843
ut in præcedente, tantum crassius tunicatis; sacculo globoso, 11 μ . diam.; basidiis 45-60 μ . longis; sterigmatibus filiformibus, brevibus, subæquilongis; sporis subglobosis, 6-8 μ . diam.; conidiis non visis.

Hab. ad cortices putridos pr. Blumenau Brasiliæ.

JOLA Möll. Protobasid. p. 162 (Etym. a nomine quodam proprio v. vernaculo?). — Membranaceo-incrustans; basidia cylindracea, transverse septata acro-pleurospora; sporæ falcatae, magnæ.

1. **Jola Hookeriarum** Möll. l. c. p. 163, tab. IV, fig. 4. — Sicca alba 844
vix conspicua, uda gelatinosa, nitida, crustacea; basidiis usque ad 90 μ . longis; sterigmatibus crassis, filiformibus, inæqualibus; sporis longis, falcatis, 28-36 \times 6; sporis secundariis numerosis.

Hab. ad capsulas *Hookeriæ* albatae et *H. jungermanniopsidis* pr. Blumenau Brasiliæ.

2. **Jola mahensis** Pat. Bull. Soc. Mycol. de France XIII, p. 98. — 845
Pulvinulis solitariis, albidis, ovoideo-tuberculatis, ex hyphis radiantibus, transverse septatis, hinc inde inflatis compositis; cellulis apicalibus basidiisque ut in *J. javensi*.

Hab. ad calyptram *Sematophylli mahensis* in insula «Mahe» Javæ (MASSART).

3. **Jola javensis** Pat. Ann. Jard. Buitenz. 1897, I, suppl. p. 119. — 846
Pulvinulis solitariis, albis, subglobosis, levibus, opacis, ex hyphis radiantibus, 3-4 μ . crassis, ramosis, transverse septatis, tenuiter tunicatis, cylindraceis, mollibus, longissimis, apice in cellulam clavatam, sursum obtusam, deorsum attenuatam, 20-25 \times 5-7, protoplasmate farctam desinentibus; basidiis cylindraceis, rectis, dein curvulis, 45-55 \times 5-6, transverse triseptatis e cellula clavata singulatim egredientibus; sterigmatibus pleurogenis, acutiusculis, crassiusculis, 15-20 \times 3; sporis hyalinis, fusoideo-falcatis, 15-20 \times 3-4.

Hab. in fronde muscorum e. g. *Sematophyllo*, *Trichosteleo*, *Ectropothecio*, Java (MASSART).

PILACRELLA Schroet. Schles. Pilzfl. I, p. 384, (Etym. a *Pilacre*, cui affinis). — Receptaculum minutissimum, pedicellatum, supra abrupte in discum planum v. subconvexum expansum, e basidiis clavatis septis transversis in articulos divisus compositum; sterigmata brevissima v. nulla; sporæ simplices, hyalinæ-. Habitus fere *Pilacres*, sed basidia elongata transverse pluriseptata, auriculariacea.

1. **Pilacrella delectans** Moell. Protobasid. p. 164. tab. V, fig. 18-33. 847
— Gregaria, circiter 5 mm. alta; stipite hyalino, subpellucido, supra in capitulum album impellucidum $\frac{3}{4}$ mm. diam. transeunte; basidiis strato æquali capitulum includentibus, ab hyphis sterilibus cinctis, 60 \times 5-6, supra curvulis; sporis sterigmatibus nullis fultis, 14-18 \times 7-8; conidiis variis, aliis minutis globosis, 2 μ . diam., aliis magnis oblongis 12-26 \times 6-9.

Hab. ad truncos *Euterpes* oleraceæ in silvis pr. Blumenau Brasiliæ.

2. **Pilacrella Solani** Cohn. et Schroet. l. c. p. 385, Sacc. Syll. X, p. 686.

Hab. in tuberibus *Solani* tuberosi, Breslau Silesiæ.

MYLITTOPSIS Pat. Journ. de Bot. 1895, n. 247 (Etym. a *Mylitta*). — Receptaculum tuberculiforme, indurato-gelatinosum, e fibris radiantibus omnino compositum, hymenio amphigeno; basidiis rectis, transverse septatis, cum paraphysibus immixtis.

1. **Mylittopsis Langloisii** Pat. l. c. — Receptaculo indurato, ovoideo, irregulariter lobato, 3-4 cm. longo, 2 cm. alto, dense vermiculato, sordide iutescenti; basidiis triseptatis, 30-40 \times 35; paraphysibus 150 μ . longis; sporis..... 848

Hab. ad truncos in silvis paludosis, Louisiana Amer. bor. (LANGLOIS).

STYPELLA Moell. Protobasid. p. 166 (Etym. a *Stypinello*, cui affinis). — Est quasi *Stypinella* basidiis globulosis tremellaceis.

- 1 **Stypella papillata** Moell. l. c. tab. IV, fig. 6. — Acervulis minutis, 849
albis, vix $\frac{1}{2}$ mm. crassis, irregularibus, udis vitreis, papillis inordinate dispositis minutissimis asperatis, ex hyphis laxè intertextis tenuissimis interdum usque ad 200 μ . longis ac 10 μ . crassis compositis; basidiis globulosis, 9 μ . diam., dein cruciatim in 4 cellulas

secedentibus; sterigmatibus 9 μ . longis; sporis subglobosis, 4 μ . diam.; sporis secundariis numerosis.

Hab. ad ligna et cortices emortuos pr. Blumenau Brasilæ.

2. **Stypella minor** Moell. l. c. tab. IV. fig. 7. — A præcedente dif- 850
fert basidiis 4-5 μ . diam., sterigmatibus 7 μ . longis ac sporis ova-
libus 6 \times 3 μ .

Hab. ad ligna emortua pr. Blumenau Brasilæ.

PLATYGLÆA Schræt. — Syll. VI, p. 771, XI, p. 146.

1. **Platyglæa blastomyces** Moell. Protobasid. p. 163, tab. IV, fig. 5. 851
— Receptaculis albo-griseis, irregularibus, ceraceis, 5 mm. crassis;
hyphis tenuissimis, dense intertextis; basidiis filiformibus, usque
200 μ . longis; sterigmatibus tenui-filiformibus, magnitudine variis;
sporis oblongis, 12 \times 6. Sporæ secundariæ adsunt.

Hab. ad cortices emortuos pr. Blumenau Brasilæ.

2. **Platyglæa Lagerheimii** (Pat.) Sacc. et Syd. *Helicoglæa Lagerheimii*
Pat., Syll. XI, p. 146.

Hab. ad ligna putrida in Æquatoria. — *Helicoglæa* Pat. omni-
no cum *Platyglæa* congruit, quod jam cl. A. Moeller coniecit.

HETEROCHÆTE Pat. Bull. Soc. Myc. 1892, p. 120, XI, p. 144.

(Etym. *heteros* varius et *chæte* pilus). — Fungi heterobasidiospori,
effusi, membranaceo-floccosi v. coriaceo-gelatinosi, undique setulosi
setulis sterilibus; basidia globoso-ovoidea, cruciatim partita, apice
sterigmata bina v. quaterna gerentia; sporæ continuæ, hyalinæ,
rectæ v. curvulæ, germinatione promycelium emittentes in conidi-
um unicum apice productum.

1. **Heterochæte ? Solenia** Pat. Bull. Boiss. 1895, p. 59. — Resupi- 852
nata, irregulariter effusa, orbicularis vel repanda, 2-6 mm. lata,
albido-ochracea; subiculo tenuissimo, pulverulento, albido; setulis
pseudoparenchymaticis, numerosissimis, albido-ochraceis, nudo oculo
vix conspicuis, 100-120 \times 30-50 μ ., densissime stipatis, erectis, te-
retibus, undique cystidiis hyalinis acutis, crassa tunicatis, rugosis,
20 \times 4, ciliolatis; basidiis sporisque non visis.

Hab. ad ramulos emortuos in Æquatoria (v. LAGERHEIM).

2. **Heterochæte Sanctæ-Catharinæ** Möll. Protobasid. p. 167, tab. IV, 853
fig. 8. — Candida, vix 1 mm. crassa, immarginata, irregularis, un-
dique setulosa, paucis mm. diam.; setulis minutis, 150 μ . longis,
apicem versus cystidiiformiter incrassatis ibique usque ad 7 μ . cras-
sis; basidiis oblongo-ovalibus, 21 \times 12; sporis 12-15 μ . longis.

Hab. ad cortices emortuos pr. Blumenau Brasiliæ.

SIROBASIDIUM Lag. et Pat. Journ. de Bot. 1892, p. 465, XI, p. 148, (Ety. *seira* series et *basidium*). — Fungi gelatinosi, pulvinati, ubique hymenio vestiti; basidia ex apice hypharum oriunda, globosa v. ovoidea, longitudinaliter quadripartita, in catenulas disposita, quarum articuli inferni juniores; sporæ e quacumque parte basidii singulatim oriundæ, continuæ, fusiformes, sessiles.

1. **Sirobasidium Brefeldianum** Möll. Protobasid. p. 165, tab. VI. — 854
Acervulis minutis albis, 3 mm. diam., dacryoideis; basidiis septo obliquo in duas cellulas divisus, in catenulas dispositis; catenulis circiter ex 10-12 v. pluribus articulis compositis; sporis adhuc adhærentibus oblongis, 22-24 \times 7-8, post secessionem globosis.

Hab. in ligno putrido pr. Blumenau Brasiliæ.

EXIDIOPSIS Ols. in Bref. Untersuch. VII, p. 94; Möller Protobasid. p. 167. (Ety. ab *Exidia*, cui affine genus). — Fungi membranacei, pelliculosi, tenuissimi, leves, ceracei, crustam formantes; basidia globoso-ovata, tremellacea. Adsunt conidia hamata, minutissima, in conidiophoris racemose disposita.

1. **Exidiopsis cerina** Moell. l. c. p. 167. — Tenuissima, grisea, ce- 855
racea, gelatinosa, incrustans, levis; basidiis ovalibus, 12 μ . diam.; sporis oblongis, leniter curvulis, 8-9 \times 6; adsunt sporæ secundariæ.

Hab. ad ligna putrescentia pr. Blumenau Brasiliæ.

2. **Exidiopsis verruculosa** Moell. l. c. p. 168. — Tenuissime pellicu- 856
losa, alba, immarginata, papillis minutissimis ex hyphis sterilibus compositis subtilissime granulata; basidiis 10 μ . diam.; sterigmatibus 10 . . longis; sporis leniter curvulis, 9-10 \times 4; adsunt sporæ secundariæ.

Hab. ad cortices putridos pr. Blumenau Brasiliæ.

3. **Exidiopsis tremellispora** Moell. l. c. p. 168. — Gelatinosa, grisea, 857
ceraceo-mollis, subgelatinosa, incrustans, papillis minutissimis vix 100 μ . altis, ex fasciculis hypharum sterilium compositis, granulata; basidiis subglobosis, 20-22 . . diam.; sterigmatibus longitudine variis; sporis subpiriformibus, 16 \times 11.

Hab. in corticibus et lignis emortuis pr. Blumenau Brasiliæ.

4. **Exidiopsis glabra** Moell. l. c. p. 168. — Pelliculosa, levis, immar- 858
ginata, incrustans, papillis nullis; basidiis 18 \times 12; sporis subglobosis, 12 \times 10.

Hab. ad truncos emortuos pr. Blunnenau Brasiliæ.

5. **Exidiopsis ciliata** Moell. l. c. p. 168. — Subrotunda, 1-2 mm. crassa 859
 alba, cartilagineo-gelatinosa, effusa, margine subtiliter ac regulariter
 ciliata, plura cm. diam. tota papillis subtilissimis granulosis ex
 hyphis sterilibus apicem versus cystidiiformiter incrassatis 15-20 μ .
 longis, usque 10 μ . crassis compositis tecta; basidiis globosis, 12-14 μ .
 diam.; sporis leniter curvulis, 12-15 \approx 6.

Hab. in corticibus putridis pr. Blumenau Brasiliæ.

EXIDIA Fr. — Syll. VI, p. 772, IX, p. 257, XI, p. 146.

1. **Exidia succina** Moell. Protobasid. p. 169. — Gelatinosa, succinea, 860
 irregularis, ex rimis corticium erumpens, stipite brevissimo præ-
 dita; basidiis 10-12 μ . diam.; sporis curvulis, 10-12 \approx 4-5.

Hab. ad cortices putrescentes pr. Blumenau Brasiliæ.

CRATEROCOLLA Bref. — Syll. VI, p. 778.

1. **Craterocola minuta** Pat. Bull. Soc. Myc. de Fr. 1895, p. 210. 861
 (*Ditangium*). — Minutissima, $\frac{1}{4}$ mm. diam.; receptaculis gregariis,
 sessilibus, cupuliformibus, extus ochraceo-brunneis, rugulosis; hy-
 menio gelatinoso, rosello-hyalino, in sicco cupulari, udo plano aut
 convexo; basidiis globosis vel ovoideis, 15-20 \approx 10-12, stipitatis,
 cruciatim 2-4-septatis (septa sæpe obliqua); sterigmatibus filifor-
 mibus, longissimis.

Hab. parasitica in Perisporiaceae quadam ad folia arborea
 in Æquatoria (v. LAGERHEIM).

TREMELLA Dill. — Syll. VI, p. 780, IX, p. 258, XI, p. 147. Cfr.
 Græf. XX, p. 15.

1. **Tremella crocea** P. Henn. Hedw. 1897, p. 191. — Gelatinosa; effu- 862
 sa, flavo-aurantia, in sicco crocea, cartilaginea, ca. 1-1 $\frac{1}{2}$ cm. diam.,
 gyroso-plicata, undulato-lobata, lobis rotundatis; basidiis subglo-
 bosis, ca. 10 μ . diam., sterigmatibus elongatis; sporis ovoldæis v.
 piriformibus, 7-8 \approx 6-7; odore graveolenti.

Hab. ad corticem trunci pr. Blumenau Brasiliæ (ULE). — *Tre-*
mellæ dysentericæ Möll. affinis.

2. **Tremella mucoroidea** Pat. Ann. Jard. Buitenz. 1897, I, suppl. p. 117. 863
 — Pulvinulis solitariis, gelatinosis, ex albo subhyalinis, ovoideis,
 levibus, minutissimis, vix $\frac{1}{2}$ mm. altis; hyphis ramulosis, tentibus,
 2 μ . crassis, mucosis, brevibus; basidiis amphigenis, globoso-ellipsoi-
 deis, 6-8 μ . diam., longitudinaliter cruciatim septatis; sterigmatibus
 10 μ . longis, filiformibus, apice acutis, flexuosis, substantia mucosa

immersis; sporis oblongis, hyalinis, apice obtusis, basi oblique apiculatis, 6×3 .

Hab. in thallo Riccardiae sp. Java (MASSART).

3. **Tremella setulosa** P. Henn. Fungi camerun. I, in Engl. Jahrb. 864 XXII, 1895, p. 83. — Gelatinosa, cæspitosa, foliacea, crispa, laciniato-lobata, albida, rugulosa, setis simplicibus, erectis, rigidis, circiter 1 mm. longis, nigris v. griseis, utrinque tecta, circiter 8 cm. lata, 5 cm. longa, lobis lobato-incisis, margine sinuosis, crispatis; sporis ovoideis v. subglobosis, $7-8 \times 4-6$; basidiis subglobosis; sterigmatibus elongatis, filiformibus.

Hab. ad truncos putres, Kamerun (DUSEN). — A *T. fuciformi* differt setis rigidis, patentibus nigris et sporis minoribus.

4. **Tremella olivaceo-nigra** Britz. Hymen. Kunde, I, 1895, p. 14, f. 28. 865 — Mollissima, olivaceo-nigra vel nigra, non verrucosa; sporis luteolis, $6-8 \mu$. diam.

Hab. ad truncos pineos in Bavaria.

5. **Tremella faginea** Britz. Hymen. Kunde, I, 1895, p. 16, fig. 29. 866 — Glabra, nigro-brunnea vel viridulo-brunnea; sporis luteolis, arcuatis, $14-16 \times 4$.

Hab. in truncis fagineis in Bavaria.

6. **Tremella ochracea** Pat. Bull. Boiss. 1895, p. 59. — Effusa, corticioidea, 3-5 cm. longa, tenuissima, ochracea, subgelatinosa, vix pellucida; basidiis subglobosis, cruciatim 4-septatis, $10-12 \mu$. diam.; sporis non visis.

Hab. in trunco putri Chusqueae in Æquatoria (v. LAGERHEIM).

7. **Tremella compacta** Moell. Protobasid. p. 170, t. I, f. 2, t. IV, 868 f. 12. — Globosa, gelatinosa, compacta, irregulariter lobata ac plicata, pallide ochracea, plura cm. diam., per ætatem intus hic illic cava; basidiis globulosis, $12-14 \mu$. diam.; sporis globosis, $6-7 \mu$. d.

Hab. ad cortices putrescentes pr. Blumenau Brasiliæ.

8. **Tremella dysenterica** Moell. Protobasid. p. 172. — Mollis, mucoso-gelatinosa, plura cm. diam., vitrea, flava v. lutea, striis sanguineis prædita ibique hymenio tecta; basidiis globosis, $10-12 \mu$. diam.; sporis $6-9 \mu$.; conidiis subglobosis, 3μ . diam.

Hab. in fragmentis ligneis putridis ac udis pr. Blumenau Brasiliæ.

9. **Tremella damæcornis** Moell. Protobasid. p. 172, t. IV, f. 9. — 870 Irregularis, erecta, 1 cm. alta, gelatinoso-cartilaginea, lobata, corniculata, dilute lutea, undique hymenio tecta; basidiis globosis $7-9 \mu$. diam.; sporis $5-7 \mu$.

Hab. in truncis pr. Blumenau Brasiliæ.

10. **Tremella fucoides** Moell. Protobasid. p. 171, t. II, f. 2, t. IV, 871
fig. 17. — Lobis irregulariter oblongis, tremulis, gelatinosis luteo-brunneis, bipartitis, 2-3 cm. longis, intus cavis, pellucide tunicatis, fasciculato-conjunctis; basidiis oblongo-ovalibus, 10-15 μ . diam.; sporis 8 \approx 6-7.

Hab. ad truncos pr. Blumenau Brasiliæ.

11. **Tremella spectabilis** Moell. Protobasid. p. 171, tab. II, fig. 2. 872
— Cæspitosa, maxima, dilute ochracea, 6-8 cm. diam., levis, lobis intus cavis gyroso-plicatis; basidiis globosis 13-15 μ . diam.; sporis oblongis, 10 \approx 5-6.

Hab. ad truncos pr. Blumenau Brasiliæ.

12. **Tremella anomala** Moell. Protobasid. p. 171, tab. IV, fig. 11. — 873
Subpellucida, sordide flava, globosa, minuta, gyroso-plicata; basidiis globosis 10 μ . diam.; sporis 6 μ . diam.

Hab. ad ramos emortuos pr. Blumenau Brasiliæ.

13. **Tremella fibulifera** Moell. Protobasid. p. 170, tab. II, fig. 2. — 874
Tenuissima, tremula, vitrea, subpellucida, irregulariter lobata, undulato-gyrosa, usque ad 10 cm. diam.; basidiis globosis 12-16 μ . diam.; sporis 7-10 μ . diam.

Hab. in lignis putridis in silvis pr. Blumenau Brasiliæ sat frequens.

14. **Tremella auricularia** Moell. Protobasid. p. 170, tab. IV, fig. 16. 875
— Lobis foliaceis, sæpe auriformibus, gelatinoso-cartilagineis, brunneis, plura cm. diam., squamiformiter v. imbricate dispositis, e cortice erumpentibus; basidiis globosis 15 μ . diam.; sporis piriformibus 10-12 μ . diam.

Hab. ad cortices putridos pr. Blumenau Brasiliæ. — Habitus externus fere omnino Tremellæ frondosæ.

15. **Tremella Britzelmayri** Sacc. et Syd. Sic nominanda est *Tremella pinicola* Britz., Sacc.-Syll. XI, p. 147, quum exstet anterior *T. pinicola* Peck, Sacc. Syll. VI, p. 784.

PROTOHYDNUM Moell. Protobasid. p. 173 (Etym. *protos* primus et *Hydnum*). — Est *Hydnum* resupinatum, tremellaceum.

1. **Protohydnum cartilagineum** Möll. l. c. tab. III, fig. 1, tab. V, 876
fig. 35. — Ceraceum, dilute flavum, usque 3 mm. crassum, immarginatum, effusum, superficie aculeis obtuse conicis crassis, 4-5 mm. altis, confertissimis præditum; basidiis oblongis, 15 μ . longis, 9-

10 μ . latis, utrinque subcompressis; sterigmatibus 30 μ . longis; sporis rectis, 9 \times 4-5.

Hab. ad truncos putridos pr. Blumenau Brasiliæ.

HYALORIA Moell. Protobasid. pag. 173. (Etym. *hyalos* vitrum). —

Fungi cæspitiosi, stipitati, verticales, columnares, apice incrassati, gelatinosi, vitrei; fructificatio tremellacea.

1. **Hyaloria Pilacre** Moell. l. c. tab. I, fig. 3, tab. V, fig. 27. — 877
Vitrea, 2 cm. alta, 3-4 mm. crassa, apice capitulo nitido prædita; basidiis oblongis, 14 \times 7, sterigmata subæqualia 3 μ . longa gerentibus; sporis oblongo-ovalibus, 7 μ . longis, numerosissimis.

Hab. ad caudices putres, præsertim Palmarum (*Euterpes*) pr. Blumenau Brasiliæ.

DACRYOMYCES Nees. — Syll. VI, p. 796, IX p. 259, XI, p. 148.

1. **Dacryomyces guepiniaformis** Pat. Cat. rais. pl. cell. Tunisie 1897, 878 p. 74. — Gregarius, stipitatus, 3-5 mm. latus, disciformis, gelatinosus, luteus; disco plano v. depresso, margine deflexo, tumido, subtus levi glabro; basidiis furcatis, 50-60 \times 5-7; sporis oblongis, curvulis, hyalinis, utrinque obtusis, 3-septatis, 13-15 \times 6-7; conidiis hyalinis, minutissimis, subglobosis, sterigmatibus brevibus suffultis; stipite 1 mm. alto, excentrico, luteo, brevi, radicato, in lignum intrante.

Hab. in ligno denudato et putrido *Quercus Mirbeckii* in Tunisia.

GUEPINIA Fr. — Syll. VI, p. 805, XI, p. 150,

1. **Guepinia helvelloides** P. Henn. Pilze Ostafri. p. 53. — Tremellosa- 879
tenax, flavo-aurantia, solitaria v. confluenti-cæspitosa; stipite clavato, late compresso, pallidiore, 5-7 mm. longo crassoque; pileo helvelliformi, primo subcampanulato, undulato, deinde plicato v. deflexo-lobato, margine libero, involuto, 5-9 mm. diam.; basidiis repetito furcatis, ramis strictis apice subincrassatis; sporis plerumque oblongo-lunulatis raro rectis, cylindræis, transverse 8-septatis, hyalinis, subgranulatis, 17-21 \times 7-9.

Hab. in ligno putrido in Africa trop. (VOLKENS).

2. **Guepinia camerunensis** P. Henn. Fungi camerun. I, in Engl. 880
Jahrb. XXII, 1895, p. 84. — Subgelatinosa, tenax, pallide flava, 1-2 cm. alta, late compressa, fiabellata v. spathulata, sinuosa lobataque vel in cupulam discoideam dilatata, cupula intus glabra.

flava; sporis ellipsoideis, curvulis, hyalinis, granulatis, deinde multiseptatis, $7-9 \times 5-6$; basidiis furcatis, sterigmatibus ca. 40μ . longis.

Hab. ad ligna putrida, Kamerun (JUNGER)

3. **Guëpinia agaricina** Pat. Bull. Soc. Myc. de Fr. 1895, p. 210. 881
(*Guëpiniopsis*). — Simplex, regularis, stipitata; pileo orbiculari, 3-8 mm. diam., tenui, depresso dein undulato-plano, regulari vix repando, brunneo-fusco, coriaceo, vix gelatinoso, margine revoluta, subtus pallidiori, minute furfuraceo, 5-8 plicis lamelliformibus radiantibusque notato; stipite centrali, cylindraceo vel compresso, 1-4 mm. longo, 1 mm. crasso, coriaceo, farcto, villosa, pallide fusco-brunneo, inferne radicato; basidiis apice furcatis, $50 \times 5-7$ sporis hyalinis, ovatis, inferne attenuatis, 3-5 transverse septatis, $16-20 \times 6-7$.

Hab. ad ligna putrida in Æquatoria (v. LAGERHEIM). — *G. eleganti* Berk. affinis.

4. **Guëpinia andina** Pat. Bull. Soc. Myc. de Fr. 1895, p. 211. (*Guëpiniopsis*). 882
— Sparsa vel gregaria, simplex, regularis, stipitata; pileo orbiculari, 3-6 mm. diam., tenui, depresso, dein plano vel convexo, margine deflexo, integro, vix undulato, carneo-gelatinoso, subpellucido, pallide flavo-fusco, subtus levi, nudo oculo glabro, sub lente tenuiter puberulo; stipite centrali, homogeneo, farcto vix 1 mm. longo, fusco; basidiis apice furcatis, 50μ . longis; sporis ovatis, inferne attenuatis, rectis vel curvatis, hyalinis, transverse triseptatis, 16×6 .

Hab. ad ligna putrida in Æquatoria (v. LAGERHEIM).

DACRYOMITRA Tul. — Syll. VI, p. 811.

1. **Dacryomitra Cudonia** Bres. Hedw. 1896, p. 293. — Luride lutea; 883
stipite tereti, 1 mm. circiter longo, crassoque, levi; clavula subglobosa, 1-2 mm. diam., costis crassis et tortuosis, rugoso-undulata; basidiis cylindraceo-clavatis, bifurcatis, $45-50 \times 4-6$; sporis cylindraceo-subcurvulis, 1-3-septatis, flavis, $8-10 \times 5-5\frac{1}{2}$; hyphis subhymenialibus 3 μ . latis.

Hab. ad ligna pr. Blumenau Brasilæ (MÖLLER). — E forma videretur prorsus *Cudonia circinans* (Pers.) Fr. diminuta.

GASTEROMYCETÆ Willd.

Syll. fung. VII, p. 1, IX, p. 262. XI, p. 152.

Fam. 1. Phallaceæ FR.

DICTYOPHORA Desv. — Syll. VII, p. 3, IX, p. 262, XI, p. 152..

1. **Dictyophora chlorocephala** De Seyn. Rech. Champ. Congo fr. 1897, 884
I, p. 1, tab. I, fig. 32. — Stipite albo, reticulato poroso, deorsum fusiformi acuto, 8 cm. alto, $1\frac{1}{2}$ cm. lato; indusio albo, conico, reticulato, stipitem usque ad volvam vestiente; volva alba, aperta $2\frac{1}{2}$ cm. alta, persistente; pileo conico-obtuso, orbiculato, luteo, 11 mm. longo, 14 mm. lato, sensim reticulato; sporis ellipsoideis, translucidis, $3-4 \times 2$.

Hab. ad terram pr. Talagouga in regione kongolana gallica. — *D. Braunii* P. Henn. ex Kamerunia affinis. Quum pileus sit luteus nec viridis, species *Dictyophora xanthocephala* est aptius dicenda.

CRYPTOPHALLUS Peck, Bull. Torr. Bot. Cl. 1897, p. 147 (Etym. *cryptos* latens, et *Phallus*). — Receptaculum e stipite cavo et pileo consistens. Volva subcircumscisse aperta, parte superiore cum pileo remanente et glebam includente, cetera ut in *Ithyphallo*, cui affine genus.

1. **Cryptophallus albiceps** Peck i. c. — Pileo subcampanulato, circiter 885
 $2\frac{1}{2}$ cm. alto, 2 cm. lato, apice obtuso v. rotundato, fragmentis albidis volvæ ruptæ minute tomentosæ tecto; stipite cylindrico, cavo, $6\frac{1}{2}$ - $10\frac{1}{2}$ cm. longo, $1-1\frac{3}{4}$ cm. crasso, albido v. pallido, basi partis inferioris volvæ inserto; velo nullo; sporis anguste ellipticis, $4-5\frac{1}{3} \times 2\frac{1}{2}$.

Hab. in agris, Kansas, ad basim trunci in Canada, Amer. bor.

FLOCCOMUTINUS P. Henn. Fungi camerun. I. in Engl. Jahrb. XXII, 1895, p. 109 (Etym. *floccus* et *Mutinus* cui affinis). —

Receptaculum stipitiforme, fasciato-compressum, pileo carens, in parte superiore pulpa sporifera obtectum, annulato-sulcatum, dein floccis (trama?) vestitum. Sporæ tereti-ellipsoideæ. — *Mutino* affinis.

1. **Floccomutinus Zenkeri** P. Henn. l. c. — Cæspitosus e mycelio 886
radiciformi albo, ramoso, repente, vix 20 mm. altus, volva bilobata, flavo-carnea v. rufa, circ. 2-3 mm. longa, 2 mm. lata; stipite fasciato-compresso, transverse sulcato plicatoque, cavo, 5-10 mm. longo, 1 1/2 mm. lato, pallido, parte sporifera eadem structura, compressa, conico-elongata, pulpa sporarum fusco-olivacea oblecta, mox nuda, annulato-sulcata, annulis floccis subramosis tegentibus, 5-10 μ . longa; sporis cylindraceo-ellipsoideis, minutissimis, levibus, 3 ν 3/6 μ ., hyalino-subfufcescentibus.

Hab. ad truncos vetustos in silvis, Kamerun (ZENKER et STAUDT).

KALCHBRENNERA Berk. — Syll. VII, p. 14.

1. **Kalchbrennera Tuckii** (Kalchbr. et Mc. Ow.) Berk.-Sacc. Syll. VII, 887
p. 14. — Var. **clathroides** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 108. — Receptaculo cylindraceo, apice rotundato-obtuso, 7 cm. longo; stipite cylindraceo, ca. 2 1/2 cm. alto, 3 1/2 cm. crasso, albo, e cellulis favosis irregularibus; parte sporifera ca 5 cm. alta, 2 1/2 cm. crassa, cancellata, coccinea, ramis plus minus distincte transverse rugosis, compresso-rotundatis, 2-3 mm. altis, interstitiis irregulariter polygonis, extus pulpa olivacea sporarum vestita; sporis cylindraceo-oblongis, hyalinis, 4 1/2-5 1/2 ν 2.

Hab. ad terram in silvis, Togo (BAUMANN).

CLATHRUS Mich. — Syll. VII, p. 18, IX, p. 264, XI, p. 154.

1. **Clathrus Preussii** P. Henn. in litt. *Clathrus cameroënsis* P. Henn. 888
var. *Preussii* P. Henn. in Fg. camerun. I, pag. 108. — Receptaculo ovoideo, 11 cm. circiter alto, 7 cm. lato; parte inferiori indivisa, stipitiformi, 2 1/2 cm. circiter alta, 1-4 cm. lata, sursum in ramos 8 usque ad 1 cm. latos fissa; ramis ipsis ac insequentibus ligulato-applanatis, late compressis, extrorsum profunde canaliculatis, margine dentibus 3-4 mm. longis pluries incisus præditis, transverse rugosis; interstitiis ovoideis v. angulosis, usque ad 2 cm. longis latisque; volva 3 1/2 cm. lata, 3 cm. alta, e mycelio funiformi oriunda.

Hab. ad terram in Camerunia. — *C. crispo* affinis.

Fam. 2. Nidulariaceæ Fr.

NIDULARIA Fr. — Syll. VII, p. 28, IX, p. 265, XI, p. 156.

1. **Nidularia alabamensis** Atk. Bull. Cornell. Univ. III, n. 1, 1897, 889 p. 23. — Peridio spherico, sessili, rubescenti-brunneo, 4-5 mm. diam., fibris rhizoideis basi non instructo, irregulariter rupto; sporangioliis lenticularibus, nitentibus, nigro-brunneis v. obscuris, 1 mm. diam., corrugatis, duris, numerosissimis, pulpam albidam e filamentis irregulariter flexuosis v. ramoso-nodulosis valde tuberculositas compositam infarcientibus; sporis obovatis, hyalinis, 4-6 \times 3-4.

Hab. in ligno putrido, Auburn, Alabama Amer. bor. — *N. farctæ* proxima.

CYATHUS Hall. — Syll. VII, p. 32, IX, p. 266, XI, p. 156.

1. **Cyathus rufipes** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 125. — 890 Peridio obconico, circiter 1 cm. alto, 4 mm. lato, tenui, intus obscure alutaceo levique, supra non striato, extus dense strigosotomentoso, basi tomento rufo ornato, margine connivente asperoque; sporangioliis discoideis, 1 $\frac{1}{4}$ mm. diam., maturitate nigricantibus, concavis et rugosis, superficie fibrillis gracilibus 3 μ . crassis brunneis intricatis obtectis; sporis globosis v. ellipticis, 20-27 \times 15-20.

Hab. ad terram, Kansas Amer. bor. (BARTHOLOMEW).

2. **Cyathus affinis** Pat. Bull. Soc. Mycol. de France 1895, p. 87. — 891 Peridio obconico, rubescente, strigoso-squamuloso, dein glabrescente, non striato, 1-1 $\frac{1}{2}$ cm. alto, epiphragmate albido, intus cinereo, glabro; sporangioliis 5-8 consociatis, 2 mm. latis, $\frac{1}{2}$ mm. crassis, pallidis, orbicularibus, glabris, subtus umbilicatis, funiculo albo brevi; sporis hyalinis, magnis, 23-30 \times 16-20, ovoideis, levibus; subiculo membranaceo, rubro, tomentoso, basim peridii cingente.

Hab. in detritis ligneis, Madagascar. — An idem ac *C. Lesueurii* Tul.?

3. **Cyathus minimus** Pat. Journ. de Bot. 1897, p. 345. — Peridio 892 albo-rubescente, obconico, 3-4 mm. alto, 2-3 mm. lato, coriaceo-papyraceo, squamuloso, margine integro angustissimo, intus glabro levique, nunquam striato, pallide rubro; sporangioliis 9-15 in quoque peridio, discoideis, nigris, levibus, vix 1 mm. diam., funiculo albo minuto munitis; sporis levibus hyalinis, ovoideo-elongatis, 20-23 \times 8-10.

Hab. in radicibus herbarum in Tonkin.

Fam. 3. Lycoperdaceæ EHRENB.

SECOTIUM Kunze — Syll. VII, p. 51, IX, p. 266, XI, p. 157.

1. **Secotium decipiens** Peck, Bull. Torr. Bot. Club. 1895, p. 492. — 893

Peridio subgloboso v. depresso-globoso, superficie in squamas latas, laxas v. adpressas erupta, cremeo; parte peridii inferiore stipiti dense affixa, tandem a parte superiore solubili, interdum in longitudine affixa et gradatim decedente; gleba universali, septis lamelliformibus, anastomosantibus, cellulas irregulares v. sublabyrinthiformes formante, libera, nigra; stipite firmo, solido, sursum plerumque attenuato, sub peridio abrupte angustato, extus colore pilei, intus luteo; sporis globosis v. subglobosis, levibus, nigris v. brunneolo-nigris, 5-7 μ . longis.

Hab. ad vias et in herbosis in California (Mc CLATCHIE). — Peridium 2-10 cm. latum; stipes 8-16 cm. longus, basi fere 2-3 cm. crassus, summo apice 1-2 cm. crassus.

CYCLODERMA Klotzsch. — Syll. VII, p. 56 et 470.

1. **Cycloderma apiculatum** A. L. Smith. Journ. of Bot. 1895, p. 340. 894

— Peridio exteriori globoso, rugoso, fuliginoso, apice umbonato, interiori papyraceo, separabili, ochraceo; columella alba, medio constricta; glebæ maturæ filamentis dilutius fuliginosis; sporis concoloribus, minutis, sphericis.

Hab. ad terram silvestrem, Ruovenzori Africae orient. (ELLIOT). Siccum circiter 1,5 cm. diam.

PODAXON (Desv.) Fr. — Syll. VII, p. 58, IX, p. 267, XI, p. 158.

1. **Podaxon Glaziovii** P. Henn. Hedw. 1897, p. 210. — Peridio ovato, 895

albido, membranaceo, apice obtuso-rotundato, basi laciniato-dehiscente, ca. 2½ cm. longo, 2 cm. lato; stipite duro, lignoso, squamis membranaceis, latis, albidis tecto, substriato, basi subbulboso, ca. 17 cm. alto, basi ca. 2 cm. medio ca. 1 cm. crasso; sporis subglobosis, ovoideis vel ellipsoideis, læte brunneis vel melleis, 9-12 \times 8-10, episporio levi vel punctatulo; floccis capillitii melleis, flexuosis, 5-6 μ . crassis.

Hab. ad terram pr. Goyaz Brasiliæ (GLAZIOU).

2. **Podaxon Perraldieri** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 68, 896

Explor. Tun. Illustr. bot. tab. III, fig. 3. — Peridio ovato v. elongato, apice attenuato, 5-10 cm. alto, 4-5 cm. lato, pallide rufo

vinosove, chartaceo, squamis adpressis vestito, intus albido; stipite lignoso, longitudinaliter striato-costato albido-rufescente, æquali, cylindraco, 8-12 cm. longo, 8-10 mm. crasso, farcto, contextu brunneo, inferne bulboso; gleba lanosa, inferne violaceo-vinosa superne olivaceo-nigrescente, columellâ percursa; capillitio bene evoluto, floccoso, pallide rufo, non spiraliter diffracto, 5-8 μ . crasso; basidiis glomerulatis, rufulis, sporas quaternas gerentibus; sporis ellipticis apice poro impressis, olivaceis, dein rubris, 14-15 \times 10-12

Hab. in sabulosis in Tunisia — *P. indico* Fr. affinis.

ELASMOMYCES Cavara, Malpighia 1897, p. 426 (Etym. *elasmos* lamina). Peridium semiepigæum, stipitatum, globulare, primo clausum, dein inferne apertum, subtus lamellis spuriis crassis, radiantibus, donatum; stipes brevis, farctus, evolvatus, in columellam usque ad peridium desinens; gleba celluloso-spongiosa; hymenium e basidiis 2-4-sterigmaticis, cystidiis paraphysibusque eformatum; sporæ sphericæ, difformes, aculeatæ.

1. **Elasmomyces Mattirolianus** Cav. l. c. tab. VII. — Peridio glo- 397
boso, globoso-depresso v. anguloso, levi, albo-flavescente, margine tenui, interdum fracto; lamellis obtusis, albis, parum evolutis; gleba e flavo ochracea, lacunis minutis irregularibusque; stipite solido, cylindraco-gibboso, plerumque oblique inserto; basidiis clavato-truncatis; paraphysibus cylindracois brevioribus; cystidiis oblongo-ellipticis, prælongis; sporis spheroides, aculeolatis, luteo-brunneis, aliis 14-15 μ ., aliis 8-9 μ . diam.

Hab. ad terram sub acubus deciduis *Abietis pectinatae* pr. S. Giovanni Gualberto Vallisumbrosæ in Italia.

TYLOSTOMA Pers. — Syll. VII, p. 60, IX, p. 268, XI, p. 159. -
Sec. Masee Grev. XIX, p. 97, genus *Sphæriceps* W. et C., Sacc. Syll. VII, p. 60, est *Battarrea*.

1. **Tylostoma montanum** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 70; 898
Explor. Tun. Illustr. bot. tab. III, fig. 2. — Peridio subgloboso, papyraceo, sursum glabro, deorsum zona scruposo-tomentosa cincto, pallide brunneo, 2 cm. lato, ore scarioso, integro, 1 mm. alto, 2 mm. lato; stipite a peridio discreto et in acetabulum peridii immerso, rufo-brunneo, in squamas latas, glabras diffracto, 5-7 cm. longo, 5-8 mm. crasso, intus albo, basi marginato-bulboso; gleba argillacea; capillitii floccis cylindracois, hyalinis, 5-8 μ . latis; sporis globosis, 5-6 μ . diam., asperulis, ochraceis.

Hab. in sabulosis in Tunisia.

2. **Tylostoma punctatum** Peck, Bull. Terr. Bot. Cl. XXIII, 1896, 899
p. 419. — Peridio subgloboso, basi appanato umbilicatoque, minute et irregulariter punctato, albido; exoperidio supra evanescente, basi persistente; endoperidio papyraceo, firmo, tenaci; ore leviter prominente, minuto, lacerato; stipite cylindræo, obscure squamoso v. rimoso-squamoso, supra sulcato-striato, cavo, subferrugineo, intus albo; sporis pallide ferrugineis, globosis, minute verrucosis, 4-5 μ . latis; capillitii floccis hyalinis, parce ramosis, 8-10 $\frac{1}{2}$ μ . latis, utrinque obtusis v. subtruncatis, interdum incrassatis.

Hab. ad terram sabulosam, Kansas, Amer. bor. (BARTHOLOMEW). — 2 $\frac{1}{4}$ -4 cm. altum; peridium 1 $\frac{1}{4}$ -1 $\frac{1}{3}$ cm. diam.; stipes 5 mm. crassus.

3. **Tylostoma carneum** Pat. Enum. Champ. Tunisie, 1892, p. 6, 900
tab. I, fig. 3. — Peridio globoso v. depresso, albido, 1-1 $\frac{1}{2}$ cm. lato, glabro, basi fulvo-villosa excepta; osculo subprominente, membranaceo, integro; basi peridii appendiculâ membranaceâ villosâ stipitem amplectente; stipite hirsuto, rubro, dein glabro et albo, 5 cm. longo; gleba pallidissima, carneo-rubra; capillitio sub lente incolorato, crasso, ramoso; sporis angulosis, pallidissimis, fulvis, diaphanis, latissime asperulis, sublevibus, 5 μ . diam.

Hab. in sabulosis in Tunisia. — Var. **nanum** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 69; Explor. Tun. Illustr. bot. tab. III, fig. 1. — Peridio subgloboso, 1-8 mm. diam., albido v. plus minus ochraceo, superne glabro, inferne seruposo-villoso, osculo scarioso, integro, valde prominulo; stipite gracili, albido, striato, squamulis nonnullis tecto, 3 mm. crasso, farcto; gleba pallide carnea, gossypina; sporis globoso-angulosis, levibus v. minutissime asperulis, 4-5 μ diam., pallidis; capillitio hyalino, gracili, 5-7 μ . crasso. In sabulosis in Tunisia.

4. **Tylostoma semisulcatum** Peck, Bull. Torr. Bot. Club. 1895, p. 209, 901
— Peridio subgloboso, 20 mm. longo, 13 $\frac{1}{2}$ -18 mm. lato, superne glabro, inferne ferrugineo-tomentoso; ostiolo integro; stipite æquali, circiter 5 cm. longo, glabro v. superne leviter furfuraceo, inferne in longitudine sulcato, albido; sporis ferrugineis, globosis, 4-5 $\frac{1}{4}$ μ . latis; capillitii fibris hyalinis, non septatis.

Hab. ad terram sabulosam, Nevada, Amer. bor.

BATTARREA Pers. — Syll. VII, p. 65, IX, p. 270.

1. **Battarrea Digueti** Pat. et Har. Journ. de Bot. 1896, p. 251, 902

tab. II. — Exoperidio globoso-applanato, subtus profunde depresso, albido, membranaceo, indehiscente, demum plus minus sese destruente et poros irregulariter in superficie dispersos efformante dilacerato, duabus partibus composito, quarum inferiore cum stipite connexa, orbiculari, depresso, altera superiore convexa, cum inferiore intime connexa et ab ea nunquam discreta; volva, seu exoperidio, in superficie endoperidii plus minus persistente et cuticulam cretaceam effingente, ovata, tribus partibus efformata, quarum exteriore cretacea, coriacea, rigida, simplice, media lamellis 10-20, tenuibus, membranaceis, fibrosis, lignicoloribus constituta, interiore concolore 1-1½ mm. circiter crassa, dura, lignosa, vaginæ instar cylindricæ stipitis basim involvente; gleba ochraceo-ferruginea, pulverulenta, capillitium fovente; hyphis e parte depresso inferiore peridii sursum radiantibus, incoloribus, 6-7 μ ., membrana crassa præditis; sporis globosis, ferrugineis, 5-6 μ . crassis, vix asperulis, cum cellulis simplicibus, fusiformibus, incoloribus, 100-150 \times 4-7 μ . annulis luteis signatis immixtis; stipite centrali, 15-20 cm. alto, 8-10 mm. crasso, dilute fulvo, basi usque ad tertiam partem cortice volvæ interiore circumdato, squamoso, dein vetustate nudo, profunde sulcato, cylindrico, basi attenuato, intus cavo et funiculo æquilongo percurso; squamis obscure imbricatis cum stipite concoloribus, aliis pendulis, erectis alteris, scariosis, linearibus.

Hab. ad terram in California (DIGUET).

2. **Battarrea attenuata** Peck, Bull. Torr. Bot. Club. 1895, p. 208. — 903
 Exoperidio incognito; endoperidio 5½ cm. vel ultra lato, parte basali dura, crassa, inferne concavo, superne convexo, dense subreticulato; stipite 12-26 cm. longo, basim versus gradatim attenuato, duro, sublignoso, solido, aspero, apice excepto, squamis explanatis v. reflexis dense obsito, extus brunneo, intus ferrugineo; sporis globosis, ferrugineis, 7-8 μ . latis, capillitii fibris spiralibus non intermixtis.

Hab. ad terram sabulosam, Nevada, Amer. bor.

GEASTER Mich. Syll. VII, p. 70, IX, p. 271, XI, p. 162.

1. **Geaster velutinus** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 904
 1895, p. 38, tab. I, fig. 7. — Mycelio fibroso; exoperidio dense minuteque griseo-pubescente, in segmenta 5-7 acuta dehiscente, strato interiore carnosio tenui solubili, sed persistente; endoperidio globoso, sessili, levi, pallido; osculo conico. ciliato-fimbriato; columella subclavata, centrum attingente; capillitii filamentis pallide

brunneis, 3-6 μ . crassis; sporis globosis, levibus, pallide brunneis, 2 $\frac{1}{2}$ -3 μ . diam.

Hab. ad terram, Columbia Amer. bor. (ATKINSON). — Endoperidium circiter 1 cm. diam.; segmenta 3-4 cm. expansa.

2. **Geaster Hieronymi** P. Henn. Hedw. 1897, p. 211. — Exoperidio 905
coriaceo, sicco rigido involuto, ad medium in 8, rarius 10 laciniis subæquales lanceolatas 1-2 cm. longas partito, extus alutaceo vel fusco, intus subrufescente, rimoso, 4-6 cm. diametro; endoperidio stipitato, ovoideo vel subsphæroideo, 1 $\frac{1}{2}$ -2 $\frac{1}{2}$ cm. diametro, dense asperato, aculeis subulatis vel subpyramidatis, squarrosis vel erectis, atris vestito, peristomio subconico, fimbriato, brunneo; stipite subcylindraceo, 3-6 mm. longo latoque; floccis capillitii fasciatis, subfuscis 3-7 μ . latis; sporis globosis, verrucosis, brunneis, 3 $\frac{1}{2}$ -4 μ .

Hab. ad terram pr. Córdoba Argentinæ (HIERONYMUS).

BOVISTA Dill. — Syll. VII, p. 96, IX, p. 273, XI, p. 164.

1. **Bovista Lauterbachii** P. Henn. in Engl. Jahrb. XVIII, 1894, 906
p. 36 (*Globaria*). — Peridio subsphæroideo, sessili, radicato, papyraceo, persistente, osculo angusto dehiscente, 1-1 $\frac{1}{2}$ mm. diam., squamulis farinosis, acutis, pallidis, secedentibus tecto, dein nudo, isabellino, nitido; capillitio laxo, subincarnato; sporis globosis, levibus, uniguttulatis, pallide incarnatis, longe pedicellatis, 4-5 μ ; pedicello hyalino, 8-11 μ . longo.

Hab. in silvis, Thursday-Island Australiæ.

2. **Bovista monticola** Speg. Contr. Fl. Sierra Ventana. 1896, p. 80. 907
— Parvula e globoso obovata 10-20 mm. alta, 8-16 mm. diam., flaccida, deorsum conico-turbinata, non v. vix plicatula, nodulose radicata; peridio tenuissime papyraceo, tenacello, cinereo-argenteo, sæpe obsolete vageve albo-maculato v. subleproso-furfuraceo, ostiolo, late irregulariterque dehiscente; gleba compactiuscula tabacina parietibus undique arcte adnata; basi sterili nulla; floccis tenuibus, 3-4 mm. crassis; asperulis; sporis globosis, levibus, 4 μ . diam., non v. vix apiculato-subcaudatis, chlorinis.

Hab. ad terram Sierra de la Ventana, Argentina.

3. **Bovista lateritia** Berk. in Herb. n. 4593; Bull. Lab. Nat. Hist. 908
Jowa III, n. 4, 1896, p. 216. — Peridio sessili, arrhizo, mycelio affixo, demum libero, cæspitoso, globoso v. pressione mutua plus minusve compresso, 2-4 cm. diam., glabro, tenaci, persistente, irregulariter aperto, lateritio; capillitio tomentosum, elastico, lateritio, sporis dense repleto: columella nulla; floccis sub lente pallide brunneis

longis, gracilibus, ramosis, 5-6 μ .; sporis rubescentibus, sub lente opacis, globosis, spinulosis, 5-6 $\frac{1}{4}$ μ .

Hab. ad terram in Nicaragua (SMITH).

4. **Bovista cellulosa** Ell. et Ev. Proc. Acad. Philad. 1895, p. 414. 909

— Exoperidio 1-1 $\frac{1}{2}$ mm. crasso, levi; endoperidio depresso-globoso 1-1 $\frac{1}{2}$ cm. diam., coriaceo, extus griseolo, strato melleo favos-celluloso, 1-2 mm. crasso vestito, strato celluloso membrana tenui griseo-lutea tecto; capillitio homogæneo, olivaceo, e floccis simplicibus v. parce ramosis, 3-4 μ . crassis, luteolo-hyalinis composito; sporis numerosis, globosis, leviter asperulis, olivaceis, 3-4 μ diam.

Hab. ad terram, Colorado, Amer. bor. (BAKER). — *B. circumscissæ* proxima.

5. **Bovista limosa** Rostr. Oest-Groenl. Svampe pag. 10. — Peridio 910

sphærico vel globuloso-depresso, brève radiculoso, membranaceo, pusillo, pisi magnitudine, 5-7 mm. diam., argenteo demum cervino, osculo fimbriato, basi radiculoso; cortice evanido maculasque albidas relinquente; capillitio castaneo-fusco, septato usque 7 μ . cr.: sporis flavo-olivaceis, globosis, 5,5-6,5 μ . diam., levibus nucleo centrali lætiori, pedicellatis pedicello 5-6 μ . longo.

Hab. inter muscos, ins. Røde in Groenlandia orient. (N. HARTZ).

CALVATIA Fr. — Syll. VII, p. 105.

1. **Calvatia leiospora** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 911

1895, p. 39, tab. II, fig. 8. — Peridio magno, oblongo-obovoideo, basi crassa subtus plicata, radice tortili; cortice levi, continuo, tenuissimo, fragili, albido, reticulato; endoperidio crassiusculo, fragili, velutino, ochraceo, in maturitate supra mox in fragmenta dehiscente et decidente; subgleba peridii dimidium occupante, supra convexa ochracea; capillitio violaceo v. livido; floccis longissimis, 3 $\frac{1}{2}$ μ . crassis, parce ramosis; sporis globosis, levibus, 3 $\frac{1}{2}$ -4 μ . diam., in cumulo violaceis v. lividis.

Hab. in pascuis, South Dakota Amer. bor. (WILLIAMS). — Peridium 6-9 cm. altum, 4-6 cm. latum.

2. **Calvatia hesperia** Morg. Journ. Cinc. Sc. Nat. Hist. XVIII, 1895, 912

p. 39, tab. II, fig. 9. — Peridio subgloboso v. obovoideo, plus minusve irregulari, 4-8 cm. diam., radice crassa tortili; cortice levi, albo, ab endoperidio non separabili; cortice et endoperidio peridium crassum tenax rigidum, diu persistens, demum dehiscentis formantibus; subgleba obsoleta; capillitio compacto, firmo, sordide flavo, viridi-luteo v. ochraceo; floccis longissimis, vix ramosis, remote se-

ptatis, ad septa facile secedentibus, 4-10 μ . crassis; sporis globosis v. ovalibus, levibus, 4-5 μ . diam., sæpe pedicello minuto fultis, in cumulo viridi-luteis v. ochraceis.

Hab. ad terram sabulosam, California Amer. bor.

LYCOPERDON Tourn. — Syll. VII, p. 106, IX, p. 275. XI, p. 165.

1. **Lycoperdon Rollandii** Pat. ap. Roll. Bull. Soc. Myc. 1898, p. 81, t. IX, 913
f. 7. — Solitarium, albidum, dein fusco-brunneum v. ochraceum. mediocre, obovatum, molle; peridio tenui membranaceo, superne rotundato-hemisphærico, verrucis brunneis, minutissimis, granulosis, simplicibus, confertis punctato, deorsum leviusculo, parce plicato, nitido, albido-fibroso radicante; osculo angusto irregulariter lacerato; gleba absque basi sterili, floccoso-pulverulenta, virescentiflava, dein umbrino-fulva; floccis capillitii longissimis, tenellis, gracilibus; sporis levibus *ovoideis* 5-5,5 \times 4-4,5 minute 1-guttatis, concoloribus.

Hab. ad terram graminosam sub Castanæis prope Corte in ins. Corsica. — Peridium 20 mm. alt., 15 mm. cr. A *Lyc. pusillo* præ ceteris sporis ovoideis diversum.

2. **Lycoperdon oviforme** Pat. Bull. Soc. mycol. 1898, p. 56. — Peridio 914
peridio obovato sursum acuminato, mediocri, albo, basi fibrillis albis, tenuibus, radicante, cortice granulis vel squamulis minutis ochraceis, rufulis dein nigrescentibus formato tecto; strato sterili obsoleto; gleba intense brunnea, pulverulenta; floccis capillitii sporisque æqualiter crassis fusco-brunneis; sporis globosis, levibus, 3-5 μ . diam.

Hab. gregatim inter muscos arborum Mexico. — Peridium 20-25 mm. alt. Affine *Lyc. acuminato* Bosc.

3. **Lycoperdon hanoiense** Pat. Journ. de Bot. 1897, p. 343. — Sparsum 915
sum v. cæspitosum; peridio globuloso v. piriformi, 1-2 $\frac{1}{2}$ cm. alto 8-15 mm. lato, subtus rotundato, circa medium in basim stipitiforem plus minusve plicatam contracto, ex albo griseolo, postremo ochraceo, verrucis minutissimis granulosis flavis tecto ideoque pulverulento v. furfuraceo, osculo minuto apicali irregulari dehiscente; basi sterili distincta, $\frac{1}{2}$ -1 cm.; gleba pulverulenta, fulvo-grisea; capillitii floccis hyalinis, cylindræis, elongatissimis, flexuosis, 4-8 μ . crassis, acutatis; sporis ochraceis ellipticis, subtilissime asperulatis, 4-5 \times 3

Hab. ad terram in Tonkin. — *L. furfuraceo* affine.

4. **Lycoperdon umbrino-fuscum** Pat. Bull. Boiss. 1895, p. 60. — 916
Subglobosum, sessile, 2-4 cm. diam.; peridio membranaceo, deorsum

fusco plumbeo-nitenti, glabro, sursum umbrino, verrucis umbrinis, minutissimis, acutis, dense consperso, osculo angusto dehiscenti, gleba lanosa, fusco-umbrina; sporis globosis, levibus, brunneis, 4-5 μ . diam., hilo minuto suffultis; capillitio ex hyphis brunneis, ramosis, 5-6 μ . crassis composito; basi sterili umbrina, gossypina; bene evoluta.

Hab. ad terram pr. Quito Æquatoriæ (v. LAGERHEIM). — *L. hirtu* et *L. atropurpureo* affine.

5. **Lycoperdon pisiforme** P. Henn. Engl. Jahrb. XXIII, p. 556. — Pe- 917
ridio subovoideo, pisiformi, sessili, persistente, cortice papyraceo, niveo flavescente, subnitente, 3-5 mm. diam.; gleba flava; sporis globosis, 2 $\frac{1}{2}$ -3 $\frac{1}{2}$ μ . diam., episporio levi, hyalino subflavescente; capillitio laxo, hyalino flavescente; mycelio submembranaceo, candido, nitente.

Hab. ad culmos emortuos in Camerunia (ZENKER).

6. **Lycoperdon alpigenum** Ell. et Ev. Proc. Acad. Philad. 1895, p. 414. 918
— 2 cm. circiter diam.; peridio coriaceo, circiter 1 mm. crasso, extus brunneo, supra rimoso-squamuloso; capillitio rudimentali; floccis paucis, 6-10 μ . diam., parce ramosis, luteo-brunneis, exappendiculatis; basi sterili partem tertiam peridii occupante, pallide luteola; sporis globosis, sublevibus, 3 $\frac{1}{2}$ μ . diam., breve pedicellatis.

Hab. ad terram prope trabes, Colorado, Amer. bor. (CRANDALL).

7. **Lycoperdon Bellii** Peck, Bull. Torr. Bot. Club. 1895, p. 209. — 919
Peridio circiter 5 cm. lato, subgloboso, sessili, luteolo v. luteolo-brunneo; peridio exteriori continuo, verrucis numerosis, persistentibus, duris, angulosis, irregularibus v. substellatis, basim versus minoribus ornato, in maturitate a peridio interiore secedente; peridio interiori tenuiore, pallidiore, glabro; capillitii filamentis longis, gracilibus, intricatis, dilute tinctis, interdum ramosis; sporis globosis, olivaceo-brunneis, 6 $\frac{1}{4}$ -7 $\frac{1}{4}$ μ . diam.

Hab. ad terram rupestrem Hudson's Bay, Amer. bor. (MACOUN).

8. **Lycoperdon dryinum** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 920
1895, p. 39, tab. II, fig. 10. — Peridio globoso, sessili, mycelio fibroso; exoperidio tenui, e squamis minutis albis, interdum brunneo-tinctis, in superficie glabra nitida endoperidii in verrucas minutas persistentes brunneas v. nigrescentes mutatis formato; gleba obsoleta; capillitio viridi-luteo, dein brunneo-olivaceo; floccis ramosissimis, sporarum crassitie, ramis longis tenuioribus attenuatis; sporis globosis, levibus, 3 $\frac{1}{3}$ -4 μ . diam., sæpe pedicello minuto fultis.

Hab. ad folia putrida in silvis, Ohio Amer. bor.

9. **Lycoperdon constellatum** Fr., Syll, VII, p. 127. — Var. **groenlandicum** P. Henn. in Allescher et P. Hennings, Pilze aus dem Umanak-distrikt. 1897, p. 2. — Peridio obovoideo, in stipitem brevissimum angustato, 15-18 mm. alto latoque; cortice exteriori areolato, e verrucis paullum elevatis, angulatis, 2-5 mm. diam., aculeis plus minusve numerosis brevissimis obsitis; cortice interiori dein retiformi; capillitio laxo, cinnamomeo, floccis simplicibus, ligulatis, 4-6 μ . crassis; sporis globosis, flavo-brunneolis, 4 $\frac{1}{2}$ -5 μ ., episporio subtiliter punctato; pedicello tenui, hyalino, 5-6 μ . longo, facile deciduo.

Hab. ad terram pr. Karajak-Nunatak Groenlandiæ (VANHÖFFEN). 922

10. **Lycoperdon monstruosum** Arcang. Bull. Soc. bot. Ital. 1896, p. 188. — Peridio 4 cm. lato, circiter 2 cm. alto, inferne late cuneato, superne cruciatim inciso, quadrilobo, cortice crassiusculo, albido, lutescente, irregulariter ruguloso; capillitio molli, umbrino; sporis ovoideis, 5 \times 4, uniguttulatis.

Hab. ad terram, Tun-juen-fan in China.

11. **Lycoperdon longicaudum** P. Henn. Engl. Jahrb. XXIII, p. 556. 923 — Peridio longistipitato, persistente, carnosum, clavatum, turbinatum, vertice late applanato vel concavo (an primitus?), 4-7 cm. lato, cortice papyraceo, atro-olivaceo, levi glabroque; stipite cylindrato, spongioso, farinaceo, 4-7 cm. longo, 1 $\frac{1}{2}$ -2 cm. crasso; capillitio filiformi, flavo-brunneo, levi, 3-4 μ . crasso; sporis globosis, levibus, intus punctulatis, flavo-fuscis, 3 μ . diam.

Hab. in foliis deciduis in Camerunia (ZENKER).

12. **Lycoperdon pampeanum** Speng. Contr. Fl. Sierra Ventana 1896, p. 80. 924 — Parvulum, globoso-depressum, 20-30 mm. diam., 15-25 mm. altum, inferne turbinato-applanatum, puncto minuto vix radicatum, distincte marginatum, superne subhemisphæricum, centro osculo minuto subrotundo perforatum; peridio tenui papyraceo-tenacello, subflaccido, extus obscure sordideque fusco-cinerecente, inferne sæpius pallidiore atque subnitenti, non v. vix subplicato; basi sterili externe etiam manifestissima, late discoideo-lenticulari, 6-10 mm. crassa ad centrum, grosse celluloso-spongiosa fusco-subtabacina, a gleba pellicula plumbea levissima subnitenti divisa; gleba sordide cinereo-fusca, a basi sterili discreta, parietibus peridii plus minusve adnata, flocculoso-gossypina: sporis globosis, 4 μ . diam., levibus, fuscis, ecaudatis.

Hab. in graminosis Sierra de la Ventana, Argentina.

- 13 **Lycoperdon pileolatum** Kalchbr. ap. Mc Alp. Arrang. Austral Fungi 1893, p. 96. — Peridio globoso opaco, dorsum umbrino, concavo, nucis avellanæ magnitudine; stipite exiguo.

Hab. ad terram, N. S. Wales Australiæ.

14. **Lycoperdon pertusum** Berk., Syll. VII, p. 133 et **L. pertusum** Sow., Syll. VII, p. 483, verisimillime speciem unicam (dubiam) respiciunt.

CLAVOGASTER P. Henn. Hedw. 1896, p. 303 cum fig. (Etym. *clavus* et *gaster*, quasi *gasteromyces clavatus*). — Peridium subcoriaceum, persistens e stratis binis discoloribus efformatum, clavatum, stipitatum. Capillitium subfasciatum in cellulas favosas, polyedras; sporis levibus, ellipsoideis, coloratis, pedicellatis. *Hippoperdo* peraffinis.

1. **Clavogaster novo-zelandicus** P. Henn. l. c. — Stipitatus, clavatus; peridio fusiformi, vertice subacutato, longitudinaliter substriato. sicco subrugoso, flavo-olivascens vel brunneo, ca. 2-2½ cm. longo, 1 cm. lato; stipite farcto tereti vel subcompresso, flavo-subaurantiaco, 10-12 mm.; gleba favosa, cellulis numerosis excavatis cinnamomeis, penta- vel hexagonis; sporis ellipsoideis, oblongis, flavis subfuscis levibus, pedicellatis, 13-15 × 7-8, pedicello hyalino, 3-8 μ., longo; floccis hyalinis, fasciatis, 4-8 μ. crassis.

Hab. ad terram Ohampo Novæ Zelandiæ (HÆUSLER). — Habitu externo *Clavariam pistillarem* in mentem revocat.

CORDITUBERA P. Henn. Engl. Jahrb. XXIII, p. 557 c. fig. (Etym. *cor* et *tuber*). — Peridium carnosum, tuberiforme, durum, leve, glabrum, tenuiter corticatum, intus farctum, reticulato-venosum; basidia subclavata, 4-sterigmatica; sporæ globosæ, aculeatæ, hyalino-coloratæ, stipitatæ.

1. **Corditubera Staedtii** P. Henn. l. c. — Peridio carnosum, cordiformi, duro, firmo, medio sulcato, 5 cm. longo latoque, 2-2½ cm. crasso, cortice tenui, levi, glabro, dein meandriformi rimoso, primo pallido, dein sanguineo, intus carnosum, farcto, duro, venoso-reticulato, e pallido rubescens; basidiis subclavatis v. oblongis, 4-sterigmaticis; sporis globosis, dense echinatis, hyalino-fuscescentibus, 9-13 μ. diam.; aculeis 1-1½ μ. longis, sterigmatibus 4-5 μ. longis.

Hab. ad terram in spelunca in Camerunia (STAUDT).

SCLERODERMA Horn. — Syll. VII, p. 134, IX, p. 278, XI, 167.

1. **Scleroderma dictyosporum** Pat. Bull. Soc. Myc. de Fr. 1896, p. 133. 928

tab. IX, fig. 1. — Peridio subgloboso, attenuato, coriaceo, fusco-brunneo, 1 mm. crasso, sursum dense papillis atris, minutis obsito, deorsum breviter radicato; gleba atra, floccis albis marmorata; sporis umbrinis, globosis, 8-12 μ . diam., limbo hyalino, alveolato-reticulato, 2-4 μ . crasso cinctis; floccis hyalinis, mollibus, cylindraceis, rectis v. tortuosis, 3-10 μ . latis, simplicibus vel furcatis.

Hab. ad terram arenosam in Guinea gallica (DYBOWSKI).

2. **Scleroderma pisiforme** P. Henn. Fungi camerun. I in Engl. Jahrb. 929
XXII, 1895, p. 110. — Peridio subcoriaceo-papyraceo, subgloboso v. ovoideo-piriformi, stipitato, sæpe aggregato confluentique, 2-3 mm. diam., aurantiaco, farinaceo-subpunctato; stipite compresso, interdum sulcato, radiato, concolori, e mycelio repente, ramoso, flavo oriente; gleba compacta, brunneo-violacea, deinde atra; floccis subhyalinis; sporis globosis, primo levibus, subflavis, 1-guttulatis, deinde dense aculeato-verrucosis, atrorufis, 6-7 μ .

Hab. ad terram sub foliis, Kamerun (ZENKER et STAUDT).

PELLORINA Berk. — Syll. VII, p. 145, IX, p. 279, XI, p. 167.

1. **Phellorina Saharæ** Pat. et Trab. Bull. Sac. Myc. de Fr. 1896, 930
p. 151, tab. X. — Peridio globoso-depresso, 7 cm. lato, omnino levi, glabro, coriaceo-membranaceo, fragili, pallide rufo (in sicco); stipite erecto, 7-8 cm. longo, 12 mm. crasso, subcylindraceo, basi bulboso, squamis rigidis parce vestito, corneo-rigido, undique farcto; gleba ochracea, capillitio subnullo; sporis globosis, levibus, pallidissime ochraceis, 5-6 μ . latis.

Hab. ad terram ad Fort Lallemand Saharæ.

Fam. 4. Hymenogastraceæ VITT.

OCTAVIANIA Vitt. — Syll. VII, p. 158, IX, p. 280, XI, p. 169.

1. **Octaviana Hesseana** Sacc. et Syd. Sic. nominanda est *Octaviana mutabilis* Hesse, Sacc. Syll. XI, p. 169, quum exstet præcedens *O. mutabilis* Roum., Sacc. Syll. VII, p. 159.

RHIZOPOGON Fr. — Syll. VII, p. 161, IX, p. 280, XI, p. 170.

1. **Rhizopogon Rodwayi** Mc. Alp. Agr. Gaz. Sydney. 1895, p. 11, 931
Novbr. p. 4, fig. 1-5. — Oblongus, tuberiformis, irregularis, atrobrunneus, 4 cm. longus, 2-2½ cm. latus; peridio gelatinoso, hyalino; mycelii fibrillis inferne radiciformibus tenuibus, superne

ramosis, applicatis, superficiem peridii in sectiones mycelio delicato albo limitatas, dividendibus; gleba compacta, ochracea; cellulis numerosis, minutis, sinuosis; basidiis longis, irregularibus, cylindraceis; sporis 6 in quoque basidio, levibus, hyalinis, ellipticis, $3 \approx 1$.

Hab. sub terra. Tasmania Australiæ (RODWAY).

GAUTIERA Vitt. — Syll. VII. p. 177.

1. *Gautiera Otthii* Trog ap. Otth Mitth. natur. Gesell. Bern., p. 43. — 932

Peridio subrotundo, 2-3 cm. diam., basi radícula prædita; loculis numerosis elongatis, sinuosis, minutis, sed sub vitro debili conspicuis, æqualiter sparsis etiam peripherice; sporis ovoideis, brunneis, minute granuloso-guttulatis; odore debili, non grato.

Hab. ad terram in Hardlisberg Helvetiæ (ORTH).

UREDINACEÆ Brongn.

Syll. VII, p. 449, IX, p. 282, XI, p. 174.

Sect. 1. Amerosporæ

UROMYCES Link — Syll. VII, p. 531, IX, p. 291, XI, p. 174.

1. **Uromyces obscurus** Diet. et Holw. Bot. Gaz. 1897, p. 24. — *Æci-* 933
diis hypophyllis, sparsis, epidermide tectis, dein erumpentibus, pseudoperidiis carentibus, applanatis, aurantiacis; æcidiosporis flavescensibus, globosis v. ellipticis, 17-25 \times 17-20, levibus; uredosporis in soris atris intermixtis, amphigenis; uredosporis globosis v. ellipticis, 20-30 \times 20-25, subferrugineis, echinulatis; teleutosporis ellipticis, ovatis v. globosis, 27-38 \times 23-27, castaneis, apice late et pallide brunneo-papillatis v. cucullatis; pedicello caduco, teleutosporam æquante vel eam superante.

Hab. in foliis, pedunculis caulibusque vivis Phaseoli, Cuernavaca, Tula et Guadalajara, Mexico (HOLWAY).

2. **Uromyces splendens** Blytt, Christiania Vid. Selsk. Forh. 1896, 934
n. 6, p. 39. — *Æcidiis* præsertim in foliorum pagina inferiore, sæpe supra totam superficiem æqualiter distributis, iis *U. lapponici* fere duplo majoribus; spermogonia, quæ in *U. lapponico* adsunt, in hac specie desunt; æcidiosporis 19-21,6 \times 13,5-16,2, iis *U. lapponici* majoribus; teleutosporis soros sparsos parvos rotundatos in utraque foliorum pagina formantibus, rotundatis v. ovali-ellipticis, 21,6-27 μ . latis, levibus v. versus apicem subscabris, breviter pedicellatis.

Hab. in foliis Astragali oroboidis, Dovre, Norvegia.

3. **Uromyces tenuistipes** Diet. et Holw. Bot. Gaz. 1897, p. 25. — 935
Soris minutis, hypophyllis, sparsis, maculas rubras in pag. superiore formantibus; soris uredosporiferis brunneis; uredosporis globosis v. ellipticis, 21-24 \times 18-22, pallide brunneis, echinulatis; soris teleutosporiferis nigris; teleutosporis plerumque globosis, 22 μ . diam., episporio crasso, apice minute depresso, vix incrassato; pedicello longissimo, tenui, caduco.

Hab. in foliis vivis *Desmodii* spec., Esclava Mexico (HOLWAY).

4. **Uromyces orbicularis** Diet. Hedw. 1897, p. 28. — Maculis flavis, 936
orbicularibus; pseudoperidiis hypophyllis, 3-20 dense gregariis cupuliformibus, margine recto; æcidiosporis globosis v. late ellipticis, 17-20 μ . diam., minute verrucosis; soris teleutosporiferis epiphyllis, æcidiis oppositis, minutis, circulariter dispositis, confluentibus, castaneis; teleutosporis ellipticis v. ovoideis, rarius globosis, verrucosis, castaneis, apice papilla lata conica ornatis, 20-28 \approx 18-21, pedicello hyalino caduco suffultis.

Hab. in foliis vivis *Desmodii* speciei cujusdam, Serra Geral Brasiliæ (ULE).

5. **Uromyces mexicanus** Diet. et Holw. Bot. Gaz. 1897, p. 24. — 937
Soribus hypophyllis v. cauliculis; maculis inconspicuis, fuscis v. flavis, sæpe nullis; soribus uredosporiferis sparsis vel irregulariter aggregatis, cinnamomeo-fuscis; uredosporis late ellipticis v. globosis, 18-23 \approx 17-21, pallide fuscis, echinulatis; soribus teleutosporiferis pulvinatis, atris, nudis, in foliis parvis, in pedunculis caulibusque majoribus et elongatis; teleutosporis ovatis, raro subglobosis, apice incrassatis, sæpe conico-mamillatis, 23-30 \approx 18-22, levibus, castaneis; pedicello hyalino, tenui, usque ad 100 μ . long., basim versus attenuato.

Hab. in foliis, pedunculis caulibusque vivis *Desmodii* cujusdam, Mexico (HOLWAY).

6. **Uromyces rostratus** P. Henn. Hedw. 1896, p. 227. — Soribus hy- 938
pophyllis, sparsis, rotundato pulvinatis ochraceis vel subcinnamomeis ca. 1 mm. diametro, epidermide papillato-velata cinctis; teleutosporis subclavatis vel oblongis, hyalinis vel pallide flavescens, 26-35 \times 13-18, apice apiculato-rostratis, rostro usque ad 10 μ . longo, curvulo vel recto, hyalino, episporio levi, hyalino vel subfuscido; pedicello tenui, hyalino curvato vel recto, 15-28 \approx 2-3.

Hab. in foliis vivis *Eriosematis* pr. Rio de Janeiro Brasiliæ (ULE).

7. **Uromyces albus** (Clint.) Diet. et Holw. Hedw. 1897, p. 297. — 939
Æcidium album Clint. in Peck 26 Rep. St. Mus. p. 76. Ellis, North Amer. Fungi n. 1431. — Maculis nullis; pseudoperidiis sparsis, brevibus, altis, margine subintegro; æcidiosporis subglobosis, circiter 20 μ . diam., hyalinis; soribus teleutosporiferis cauliculis, minutis, oblongis, epidermide tectis, atris; teleutosporiferis ovoideis subglobosis v. irregularibus, 27-35 \approx 19-27, episporio subtilissime punctato-striolato, apice modice incrassato, castaneo indutis, breviter pedicellatis.

Hab. in foliis caulibusque vivis *Viciæ americanæ*, Buffalo (CLINTON), Nipigon River (ELLIS), Mariposa Co. (BLASDALE) Amerbor.

8. **Uromyces Johowii** Diet. et Neg. Engl. Jahrb. XXII, p. 349. — 940

Æcidiiis amphigenis, solitariis vel paucis consociatis. maculis flavescentibus insidentibus, minutis, 0,4 mm. latis, 0,3 mm. altis; pseudo-peridiis pertis, margine reflexo, caduco, albido; æcidiosporis intense flavis, polyhedricis v. oblongis, 22-28 × 20-22, membrana hyalina, subtiliter verrucosa præditis; soris teleutosporiferis epiphyllis per totam foliolorum superficiem sparsis, minutis, pulveraceis, obscure fuscis; teleutosporis ellipticis v. globosis, 33-40 × 24-30, castaneis, apice mitra plerumque clariore ornatis, verruculosi; pedicello brevi, hyalino, caduco.

Hab. in foliis vivis *Viciæ nigricantis* pr. Concepcion et in valle a latere fluminis Biobio sita, Chile (NEGER).

9. **Uromyces Neurocarpi** Diet. Hedw. 1895, p. 292. — Soris maculis 941

rufobrunneis insidentibus, amphigenis, minutis, solitariis v. paucis aggregatis; soris uredosporiferis brunneis; uredosporis globosis v. ovoideis, 25-31 × 20-26, luteo-brunneis, echinulatis; teleutosporis ovoideis usque fusiformibus, utrumque angustatis, levibus, pallide brunneolis, membrana tenui, 28-45 × 13-19, pedicello sporam subæquante. hyalino.

Hab. in foliis *Neurocarpi cajanifolii* Bahia, Brasilia.

10. **Uromyces foveolatus** Juel, Bih. K. Svenska Vet.-Akad. Handl. 942

XXIII, Afd. III, n. 10, 1897, p. 16 extr. tab. IV, f. 29, 30. — Soris minutis, amphigenis, sparsis, maculas non formantibus, uredosporiferis castaneis, teleutosporiferis atris; uredosporis rotundatis, 26 × 22, membrana flavo-brunnea aculeolata, poris 4 æquatorialibus instructa; teleutosporis rotundatis, circiter 22 μ . diam. vel ellipsoideis, membrana crassa obscure castanea, foveolis minutis ubique creberrime impressa, apice modice incrassata.

Hab. in foliis *Bauhiniaë*, Cuyaba, Matto Grosso in Brasilia (MALME).

11. **Uromyces Bauhiniaë** P. Henn. Hedw. 1895, p. 90. — Maculis fu- 943

scis v. obsolete; soris amphigenis, minutis, sparsis v. gregariis confluentibusque, atris, pulverulentis; uredosporis subglobosis v. ellipsoideis, flavo-fusculis, 18-26 × 16-26, episporio aculeato; teleutosporis intermixtis, subglobosis, ovoideis v. ellipsoideis, atrocastaneis, breviter pedicellatis, 21-26 × 18-23, intus granulatis; episporio sublevi, 4-5 μ . crasso; pedicello brevi, hyalino.

Hab. in foliis vivis Bauhinie, Prov. Minas Gerês Brasilie (ULE). — Differt ab *Uromycete Dieteliano* Pазschke sporis vertice non incrassatis.

12. **Uromyces goyazensis** P. Henn. Hedw. 1895, p. 89. — Caulicola; 944
 soris gregariis, confluentibus effusisque pulvinato-explanatis, pulverulentis, castaneis; teleutosporis piriformibus, ellipsoideis v. ovoideis, levibus, vertice non incrassatis nec papillatis, rotundato-obtusis, brunneis, 18-30 \times 16-24, pedicello gracili, hyalino, usque ad 80 μ . longo, 4-5 μ . crasso.

Hab. in ramis inflorescentiæ Bauhinie pr. Meiaponte Brasilie (ULE).

13. **Uromyces Glycyrrhizæ** (Rabh.) Magn.-Syll. IX, p. 292. — Var. 945
argentina P. Henn. Hedw. 1896, p. 227. — Soris hypophyllis sparsis pustulatis, dein epidermide rupta cinctis, subcinnamomeis; uredosporis subglobosis minute verrucosis, læte brunneis, 25-30 \times 23-28; teleutosporis intermixtis, oblongis, ellipsoideis, ovoideis vel subglobosis, læte brunneis, apicè interdum incrassatis, minute papillatis vel sublevibus, 28-35 \times 24-22, episporio 2-3 μ . crasso, rufo-brunneo; pedicello brevi, fragili, hyalino.

Hab. in foliis caulibusque vivis Glycyrrhizæ astragalinae, Prov. de Mendoza Argentinae (KURTZ).

14. **Uromyces ellipticus** Diet. et Neg. Engl. Jahrb. XXII, p. 350. 946
 — Spermogoniis per totam inferiorem paginam foliorum dispersis, ovoideis v. conoideis, circiter 0,12 mm. latis; soris uredosporiferis eadem distributione qua spermogonia, mediocribus, confluentibus, castaneis; uredosporis globosis, 28-33 μ . diam., flavo-brunneis, echinulatis; teleutosporis late ellipticis vel ovoideis, 28-36 \times 25-29, apicè papilla lata, humili, concolore ornatis, episporio minute reticulato castaneo præditis; pedicello brevi, fragili.

Hab. in foliis vivis Glycyrrhizæ astragalinae variis locis reipublicæ chilensis (NEGER).

15. **Uromyces elegans** (Berk. et Curt.) Lagh. Ured. herb. Fries. 1895, 947
 p. 34, *Æcidium elegans* B. et C., in Ravenel, Fung. Carol. n. 188; *Uromyces Trifolii* Har. Urom. Lég. p. 12 ex p. — Æcidiis hypophyllis, sparsis, cupuliformibus, brevibus, ore recurvato; æcidiosporis angulato-rotundatis, 16-18 μ . diam., membrana tenui, achroa, æquabili crassitudine, verruculosa, contentu aurantiaco; soris uredosporiferis et teleutosporiferis hypophyllis, sparsis, non confluentibus, parvis, obscure brunneis, pulveraceis; uredosporis ovoideo-rotundatis, circiter 22 μ . diam., membrana tenui, pallide

luteola, aculeata, ad poros germinationis quaternos leniter incrassata; teleutosporis basi lata ovoideis, 24-28 \times 16-20, membrana æquali crassitudine, fusca, cymatiis longitudinalibus (ut in *U. striato* Schröt.) ornata, pedicello hyalino, caduco.

Hab. in foliis vivis Trifolii Caroliniani in S. Carolina Amer. bor. (RAVENEL).

16. **Uromyces clavatus** Diet. Hedw. 1897, p. 27. — *Æcidiiis* in acervulos irregulares dense gregariis, pseudoperidiis margine subintegrò, albo; *æcidiosporis* irregulariter polyhedricis vel oblongis, 20-25 \times 13-20, minute verrucosis; soris uredosporiferis minutis, sparsis, cinnamomeis; uredosporis globosis vel late ellipticis 23-29 \times 21-25, membrana crassa, flavo-brunnea, breviter echinulata et poris germinationis numerosis manifestis perforata præditis; soris teleutosporiferis mediocribus, pulvinatis, firmis, cinnamomeis vel albentibus; teleutosporis clavatis vel fusiformibus, pallide fuscis, levibus, membrana tenui, apice pallidiore et in formam papillæ incrassata indutis, 32-45 \times 15-20, statim post maturitatem germinantibus; pedicello valido, ca. 40 μ . longo.

Hab. in foliis, caulibus atque calycibus *Lathyri magellanici*, Prov. Serra Geral Brasiliæ (ULE).

17. **Uromyces chilensis** Diet. et Neg. Engl. Jahrb. 1897, p. 154. — *Æcidiiis* confertis, in acervulos irregulares rotundatos v. oblongos in foliorum pagina inferiore et in cirris congestis, margine reflexo, inciso, flavo; *æcidiosporis* ellipticis v. polyhedricis, 21-27 \times 19-22, subtiliter verrucosis, aurantiacis; soris uredosporiferis amphigenis, sparsis, minutis, epidermide rupta cinctis, cinnamomeis; uredosporis subglobosis v. late ellipticis, 30-33 \times 27-30, episporio 3-3½ μ . crasso, castaneo, echinulato et poris 8-10 perforato instructis. Status teleutosporiferus adhuc ignotus.

Hab. in foliis vivis *Lathyri magellanici* et *L. multicipitis* in Chile (NEGER). — Uredosporis majoribus a speciebus affinis diversus.

18. **Uromyces Arachidis** P. Henn. Hedw. 1896, p. 224. — Maculis subflavis vel nullis; soris amphigenis gregariis vel sparsis, minutis, ochraceis, primo epidermide inflata tectis dein liberis; teleutosporis subglobosis, ellipsoideis vel ovoideis, læte brunneis, 22-28 \times 20-26, episporio cinnamomeo, tenui sublevi vel minute verrucoso; pedicello fragili, hyalino, brevi.

Hab. in foliis *Arachidis hypogææ* in Surinam (WEIGELT).

19. **Uromyces Cajaponiæ** P. Henn. Hedw. 1896, p. 226. — Soris hy-

prophyllis sparsis, rotundato-pulvinatis, cinnamomeis, pulverulentis, 1-1,5 mm. diam. teleutosporis subglobosis vel late ellipsoideis, brunneis, 28-36 \times 26-32, raro 36-40 μ ., episporio atrocinnamomeo, dense verrucoso, 3-4 μ . crasso.

Hab. in foliis Cajaponiæ in prov. St. Catharina Brasilæ (ULE).

20. **Uromyces rosicola** Ell. et Ev. Americ. Natur. 1897, p. 427. — 952

Soris teleutosporiferis hypophyllis, castaneis, totam foliorum paginam inferiorem occupantibus confluentibusque. primo epidermide tectis, mox nudis: teleutosporis globosis v. obovatis, 20-35 μ . long. diam., episporio crasso, grosse tuberculoso; pedicello firmo, sporam æquante.

Hab. in foliis Rosæ Fendleri in Nebraska Amer. bor. (BATES).

- 21 **Uromyces quitensis** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 213. — 953

Soris hypophyllis, nervincolis, parvis, confluentibus, epidermide non tectis, firmis, aurantiacis, maculis magnis luteis insidentibus; sporis fusiformibus, 60-66 \times 12-16, apice et basi attenuatis, membrana achroa, tenui, levi, apice non incrassata, contentu aurantiaco; pedicello hyalino persistenti.

Hab. in foliis Rubi sp. pr. Quito in Æquatoria.

22. **Uromyces Lagerheimii** Sacc. et Syd. *Uromyces andinus* Pat. Bull. 954

Soc. Myc. de Fr. 1895, p. 213, nec Magn. — Soris hypophyllis, subcongregatis, minimis, aurantiacis, epidermide non tectis; uredosporis rotundatis, 21-27 μ . diam., membrana achroa, echinulata, contentu aurantiaco; teleutosporis claviformibus, apice obtusis, 45-51 \times 12-18, quam primum germinantibus, membrana achroa, levi, apice incrassata, contentu aureo; pedicello hyalino, brevi

Hab. in foliis Rubi sp. pr. Quito in Æquatoria.

23. **Uromyces Shiraianus** Diet. et Syd. Hedw. 1898, p. 213. — Soris 955

amphigenis sparsis, minutis, nudis pulveraceisque; uredosporis ellipticis, apice acuminatis, 35-48 \times 21-30, castaneis, lineis spiralibus e verrucis compositis ornatis; teleutosporis lenticulari-sphæroideis v. disciformibus, 25 μ . longis, 32-37 μ . latis. episporio opaco-brunneo verrucoso indutis, pedicello ca. 30 μ . longo hyalino suffultis.

Hab. in foliis Rhodis silvatici, Tokyo Japoniæ (SHIRAI). —

U. brevipedis valde affinis, sed præcipue uredosporis mox dignoscitur.

24. **Uromyces Mulini** Schroet. Hedw. 1896, p. 224, Engl. Jahrb. 1897, 956

p. 154. — Æcidiiis in parvos acervulos in pagina inferiore foliorum congestis; pseudoperidiis ex epidermide crateris modo sublevata erumpentibus, deciduis; æcidiosporis irregulariter polyhedricis

24-30 \times 24-48, minute verrucosis; soris uredosporiferis amphigenis, pulvinatis oblongis primo epidermide tectis, vesiculosus dein pulverulentis cinnamomeis; uredosporis ellipsoideis vel ovòideis, 24-35 \times 22-26, episporio incrassato ochraceo, aculeato; soris teleutosporiferis atro-brunneis; teleutosporis subglobosis vel ovoideis, vertice rotundatis, 28-34 \times 24-30; episporio atrocastaneo, vertice incrassato, levi; pedicello usque ad 30 μ . longo, ad apicem brunneolo, persistente.

Hab. in foliis vivis *Mulini integrifolii*, Prov. de San Juan pr. Las Caves Argentinae (ECHEGARAY), in fol. *Mulini spinosi* et *Azorellæ* spec. in Chile (NEGER).

25. **Uromyces Scleranthi** Rostr. Bot. Tidsskr. 1897, p. 40. — Soris 957
sparsis minutis, orbicularibus v. oblongis, dilute fuscis, diu epidermide tectis; uredosporis flavo-fuscis, globosis, 15-22 μ . diam. vel oblongis, 24-25 \times 18-20, episporio spinuloso instructis; teleutosporis raris, uredosporis immixtis, piriformibus v. oblique ellipsoideis, rufo-fuscis, apice papilla lata incrassatis, 23-24 \times 19-24, pedicello hyalino deciduo fultis.

Hab. in caulibus, foliis calycibusque *Scleranthi* perennis in Jütlandia Daniae.

26. **Uromyces Suksdorffii** Diet. et Holw. Erythea 1895, p. 77. — Soris 958
amphigenis sparsis, minutis, atro-brunneis, pulverulentis; uredosporis ellipticis, dense verrucosis, brunneis, 25-28 \times 18-20; teleutosporis ellipticis, obovatis v. sphaericis, aureo-brunneis, dense verrucosis, apice papillatis 25-32 \times 23-25, pedicello brevi caduco fultis.

Hab. in foliis *Silenis Oreganæ*, Washington Amer. bor. (SUKSDORFF).

27. **Uromyces pulchellus** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 57. 959
— Soris teleutosporiferis sparsis v. circinatis, plerumque hypophyllis, minutis, $\frac{1}{2}$ mm., nudis, subatris; teleutosporis obovatis v. ellipticis, demum castaneis, 22-26 \times 18-22, episporio levi, crassiusculo, apice rotundato modice incrassato; pedicello 35-50 μ . longo, firmo, hyalino.

Hab. in foliis petiolisque *Silenes?* spec., Washington Amer. bor.

28. **Uromyces Melandryi** Diet. et Neg. Engl. Jahrb. 1897, p. 154. — 930
Æcidiis solitariis v. in acervulos mediocres consociatis, maculis flavis insidentibus; pseudoperidiis tubiformibus, usque ad 1 mm longis; *æcidiosporis* aurantiacis, polyhedricis, ellipticis v. subglobosis, 18-25 \times 15-20, subtiliter verrucosis; soris uredosporiferis amphige-

nis, solitariis v. circulariter circa sorum centralem dispositis, minutis, epidermide fissa cinctis, cinnamomeis, pulveraceis; uredosporis ellipticis, 25-33 \times 23-28, brunneis, densissime minuteque verruculosis; soris teleutosporiferis eadem distributione qua uredosporiferi, atris, circularibus, $\frac{1}{6}$ -1 mm. diam.; teleutosporis ellipticis, globosis v. ovoideis, 28-40 \times 22-29, castaneis, apice incrassatis (6-9 μ .), pedicello firmo, longissimo, usque ad 120 μ ., hyalino suffultis.

Hab. in foliis petiolisque vivis *Melandryi cucubaloidis* in alta Cordillera, Chile (NEGER).

29. **Uromyces Lychnidis** Tracy et Earle Proc. Californ. Acad. V, 961
1895, p. 729. — Maculis indefinitis; pseudoperidiis hypophyllis, irregulariter aggregatis, brevibus, irregulariter rumpentibus; æcidiosporis irregulariter subglobosis, 15-18 μ . diam., episporio levi, contenu dilute luteo; soris uredosporiferis et teleutosporiferis amphigenis, plerumque epiphyllis, sparsis, subrotundis, nigris v. obscure brunneis, epidermide rupta cinctis; uredosporis globosis, dilute luteis, minute echinulatis, 12-14 μ . diam.; teleutosporis ovatis, obscure brunneis, in longitudine rugosis, circiter 15-20 μ ., episporio apice non incrassato; pedicello sporam æquante, hyalino, fragili.

Hab. in foliis *Lychnidis Drummondii*, Utah Amer. bor.

30. **Uromyces Gypsophilæ** Cke., Sacc. Syll. VII, p. 577 (Diagn. in- 962
compl.). — Uredosporis plus minusve ovatis, episporio verrucoso, membrana pallida, 15-30 \times 10-18, 2 poros gerentibus; soris teleutosporiferis hypophyllis v. cauliculis, orbicularibus, confluentibus, opulentissime pulverulentis, atro-fuscis, magnis; teleutosporis subglobosis, intense fuscis, 25-27 μ . (15-25 \times 13-20), episporio verruculoso; pedicello evanido.

Hab. in foliis caulibusque *Gypsophilæ paniculatæ*, Cherson Rossicæ.

31. **Uromyces Galphimiæ** Diet. et Holw. Bot. Gaz. p. 25. — Soris 933
amphigenis, parvis, sparsis, nudis; soris uredosporiferis cinnamomeis; uredosporis obovatis v. ellipticis, 28-36 \times 22-32, membrana pallide fusca, breviter echinulata, contenu aureo; soris teleutosporiferis atris; teleutosporis ovatis, ellipticis v. subglobosis, apice minute obtuseque attenuatis, 35-45 \times 23-33, episporio castaneo, dense verrucoso, apice incrassato; pedicello teleutosporam superante caduco.

Hab. in foliis vivis *Galphimiæ Humboldtianæ*, Guadaluajara, Mexico (HOLWAY).

32. **Uromyces Asperulæ** Mc Alp. Agr. Gaz. Sydney. VI, 1896, p. 2, 964

fig. 1-3. — Soris uredosporiferis minutis, bullatis, per epidermidem erumpentibus, fuliginis, hypophyllis; uredosporis globosis, subglobosis v. ovatis, echinulatis, aurantiacis, 20-22 \times 17-20; soris teleutosporiferis cauliculis, elongato-ovalibus, atro-brunneis, confluentibus, epidermidem rumpentibus; teleutosporis flavo-brunneis usque castaneis, levibus, pedicellatis, ovalibus, ovatis, ellipticis v. late clavatis, apice valde incrassatis rotundatisque, 28-36 \times 14-17; pedicello longo, persistente, hyalino, 30-45 μ . longo.

Hab. in foliis et caulibus *Asperulæ oliganthæ*, Victoria Australia.

33. **Uromyces tener** Schroet. Hedw. 1896, p. 225. — Maculis fuscis, 965 rotundatis; soris teleutosporiferis hypophyllis plerumque orbiculariter dispositis, punctiformibus atris, pulvinatis; teleutosporis ellipticis subglobosis, ovoideis vel piriformibus, 20-25 \times 12-16, vertice rotundatis, episporio pallide ochraceo, levi, 2 μ . crasso, pedicello persistente, 25 μ . longo, 2,5 μ . crasso, hyalino vel subfuscido.

Hab. in foliis *Manettiæ gracilis*, Serra de Oratorio Brasiliæ (ULE).

34. **Uromyces Borreriæ** P. Henn. Hedw. 1896, p. 227. — Soris hypo- 966 vel epiphyllis in maculis brunneis vel fuscis irregularibus, minutis, pulvinatis, ochraceis diutius tectis; uredosporis subglobosis vel ovoideis, brunneis, 20-28 \times 17-25, episporio minute verrucoso; teleutosporis subglobosis vel ovoideis sæpe acutangulis, apice rotundato-obtusis vel applanatis atro-brunneis, 21-28 \times 17-24, episporio atro-castaneo subverrucoso, pedicello brevi, subhyalino vel brunneo, 5-6 μ . crasso.

Hab. in foliis vivis *Borreriæ verticillatæ* Rio de Janeiro Brasiliæ (ULE).

35. **Uromyces Werneræ** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 212. — 967 Soris maximis, amphigenis, primo epidermide tectis, demum liberis, castaneis vel atro-fuscis, pulveraceis; teleutosporis magnitudine variabili, 24-48 \times 21-39, rotundatis, ovoideis v. piriformibus, membrana fusca, apice plerumque paulo incrassata, subtilissime tuberculata; pedicello fragili.

Hab. in foliis *Werneræ nubigenæ*, Chimborazo Equatoris.

36. **Uromyces Helichrysi** Lagh. in Sydow, Uredineen n. 159. — Hy- 968 pophyllus vel caulicola; soris maculis purpureis insidentibus, epidermide non tectis, in cæspitulum aggregatis, convexis, compactis, fuscis; teleutosporis ovoideis, obtusis v. acuminatis, membrana ful-

va, vertice incrassata, levi, 24-30 18-22; pedicello longo, firmo, pallide flavo.

Hab. in foliis caulibusque vivis Hélichrysi Stœchadis in montibus Cevennes Galliæ (LAGERHEIM).

37. **Uromyces Bidentis** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 213. 369

— Soris hypophyllis, sparsis, parvis, epidermide non tectis, firmis, pallide fuscis; teleutosporis ovoideo-oblongis, apice papilla hyalina auctis, 40-54 \times 15-20, membrana luteola, levi, tenui, contentu achroo, pedicello hyalino, persistenti.

Hab. in foliis Bidentis andicolæ pr. Quito in Æquatoria.

38. **Uromyces Asteris** Mc Alp. Agr. Gaz. Sydney. 1895 n. 11 Novbr. 970

p. 5, fig. 6. — Soris teleutosporiferis hypophyllis, pulvinatis, sparsis; teleutosporis ovalibus, irregulariter piriformibus v. spathulatis, pedicellatis, pallide luteis, apice apiculatis, leviter incrassatis, 39-51 \times 19-24, episporio levi, pallide luteo, 1 $\frac{1}{3}$ μ : crasso; pedicello brevi, pellucido.

Hab. in foliis Asteris argophylli, Tasmania Australiæ.

39. **Uromyces araucanus** Diet. et Neg. Engl. Jahrb. 1897, p. 155. 971

— Soris maculis circularibus 5-10 mm. latis, flavis v. brunneis insidentibus, hypophyllis, rarissime epiphyllis, mediocribus, dense aggregatis, epidermide diu tectis; teleutosporis obovatis v. piriformibus, rarius globosis v. clavatis, 30-45 \times 19-30, episporio læte brunneo, apice modice (ca. 5 μ .) incrassato, levi indutis, pedicello dilute fusco, firmo, usque ad 70 μ . longo instructis.

Hab. in foliis vivis Senecionis Otitis in Andibus chilensibus (NEGER).

40. **Uromyces dubiosus** P. Henn. Hedw. 1895, p. 91. — Soris am- 972

phigenis in maculis fuscis orbiculariter dispositis, gregariis atrobunneis; uredosporis subglobosis, ovoideis v. ellipsoideis, flavo-brunneis, dein brunneo-fuscis, 23-26 \times 20-24, episporio castaneo dense, aculeato, 2-3 μ . crasso; teleutosporis subglobosis v. late ellipsoideis, subcastaneis, levibus, 25-33 \times 22-28, episporio castaneo, levi, 3-5 μ . crasso, rarissime pedicellatis; pedicello brevi, hyalino.

Hab. in foliis vivis Lantanæ spec. in ditone fluvium Corumba prov. Goyaz Brasilæ (ULE).

41. **Uromyces Heliotropii** Svedinski in Issatschenko, Parasit. Pilze 973

Gouv. Cherson. 1896, p. 229. — Soris sporiferis parvis, rotundatis, ferrugineis, cauliculis et hypophyllis, epidermide tectis, demum epidermide lacerata cinctis; uredosporis globosis v. piriformibus, aculeatis, pallide-flavis, 20-28 \times 15-20; teleutosporis globosis v.

sphæroideis, castaneo-brunneis, episporio plus minusve atro-brunneo, 20-28 \times 15-20; pedicello hyalinulo, fragili.

Hab. in foliis caulibusque *Heliotropii europæi*, Cherson Rossia.

42. *Uromyces Solani* Diet. et Holw. Bot. Gaz. 1897, p. 24. — Soris ⁹⁷⁴

hypophyllis in maculis parvis flavis, sparsis, minutis, nudis; uredosporis obovatis, 23-33 \times 18-21, pallide fuscis, echinulatis; poris germinationis 4, æquatorialibus; teleutosporis clavatis v. anguste ovatis, basi in pedicellum angustatis, apice plerumque rostratis, 30-48 \times 10-17, levibus, pallide castaneis, apice hyalinis.

Hab. in foliis vivis *Solani appendiculati*, Cuernavaca, Mexico (HOLWAY).

43. *Uromyces Myrsines* Diet. Hedw. 1897, p. 26. — Maculis magnis ⁹⁷⁵

usque 1 cm. diam., rotundatis, brunneis, arescentibus, margine elevato, sæpe flavo-areolatis; soris hypophyllis minutis, dense gregariis, firmis, nudis vel periphericis epidermide cinctis, fuscis vel cinnamomeis; teleutosporis ovoideis vel clavatis, 23-35 \times 13-20, membrana flavo-brunnea, apice hyalina incrassataque, levi indutis; pedicello firmo, eadem longitudine vel duplo longiore quam teleutosporæ.

Hab. in foliis vivis duarum specierum *Myrsines* in Brasilia (ULE).

44. *Uromyces giganteus* Diet. Hedw. 1897, p. 26. — Soris hypophyllis ⁹⁷⁶

mediocribus, rotundatis, nudis, planis, ochraceis; teleutosporis clavatis, apice rotundatis, 50-95 \times 20-45, membrana levi pallide flavescenti, apice valde (20-35 μ .) incrassata instructis, pedicello firmo, ca. 50 μ . longo suffultis.

Hab. in foliis *Convolvulaceæ* cujusdam ignotæ in provincia Minas Geraes Brasiliæ (ULE).

45. *Uromyces echinodes* (Kze.) P. Henn. Hedw. 1897, p. 213, *Cæoma* ⁹⁷⁷

echinodes Kze. in Herb. Berol. — Maculis sanguineis, sparsis gregariisque; soris hypophyllis $\frac{1}{2}$ -1 mm. diametro, cinnamomeis, pulvinatis, subpulverulentis; teleutosporis globosis, ellipsoideis vel ovoideis, flavo-brunneis vel fusco-brunneis, 24-32 \times 20-28, episporio usque ad 4-7 μ . crasso, aculeis acutis, hyalinis, 3-3 $\frac{1}{2}$ μ . longis ornato; pedicello hyalino, 5-6 μ . crasso, brevi, fragili.

Hab. in foliis vivis *Asclèpiadaceæ?* in Surinam.

46. *Uromyces Demetrianus* Pазschke, Hedw. 1895 p. (101). — Sine ⁹⁷⁸

maculis; soris amphigenis, plerumque hypophyllis, uredosporiferis cinnamomeis, teleutosporiferis fuscis, epidermide fissa cinctis; ure-

idiosporis cinnamomeis, globosis v. ellipsoideis, aculeatis, 21-27 \times 17-22; teleutosporis brunneis, ellipsoideis, verrucosis. 23-28 \times 18-20, pedicello fragili, 25-35 μ . long. suffultis.

Hab. in foliis vivis Apocyni cannabini in America bor. (DEMETRIO).

47. **Uromyces Cunninghamianus** Barel., Syll. IX, p. 293 — f. **somalensis** P. Henn. Ann. del R. Istit. bot. di Roma VI, Fasc. 2, p. 85. 979
— Maculis incrassatis, rufo-limitatis; æcidiiis amphigenis caulicolisque; pseudoperidiis aggregatis, cupulatis applanatis, flavis; æcidiosporis subglobosis ovoideis v. ellipsoideis, acutangulis, levibus, flavescentibus, intus granulosis, 16-18 \times 13-17, contextu cellulis reticulato-verrucosis, hyalinis, oblongis v. subrotundatis, 15-28 \times 13-20; soris teleutosporiferis cauliculis sæpe intra æcidia pulvinatis, elongato-effusis, dense gregariis, cucurbitariiformibus, atro-cinnamomeis; teleutosporis clavatis ovoideis v. ellipsoideis apice incrassatis, obtusis, interdum gibbosis, flavo-brunneis, 25-45 \times 20-28, episporio brunneo, pedicello subbrunneo usque ad 100 μ . elongato, 8 μ . crasso.

Hab. in foliis, petiolis caulibusque Jasmmini spec. prope Duaga in Somalia.

48. **Uromyces circumscriptus** Neg. Anal. de la Univers. Santiago 1895, p. 4; Hedw. 1897, p. 213, Engl. Jahrb. XXII, p. 350. — 980
Acervulis amphigenis; pseudoperidiis solitariis vel in circulos interdum incompletos 1-2 mm. latos dispositis, margine denticulato, recto vel paululum recurvato; æcidiosporis ellipticis v. polyhedricis, 33-40 \times 26-35, in Oxycantho 25-32 \times 20-30, episporio incolorato, minute sed distincte verrucoso præditis; soris teleutosporiferis parum elevatis, solitariis, vulgo circulo æcidiorum cinctis, primo tectis, mox liberis et epidermide recta ut vallo circumdatis; pulveraceis, rufis; teleutosporis ellipticis, clavatis v. oblongis, 30-40 \times 18-24, membrana crassa flavo-brunnea apice paulo incrassata et clariore, levi v. minute verrucosa præditis; pedicello brevi, fragili, 6-15 \times 4-5.

Hab. in foliis vivis Loranthi verticillati, Sternbergiani, tetrandri pr. San Juan Chile (NEGER) et Oxycanthi spicati in insula Trinidad.

49. **Uromyces Manihotis** P. Henn. Hedw. 1895, p. 90. — Soris in 981
pedunculis, caulibus, floribus foliisque evolutis, gregariis, pulvinatis, oblongis v. rotundatis, plerumque effuso-confluentibus, atris, primo epidermide rupta cinctis, dein liberis, pulverulentis; teleu-

tosporis oblongis v. ovoideis, levibus, brunneis, 30-45 \times 18-30, vertice interdum lateraliter pallidiore papillatis v. rostratis, rostro usque ad 10 μ . longo, subobtusos, episporio castaneo, levi, 7-8 μ . crasso; pedicello hyalino v. subflavescente usque ad 120 μ . longo, 7-9 μ . crasso.

Hab. in fere omnibus partibus Manihotis spec. pr. Goyaz Brasiliæ (ULE).

50. **Uromyces manihoticola** P. Henn. Hedw. 1895, p. 90. — Soris 982
teleutosporiferis hypophyllis, punctiformibus, sparsis, minutis, epidermide rupta cinctis, fusco-ochraceis; teleutosporis late ellipsoideis, levibus, apice pallidiore, subpapillatis v. rotundato-obtusis, atrobunneis, 24-30 \times 24-28, episporio levi, 8 μ . crasso; pedicello hyalino, subclavato, 10-20 \times 8-10.

Hab. in foliis Manihotis spec. in prov. Goyaz Brasiliæ (ULE).

51. **Uromyces Jatrophæ** Diet. et Holw. Bot. Gaz. 1897, p. 25. — 983
Maculis flavis, irregulariter marginatis vel nullis; soris teleutosporiferis hypophyllis, atris, parvis, sparsis v. irregulariter confluentibus; teleutosporis globosis v. late ellipticis, dense verrucosis, castaneis, apice fusco-papillatis, 27-33 \times 23-29; uredosporis ellipticis, 21-25 \times 17-22, membrana hyalina atque verrucosa; pedicello sporam æquante, caduco.

Hab. in foliis vivis Jatrophæ multifidæ, Guadalajara, Mexico (HOLWAY).

52. **Uromyces Cnidoscoli** P. Henn. Hedw. 1895, p. 90. — Soris am- 984
phigenis, gregariis v. sparsis, $\frac{1}{2}$ - $\frac{1}{3}$ mm. diam., minutis, punctiformibus, atris, in maculis rotundatis, flavescentibus, epidermide rupta cinctis, pulverulentis; teleutosporis subglobosis, poro medio, granulatis, brunneis, 25-30 \times 23-28; episporio verrucoso-echinato, 2-3 μ . crasso, castaneo; pedicello brevi, fragili, hyalino, 12-14 \times 5-6.

Hab. in foliis vivis Cnidoscoli vitifolii pr. Goyaz Brasiliæ (ULE).

53. **Uromyces Uleanus** Diet. Hedwigia 1897, p. 27. — Pseudoperidiis 985
per totam foliorum paginam inferiorem dispersis, margine albo, recurvato, lacerato, caduco; æcidiosporis polyhedricis, subglobosis, rarius ellipticis, 15-20 \times 15-18, minute verrucosis; soris teleutosporiferis amphigenis, mediocribus (0,5-2 mm.), sparsis, primo epidermide vesiculosa tectis, mox liberis, pulveraceis, fuscis; teleutosporis ovoideis vel globosis, 20-25 \times 18-22, flavo-brunneis, longitudinaliter striatis, apice papilla hyalina ornatis, pedicello fragili instructis.

Hab. in foliis duarum specierum *Euphorbiæ* in Brasilia (ULE).

54. **Uromyces tinctoriicola** P. Magn. Verhandl. z. b. Ges. Wien 1896, 986 p. 429, tab. VII, fig. 18-23. — *Æcidiis* hypophyllis, interdum totum folium obtegentibus, sparsis v. gregariis; soris teleutosporiferis hypophyllis; teleutosporis globosis v. ovalibus, 22-25 \times 21-22, verrucosis, apice poro germinationis incrassato; uredosporis non visis.

Hab. in foliis vivis *Euphorbiæ tinctoriæ* in Kurdistania assyriaca (BORNMÜLLER).

55. **Uromyces natalensis** P. Magn. Ber. Deutsch. Bot. Ges. 1896, 987 p. 374. — Soris hypophyllis rotundatis congestis, atro-brunneis; teleutosporis apice incrassatis ibique poro germinationis præditis 20 $\frac{1}{2}$ -27 \times 15 $\frac{1}{2}$ -20 $\frac{1}{2}$, episporio punctulato-verrucoso nec striolato tectis, pedicello hyalino brevi deciduo fultis.

Hab. in foliis *Euphorbiæ Guëinzii*, Natal Africae austr. — Ab affini *U. scutellato* tantum teleutosporarum episporio punctulato-verrucoso recedit.

56. **Uromyces globosus** Diet. et Holw. Bot. Gaz. 1897, p. 23. — 988 Soris hypophyllis, mediocribus, sparsis, interdum gregariis, nudis, nigris, pulverulentis; teleutosporis sphaericis, 30-36 μ . diam. vel late ovatis et 40 μ . metientibus, opacis, atro-brunneis, dense verrucosis, apice dilutioribus, flavo-brunneis, pedicello sporam superante, caduco, hyalino, 10-12 μ . lato; uredosporis paucis visis, ovatis, 36 μ . longis, breve aculeatis, apice incrassatis, brunneis, basim versus dilutioribus.

Hab. in foliis *Euphorbiaceæ* cujusdam, Cuernavaca Mexico (HOLWAY).

57. **Uromyces Quinchamalii** Neger, Anal. de la Univ. Santiago Chile 989 1896, XCIII. p. 779. — *Æcidiis* seriatim dense aggregatis; pseudoperidiis margine irregulariter denticulatis, 300 μ . altis, 300 μ . diam.; *æcidiosporis* obscure aurantiacis, subtilissime verruculosus v. sublevibus, 20 μ . diam.; soris uredosporiferis raris, sparsis, cauli et foliis insidentibus; uredosporis globosis, 20-30 μ . diam.; teleutosporis fusco-castaneis, obovoideis, rarius oblongis v. globosis, minute verrucosis, 25-40 \times 25-30, pedicello hyalino, 5-8 μ . longo.

Hab. in *Quinchamali* majore in Chile.

58. **Uromyces Salsolæ** Reich.-Sacc. Syll. VII, p. 574 (Diagn. in- 990 compl.) — Soris uredosporiferis rufo-ferrugineis, cauliculis et hypophyllis, ovatis, parvis, convexis; uredosporis sphaeroideis, 15-22 \times 11-15, aculeatis, pallide brunneis.

Hab. in foliis caulibusque Salsolæ Kali, Cherson Rossicæ.

59. **Uromyces Costi** P. Henn. (sub *Ur. Dichorisandræ* P. Henn.) 991

Hedw. 1895, p. 91. — Maculis flavis, irregulariter orbicularibus; soris hypophyllis dense gregariis, orbiculariter dispositis, cinnamomeis, minutis, punctiformibus, pulverulentis; teleutosporis subglobosis v. subovoideis, flavo-brunneis, levibus, 21-25 × 18-23, pedicello brevi, hyalino, episporio brunneo, 5-6 μ . crasso.

Hab. in foliis vivis Costi pumili (non *Dichorisandræ*) pr. Goyaz Brasiliæ (ULE).

60. **Uromyces Gladioli** P. Henn. Hedw. 1895, p. 326. — Maculis epi- 992

phyllis, brunneis, oblongis; soris hypophyllis, striiformibus, interdum confluentibus, epidermide velata, cinerea tectis, deinde nudis, cinnamomeis; sporis subglobosis, ovoideis v. subclavatis, acutangulis, levibus, brunneis, apice depresso-obtusis, valde incrassatis, 30-38 × 15-25; pedicello hyalino, interdum fuscidulo, usque ad 30 μ . longo, 4-5 μ . crasso.

Hab. in foliis Gladioli angusti in Africa australi.

61. **Uromyces Tricorynes** Mc Alp. Agr. Gaz. Sydney. 1895, n. 11 993

Novbr. p. 5, fig. 7-9. — Pseudoperidiis in maculis amphigenis pallidis insidentibus, minute pulvinatis, cupulatis, margine albo irregulariter lacerato, reflexo; æcidiosporis aurantiacis, subglobosis v. polygonalibus, levibus, 20 × 17; soris uredosporiferis in maculis pallide viridibus insidentibus, amphigenis, lateritiis v. aurantiacis, elongato-ovalibus v. ellipticis, bullatis, solitariis v. gregariis, non confluentibus, primo papillatis, demum epidermide rupta cinctis; uredosporis aurantiacis, sphaericis v. subsphaericis, subtiliter echinulatis, poris germinationis 4 v. pluribus oppositis, episporio crasso, 20-23 μ . diam.; soris teleutosporiferis in maculis rubescenti-brunneis insidentibus, elongatis confluentibusque, amphigenis; teleutosporis variis, ovalibus, ovatis v. subglobosis, flavo-brunneis v. castaneis, interdum hyalinis, levibus, apice incrassatis, rotundatis, 25-31 × 20-25; pedicello persistente v. caduco, pallide luteo, brevi v. longissimo, 59 μ .

Hab. in foliis caulibusque vivis *Tricorynes elatioris*, Victoria Australiæ.

62. **Uromyces Chlorogali** Diet. et Holw. Erythea 1893, p. 248. — 994

Amphigenus; æcidiis solitariis, minutis, fissura pseudoperidii oblonga dehiscens; æcidiosporis globosis v. lato ovatis, subtiliter verrucosis, membrana hyalina, 31-40 μ . diam.; soris teleutosporiferis irregulariter sparsis, primo epidermide tectis, mox nudis, globo-

sis v. irregularibus, brunneis; teleutosporis globosis, ovatis v. irregularibus, tenue tunicatis, apice non incrassatis, levibus, fuscis, 30-40 \approx 25-35; pedicello 30 μ ., caduco.

Hab. in foliis vivis *Chlorogali pomeridiani*, Berkeley in California (BLASDALE).

63. **Uromyces Tritelleiæ** Diet. et Neg. Engl. Jahrb. 1897, p. 153. — 995

Æcidiis solitariis, raro nonnullis seriatim aggregatis, amphigenis; pseudoperidiis vix prominentibus, oblongis, ore longitudinaliter fisso et irregulariter denticulato, albo præditis; æcidiosporis ellipticis, oblongis v. irregulariter polyhedricis, 21-28 \approx 16-21, aurantiacis, episporio tenui, subtiliter verrucoso indutis; soris teleutospo-
riferis circularibus, ellipticis v. striiformibus, $\frac{1}{2}$ -3 mm. longis, sparsis, epidermide plumbea inflata diu tectis, postea fissura longitudinali dehiscens, pulveraceis, castaneis; teleutosporis ellipticis v. ovoideis, 23-30 \approx 17-22, fuscis, apice papilla hyalina instructis, levibus, pedicello brevissimo, caduco suffultis.

Hab. in foliis scapisque vivis *Tritelleiæ porrifoliæ* pr. Concepcion in Chile (NEGER).

64. **Uromyces bicolor** Ell. et Ev. Contrib. U. S. Nat. Herb. IV, p. 231 996

et in Bull. Torr. Bot. Cl. 1897, p. 282. — Æcidiis amphigenis, apices foliorum occupantibus, dense sparsis; pseudoperidiis hemisphæricis initio clausis, dein erumpentibus apertis, $\frac{3}{4}$ mm. diam., margine denticulato; æcidiosporis obovatis, ellipticis v. subglobosis, 22-30 \approx 15-20, levibus; soris uredosporiferis minutis, $\frac{3}{4}$ -2 mm., oblongis v. ellipticis, mox nudis, dilute luteis; uredosporis ellipticis, levibus, pallidis, membranaceis, 20-30 μ . crassis; soris teleutospo-
riferis punctiformibus nigris, dense gregariis vel confluentibus ac $\frac{3}{4}$ -1 $\frac{1}{2}$ mm. longis, $\frac{1}{2}$ -1 mm. latis, persistenter epidermide velatis; teleutosporis obovatis v. piriformibus, 20-30 \approx 15-22, pallide brunneis, episporio levi apice vix incrassato præditis; pedicello brevi, 15-25 μ . longo, hyalino, caduco.

Hab. in foliis vivis *Allii validi* et *A. rigidi*, California.

65. **Uromyces aterrimus** Diet. et Holw. Erythea 1895, p. 78. — 997

Soris uredosporiferis ovalibus v. circularibus, epidermide straminea tectis; uredosporis ellipticis v. ovoideis, 25-34 \approx 20-27, pallide flavis, echinulatis, poris germinationis compluribus; soris teleutospo-
riferis indefinitis, confluentibus, piceis, uredosporos circumdantibus; paraphysibus multis, brunneis; teleutosporis ellipticis, 28-40 \approx 20-30, levibus, apice vix v. non incrassatis, brunneis, pedicello tenui sporam subæquante fultis.

Hab. in foliis *Allii validi* et *A. unifolii* in California.

— *U. ambigu* et *U. bicolori* affinis, sed paraphysibus numerosis ac teleutosporis majoribus distincta species.

66. **Uromyces rhynchosporicola** P. Henn. Hedw. 1896, p. 226. — 998

Soris amphigenis, striiformibus sæpe confluentibus, atrocinnamomeis, longitudinaliter rimosis epidermide rupta cinctis; teleutosporis subglobosis ovoideis vel ellipsoideis, sæpe acutangulis, intus flavis dein fusco-brunneis 15-23 \times 14-19; episporio subhyalino vel fuscido, verruculoso, ca. 3 μ . crasso.

Hab. in foliis vivis *Rhynchosporæ* spec. in Brasilia (ULE).

67. **Uromyces galericulatus** Schroet. Hedw. 1896, p. 225. — Soris 999

striiformibus ca. 2 mm. longis, epidermide vesiculosa tectis, atrobunneis; uredosporis ellipsoideis vel elongato-ovoideis, 26-35 \times 18-21, episporio brunneo, aculeato; teleutosporis ovoideis vel subfusoides, 33-46 (plerumque 36-40) \times 16-20, apice rotundato, valde incrassato, episporio brunneo, levi; pedicello 20-35 \times 5-6, pallide brunneolo.

Hab. in foliis *Scirpi maritimi*, Sierras Pampeanas pr. Carhué Argentinae (LORENTZ).

68. **Uromyces minutus** Diet. Bull. Cornell Univ. III, n. 1, 1897, p. 21. 1000

— Soris uredosporiferis hypophyllis, minutis, punctiformibus v. elongatis, epidermide rupta cinctis, cinnamomeis; uredosporis ellipticis v. sphaericis, 15-19 \times 11-15, brunneis, spinulosis; soris teleutosporiferis hypophyllis, minutis, punctiformibus v. elongatis, nudis, nigris; teleutosporis ovalibus v. piriformibus, 20-25 \times 10-17, episporio levi, brunneo, apice incrassato instructis; pedicello persistente, sporam superante.

Hab. in foliis *Caricis* spec., Auburn, Alabama Amer. bor.

69. **Uromyces Caricis- sempervirentis** Ed. Fisch. Bull. l'Herb. Boiss. 1001

1898, p. 17; *Uromyces Dietelianus* Fisch. Bull. l'Herb. Boiss. 1897, p. 393, nec Pazschke. — Soris uredosporiferis minutis, diu epidermide tectis; uredosporis dilute brunneis, globosis v. ellipsoideis, 24-28 \times 21, aculeis hyalinis minutis late vestitis, poris germinationis 2 vel 3; soris teleutosporiferis minutis; teleutosporis brunneis, forma variis, 20-35 \times 20-24, levibus, episporio 2-3 μ . crasso, apice plerumque papilla 3-6 μ . alta pallidiore coronato; pedicello hyalino, sporam æquante vel eam superante.

Hab. in foliis vivis *Caricis sempervirentis* in Helvetia.

70. **Uromyces caricinus** Ell. et Ev. Bull. Torr. Bot. Club 1895, p. 58. 1002

— Soris sparsis, oblongis, $\frac{1}{2}$ -1 mm. longis, $\frac{1}{3}$ mm. latis, epider-

mide luteola tectis, non confluentibus; uredosporis teleutosporis immixtis, ovatis v. ellipticis, pallidis, tuberculoso-echinulatis, 20-22 \times 14-16; teleutosporis obovatis, deorsum pallidis, apice rotundatis v. saepe distincte hyalino-papillatis, episporio levi, apice valde incrassato et obscure tincto, 19-23 \times 14-16; pedicello luteolo, sporas æquante.

Hab. in foliis v. culmis Caricis scopariæ, New York, Amer. bor.

71. **Uromyces Ægopogonis** Diet. et Holw. Bot. Gaz. 1897, p. 25. — 1003

Soris hypophyllis, raro epiphyllis; soris uredosporiferis oblongis v. linearibus, ochraceis; uredosporis plerumque globosis v. subglobosis, 20-24 μ . diam., pallide fuscis, echinulatis, poris germinationis 8; soris teleutosporiferis atris, ellipticis v. sublinearibus, pulvinatis; teleutosporis æqualibus, globosis, 22-27 μ . diam., castaneis, levibus, apice calyptratis (5-7 μ .) atque obscurioribus; pedicello fusco, firmo, longo.

Hab. in foliis vivis Ægopogonis cenchroidis pr. Mexico (HOLWAY). — *U. Peckiano* affinis, sed teleutosporis globosis diversus.

72. **Uromyces minimus** Davis, Bot. Gaz. 1894, p. 415. — Hypophyllis 1004

lus; soris uredosporiferis dilute brunneis, oblongis v. linearibus, mox nudis; uredosporis globosis v. ovalibus, dilute brunneis, echinulatis, 12-19 μ . diam.; soris teleutosporiferis nigris, oblongis v. linearibus; teleutosporis brunneis levibus, sphæroideo-ovalibus v. oblongis, 14-22 \times 12-19, vulgo 17-20 \times 15-17, apice rotundatis, conicis v. interdum truncatis, crassissime incrassatis, pedicello colorato 20-40 μ . longo fultis; paraphysibus coloratis clavatis.

Hab. in foliis Muhlenbergiæ silvaticæ in Wisconsin Amer. bor.

73. **Uromyces Epicampis** Diet. et Holw. Bot. Gaz. 1897, p. 23. — 1005

Soris epiphyllis, linearibus, nudis; soris uredosporiferis flavo-brunneis; uredosporis plerumque globosis, 28-32 μ . diam., dense aculeatis; poris germinationis numerosis, per totam superficiem sparsis; soris teleutosporiferis atro-brunneis; teleutosporis globosis v. ovatis, apice interdum conicis, 26-35 \times 20-26, castaneis, episporio tenui, apice obscuriore ibique valde (5-7 μ .) incrassato; pedicello firmo, 60-100 μ . longo.

Hab. in foliis vivis Epicampis macrouræ, Esclava Mexico (HOLWAY).

74. **Uromyces marginatus** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, 1006

156. — Soris orbicularibus, hypophyllis, in macula brunnea

obscura prominente margine limitata, e substantia desiccata folii composita; teleutosporis pallide flavis, 18-29 \times 10 $\frac{1}{2}$; pedicellis 29 \times 4 $\frac{1}{2}$.

Hab. in foliis indeterminatis, Costa-Rica.

75. **Uromyces inconspicuus** Otth, Bern. Mittheil. 1868, p. 69. — 1007

Maculis vix ullis; cæspitulis punctiformibus, atris, oligosporis, hypophyllis; sporis nigro-fuscis, ellipsoideis, levibus, 32 \times 18, apiculo nunc minutissimo, hyalino, verruciformi, nunc plane nullo; stipite hyalino, brevissimo, vix diametro longiore.

Hab. in foliis Chenopodii, Alchemillæ, Galeopsidis, Fragariæ, Polygoni, Cannabidis, Solani, Amaranti in Helvetia. — Quid sit hæc species pantogena non liquet, certe dubia res.

76. **Uromyces pachycephalus** Neger, Anal. de la Univ. Santiago 1895, p. 3 extr. est *Uromyces Hyperici-frondosi* Schw.

MELAMPSORA Cast. — Syll. VII, p. 586, IX, p. 296, XI, 183.

1. **Melampsora Lini** (DC.) Tul.-Syll. VII, p. 588. — Var. **Viscosi** Vogl. 1008

Bull. Soc. bot. Ital. 1896, p. 38. — Soris uredosporiferis sparsis, aurantiacis, rotundatis, pseudoperidio deciduo obtectis; uredosporis ovoideo-oblongis, luteolis, 22-30 \times 14-16; soris teleutosporiferis explanatis, subatris; teleutosporis cylindræis, 55-70 \times 20-22.

Hab. in foliis vivis Lini viscosi in Helvetia italica.

2. **Melampsora Ruspoliana** P. Henn. Ann. del R. Istit. di Roma VI, 1009

Fasc. 2, p. 85. — Maculis flavis v. fusciscentibus irregularibus; soris uredosporiferis amphigenis sparsis v. gregariis rotundatis, applanatis, alutaceis v. pallide ochraceis, ca. $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; uredosporis subgloboso-ovoideis v. oblongis, acutangulis intus flavescentibus subgranulatis, 18-28 \times 14-25, episporio incrassato granuloso-subaculeato, hyalino, 5-6 μ . crasso; paraphysibus intermixtis clavatis v. capituliformibus longe stipitatisque subhyalinis, 30-45 μ . longis, 14-28 μ . latis; teleutosporis ignotis.

Hab. in foliis vivis Vernoniæ sp. pr. Ueb Karenli in Somalia.

3. **Melampsora Pedicularis** Vogl. Bull. Soc. bot. Ital. 1896, p. 38. 1010

— Soris uredosporiferis rotundatis, elevatis, hypophyllis, liberis, exiguis, badiis; uredosporis elliptico-oblongis v. ovatis, aculeatis, aurantiacis, episporio crasso, hyalino, 16-20 \times 10-14; paraphysibus numerosis, oblongo-clavatis, curvatis, 55-60 \times 15-18; soris teleutosporiferis minutissimis, sæpe confluentibus, epiphyllis, primo avelaneis, demum fuliginis; teleutosporis late cylindræis v. cunea-

tis, unilocularibus, umbrinis, intus granulosis, episporio tenui, levi, jam in matrice viva germinantibus, $28 \approx 16$; sporidiolis globosis, luteis, circiter 12μ diam.

Hab. in foliis *Pedicularis verticillatæ* in Helvetia.

4. **Melampsora Apocyni** Tranzschel apud Issatschenko Parasit. Pilzè 1011
Gouv. Cherson. 1896, p. 237. — Soris teleutosporiferis hypophyllis, irregularibus, pulvinatis, primo rufis, dein crustas atrofuscas efformantibus; teleutosporis (intercellularibus, unilocularibus) cylindraceo-prismaticis, deorsum angustatis, episporio dilute fusco præditis, circiter $40 \approx 7-13$.

Hab. in foliis *Apocyni veneti*, Cherson Rossia.

5. **Melampsora Gelmii** Bres. Bullett. della Soc. bot. italiana 1897, 1012
p. 75. — Hypophylla; soris uredosporiferis in greges circulares dispositis, raro solitariis; uredosporis subglobosis v. rarius ellipticis, laxe et subtiliter aculeatis, membrana crassa hyalina, contentu stramineo, $21-24 \approx 16-21$; paraphysibus clavatis, apice $16-18 \mu$ latis; soris teleutosporiferis rotundatis, interdum confluentibus, generatim orbiculariter dispositis, badio-nigris; teleutosporis unicellularibus, subcylindraceis, basi tenuiter attenuatis, apice truncatis, luteo-fulvellis, $50-80 \approx 9-12$, basi pediculo septato, sæpe duobus teleutosporis communi, $15-16 \approx 6-7$ præditis.

Hab. in foliis vivis *Euphorbiæ dendroidis* in insulis Corfu (GELMI) et Sardinia et in Alpibus maritimis Gallia (VIDAL).

6. **Melampsora Euphorbiæ-dulcis** Otth, Bern. Mittheil. 1868, p. 70. — 1013
— Hypophylla; soris aggregatis badiis impolitis; teleutosporis flavido-brunneis, breviter et crassiuscule cylindricis sive e mutua pressione subprismaticis, invicem arcte cohærentibus; uredosporis ut in *M. Euphorbiæ* (DC.).

Hab. In foliis *Euphorbiæ dulcis* in Helvetia. — Verisimiliter var. *M. Helioscopia*.

7. **Melampsora Idesiæ** Miyabe Bot. Mag Tokyo XI, 1897, p. 45, 1014
tab. IV, fig. 1-3. — Soris uredosporiferis hypophyllis, subrotundis, minutis, sæpe confluentibus; uredosporis globosis, ovatis v. oblongis, $18-26 \approx 15-16$, echinulatis, contentu aurantiaco; paraphysibus numerosis, $50-70 \approx 16-26$, capitatis v. clavatis, hyalinis v. leviter luteolo-brunneis; soris teleutosporiferis hypophyllis, compactis, brunneolis, applanatis; teleutosporis intercellularibus, cylindraceis, $30-45 \approx 7-11$, apice truncatis v. obliquis, contentu luteolo-brunneo.

Hab. in foliis *Idesiæ polycarpæ* pr. Tokyo Japonia (HORI).

8. **Melampsora Reticulatæ** Blytt, Christiania Vid. Selsk. Forh. 1896, 1015
n. 6, p. 65. — Soris uredosporiferis rotundatis, sat parvis, hypophyllis; uredosporis aculeatis, globularibus v. ovalibus, 17-27 μ .; paraphysibus numerosis, majoribus quam in aliis speciebus, circiter 86 μ . longis, apice 30-35 μ . latis, capitato v. clavato-incrassatis, pariete usque ad 6-7 μ . crasso; soris teleutosporiferis epiphyllis, sat parvis, atro-brunnei; teleutosporæ 40 \approx 11.

Hab. in foliis vivis Salicis reticulatæ in Finmarkia, Nordlandia, alpibus Dovrensibus.

9. **Melampsora alpina** Juel, Ofversigt af Kongl. Vet.-Akad. Förhandl. 1016
1894, n. 8, p. 417. — Soris uredosporiferis minutis, plerumque epiphyllis, sparsis; uredosporis subglobosis v. breve ellipsoideis, c. 18 \approx 15, aurantiacis, spinulosis; paraphysibus apice crasse tunicatis, 30-35 μ . longis; soris teleutosporiferis amphigenis, minutis, tandem nigro-brunneis, ut in *Mel. farinosa*, sed subcutanee evolutis.

Hab. in foliis Salicis herbacæ in regione alpina Norvegiæ et Sueciæ, in fol. S. polaris ad Doore Norvegiæ.

10. **Melampsora Fagi** Diet. et Neg. Engl. Jahrb. XXII, p. 355. — 1017
Soris uredosporiferis hypophyllis, minimis, sparsis, nudis, primo læte aurantiacis, deinde albidis; uredosporis ellipticis v. ovoideis, rarius globosis, 18-24 \approx 15-19, episporio verrucoso hyalino præditis; paraphysibus nullis; soris teleutosporiferis epiphyllis, crustiformibus, confluentibus et sæpe totum folium obtegentibus, rufis; teleutosporis cylindræo-prismaticis, usque ad 80 μ . longis, 9-15 μ . latis, plerumque transverse uniseptatis, episporio apice incrassato, fusco.

Hab. in foliis vivis Fagi obliquæ et proceræ per magnam partem reipublicæ chilensis (NÆGER).

PHACOPSORA P. Diet. Ber. Deutsch. Bot. Ges. 1895, p. 333 (Etym. *phacos* lens et *psora* pustula). A *Melampsora* præcipue teleutosporis stratosi in corpus lentiforme conjunctis recedit.

1. **Phacopsora punctiformis** (Barcl. et Diet.) Diet. l. c.; *Melampsora punctiformis* Barcl. et Diet. Hedw. 1891, p. 267, tab. XV, fig. 2 et Sacc. Syll. IX, p. 297.

Hab. in foliis, quæ flavescunt, Galii Aparines, Simla Indiæ.

2. **Phacopsora Ampelopsidis** Diet. et Syd. Hedw. 1893, p. 217. — 1018
Soris hypophyllis, maculis fuscis insidentibus; soris uredosporiferis minutissimis usque 250 μ . latis, paraphysibus clavatis introrsum curvatis densissime circumdati et intermixtis; uredosporis obovatis v. ellipsoideis, 18-22 \approx 13-15, episporio achroo, echinulato præ

ditis; soris teleutosporiferis crustaceis, plerumque soros uredosporiferos solitarios ambientibus, fuscis, minutis, sparsis, applanatis, usque 80 μ . crassis, epidermide tenui tectis; teleutosporis catenatis 4-6 superpositis apice haud incrassatis, 10-25 \times 8-12, oblongis v. cubicis, superficialibus subfuscis, reliquis pallide-flavescentibus.

Hab. in foliis *Ampelopsidis leeoïdis*, Tokyo Japoniæ (M. SHIRAI).

UREDINOPSIS P. Magn. — Syll. XI, p. 230.

1. **Uredinopsis Struthiopteridis** Störmer. Botan. Notiser 1895, p. 81. 1019
— Uredosporis ovoideis v. fusiformibus, vertice apiculo acuto præditi, 30-55 \times 12-18, una serie aculeorum obsessis, alibi levibus; soris teleutosporiferis punctiformibus, pseudoperidio tectis; teleutosporis unicellularibus ovoidec-polyhedricis, angulosis, pallide brunneolis, tenuiter verrucosis, pedicellis longis caducis suffultis, 27-40 \times 16-23; teleutosporis entoparenchymaticis hyalinis, subglobosis, 2-4-cellularibus, 16-24 \times 16-23; sporidiolis globosis.

Hab. in foliis *Struthiopteridis germanicæ* in Suecia.

SCHROETERIASTER P. Magn. Ber. d. Deutsch. Bot. Ges. 1896, p. 129, tab. IX. (Etym. ab ill. mycologo J. SCHROETER). — Genus novum in *Uromycete alpino* conditum. Differt a genere *Uromycete* teleutosporis sessilibus, in stratum lentiformem connatis.

CHACONIA Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII, Afd. III, n. 10, 1897, p. 12 extr. (Etym. a regione «Gran chaco» reipublicæ austro-americanæ Paraguay). — Teleutosporæ e cellulis basalibus successive enatæ, non pedicellatæ, unicellulares, membrana tenui præditæ, statim germinantes, promycelio apicali brevissimo, quadricellulari, sporidiola gignentia. Spermogonia, æcidia, uredo ignota.

1. **Chaconia alutacea** Juel. l. c. — Maculis supra pallidis parum distinctis, subtus alutaceis rotundatis, 3-4 mm. latis; soris hypophyllis, minutis, punctiformibus v. linearibus, sæpe confluentibus et quasi labyrinthiformibus alutaceis; teleutosporis oblongis, sacciformibus, dilutissime coloratis, circiter 50 \times 15; sporidiolis ovoideis v. subglobosis, 9 \times 6. 1020

Hab. in foliis *Calliandræ Harrisii*, Gran Chaco Paraguay (LINDMAN).

CRONARTIUM P. Henn. — Syll. VII, p. 597, IX, p. 298.

1. **Cronartium usneoides** P. Henn. Hedw. 1895, p. 95. — Maculis 1021
rotundatis, fusco-brunneis, amphigenis; columellis teleutosporarum
cæspitosis, plerumque hypophyllis, raro epiphyllis, longissimis, fi-
liformibus, cirratis, flexuosis, usneiformibus, simplicibus, luteolis,
usquæ ad 3 cm. longis, ca. 100 μ . crassis; teleutosporis oblongis,
utrinque rotundatis, flavis, 25.45 \times 11-16.

Hab. in foliis *Conyzae* spec. in prov. Goyaz Brasilæ
(ULE).

2. **Cronartium Bresadoleanum** P. Henn. Pilz. Ostaf. p. 51. — Co- 1022
lumellis sori teleutosporiferi hypophyllis, dense gregariis, tereti-
bus, flexuoso-cirratis, levibus, simplicibus, rufo-brunneis, 5-9 mm.
longis, 120-180 μ . crassis; teleutosporis oblongis, oblique obtusis,
flavo-brunneis v. brunneo-fuscis, 15-24 μ . crassis.

Hab. in foliis *Erythroxyli* in Africa trop. (BRAGA).

3. **Cronartium Nemesiæ** Vestergr. Bihang K. Svenska V. A. Handl. 1023
XXII, Afd. III, n. 6, 1896, p. 5. — Hypophyllum; soris uredo-
sporiferis sparsis v. subgregariis, pseudoperidio brunneo, sursum
pallidiores, perforato præditis; uredosporis ellipticis, ovatis v. ro-
tundatis, echinulatis, 20-28 \times 16-19, flavescensibus vel hyalinis; soris
teleutosporiferis cylindræis, brunneis; teleutosporis cylindræo-
ellipsoideis, utrinque obtusis, ca. 12 μ . latis, flavido-brunneis.

Hab. in foliis *Nemesiæ versicoloris*, Gotlandia Sueciæ. —
A *Cronartiis asclepiadeo*, *Balsaminæ* et *flaccido* vix ullis notis nisi
matrice distinctum.

4. **Cronartium Gilgianum** P. Henn. Fungi camerun. I in Engl. Jahrb. 1024
XXII, 1895, p. 83. — Columellis sori teleutosporiferi hypophyl-
lis, dense gregariis, rigidis, corneis, subulatis, atrobunneis, tereti-
bus, indivisis, apice subobtusis v. acutiusculis, basi pallidioribus,
8-12 mm. longis, 160-200 μ . crassis; sporis oblongis, flavo-brun-
neis, irregulariter acutangulis, obtusis, 15-20 μ . crassis, episporio
fusco-brunneo, 4-6 μ . crasso.

Hab. ad folia coriacea arboris ignotæ, Benguella, Africa (AN-
TUNES).

DIETELIA P. Henn. Hedw. 1897, p. 215 (Etym. a cl. mycologo P.
DIETEL). — Sporæ continuæ, catenulatæ sine cellulis interstitiali-
bus, pseudoperidio tectæ; sori subtremelloidei, subglobosi, basi im-
mersi.

1. **Dietelia verruciformis** P. Henn. l. c. (= *Cronartium verruciforme* 1025

P. Henn.). — Soris hypophyllis, dense gregariis, verruciformibus, subglobosis, subtremelloideis, flavo-ochraceis, 250-350 × 250 × 300; cellulis pseudoperidii oblongis acutangulis hyalino-subflavescentibus; sporis subglobosis, ellipsoideis v. ovoideis, acutangulis, intus granulatis, hyalino-subflavescentibus, 18-35 × 12-20, episporio levi 3-5 μ . crasso.

Hab. in foliis *Sidæ macrodontis* var. *intermediæ* in prov. de Cordoba Argentinae (HIERONYMUS).

MASSELLA P. Diet. Ber. Deutsch. Bot. Ges. 1895, p. 332 (Etym. a cl. mycologo G. MASSEE). — Generi *Cronartio* affinis, sed differt defectu uredosporarum, teleutosporis gelatina obvolutis, laxe nec arctissime coalitis.

1. **Masseella Capparidis** (Hobs.) Diet. l. c. tab. XXVI, fig. 14; *Cronartium Capparidis* Hobs. in Grevillea XIV, p. 89; Sacc. Syll. VII, p. 599.

Hab. in foliis *Capparidis* spec., Bombay Indiae (HOBSON).

Sect. 2. Didymosporæ

PUCCINIA — Syll. VII, p. 600, IX, p. 298, XI, p. 184.

1. **Puccinia stromatica** Berk. et Curt. — Syll. VII, p. 690 (Diagn. incompl.). — Soris maximis, carbonaceis, e soris minoribus confluentibus compositis; teleutosporis medio non vel paullo constrictis, 24-34 × 18, membrana castanea, crassa, æquabili crassitudine vel ad apicem sporæ paullo incrassata, levi (ut videtur); pedicello longo, persistenti, luteolo.

Hab. in ramis *Clematidis* in Alabama Amer. bor.

2. **Puccinia Nuttallii** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 283. — 1026
— Soris teleutosporiferis in foliis, petiolis et floribus evolutis, initio epidermide alutacea tectis, mox nudis, pulverulentis subnigris, in foliis tenuibus minutis confluentibus appianatis, in petiolis elongatis sublinearibus; teleutosporis ellipticis, oblongis v. obovato-ellipticis, utrinque rotundatis plerumque papilla minuta appianata coronatis, episporio crasso apice non vel vix incrassato, initio levi at in maturitate dense sed non prominenter tuberculoso-asperato præditis, flavo-brunneis, demum obscure brunneis 25-40 × 18-20.

Hab. in foliis, floribus et petiolis *Cyrtorhynchæ* Nuttall-

lii, Rocky Mountains Amer. bor. — *P. Ranunculi* et *P. gibberulosæ* valde affinis.

3. **Puccinia Thlaspeos-glaucophylli** P. Henn. Hedw. 1896, p. 229. — 1027
 Soris foliicolis pulvinato-bullatis, rotundis, sparsis vel aggregatis, diu epidermide cinerea tectis ca. 1 mm. diametro; uredosporis globosis vel ellipsoideis, brunneis, 16-24 \times 15-23 μ ., episporio castaneo minute verrucoso 3-4 μ . crasso; teleutosporis intermixtis oblongis utrinque rotundatis apice haud incrassatis læte brunneis, 28-32 \times 15-24, medio constrictis, episporio minute verrucoso, castaneo; pedicello hyalino, brevi.

Hab. in foliis vivis *Thlaspeos glaucophylli*, Cordillera de la Compana in Chile (PHILIPPI). — *P. Drabæ* Rud. valde affinis, sed teleutosporis brevibus, constrictis atque pedicello hyalino diversa.

4. **Puccinia Hutchinsiae** Diet. Hedw. 1897, p. 299. — Soris teleuto- 1028
 sporiferis mediocribus, pulvinatis, hypophyllis, plerumque dense confertis, singulis epiphyllis, nudis, fuscis; teleutosporis ellipticis v. oblongis, utrinque rotundatis, ad septum constrictis, 36-53 \times 21-28, episporio levi, castaneo, apice incrassato indutis, pedicello brevi, caduco suffultis.

Hab. in foliis *Hutchinsiae altæ* in regione fluminis Seravshan superioris Turkestanæ (KOMAROW).

5. **Puccinia pallefaciens** Diet. et Holw. Erythea 1894, p. 128. — 1029
 Soris minutis, brunneis, dein griseolis, dense confertis et totam foliorum paginam inferiorem obtegentibus, in epiphyllis paucis; teleutosporis oblongis; apice conicis v. rotundatis, 5,5-10 μ . incrassatis, loculo inferiore attenuato v. basi rotundato, centro distincte constrictis, pallide brunneis, levibus, 43-66 \times 21-26; mesosporis haud raris; pedicello persistenti, sporam æquante vel eam superante.

Hab. in foliis *Arabidis Holboelli*, Pasadena Californiæ (MC CLATCHIE).

6. **Puccinia Drabæ** Rud.-Syll. VII, p. 683. — Var. **arctica** P. Henn. 1030
 in Allescher et P. Hennings, Pilze aus dem Umanakdistrict. 1897, p. 2. — Soris oblongis, substriiformibus confluentibusque, primo epidermide inflata pallida tectis, dein nudis, cinnamomeis; uredosporis intermixtis, subglobosis, ellipsoideis vel subovoideis, brunneis, 15-25 \times 14-15, episporio verrucoso; teleutosporis oblongis, ovoideis vel subclavatis, pallide brunneis, medio septatis constrictisque, apice haud incrassatis, 22-35 \times 15-20, episporio verrucoso, brunneo, pedicello pallido-brunneo, fragili, brevi.

Hab. in caulibus, pedunculis siliquisque *Drabæ hirtæ* var. *lejocarpæ* pr. Asakak Groenlandiæ (VANHÖFFEN).

7. **Puccinia Didymophysæ** Diet. Hedw. 1897, p. 299. — Soris teleu- 1031
 tosporiferis magnis, haud raro bullatis, amphigenis, circularibus, in caulibus oblongis, pulveraceis, lobulis epidermidis ruptæ semi-tectis, fuscis; teleutosporis utrinque rotundatis, medio constrictis, 38-50 × 19-25, flavo-brunneis, verrucosis, apice plerumque papilla lata, humili ornatis, pedicello brevī, caduco suffultis.

Hab. in foliis caulibusque *Didymophysæ spec.* in regione fluminis Seravschan superioris in Turkestanā (KOMAROW).

8. **Puccinia effusa** Diet. et Holw. Erythea 1895, p. 81. — *Æcidii* 1032
hypophyllis, interdum etiam *epiphyllis*, in caulibus ac petiolis late expansis v. minoribus irregularibusque et secus nervos sæpe dispositis; pseudoperidiis brevibus, in petiolis oblongis, margine albo lacerato; *æcidiosporis* subglobosis v. ellipticis, membrana hyalina verrucosa præditis, 19-30 × 15-20; soris uredo- et teleutosporiferis plerumque *hypophyllis*, etiam *caulicolis*, magnitudine variis, sparsis v. confluentibus, atro-brunneis, pulverulentis; uredosporis breve ellipticis v. globosis, 25-28 × 22-27, brunneis, membrana crassa echinulata donatis; teleutosporis plerumque ellipticis v. obovatis, typice apice rotundatis, interdum deorsum attenuatis, plerumque non inerassatis, verrucosis, castaneis, 30-50 × 22-29, pedicello hyalino brevi deciduo suffultis.

Hab. in foliis *Violæ lobatæ* et *V. ocellatæ* duobus locis in California (HOLWAY et BLASDALE).

9. **Puccinia densa** Diet. et Holw. Hedw. 1897, p. 298. — Soris te- 1033
 leutosporiferis in maculis flavescentibus paginæ inferioris foliorum insidentibus, punctiformibus, dense gregariis, epidermide erecta cinctis; teleutosporis forma valde irregulari, ellipticis v. oblongis, sæpe angulatis, papilla hyalina minuta apicali v. laterali instructis, episorio tenui, levi v. subtiliter verrucoso indutis, 27-40 × 14-24, unilocularibus haud raris, pedicello brevissimo, caduco suffultis.

Hab. in foliis *Violæ glabellæ*, Washington Amer. bor. (SUKSDORF).

10. **Puccinia Sphæralceæ** Ell. et Ev. Americ. Natur. 1897, p. 428 syn. 1034
Æcidium Sphæralceæ Ell. et Ev. in Bull. Torr. Bot. Cl. 1895, p. 364. — Spermogoniis *epiphyllis* in maculis luteolis; *æcidii* *hypophyllis*, dense cæspitosis, 2-8 mm. occupantibus; pseudoperidiis obscure aurantiacis, cylindræis, primo clausis, dein apertis, margine denticulato, dein integro, $\frac{1}{2}$ mm. altis, 350-400 μ . latis; *æci-*

diosporis subglobosis v. ellipticis, levibus, 15-20 μ . longis, aurantiacis; soris teleutosporiferis hypophyllis, minutis, circulariter dispositis, 2-4 mm. diam., confluentibus, primo epidermide tectis et pallide castaneis, dein nudis et obscure castaneis; teleutosporis ellipticis v. oblongo-ellipticis, 30-35 \times 19-22, primo subhyalinis, dein pallide brunneis, ad septum leniter constrictis, apicæ plerumque regulariter rotundatis et leviter incrassatis, inferne rotundatis v. sæpe basi leviter angustatis, episporio glabro, pedicello firmo, persistente, usque ad 150 μ . longo, hyalino.

Hab. in foliis Sphæralceæ angustifoliæ pr. Mesilla, New Mexico Amer. bor. (COCKERELL).

11. **Puccinia Plagianthi** Mc Alp. Roy. Soc. Victoria 1894, p. 218. — 1035

Soris teleutosporiferis rubescenti-brunneis, nudis, bullatis, sparsis; teleutosporis breviter pedicellatis, flavis, clavatis, medio leniter constrictis, loculo superiore apice rotundato, loculo inferiore plerumque basim versus angustato, concolori, 50 \times 22, pedicello hyalino.

Hab. in foliis floribusque Plagianthi sidoidis, Tasmania Australiæ.

12. **Puccinia Banisteriæ** P. Henn. Hedw. 1895, p. 94. — Maculis 1036

nullis vel brunneis irregularibus, epiphyllis; soris hypophyllis, dense gregariis, pustulatis confluentibusque, ochraceo-brunneis, irregulariter dispositis, pulverulentis; teleutosporis oblongis, utrinque obtusis, rotundatis, granulatis, læte brunneis, ad septa valde constrictis, 40-50 \times 18-32, episporio castaneo, dense verrucoso-granulato, 4-5 μ . crasso, pedicello hyalino usque ad 45 μ . longo.

Hab. in foliis vivis Banisteriæ spec. (ULE) et B. Clausenianæ (GLAZIOU) in prov. Goyaz Brasilæ.

13. **Puccinia Tetragonæ** Mc Alp. Agr. Gaz. Sydney. VI, 1896, p. 5, 1037

f. 19-24. — Spermogoniis aurantiacis, numerosis, aggregatis, amphigenis, 155-170 μ . diam.; spermatis hyalinis, globosis v. ovalibus, 2 $\frac{1}{2}$ -3 $\frac{1}{2}$ μ . diam.; pseudoperidiis hypophyllis, albis, confertis, cylindræis, margine laceratis, sæpe seriatim dispositis, 570-690 μ . diam.; ædiosporis aurantiacis, minute verrucosis, variis, globosis, ovatis v. difformibus, 27-39 \times 22-25; soris uredosporiferis amphigenis, mox nudis, bullatis, aurantiacis, plerumque orbicularibus, 1-1 $\frac{1}{2}$ mm. diam.; uredosporis aurantiacis, ovalibus, 27-32 \times 22-25; soris teleutosporiferis amphigenis, nigris, compactis, bullatis, orbicularibus, irregularibus v. elongatis, sparsis, epidermide tectis, dein erumpentibus; teleutosporis aureo-brunneis v. castaneis, interdum hyalinis, ellipticis, plerumque utrinque rotundatis, medio leviter

constrictis, levibus, 39-59 \approx 25-31, loculo superiore interdum truncato v. conico, apice leviter incrassato; pedicello longo, persistente, hyalino, usque ad 78 μ . longo, plerumque 7 μ . lato.

Hab. in foliis Tetragonie implexicomæ pluribus locis in Australia.

14. **Puccinia pulvinulata** Rud. — Syll. VII, p. 694 (Diagnosis incompl.). — Uredosporis membrana æquabili crassitudine, subtiliter et densissime verruculosa; teleutosporis non raro unicellularibus.

Hab. præterea in foliis Frankeniæ pulverulentæ in Africa bor.

15. **Puccinia denticulata** Otth, Bern. Mittheil. 1868, p. 69. — Bifrons, 1038 præcipue epiphylla; soris rufo-badiis, pulvinatis sæpius circinantibus, sorum centralem circumstantibus v. annulato-confluentibus; teleutosporis oblongo-ellipsoideis, utrinque æque attenuatis, bicellularibus non constrictis, levibus, flavidis, apiculo nunc late conico, nunc in denticulos 2-3 acutos diviso; stipite pallidissimo, teleutosporâ fere triplo longiore.

Hab. in foliis Möhringie trinervie, Bremgartenwald Helvetiæ.

16. **Puccinia Triumphetæ** Diet. et Holw. Bot. Gaz. 1897, p. 30. — 1039 Maculis flavis, centro nigricantibus, rotundis v. irregularibus; soris hypophyllis, confluentibus, aggregatis, firmis, pulvinatis, subglobosis, obscure brunneis; teleutosporis ellipticis, oblongis v. raro clavatis aut utrinque rotundatis aut pedicellum versus angustatis, apice sæpe breviter conicis, non vel vix constrictis, 27-37 \approx 13-19; episporio levi, pallide fusco, apice valde incrassato (3-6 μ).

Hab. in foliis vivis Triumphetæ semitribæ pr. Cuernavaca in Mexico (HOLWAY).

17. **Puccinia Oxalidis** Diet. et Ellis, Hedw. 1895, p. 291. — Soris 1040 minutissimis, epiphyllis, maculis subrotundis insidentibus; uredosporis globosis v. late ovoideis, 17-20 \approx 16-19, pallide luteis, verrucosis; teleutosporis bicellularibus, irregularibus, interdum latis-simis, plerumque oblongis, 18-25 \approx 13-20, pallide luteis v. subhyalinis, levibus, pedicello sporas non superante.

Hab. in foliis Oxalidis spec., Mexico (PALMER).

18. **Puccinia callaquensis** Neger. Anal. de la Univ. Santiago Chile 1041 1896, XCIII, p. 777. — Soris uredosporiferis in foliis et caulium partibus herbaceis insidentibus, castaneis; uredosporis atrofuscis, 30 μ . diam., globosis, episporio echinulato præditis; soris teleutospo-
sporiferis striæformibus, cauliculis; teleutosporis fuscis, 40-50 μ .

longis, ad septum leniter constrictis, episporio minute verrucoso indutis, pedicello brevissimo, usque 8 μ . longo suffultis.

Hab. in foliis vivis Geranii Berteroani ad pedem montis vulcani Callaqui in Chile.

19. **Puccinia Correæ** Mc. Alp. Roy. Soc. Victoria 1894, p. 215. 1042

Hypophylla; soris pulvinatis; circularibus, sordide brunneis, sparsis, mox nudis; teleutosporis flavo-griseis, longe pedicellatis, elongato-fusoideis, medio constrictis, loculo superiore elongato, apice attenuato rotundatoque, loculo inferiore basim versus attenuato, 44-60 \times 17-20 $\frac{1}{2}$; pedicello dilute griseo, sporam pluries superante; mesosporis concoloribus, ovoideis, apice truncatis, 25-28 \times 16-19.

Hab. in pagina inferiore foliorum Correæ Laurencianæ, Tasmania Australiæ.

20. **Puccinia Gei** Mc Alp. Agr. Gaz. Sydney. 1895; n. 11. Norvbr. 1043

p. 5, f. 10-11. — Soris teleutosporiferis hypophyllis, confluentibus, maculis viridi-luteis insidentibus, obscure brunneis; teleutosporis brunneo-luteis, irregularibus, levibus, pedicellatis, fusiformibus v. clavatis, medio constrictis, episporio castaneo, 36-44 \times 13-18, loculo superiore elongato, rotundato v. acutato, incrassato, 18-22 μ . longo, loculo inferiore elongato, basim versus attenuato, 16-22 μ . longo; pedicello usque ad 54 μ . longo, pellucido.

Hab. in foliis vivis Gei renifolii, Tasmania Australiæ.

21. **Puccinia Onobrychidis** Otth, Bern. Mitheil. 1868, p. 68. — Cæ- 1044

spitulis hypophyllis, rotundis, rufis; teleutosporis brunneis, oblongis, diametro duplo longioribus, utrinque rotundato-obtusis, septo constrictis; articulo superiore plerumque majore, apiculo subconico, rotundato v. obsoleto; stipite hyalino breviusculo.

Hab. in foliis Onobrychidis sativæ pr. Genevam Helvetiæ.

22. **Puccinia Chætogastræ** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 214. 1045

— Soris microscopicis, punctiformibus, totam superficiem inferiorem foliorum obtegentibus, non confluentibus, epidermide non tectis, firmis, fuscis; teleutosporis claviformibus, 80-88 \times 12-18, medio non constrictis, apice rotundatis, membrana tenui, apice non incrassata, luteola, levi, contextu achroo; pedicello brevi, persistenti, hyalino.

Hab. in foliis Chætogastræ sp. in Æquatoria.

23. **Puccinia sanguinolenta** P. Henn. Hedw. 1896, p. 228. — Maculis 1046

hypophyllis late effusis sanguinolentis; soris plerumque epiphyllis, raro hypophyllis, sparsis vel aggregatis, pustulatis subatris, epidermide fusca, velata cinctis; teleutosporis oblongis, interdum ovoi-

deis, apice papillatis vel subrostratis, raro subobtusis-rotundatis, medio paulo vel vix constrictis, rufobrunneis vel subcastaneis, 35-50 \times 24-32, episporio levi vel granuloso-punctato 4-5 μ . crasso; pedicello 30-50 μ . longo usque ad 8 μ . crasso, superiori rufobrunneo, inferiori hyalino, interdum inflato.

Hab. in foliis Myrciæ spec. Rio de Janeiro Brasiliæ (ULE).

24. **Puccinia Adesmiæ** P. Henn. Hedw. 1896, p. 233. — Soris rami- 1047
et foliicolis, capitulis subglobosis vel irregulariter lobatis dispositis, ochraceis, subpulverulentis; uredosporis subglobosis vel lato ellipsoideis 15-24 μ ., pallide brunneis vel brunneo-fuscis, episporio c. 3-4 μ . crasso sublevi; teleutosporis oblongis vel lato ellipsoideis utrinque rotundatis, medio 1-septatis constrictisque, fusco-brunneis 24-30 \times 21-26; episporio atro-brunneo 4 μ . crasso, verruculoso; pedicello hyalino, fragili, 20 \times 4.

Hab. in foliis ramisque Adesmiæ trijugæ in Sierra Velasco Argentina (HIERONYMUS).

25. **Puccinia Nesææ** (Ger.) Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1048
p. 363; *Æcidium Nesææ* Ger. Bull. Torr. Bot. Club. VI, p. 47, Sacc. Syll. VII, p. 789. — *Æcidii* hypophyllis, maculas epiphyllas contrapostas, purpurascens-brunneas, margine pallidiori determinatas efficientibus; pseudoperidiis gregariis, flavescentibus, cupulatis, margine crenulato, subpulverulentis; *æcidiosporis* e globoso angulatis, pallidis, sublevibus 20-24 μ . diam.; soris teleutosporiferis orbicularibus, minutis, epidermide rupta cinctis, solitariis v. dense conglobatis; teleutosporis oblongis. clavato-oblongis v. oblongo-ellipticis, valde constrictis, apice valde incrassatis, plerumque hyalino-papillatis, pallide luteolo-brunneis, 30-45 \times 12-15; pedicello firmo, subhyalino, sporam æquante.

Hab. in foliis caulibusque Nesææ verticillatæ pluribus locis in America boreali.

26. **Puccinia luxurians** Diet. et Neg. Engl. Jahrb. 1897, p. 158. — 1049
Æcidii amphigenis, inferiorem paginam foliorum plane obtegentibus, in superiore sparsis v. solitariis; pseudoperidiis albis, primo cylindræis, mox in laciniis paucas latas, reflexas divisas, caducis; *æcidiosporis* irregulariter ellipticis v. subglobosis, angulatis, 18-23 \times 15-18, membrana tenui, subtiliter verruculosa præditis; soris circularibus, minutis v. mediocribus, obscure castaneis, nudis; uredosporis globosis v. ovoideis, 27-31 \times 25-26, episporio fusco, echinulato, poris binis perforato; teleutosporis ellipticis v. obovatis, utrinque rotundatis, medio leniter constrictis, apice modice incrassatis,

fuscis, minute verrucosis, 32-43 \times 24-30, pedicello brevi, deciduo suffultis.

Hab. in foliis vivis (*Eriogonæ muticæ* in Chile (REICHE, MEYER).

27. **Puccinia Epilobii-Fleischeri** Ed. Fisch. Bull. de l'Herb. Boiss. 1050

1897, p. 394. — *Æcidiis* ut in *Puccinia Epilobii-tetragoni*; soris teleutosporiferis globosis, nudis, atro-brunneis, sparsis, amphigenis; teleutosporis piriformibus v. ellipticis, basi plerumque in pedicellum attenuatis, apice obtuso-papillatis, rarius rotundatis, leniter constrictis, 28-35 \times 17-21, levibus, dilute brunneis, loculo superiore brevior et latior.

Hab. in foliis vivis *Epilobii Fleischeri*, Helvetia. — Videtur diversa a *Puccinia Epilobii-tetragoni*; status uredosporif. deest.

28. **Puccinia Eulobi** Diet. et Holw. Erythea 1893, p. 249. — Soris 1051

uredosporiferis sparsis, erumpentibus, ovalibus, 1-2 mm., fuscis; uredosporis ovoideis v. globosis, 24-32 \times 18-24, fuscidulis, minutissime echinulatis; soris teleutosporiferis longis, epidermide alutacea tectis, dein nudis, pulvinatis, atris; teleutosporis ovalibus v. fusiformibus, basi rotundatis, apice conicis v. rotundatis, medio parum constrictis, 43-66 \times 18-24; episporio levi, luteolo-fusco usque castaneo, apice 6-13 μ . crasso; pedicello firmo, fuscidulo, sporis duplo longiore.

Hab. in omnibus partibus *Eulobi californici* in California (MC CLATCHIE).

29. **Puccinia Sphærostigmatis** Diet. et Neg. Engl. Jahrb. XXII, p. 353. 1052

— Soris uredosporiferis punctiformibus, vix $\frac{1}{2}$ mm. diam., pulvinatis, sparsis, castaneis; uredosporis ovoideis v. subglobosis, 22-25 \times 18-21, dilute fuscis, echinulatis; soris teleutosporiferis pulvinatis, circularibus v. oblongis, atris; teleutosporis forma varia, ellipticis v. fusiformibus, apice conicis, rarius rotundatis v. truncatis, basi attenuatis v. rotundatis, medio modice constrictis, 28-46 \times 15-21, membrana castanea, apice incrassata, levi instructis; pedicello firmo, hyalino, usque ad 65 μ . longo.

Hab. in foliis, caulibus fructibusque *Sphærostigmatis tenuifolii* pr. Concepcion, Chile (NEGER). — *P. Eulobi* Diet. et Holw. affinis, sed teleutosporis gracilioribus ab ea distincta.

30. **Puccinia depressa** Diet. et Neg. Engl. Jahrb. 1897, p. 158. — 1053

Maculis circularibus 1-3 $\frac{1}{2}$ mm. latis, supra nitidis, melleis, postea fuscis, depressis; soris hypophyllis, in petiolis elongatis, pulvina-

tis, firmis, primo castaneis, mox post germinationem sporarum albido-cinnamomeis; teleutosporis clavatis, vertice rotundatis, basi plerumque attenuatis, ad septum constrictis, cellula inferiore angustiore et longitudine superiorem ovoideam v. subglobosam vulgo superante, 43-60 \approx 17-22, dilute fuscis, apice valde incrassatis, levibus, pedicello firmo, hyalino, mediocri.

Hab. in foliis petiolisque vivis Ribis glandulosi in valle superiore fluminis Renaico, Chile (NEGER). — *Pucciniæ Parkeræ* Diet. et Holw. affinis.

31. *Puccinia Parkeræ* Diet. et Holw. Erythea 1895, p. 78. — Soris 1054 teleutosporiferis hypophyllis, pulvinatis, nigris, 1-2 mm. diam., solitariis vel plerumque in greges 2-3 mm. latos congestis, in pedicellis elongatis ibique distorsiones efficientibus; teleutosporis elongatis v. clavatis, ad septum distincte constrictis, apice rotundatis v. conicis, basi attenuatis v. rotundatis, levibus, brunneis, apice 5-8 μ . incrassatis, 35-50 \approx 13-19, pedicello firmo hyalino sporam æquante vel eam superante fultis.

Hab. in foliis et pedicellis Ribis lacustris in Washington Amer. bor.

32. *Puccinia Trifoliatæ* Ell. et Ev. Bull. Torr. Bot. Club. 1895. p. 58. 1055 — Æcidiis in caulibus v. petiolis tumidulis; pseudoperidiis erumpentibus, primitus clausis, mox apertis et cupuliformibus, circiter $\frac{1}{2}$ mm. diam., tenuibus, margine denticulato; acidiosporis ovatis v. subglobosis, 15-20 μ . diam., luteolis, episporio subtiliter echinulato; soris uredosporiferis minutis, pallide cinnamomeis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., nudis; uredosporis obovatis v. globosis, 15-22 μ . in diametro longiore, subdense echinulatis, hyalinis, demum pallide brunneis; soris teleutosporiferis majoribus, 1 mm. diam., subnigris, nudis; teleutosporis ellipticis, 22-35 \approx 15-20, pallide castaneis, utrinque rotundatis, intus granulosis, ad septum vix constrictis, episporio apice vix incrassato, sicco sub microsc. striis reticulato; pedicello brevissimo, plerumque nullo.

Hab. in foliis petiolisque caulibusque Tiarellæ trifoliatæ, Washington Amer. bor. (PIPER).

33. *Puccinia Saxifragæ-tricuspidatæ* P. Henn. in Allescher et P. 1056 Hennings, Pilze aus dem Umanakdistrikt. 1897, p. 2. — Soris hypophyllis, sparsis, pulvinatis, rotundatis, ochraceis, basi epidermide rupta cinctis; teleutosporis late ellipsoideis, cinnamomeis, 30-35 \approx 19-22, apice rotundato-obtusis haud incrassatis, medio plus minus constrictis, episporio levi, tenui, castaneo, pedicello brevi hyalino.

Hab. in foliis vivis *Saxifragæ tricuspidadæ* pr. Karajak-Nunatak Groenlandiæ (VANHÖFFEN).

34. *Puccinia Jueliana* Diet. Hedw. 1897, p. 298. — Soris teleutosporiferis foliicolis, amphigenis, circularibus v. oblongis, 1-3 mm. longis, haud raro confluentibus, bullatis, epidermide vesiculosa diu velatis, postea nudis, pulveraceis, obscure castaneis; teleutosporis oblongis, ad septum constrictis, utrinque rotundatis, apice papilla hyalina ornatis v. conoideo-incrassatis, minute verrucosis, brunneis, 35-48 × 17-20; pedicello longissimo, tenui, valde caduco. 1057

Hab. in foliis *Saxifragæ aizoidis*, Roisheim (JUEL) et Svendborg (LAGERHEIM) Norvegiæ, nec non pr. Pians Tiroliae (SYDOW).

35. *Puccinia Griseliniae* Pазschke, Hedw. 1896, p. 52. — Soris hypophyllis, diu tectis, dein epidermide fissa cinctis, in pagina foliorum superiore maculas pallidas bullosas generantibus; teleutosporis oblonge-clavatis v. rectangularibus, uniseptatis, oculis inæqualibus, superiore plerumque majore, episporio æquilater incrassato, ca. $2\frac{1}{2}$ μ . crasso præditis, ad septum constrictis, pallide fuscis, 53-68 × 13-16, paulatim in stipitem attenuatis, stipite firmo, 50-60 μ . long. suffultis. 1058

Hab. in foliis vivis *Griseliniae ruscifoliae*, Itatiaia Brasiliæ (ULE).

36. *Puccinia Philippii* Diet. et Neg. Engl. Jahrb. XXII, p. 352. — *Æcidii* gregariis, hypophyllis v. petiolicolis, in foliis acervulos parvos rotundatos, in petiolis nervisque primariis foliorum elongatos constituentibus; pseudoperidiis diu clausis, deinde irregulariter fissis, margine non recurvato; æcidiosporis oblongis, ovoideis v. globosis, forma et magnitudine pervariis, 17-30 × 13-20, minute sed distincte verruculosi; cellulis pseudoperidii irregularibus, usque ad 60 μ . longis, echinulatis; soris uredosporiferis mediocribus, hypophyllis, maculis flavescensibus vel nullis insidentibus, læte cinnamomeis; uredosporis ovoideis, 25-30 × 22-27, flavescensibus, echinulatis; soris teleutosporiferis punctiformibus, sparsis, atrofuscis, pulveraceis; teleutosporis ellipticis, utrinque rotundatis, medio leniter constrictis, 28-36 × 15-23, episporio grosse et irregulariter plicato-lineolato, castaneo præditis, pedicello brevi, hyalino, fragili instructis. 1059

Hab. in foliis petiolisque vivis *Osmorrhizæ Berteri* frequentissime in Chile (NEGER).

37. *Puccinia Ziziae* Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 60. 1060
— Amphigena, plerumque epiphylla; soris parvis, $\frac{1}{4}$ - $\frac{1}{2}$ mm.,

non confluentibus, subatris, mox nudis, in maculis minutis 1-2 mm. diam., albidis, irregularibus, saepe confluentibus insidentibus; teleutosporis obovatis, ellipticis v. oblongo-ellipticis, 22-30 \approx 15-20, vix constrictis, episporio levi, tenui, apice rotundato leviter incrassato; pedicello hyalino, sporam aequante.

Hab. in foliis *Ziziae cordatae*, Washington Amer. bor.

(PIER).

38. ***Puccinia Archangelicae*** Blytt, Christiania Vid. Selsk. Forh. 1896, 1061
n. 6, p. 51. — Soris in utraque foliorum pagina, praesertim inferiore sparsis, omnibus parvis, rotundatis, uredosporiferis in pagina inferiore, teleutosporiferis in utraque pagina; uredosporis ferrugineis, 27-32 \approx 21-24, ovalibus, rarius obovato-ovalibus, basi et praecipue apice valde incrassatis, aculeato-scabris; teleutosporis atro-brunneis, 30-50 \approx 16-19, breviter pedicellatis, medio leniter constrictis, episporio levi, vertice nullo modo incrassato praeditis.

Hab. in foliis vivis *Archangelicae littoralis* in Norvegia australi.

39. ***Puccinia Magydaridis*** Pat. et Trab. Bull. Soc. Mycol. de France 1062
1897, p. 205, tab. XIII, p. 205. — Soris uredosporiferis hypophyllis, fulvis, punctiformibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., epidermide irregulariter rupta cinctis; uredosporis globosis v. ovoideis, luteis, aculeolatis, 25 μ . diam.; soris teleutosporiferis majoribus, brunneis v. atro-brunneis; teleutosporis variis, aliis cylindraceis, aliis ovoideis v. difformibus, apice obtusis, attenuatis, 35-45 \approx 20-30; episporio crasso, sinuoso, reticulato alveolatoque, pedicello brevi, hyalino.

Hab. in foliis vivis *Magydaridis tomentosae* in Algeria (TRABUT). — *P. Smyrni* Biv. proxima, sed praecipue teleutosporis majoribus irregularibusque diversa.

40. ***Puccinia Conii*** (Strauss) Fckl. Symb. myc. p. 53; Lagh. Ured. 1063
herb. Fries. 1895, p. 54; *Uredo Conii* Str. in Wetter. Ann. II, p. 96; *P. bullata* Wint. Die Pilze I, p. 191, ex parte; *P. bullata* Plowr. Brit. Ured. p. 184, ex parte; *P. bullata* De Toni in Sacc. Syll. VII, p. 634, ex parte; *P. bullata* Schröt. Pilze Schles. p. 335, ex parte. — Soris uredosporiferis amphigenis, plerumque hypophyllis, luteo-brunneis; uredosporis ovoideis, 30-40 \approx 22-27, membrana luteoia, ad basim levi, versus apicem aculeata et incrassata, poris germinationis aequatorialibus ternis; soris teleutosporiferis caulicolis v. hypophyllis, sparsis, parvis, ovalibus v. oblongis, primo epidermide tectis, plumbeis, dein, epidermide fissa, brunneis et pulveraceis; teleutosporis forma varia, plerumque ovatis, medio

leniter constrictis, 40-50 \times 25-30, poro germinationis cellulæ inferioris ad septum posito, membrana iuteolo-fusca, distincte verruculosa, ad apicem sporæ paullo incrassata et sæpe papilla achrea aucta.

Hab. in foliis caulibusque vivis Conii maculati in Germania, Austria, Hungaria, Italia, Gallia, Britannia, Hollandia, Dania.

41. **Puccinia Ligustici** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 363. 1064

— Soris teleutosporiferis hypophyllis, minutis, castaneis, erumpentibus, epidermide rupta cinctis, in pustulas suborbiculares $1\frac{1}{2}$ -2 mm. longas latasque confertissimis in maculis minutis, pallidis, plerumque marginalibus insidentibus; teleutosporis ellipticis v. oblongo-ellipticis, utrinque obtuse rotundatis, pallide brunneis, vix constrictis, 22-30 \times 15-20, episporio apice non distincte incrassato, aspero.

Hab. in foliis Ligustici scopulorum, Colorado, Amer. bor. (DÉMETRIO).

42. **Puccinia luteo-basis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 457. 1065

— Soris minutis, circiter $\frac{1}{2}$ mm. diam., orbicularibus, sparsis, maculis luteis insidentibus, castaneis, initio immersis, mox erumpentibus, epidermide rupta cinctis; pseudoperidiis minute cupulatis; teleutosporis oblongo-ellipticis, luteo-brunneis, plus minusve irregularibus, apice rotundatis vel obtuso-acutatis, leviter constrictis, episporio levi, apice non incrassato, intus granulosus, 20-32 \times 15-20, pedicello hyalino sporam æquante fultis.

Hab. in petiolis et in pagina foliorum inferiore Umbelliferæ cujusdam, Colorado Amer. bor.

43. **Puccinia norica** Glow. Mittheil. Nat. Ver. Steiermark, vol. XXVIII 1066

(1891) 1892, p. LXXXVIII. — Soris teleutosporiferis brunneis, subglobosis, usque 1 mm. diam.; solitariis v. pluribus confluentibus ac tum pustulas irregulares applanatas efformantibus, ab epidermide fissa cinctis; teleutosporis forma variantibus, plerumque oblongiss v. ovoideis, interdum irregularibus, basi plerumque rotundatis rarius attenuatis, apice rotundatis v. aliquantulum protractis, medio plus minusve constrictis, semper papilla hyalina v. pallida vestitis, levibus, brunneis, 34-50 \times 22-25, longe pedicellatis.

Hab. in pagina super. foliorum Valerianæ celticæ, summo apice montis Hochreichart Styriæ.

44. **Puccinia Wottsteinii** De Toni — Sacc. Syll. VII, p. 707 (Diagn. incompl.). — Uredosporis in soros minutos rotundatos, castaneo-atris, aculeatis, 18-21 \times 15-20.

Hab. in foliis caulibusque Jurinæ albicaulis, *J. linearifoliæ*, *J. polycloni*, *J. stœchadifoliæ*, Cherson Rossia.

45. *Puccinia Tracyi* Sacc. et Syd. *Puccinia irregularis* Ell. et Tracy 1067
Bull. Torr. Bot. Cl. 1897, p. 283. — Amphigena, sæpius autem hypophylla; soris minutis subhemisphæricis, in maculis pallidis minutis aggregatis v. subcircinatis; teleutosporis ellipticis v. oblongo-ellipticis, constrictis, 50-70 × 20-30, episporio levi pallide brunneo, apice valde incrassato ibique in papillam subhyalinam conicam abeunte præditis, pedicello dilute colorato, 80-110 μ . longo, suffultis; mesosporis 30-40 × 18-22.

Hab. in foliis *Solidaginis spec.* in Colorado, in foliis *Solidaginis spectabilis var. rigidiusculæ* in Nebraska, Amer. bor. — Soris multo minoribus, angustioribus, sporis longius pedicellatis præcipue a *Puccinia Solidaginis* distincta species.

46. *Puccinia Tithoniæ* Diet. et Holw. Bot. Gaz. 1897, p. 31. — Soris 1068
uredosporiferis plerumque hypophyllis, minutis, sparsis, cinnamomeis, pulverulentis; uredosporis globosis v. ovatis, 24-30 × 20-26, membrana tenui, fusca, brevissime echinulata; soris teleutosporiferis plerumque hypophyllis, minutis, sparsis, nigris; teleutosporis ellipticis v. ovatis, utrinque rotundatis, leniter constrictis, 38-52 × 22-27, levibus, castaneis, apice calyptratis v. rarius conico-incrassatis, plerumque pallidioribus; pedicello hyalino, subfirmo, sporam superante.

Hab. in foliis *Tithoniæ cubifloræ* et *tagetifloræ* in Mexico (HOLWAY).

47. *Puccinia abrupta* Diet. et Holw. Hedw. 1898, p. 205. — Soris 1069
in caulibus petiolisque callos longos efficientibus, in foliis plerumque epiphyllis, mediocribus, irregularibus obscure brunneis, nudis, pulveraceis; uredosporis globosis, late ellipticis vel ovoideis, 23-26 × 22-25, flavo-brunneis, echinulatis, poris 2 germinationis instructis; teleutosporis late ellipticis, basi lata rotundatis, vertice hyalinis et cucullato-incrassatis, medio lenissime vel non constrictis, 30-38 × 25-29, episporio levi, fusco præditis, pedicello longo, hyalino, facile deciduo suffultis.

Hab. in caulibus, petiolis et foliis *Viguiæ pictæ* et *V. excelsæ*, Mexico (HOLWAY).

48. *Puccinia tageticola* Diet. et Holw. Bot. Gaz. 1897, p. 26. — 1070
Soris amphigenis, sparsis, minutis, in caulibus et pedicellis majoribus, pulvinatis, nudis; soris uredosporiferis fuscis; uredosporis ellipticis, obovatis v. globosis, 24-31 × 17-24, pallide fuscis, echi-

nulatis; soris teleutosporiferis nigris; teleutosporis ellipticis, utrinque rotundatis, leniter constrictis, 44-52 \times 30-35, episporio levi, castaneo, apice late hyalino-incrassato; pedicello usque ad 100 μ . longo, hyalino, firmo.

Hab. in foliis vivis Tagetis tenuifoliæ, Guadalajara, Mexico (HOLWAY).

49. **Puccinia Helenii** Schw. — Syll. VII, p. 708. (Diagnosis incompl.).

— Maculis luteis; soris hypophyllis, parvis, dense congregatis, firmis, fuscis; teleutosporis oblongis v. clavatis, medio constrictis, apice rotundatis, basi attenuatis, 35-40 \times 12-15, membrana levi, luteola, ad apicem sporæ valde incrassata; pedicello persistenti pallide luteolo.

Hab. in foliis Helenii autumnalis pr. Bethlehem in Pennsylvania Amer. bor.

50. **Puccinia rupestris** Juel. On några heter. Ured. p. 56; Oefversigt af K. Vet.-Akad. Förhandl. 1894, n. 8, p. 414 et 1896, n. 3, p. 214; *Æcidium Saussureæ* Juel. l. c. p. 53. — Pseudoperidiis 1071

tenuibus in maculis parcissimis subrotundis atro-violaceis, hypophyllis, cellulis peridialibus circiter 20 μ . latis; spermogoniis nullis; æcidiosporis 15-20 μ . diam.; uredosporis in soros obscure brunneos dispositis, 25 \times 19, luteo-brunneis, echinulatis, poris germinationis ternis; teleutosporis in soros oblongos, pustulatos, nigros, mox nudos congestis, 35-50 \times 15-20, incrassatis, pedicello firmo, 30-50 μ . longo.

Hab. æcidia in foliis Saussureæ alpinæ, uredo- et teleuto-sporæ in foliis culmisque Caricis rupestris in Jemtlandia Sueciæ.

51. **Puccinia Clarionæ** Diet. et Neg. Engl. Jahrb. 1897, p. 160. — 1072

Soris sparsis, circularibus, $\frac{1}{2}$ -1 mm. diam., epidermide vesiculosa tectis, obscure castaneis; teleutosporis difformibus ut plurimum oblongis v. rectangularibus, angulatis, ad septum leniter vel non constrictis, 36-63 \times 21-33, episporio tenui, flavo-brunneo, punctato, apice non incrassato præditis.

Hab. in foliis Clarionæ spec. in Chile.

52. **Puccinia Jungiæ** P. Henn. Hedw. 1897, p. 214. — Soris teleu- 1073

tosporiferis hypophyllis, minutis, sparsis, atris; teleutosporis oblonge ellipsoideis vel ovoideis, apice rotundato-obtusis, medio plus minus constrictis, brunneis, 35-50 \times 25-30, episporio levi, vertice incrassato; pedicello hyalino, usque ad 70 μ . longo, 4-9 μ . crasso, persistente.

Hab. in foliis *Jungia floribundæ* in Brasilia (SELLO).

53. **Puccinia Joannesia** P. Henn. Hedw. 1896, p. 229. — Maculis 1074
subflavis vel fuscidulis, irregularibus; soris uredosporiferis hypophyllis sparsis, pulvinatis brunneis, pulverulentis; uredosporis subglobosis vel late ellipsoideis, fuscobrunneis, 15-18 μ . diam., episporio verrucoso; soris teleutosporiferis sparsis vel subgregariis, pulvinatis, atris; teleutosporis oblongis vel late ellipsoideis, apice obtusis vel subapplanatis, medio constrictis, rufobrunneis vel castaneis, 18-25 \times 15-22, episporio atro-castaneo, dense verrucoso. 3 μ . crasso, verrucis hemisphæricis ca. 1 μ . diam., pedicello curvato v. recto, hyalino usque ad 30 μ . longo.

Hab. in foliis *Joannesia brasiliensis*, in prov. St. Catharina Brasiliæ (ULE).

54. **Puccinia Lagophyllæ** Diet. et Hölw. Erythea 1893, p. 250. — 1075
Maculis luteolis v. nullis; soris uredosporiferis amphigenis, sparsis, minutis, fuscis; uredosporis ovoideis v. subglobosis, fuscis, subtiliter echinulatis, episporio crasso, 27-31 \times 25-29; soris teleutosporiferis atris, circularibus v. oblongis, 1-2 mm. diam., sæpe circinatis confluentibusque; teleutosporis ovoideis v. ellipticis, utrinque rotundatis v. inferne attenuatis, ad septum leniter constrictis, levibus, castaneis, cellula inferiore plerumque pallidiore, apice incrassatis (6-9 μ .), 33-55 \times 22-32; pedicello hyalino, caduco, sporam superante.

Hab. in foliis vivis *Lagophyllæ congestæ*, Berkeley Californiæ (BLASDALE).

55. **Puccinia Leuceriæ** Diet. et Neg. Engl. Jahrb. 1897, p. 160. — 1076
Soris amphigenis, laxè gregariis, minutis, fuscis, nudis, pulveraceis; teleutosporis ellipticis, utrinque rotundatis, rarius basi attenuatis, medio levissime constrictis, magnitudine varia, 33-50 \times 21-33, episporio 3 $\frac{1}{2}$ -4 μ . crasso, apice non incrassato, flavo-brunneo, verruculoso indutis; pedicello brevi, caduco.

Hab. in foliis *Leuceriæ paniculatæ*, in Chile.

56. **Puccinia Melantheræ** P. Henn. Hedw. 1897, p. 214. — Soris hypophyllis, minutis, sparsis v. aggregatis, ferrugineis, maculis fuscis; uredosporis subglobosis v. late ellipsoideis, fuscis, 18-23 μ ., episporio minute verrucoso; teleutosporis late ellipsoideis v. subovoideis, apice rotundatis, incrassatis, medio septatis, haud constrictis, cinnamomeis, 32-42 \times 24-30; pedicello brevi, subhyalino. 1077

Hab. in foliis vivis *Melantheræ deltoideæ* pr. Blumenau Brasiliæ (ULE).

57. **Puccinia Microseris** Mc Alp. Agr. Gaz. Sydney. 1895, n. 11. 1078

Novbr. p. 6, fig. 12-13. — Soris brunneis, globosis v. ellipticis, gregariis, interdum confluentibus, epidermide rupta cinctis; uredosporis globosis, interdum subovalibus, citrinis, levibus, $27 \approx 22$ vel $25-27 \mu$. diam., teleutosporis immixtis; teleutosporis luteo-brunneis, clavatis v. oblongis, medio vix vel non constrictis, levibus, loculo superiore convexo, obscuriore, loculo inferiore triangulari, $32-38 \approx 19-20$; pedicello caduco.

Hab. in foliis *Microseris Forsteri*, Victoria Australiæ.

58. **Puccinia Enceliæ** Diet. et Holw. Bot. Gaz. 1897, p. 32. — Soris 1079
hypophyllis, sparsis, nudis; soris uredosporiferis fuscis; uredosporis ellipticis vel globosis, $20-25 \approx 19-23$, fuscis, echinulatis; soris teleutosporiferis atro-fuscis; teleutosporis ellipticis v. obovatis, utrinque rotundatis, lenissime constrictis, $31-42 \approx 23-27$, membrana levi, castanea, apice dilute applanato-papillata, ca. 7μ . crassa; pedicello sporam superante, hyalino.

Hab. in foliis vivis *Enceliæ mexicanæ* pr. Cuernavaca in Mexico (HOLWAY). — *Pucciniæ Helianthi* Schw. valde affinis, sed differt teleutosporis minoribus.

59. **Puccinia magnæcia** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 59. 1080
— Soris latis, 2-3 mm., bullatis, subatris, hypophyllis, pro parte epidermide tectis, maculas rubro-brunneas in pagina foliorum superiore efformantibus; teleutosporis gracili-clavatis, $40-50 \approx 14-16$, pallide brunneis, basi subhyalinis, leniter constrictis, apice plerumque regulariter rotundatis v. interdum obtuso-punctatis truncatisve, episporio levi, apice valde incrassato obscuriore; pedicello sporam æquante.

Hab. in foliis *Asteris pulchelli*, Washington Amer. bor.

— A *P. Asteris* differt soris magnis, obscuris.

60. **Puccinia Leontopodii** Vogl. Bul. Soc. bot. Ital. 1896, p. 37. — 1081
Hypophylla; maculis minutis, sparsis, concavis, prominulis, testaceis; soris verruciformibus, gregariis, griseo-brunneis, initio epidermide tectis, mox erumpentibus et liberis; teleutosporis ovato-oblongis, medio leviter constrictis, apice rotundatis, $40-50 \approx 20-22$, episporio fusco, levi, in parte media incrassato, pedicello subcolorato, tenui, $80-90 \mu$. longo, fultis.

Hab. in foliis *Leontopodii alpini* in Valle Colla in Helvetia italica.

61. **Puccinia irregularis** Diet. Hedw. 1897, p. 33. — Acervulis in ma- 1082
culis flavescensibus vel fuscis insidentibus, gregariis vel sparsis, epidermide cinctis, castaneis; uredosporis late ellipticis, subglobosis v.

oblongis, 25-30 \times 21-26, castaneis (eodem colore, quo teleutosporis), echinulatis; teleutosporis forma varia et irregulari, ellipticis vel oblongis, medio leniter constrictis, apice paullo vel vix incrassatis, castaneis, levibus, 36-50 \times 20-27; pedicello brunneo, brevi.

Hab. in foliis vivis *Verbesinæ subcordatæ*, Serra Geral Brasilæ (ULE).

62. **Puccinia *Verbesinæ*** Schw. — Syll. VII, p. 706 (Diagnosis incompl.). — *Æcidiiis hypophyllis*, nerviculis, dense congregatis, cupuliformibus; *æcidiosporis* rotundatis, ca. 18 μ , diam., membrana achroa, tenui, subtilissime verruculosa; *uredosporis* rotundato-ovatis v. subglobosis, 20-25 μ , diam., membrana æquabili crassitudine, luteola, aculeata, poris germinationis binis; *teleutosporis* ovatis, utrinque rotundatis, medio leniter constrictis, 40-45 \times 30, membrana castanea ad apicem sporæ incrassata, subtiliter verruculosa; pedicello basi caduco.

Hab. in foliis *Verbesinæ Siegesbeckiæ* in Carolina infer., V. australis, scabræ et helianthoidis in Argentina.

63. **Puccinia *Synedrellæ*** Lagh. in Sydow, Ured. n. 373; Syll. XI, p. 204 (nomen); *P. Synedrellæ* P. Henn. in Hedw. 1898, p. 277. — Maculis fuscis inflatis; soris teleutosporiferis hypophyllis, aggregatis sæpe confluentibus, ferrugineis; teleutosporis clavatis apice obtusis subincrassatis, interdum subacutiusculis, flavo-brunneis v. subfuscis, medio septatis constrictisque, 30-45 \times 13-18; pedicello concolori, 20-30 \times 5-7, consistenti.

Hab. in foliis *Synedrellæ nodifloræ*, Kingston et Port Antonio ins. Jamaicae.

64. **Puccinia *Flourensii*** P. Henn. Hedw. 1896, p. 235. — Soris uredo- 1083
sporiferis amphigenis, minutis, rotundatis, applanatis, pallido-brunneis; *uredosporis* subglobosis vel late ellipsoideis, flavis vel brunneolis, 30-38 \times 28-33, episporio subbrunneo, minute aculeato; soris teleutosporiferis punctiformibus, pulvinato-rotundatis, atris; teleutosporis late ellipsoideis interdum subrectangularibus vel subglobosis continuisque, læte castaneis medio 1-septatis, paulo constrictis, apice rotundatis, incrassatis, interdum subgibbosis, 30-42 \times 28-36, episporio levi, 3-5 μ , crasso; pedicello usque ad 80 μ , longo, ca. 8 μ , crasso, hyalino.

Hab. in foliis *Flourensii campestris* pr. Cordoba Argentinae (HIERONYMUS).

65. **Puccinia *Aspiliæ*** Diet. Hedw. 1894, p. 30. — Acervulis hypo- 1084
phyllis, punctiformibus, sparsis; *uredosporis* subglobosis, ca. 27 μ .

diam., fuscis, brevissime echinulatis; teleutosporis ellipticis vel oblongis, sæpe irregularibus, utrinque rotundatis, ad septum vix constrictis 30-42 \times 17-29, membrana levi castanea, apice modice incrassata instructis; pedicello mediocri, fragili.

Hab. in foliis *Aspiliæ bupthalmifoliæ*, Serra Geral Brasiliæ (ULE).

66. **Puccinia Erechthitis** Mc Alp. Roy. Soc. Victoria 1894, p. 216. 1085

— *Æcidiis* foliicolis caulicolisque, inflationes efficientibus, initio pallide luteis, demum aurantiacis, seriatim v. irregulariter dispositis; pseudoperidiis cupulatis, margine albo, revoluto; *æcidiosporis* variis, irregulariter globosis v. ovalibus, aurantiacis, levibus, 16-19 \times 12-17; *isoris* teleutosporiferis diu epidermide tectis, nigris, confertis pulvinatis; teleutosporis luteo-brunneis, pedicellatis, elongatis, medio constrictis, loculo superiore obscure brunneo, apice rotundato incrassatoque, loculo inferiore plerumque luteo, basim versus angustato, elongato, cuneiformi, 54-57 \times 19-25; pedicello persistente, pallidissime luteo v. pellucido, 38 μ . longo.

Hab. in foliis caulibusque *Erechthitis quadridentatæ*, Victoria Australiae.

67. **Puccinia Melampodii** Diet. et Holw. Bot. Gaz. 1897, p. 32. — 1086

Maculis pallide flavis v. fuscidulis; *isoris* hypophyllis, minutis, pulvinatis, atro-fuscis, plerumque irregulariter aggregatis; teleutosporis oblongis v. fusiformibus, apice acutato-rotundatis v. angustatis, pedicellum versus angustatis, modice constrictis, 42-60 \times 15-20, episporio levi, fusco, apice valde incrassato (5-10 μ .); pedicello firmo, usque ad 27 μ . longo.

Hab. in foliis vivis *Melampodii* spec. pr. Cuernavaca in Mexico (HOLWAY).

68. **Puccinia decora** Diet. in litt. *Puccinia pinguis* Diet. et Holw. 1087

Bot. Gaz. 1897, p. 34. — *Isoriis* sparsis amphigenis, plerumque hypophyllis minutis; *isoris* uredosporiferis brunneis, nudis, pulverulentis; uredosporis globosis v. ovatis, 28-33 \times 24-30, echinulatis, brunneis, *isoris* germinationis binis præditis; *isoris* teleutosporiferis nigris pulverulentis; teleutosporis late ellipticis utrinque rotundatis, vix constrictis, 48-53 \times 33-40, apice papilla brevi hyalina donatis, episporio levi, castaneo, 5-6 μ . crasso præditis, pedicello facile deciduo, sporam superante hyalino suffultis.

Hab. in foliis vivis *Brickelliæ* spec. pr. urbem Mexico (HOLWAY).

69. **Puccinia præcox** Bubák Verhandl. des naturf. Ver. in Brünn. 1088

Bd. XXXVI, 1898, p. 4 (extr.); *Æcidium præcox* Bub. Verhandl. k. k. Zool.-botan. Gesellsch. in Wien. 1898, p. 20 (extr.). — Pseudoperidiis amphigenis in maculis luteolis v. rubescentibus irregularibus rarius orbicularibus congregatis, raro nerviculis, erumpentibus parvis, cupuliformibus, margine reflexo denticulato; cellulis pseudoperidii plerumque ellipticis vel oblongo-deltaideis haud in series regulares dispositis; æcidiosporis polygono-globosis, ovoideis v. oblongis, $17\frac{1}{2}$ -31 \approx $17\frac{1}{2}$ -22, aurantiacis, membrana achroa subtiliter verruculosa præditis; soris uredosporiferis brunneis pulvinatis, minutis; uredosporis castaneis, globosis, ellipticis v. ovoideis 22-33 \approx 20-29, membrana aculeata donatis, poris germinationis duobus præditis; soris teleutosporiferis atro-brunneis, pulvinatis, minutis, solitariis in maculis luteolis, sæpius confluentibus, mox nudis; teleutosporis late ellipticis v. ovoideis, utrinque rotundatis, medio vix v. non constrictis, 30-46 \approx 24-31, membrana intense castanea, subtiliter verruculosa, pedicello brevi, gracili, caduco suffultis.

Hab. in foliis *Crepidis* biennis ad Hohenstadt Moraviæ, frequentissime.

70. **Puccinia major** Diet. Mittheil. des Thüring Bot. Vereins, Heft VI, 1089 1894. — *Æcidiiis* numerosis, maculis flavis, flavo-rubris v. rubiginosis insidentibus; pseudoperidiis in acervulos subrotundos v. in petiolis oblongos compositis, humilibus, margine albo reflexo laciniato instructis; æcidiosporis irregulariter polyhedricis, ovoideis v. rarius subglobosis, 20-30 \approx 16-24, aurantiacis, subtiliter verrucosis; soris uredosporiferis cinnamomeis; uredosporis ovoideis v. ellipticis; rarius globosis, 24-30 \approx 21-26, membrana brunnea echinulata præditis; soris teleutosporiferis atro-brunneis, minutis, solitariis, per ambas foliorum superfícies irregulariter sparsis interdumque maculis minutis flavidis insidentibus; teleutosporis ellipticis v. ovoideis, utrinque rotundatis, medio parum constrictis, 33-48 \approx 22-30, castaneis, subtiliter verrucosis, pedicello brevi caduco suffultis.

Hab. in foliis *Crepidis paludosæ* passim in Germania et Austria. — *P. Lampsanæ*, quæcum hucusque confusa, affinis, sed æcidiosporis, uredosporis teleutosporisque multo majoribus facile distinguenda.

71. **Puccinia Hypochæridis** Mc Alp. Roy. Soc. Victoria 1894, p. 217. 1090 — Pseudoperidiis amphigenis, maculis viridi-luteis v. brunneolis orbicularibus insidentibus, aggregatis, aurantiacis, rotundis v. ellipticis; æcidiosporis subglobosis v. ovalibus, pallide aurantiacis,

14-16 \times 12 $\frac{1}{2}$; soris teleutosporiferis æcidiis immixtis, nigris, ellipticis, interdum confluentibus, epidermide fissa cinctis; teleutosporis castaneis, pedicellatis, medio constrictis, 47-50 \times 19-23, loculo superiore obscure brunneo, rotundato, apice incrassato, loculo inferiore pallide brunneo, plerumque basim versus angustato; pedicello hyalino, interdum persistente, 24 μ . longo.

Hab. in foliis Hypochæridis radicatae, Victoria Australiae.

72. **Puccinia Erigerontis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 282. 1091

— Soris amphigenis, nudis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., plerumque aggregatis, interdum subcircinatim dispositis, orbicularibus, nigris, macula pallide flava insidentibus; teleutosporis oblongis v. oblongo-ellipticis, medio septatis, valde constrictis, interdum papillatis, 38-60 \times 15-21, flavo-brunneis, loculo superiore plerumque latiore ac obscuriore, granuloso, loculo inferiore pallidior, basi rotundato; episporio levi, apice incrassato; pedicello sporam parum superante, persistente, superne flavo.

Hab. in foliis Erigerontis cæspitosi, Wyoming Amer. bor.

73. **Puccinia dovrensis** Blytt, Christiania Vid. Selsk. Forh. 1896, 1092

n. 6, p. 54. — Soris sat magnis, rotundatis, sæpe confluentibus in utraque foliorum pagina, atro-brunneis, omnibus teleutosporiferis; teleutosporis breviter pedicellatis, 38-46 \times 16-19, ovali-oblongis, utrinque rotundatis, rarius basim versus aliquantulum attenuatis, medio aliquid constrictis; episporio scabro, apice aliquid incrassato, papilla 5-6 μ . alta instructo; pedicello 5-6 μ . longo.

Hab. in foliis Erigerontis alpini, Dovre, Norvegia. — A *P. Asteris* differt sporis apice multo minus incrassatis, basi plus rotundatis minusque attenuatis.

74. **Puccinia distincta** Mc Alp. Agr. Gaz. Sydney. VI, 1896, p. 4. 1093

fig. 12-14. — Pseudoperidiis in maculis amphigenis decoloribus insidentibus, pulvinatis, rotundis v. ovalibus, albis, margine lacera- to, 253-282 μ . diam.; æcidiosporis subglobois, v. ovalibus, pallide luteis v. pellucidis, levibus, 14-20 \times 11-12 $\frac{1}{2}$; soris teleutosporiferis scapiculis, æcidiis immixtis, nigricantibus, ovalibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. longis, epidermide rupta cinctis; teleutosporis castaneis, clavatis, levibus, medio constrictis; 34-50 \times 19-22, loculo superiore plerumque obscuriore, apice rotundato incrassatoque; pedicello persistente, pallide luteo, usque ad 51 μ . longo; mesosporis numerosis, elongato-clavatis v. subovatis, castaneis, plerumque apice incrassatis, 34-37 μ . longis.

Hab. in foliis et scapis *Bellidis perennis* pr. Melbourne Australiae.

75. *Puccinia Conyzæ* P. Henn. Hedw. 1896, p. 239; *P. sordida* 1094
Diet. Hedw. 1896, p. 31. — Soris uredosporiferis hypophyllis, hemisphaericis, diutius tectis, dein pallide ochraceis, singularibus, gregariis; uredosporis subglobosis ovoideis vel ellipsoideis, flavo-brunneis, aculeatis, 23-26 \times 15-18; soris teleutosporiferis hypophyllis in maculis fuscis, gregariis vel solitariis atro-fuscis, pulvinatis; teleutosporis oblongis, clavatis vel turbinatis sæpe acutangulis, fusco-brunneis, apice valde incrassatis, obtusis, interdum applanatis vel oblique subapiculatis, medio vix constrictis, 30-50 \times 25-30, episorio levi; pedicello brevi, hyalino.

Hab. in foliis *Conyzæ triplinerviæ* et *Baccharidis triplinerviæ* in prov. St. Catharina Brasiliæ (ULE).

76. *Puccinia conferta* Diet. et Holw. Erythea 1893, p. 250. — Hy- 1095
pophylla; soris maculis flavis insidentibus, minutis, 0,3-0,5 mm. diam., pulvinatis, atris, dense confertis, interdum totum folium occupantibus; teleutosporis levibus, castaneis, clavatis, medio constrictis, apice conicis v. rotundatis, valde incrassatis, cellula inferiore plerumque attenuata, cuneiformi, 47-75 \times 24-30; pedicello firmo, sporam circiter æquante.

Hab. in foliis vivis *Artemisiæ* spec. in California (HOLWAY).

77. *Puccinia recondita* Diet. et Holw. Erythea 1894, p. 128. — 1096
Maculis dilute flavis v. nullis; soris hypophyllis, minutis, pulvinatis, in greges subrotundos 2-5 mm. diam. dense confertis, cinnamomeis; teleutosporis clavatis, apice incrassatis (5-8 μ .), rotundatis v. plerumque conicis, basi attenuatis v. rotundatis distincte constrictis, pallide brunneolis, levibus, 40-56 \times 15-23, pedicello firmo hyalino sporam subæquante fultis.

Hab. in foliis *Artemisiæ heterophyllæ*, Pasadena Californiæ (Mc CLATCHIE).

78. *Puccinia mirifica* Diet. et Holw. Erythea 1895, p. 79. — Soris 1097
vulgo epiphyllis, sæpe totam foliorum superficiem obtegentibus, minutis, castaneis, epidermide inflata diu tectis, dein nudis, pulverulentis confluentibusque; uredosporis plerumque ovoideis, 24-40 \times 18-34, echinulatis; teleutosporis in iisdem soris evolutis, plerumque utrinque rotundatis, ad septum leniter constrictis, 23-29 \times 38-59, membrana verrucosa, apice non incrassata præditis; pedicello brevi, deciduo; mesosporis numerosis, 23-25 \times 33-45.

Hab. in foliis *Borrichiæ frutescentis*, Texas Amer. bor.

79. **Puccinia Bidentis** Diet. et Holw. Bot. Gaz. 1897, p. 32. — Soris 1098
 plerumque hypophyllis, sparsis, minutis, brunneis in maculis dilute
 flavis; teleutosporis interdum bicellularibus, plerumque tamen uni-
 cellularibus et ellipticis, ovatis v. globosis, 19-30 \times 17-23; sporis
 bicellularibus varia forma et magnitudine, ellipticis v. oblongis,
 raro pedicellum versus angustatis, leniter constrictis, 24-38 \times 15-25,
 castaneis, subtiliter punctatis; pedicello firmo, plerumque sporam
 superante, sursum colorato.

Hab. in foliis vivis *Bidentis* spec. pr. Cuernavaca in Me-
 xico (HOLWAY).

80. **Puccinia Mutisiæ** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 213. — Sper- 1099
 mognoniis epiphyllis, congregatis; soris uredosporiferis hypophyllis
 vel caulicolis, magnis, fuscis; uredosporis ovoideis vel ovato-ro-
 tundatis, 33-45 \times 24-27, membrana subcrassa, luteola, aculeolata,
 contentu achroo; soris teleutosporiferis hypophyllis, parvis, spar-
 sis, fuscis, epidermide non tectis, in maculis pallidis insidentibus;
 teleutosporis anguste fusiformibus, 90-125 \times 18-30, utrinque at-
 tenuatis, medio non vel paullo constrictis, membrana tenui, luteola,
 levi, apice incrassata et verruculoso-striata, contentu luteolo, pe-
 dicello tenui, hyalino, longiusculo, persistenti suffultis, mox ger-
 minantibus.

Hab. in foliis caulibusque *Mutisiæ* sp. in Æquatoria.

81. **Puccinia notabilis** Tracy et Earle, Bull. Torr. Bot. Club. 1895, 1100
 p. 174. — Amphigena; soris nigris, confluentibus, hemisphæricis
 v. irregularibus, bullas fusiformes et gallæformes 3-4 cm. longas
 efformantibus, interdum caules involventibus; teleutosporis ovali-
 bus, obtuse rotundatis, leniter constrictis, episporio levi, apice in-
 crassato, 55-60 \times 30-33; pedicello hyalino v. subhyalino, longissi-
 mo, flexuoso, 225-275 μ .

Hab. in bracteis, petiolis caulibusque *Plucheæ borealis*,
 New Mexico, Amer. bor.

82. **Puccinia Perezii** P. Henn. Hedw. 1896, p. 241. — Maculis flavis 1101
 rotundatis; soris hypophyllis sparsis vel aggregatis pulvinatis, cinna-
 momeis, epidermide rupta cinctis, ca. $\frac{1}{3}$ mm. diametro; teleuto-
 sporis ovoideis vel ellipsoideis, apice rotundato-obtusis non incre-
 satis, medio paulo constrictis, brunneis, 28-38 \times 18-28, episporio
 castaneo, levi, ca. 3 μ . crasso; pedicello hyalino, fragili plus minus
 elongato.

Hab. in foliis vivis *Perezii* cardúncelloidis, Ciénega
 Sierra de Tucuman Argentinæ (LORENTZ).

83. **Puccinia Piptocarphæ** P. Henn. Hedw. 1896. p. 240. — Uredo- 1102
 soris hypophyllis sparsis vel subgregariis, pulvinatis ochraceis;
 uredosporis subglobosis, ovoideis vel ellipsoideis, fuscis, dense acu-
 leatis, 25-32 \times 23-28; soris teleutosporiferis sparsis, hypophyllis,
 pulvinatis, minutis, atris; teleutosporis clavatis vel oblongis flavo-
 fuscidulis, levibus, 30-44 \times 17-26, apice rotundatis, subincrassatis,
 medio constrictis, episporio fuscidulo vel brunneo; pedicello hya-
 lino, brevi.

Hab. in foliis vivis *Piptocarphæ oblongæ*, Prov. St. Ca-
 tharina Brasiliæ (ULE).

84. **Puccinia spectabilis** Oth, Bern. Mittheil. 1865, p. 176. — Ma- 1103
 cula expallida demum brunnescente, subtus bullata, supra exca-
 vata; soris magnis, hypophyllis, 2-6 mm. lat., parvis e badio atro-
 purpleis, compactis, epidermide rupta cinctis; teleutosporis fulvo-
 brunneis nunc piriformibus, nunc oblongis, ad septum constrictis,
 loculo inf. nunc acutato minori, nunc utroque subæquali apicibus
 acutato; stipite dilute colorato, teleutosporam subæquante.

Hab. in pag. inf. foliorum *Cirsii ochroleuci* pr. Giessbach
 Helvetiæ. — Comparanda cum speciebus cirsiicolis posterius de-
 scriptis.

85. **Puccinia Pterocauli** P. Henn. Hedw. 1896, pag. 240. — Soris 1104
 amphigenis, gregariis vel sparsis, pulvinatis, atrofuscis; uredosporis
 subglobosis, ovoideis vel subellipsoideis, læte brunneis, 20-33 \times 20-
 30, episporio castaneo, aculeato, 3 μ . crasso; teleutosporis clavatis
 interdum oblongis, 40-55 \times 18-28, apice rotundato-obtusis vel sub-
 papillatis usque ad 5-8 μ . incrassatis, medio constrictis, episporio
 levi, castaneo; pedicello hyalino vel subbrunneo plus minus elon-
 gato, 6-9 μ . crasso.

Hab. in foliis *Pterocauli spicati* atque *virgati*, Prov. St.
 Catharina Brasiliæ (ULE).

86. **Puccinia Uleana** P. Henn. Hedw. 1895, p. 93. — Soris ad caules 1105
 incrassatos epidermide rupta cinctis, pulvinatis, oblongis confluen-
 tibusque, atris; uredosporis globosis v. ellipsoideis, brunneis, levi-
 bus, 28-33 \times 15-33, episporio 6-8 μ . incrassato, levi; teleutosporis
 intermixtis ellipsoideis, utrinque obtusis, levibus, castaneis, 30-50
 \times 30-38; episporio castaneo, levi, 6-8 μ . incrassato; pedicello hya-
 lino, 8-10 μ . longo, 4-5 μ . crasso.

Hab. in caulibus *Caleae* spec. in prov. Goyaz Brasiliæ (ULE).

87. **Puccinia Baccharidis** Diet. et Holw. Erythea 1893, p. 250. — 1106
Amphigena; soris uredosporiferis numerosis, sparsis, minutis, o-

ochraceis, pulverulentis; uredosporis ovoideis v. ellipticis, membrana pallide fusca, echinulata, poris germinationis numerosis perforata, 34-44 \times 21-31; soris teleutosporiferis minutis, pulvinatis, pallidis; teleutosporis clavatis v. oblongis, apice parum incrassatis, rotundatis, inferne attenuatis v. rotundatis, septo constrictis, pallide fuscis, levibus, 56-74 \times 23-32; pedicello firmo, plerumque sporam superante, inflato; teleutosporis statim post maturitatem germinantibus.

Hab. in foliis vivis Baccharidis vimineæ et glutinosæ Pasadena in California. (Mc CLATCHIE); B. longipedis et glutinosæ in horto botanico, Santiago, Chile (NEGER).

88. **Puccinia baccharidicola** P. Henn. Hedw. 1896, p. 242. — 1107
Maculis flavescensibus irregularibus vel rotundatis; soris sparsis vel aggregatis, pulvinatis, ochraceis subpulverulentis; uredosporis late ellipsoideis vel ovoideis, pallide brunneis, 22-28 \times 19-22, dense verrucosis; teleutosporis intermixtis, subfusoides elongatis, 60-75 \times 15-22 apice papillatis, medio leniter constrictis, episporio tenui, levi, pallide brunneo, apice non incrassato; pedicello hyalino, 30 μ . longo, tenui.

Hab. in foliis vivis Baccharidis spec. Rio de Janeiro Brasiliæ (ULE). — *P. Baccharidis* Diet. et Holw. affinis.

89. **Puccinia Henningsii** Diet. Hedw. 1897, p. 31. — 1108
Soribus uredosporiferis hypophyllis, diu tectis, deinde epidermide fissa cinctis; uredosporis obovatis, 28-38 \times 21-25, episporio verrucoso achroo præditis; soribus teleutosporiferis epiphyllis, minutis, gregariis, in sicco albidis; teleutosporis oblongis v. clavatis, utrinque rotundatis vel basi attenuatis, 48-63 \times 22-26, episporio tenui, æquali, hyalino, levi indutis, contentu aurantiaco, pedicello mediocri, firmo suffultis, statim post maturitatem germinantibus.

Hab. in foliis Baccharidis dracunculifoliæ pr. Blumenau Brasiliæ (ULE).

90. **Puccinia chilensis** Diet. et Neg. Engl. Jahrb. XXII, p. 354. — 1109
Soribus maculis flavescensibus insidentibus, per totam foliorum superficiem inferiorem sparsis, punctiformibus, hemisphericis, epidermide fissa cinctis; uredosporis ovoideis v. piriformibus, 30-40 \times 23-27, episporio tenui, brunneo, breviter echinulato præditis, poris germinationis quattuor æquatorialibus instructis; teleutosporis oblongis v. ellipticis, interdum obliquis, utrinque rotundatis v. basi attenuatis, ad septum leniter constrictis, 50-72 \times 25-35, membrana levi, apice vix incrassata, intense brunnea præditis, pedicello hya-

lino applanato satis firmo, sporæ fere æquilongo, interdum oblique inserto suffultis.

Hab. in foliis vivis *Baccharidis eupatorioidis* in prov. Concepcion Chile (NEGER). — Teleutosporæ uniloculares claviformes haud raræ.

91. **Puccinia Baccharidis-triplinervis** P. Henn. Hedw. 1896, p. 241. 1110

— Maculis epiphyllis, brunneis vel fuscis, rotundatis, sparsis ca. 1 mm. diametro, interdum confluentibus; soris teleutosporiferis hypophyllis, minutis, sparsis, atris; teleutosporis ovoideis vel elongatis apice incrassatis, rotundatis vel subapiculatis, medio septatis vix constrictis, 25-40 × 15-26, fusco-brunneis, pedicello hyalino usque ad 60 μ . longo, 4-5 μ . crasso.

Hab. in foliis vivis *Baccharidis triplinervis* pr. Blumenau Brasiliæ (ULE).

92. **Puccinia Baccharidis-cylindricæ** P. Henn. Hedw. 1896, p. 241. 1111

Maculis flavis irregularibus; soris teleutosporiferis sparsis vel aggregatis cauliculis, primo tectis dein epidermide inflata cinctis, pulvinate-hemisphæricis, cinnamomeis, subpulverulentis, usque ad 1 mm. diam.; teleutosporis oblongis apice obtuse incrassatis, flavo-brunneis, ad septum valde constrictis, 45-60 × 22-28; episporio brunneo levi, 3 μ . crasso; pedicello hyalino, flexuoso, usque ad 80 μ . longo.

Hab. in caulibus *Baccharidis cylindricæ* in prov. de Buenos Ayres Argentinæ (LORENTZ).

93. **Puccinia Baccharidis-cassinoidis** P. Henn. Hedw. 1896, p. 241. 1112

— Maculis fuscis irregularibus; soris subgregariis vel sparsis hypophyllis, ochraceis, diutius tectis; uredosporis subglobosis ovoideis vel late ellipsoideis, subhyalinis flavescentibus vel fuscescentibus, verrucosis, 28-40 × 25-35; teleutosporis plerumque intermixtis elongato-clavatis vel subfusoides, apice obtuso-rotundatis haud incrassatis, medio constrictis; episporio tenui, flavidulo vel brunneo, 60-75 × 23-27; pedicello hyalino, 30-60 μ . longo, 5-7 μ . crasso.

Hab. in foliis vivis *Baccharidis cassinoidis* pr. Blumenau Brasiliæ (ULE).

94. **Puccinia Mölleriana** P. Henn. Hedw. 1895, p. 336. — Soris spar- 1113

sis, oblongis v. rotundatis, flavo-ochraceis, diutius tectis, hypophyllis; uredosporis subglobosis v. ellipsoideis, hyalino-fuscescentibus, verrucosis, 22-25 × 20-23; teleutosporis ellipsoideis v. subglobosis, medio septatis, ad septum vix constrictis, levibus, apice incrassatis, atro-fuscis, 15-28 × 12-16; pedicello brevi, hyalino-brunneo, fragili.

Hab. in foliis *Baccharidis* spec., Serra Brassæ Brasiliæ (MÖLLER).

95. *Puccinia vernoniicola* P. Henn. Pilz. Ostaf. p. 50. — Soris te- 1114
leutosporiferis hypophyllis, flavo-rufis, sparsis, maculis fuscis; spo-
ris clavatis v. elongato-oblongis, levibus, apice rotundato-obtusis,
subincrassatis, raro subapiculatis v. emarginatis, medio plus minus
constrictis, 45-70 \times 20-27, episporio tenui, levi; pedicello hyalino,
persistente, usque ad 60 μ . longo.

Hab. in foliis *Vernoniæ* sp. in Africa trop. (VOLKENS).

96. *Puccinia Lorentzii* P. Henn. Hedw. 1896, p. 239. — Soris ure- 1115
dosporiferis sparsis, hypophyllis, punctiformibus minutis, ochraceis;
uredosporis globosis ovoideis vel ellipsoideis, flavo-brunneis, 22-
28 \times 21-24, episporio brunneo, 3-4 μ . crasso, dense aculeato-aspe-
rato; soris teleutosporiferis sparsis, minutis, punctiformibus, hy-
pophyllis, atris; teleutosporis elongato-clavatis vel oblongis brun-
neis, apice rotundatis paullo incrassatis, medio constrictis, episporio
castaneo, 4 μ . crasso, levi; pedicello hyalino usque ad 150 μ . longo,
inflato, 8-11 μ . incrassato.

Hab. in foliis vivis *Vernoniæ* *Lorentzii*, mollissimæ atque scorpioidis in Argentina et Brasilia pluribus locis. — A *Puccinia Vernoniæ* Cke. satis diversa.

97. *Puccinia pinguis* Diet. Hedw. 1897, p. 32. — Soris hypophyllis, 1116
minutis, sparsis, castaneis, pulveraceis; teleutosporis ellipticis, utrin-
que rotundatis, medio vix vel non constrictis, apice papilla hya-
lina instructis, castaneis, 38-55 \times 25-35, episporio crasso, minute
verruculoso indutis; pedicello brevi, caduco, hyalino.

Hab. in foliis vivis *Vernoniæ* *platensis*, Serra Geral Brasiliæ (ULE).

98. *Puccinia horrida* Lagh. Bull. Soc. Myc. de Fr. 1895, p. 214. — 1117
Soribus uredosporiferis amphigenis, congregatis, confluentibus, cin-
namomeis; uredosporis rotundatis vel ovatis, 36-42 \times 30-36, mem-
brana crassa, luteo-fusca, aculeis validis sparsis prædita; soribus te-
leutosporiferis hypophyllis, sparsis, circ. 1 mm. diam., firmis, cin-
namomeis, epidermide non tectis; teleutosporis oblongis, 71-111 \times
29-36, medio paullo constrictis, utrinque rotundatis, membrana
levi, luteola, apice valde incrassata, contentu aurantiaco; pedicello
longo, persistenti.

Hab. in foliis *Eupatorii* sp. in Æquatoria.

99. *Puccinia Eupatorii* Diet. Hedw. 1897, p. 32. — Maculis flavis 1118
indeterminatis vel nullis; soribus uredosporiferis, minutis, castaneis,

hypophyllis, gregariis vel sparsis; uredosporis late ellipticis vel globosis, 25-30 μ . diam., flavo-brunneis, breviter echinulatis, poris germinationis binis instructis; soris teleutosporiferis punctiformibus, atrofuscis; teleutosporis ellipticis, medio leniter constrictis, utrinque rotundatis, membrana castanea, levi, apice late incrassata præditis, 40-50 \times 25-33, pedicello mediocri, hand firmo suffultis.

Hab. in foliis vivis Eupatorii ballotifolii atque E. macrocephali, Serra Geral Brazilæ (ULE).

100. **Puccinia pachyspora** Diet. Hedw. 1897, p. 32. — Soris in caulibus et in foliis amphigenis mediocribus, epidermide diu tectis, deinde liberis; uredosporis ellipticis, obovatis vel subglobosis 30-35 \times 27-30, flavo-brunneis, echinulatis; soris teleutosporiferis atris, erumpentibus, pulverulento-compactiusculis, usque 1,2 mm. diam., sparsis; teleutosporis ellipticis vel oblongis, medio constrictis, utrinque rotundatis, membrana apice plus minusve incrassata, levi, castanea, apice dilutiore indutis, 42-62 \times 25-33; pedicello sporam subæquante hyalino, fragili. 1119

Hab. in foliis vivis Eupatorii oblongifolii, Serra Geral Brazilæ (ULE).

101. **Puccinia Zexmeniaë** Diet. et Holw. Bot. Gaz. 1897, p. 26. — Soris sparsis, amphigenis; uredosporis ellipticis v. globosis, 20-22 \times 17-20, dilute brunneis, echinulatis; teleutosporis ellipticis, utrinque rotundatis, non vel vix constrictis, 35-45 \times 25-33, episporio castaneo 4-5 μ . crasso, apice non incrassato vel interdum minute cucullato-incrassato, striis angustis dense reticulatis, pedicello sporam superante, tenui, hyalino, sæpe lateraliter inserto, caduco. 1120

Hab. in foliis Zexmeniaë podocephalæ, Guadalajara Mexico (HOLWAY).

102. **Puccinia opaca** Diet. et Holw. Bot. Gaz. 1897, p. 26. — Soris parvis, atris, sparsis, amphigenis; uredosporis ellipticis, 18-20 \times 16-17, pallide fuscis, echinulatis; teleutosporis ellipticis, utrinque rotundatis, parum constrictis, 30-36 \times 24-28, obscure castaneis, apice plerumque non incrassatis, membrana sulcis latis dense reticulata; pedicello hyalino, usque ad 90 μ . interdum laterali, caduco. 1121

Hab. in foliis vivis Zexmeniaë ceanothifoliaë, Guadalajara, Mexico (HOLWAY).

103. **Puccinia inconspicua** Diet. Hedw. 1897, p. 33. — Soris hypophyllis, minutis, sparsis, castaneis; uredosporis ellipticis vel globosis, ca. 24 μ . diam., castaneis, echinulatis; teleutosporis oblongis vel clavatis, basi attenuatis vel rotundatis, apice conicis rarius rotundatis 1122

vel truncatis, ad septum leniter constrictis, 50-65 × 19-25, membrana levi, castanea, apice valde incrassata et hyalina præditis; pedicello brevi, haud firmo.

Hab. in foliis vivis Compositæ indeterminatæ, Serra Geral Brasiliæ (ULE).

104. **Puccinia circinans** Diet. Hedw. 1897, p. 30. — Soris hypophyllis, 1123
in maculis flavescentibus, minutis, pulvinatis, in circulos concentricos dispositis vel sparsis, castaneis; teleutosporis ellipticis, utrinque rotundatis vel basi attenuatis, medio ante germinationem non constrictis, 27-33 × 21-25, membrana levi, crassa (3-5 μ .), apice haud incrassata, flavo-brunnea, instructis, pedicello satis firmo, sporam æquante vel eam superante suffultis.

Hab. in foliis Compositæ indeterminatæ. Prov. Minas Geraës Brasiliæ (ULE).

105. **Puccinia rotundata** Diet. Hedw. 1897, p. 32. — Soris maculis 1124
flavis insidentibus, amphigenis, irregularibus circularibusve, sæpe annulum circum sorum centralem formantibus, cinnamomeis, margine epidermide cinctis; teleutosporis ellipticis, rarius irregularibus, utrinque rotundatis, medio levissime constrictis, episporio verruculoso reticulato, flavo-brunneo, crasso, apice non vel modice incrassato indutis, 30-40 × 20-25; pedicello mediocri, hyalino, fragili.

Hab. in foliis vivis Compositæ indeterminatæ, Serra Geral Brasiliæ (ULE) — *P. rugosæ* Sp. affinis.

106. **Puccinia velata** Diet. Hedw. 1897, p. 31. — Soris maculis flave- 1125
scentibus insidentibus, hypophyllis solitariis vel circulariter circa sorum centralem dispositis, pulverulentis, castaneis, primo pubescentia folii velatis; teleutosporis ellipticis, utrinque rotundatis, medio vix constrictis, apice paullo vel non incrassatis, subtiliter punctatis, 26-35 × 19-23, pedicello fragili suffultis.

Hab. in foliis vivis Compositæ ignotæ, Ouro Preto Brasiliæ (ULE).

107. **Puccinia Gamocarphæ** (Klotzsch) P. Henn. Hedw. 1897, p. 214. 1126
(*Uredo Gamocarphæ* Kl. in Herb. Berol.). — Soris amphigenis, pustulatis, epidermide rupta cinctis, castaneis, 0,5 mm. diametro; uredosporis subglobosis vel late ellipsoideis, brunneis, 29-32 × 20-26; episporio minute aculeato, usque ad 3 μ . crasso, castaneo; teleutosporis ellipsoideis vel ovoideis, medio septatis, paulo constrictis, utrinque rotundatis, 30-35 × 23-28, episporio sublevi vel punctulato, castaneo.

Hab. in foliis Gamocarphæe Poeppigii in Peruvia (MEYEN).

108. **Puccinia longipes** Lagh. Ured. herb. Fries. 1895, p. 64. — Soris 1127
teleutosporiferis maximis, elongatis, pulvinatis, epidermide non
tectis, firmis, castaneis; teleutosporis ellipticis, elongatis v. ovatis,
medio non constrictis, utrinque parum attenuatis v. rotundatis,
35-50 \times 18-25, episporio flavo-brunneo, apice papilliformiter incre-
sato et dilutius colorato, subtiliter verruculoso; pedicello gracili,
achroo, longissimo, non deciduo.

Hab. in culmo vel petiolo? Ambrosiæ spec. in Amer. bor.
(SCHWEINITZ).

109. **Puccinia Boopidis** Neger, Anal. de la Univ. Santiago Chile 1896, 1128
XCIII, p. 780. — Soris uredo- et teleutosporiferis minutis v. me-
diocribus, laxe gregariis, læte cinnamomeo-fuscis; uredosporis glo-
bosis, dilute fuscis, 25 μ . diam., echinulatis; teleutosporis obovoi-
deis v. ellipticis, ad septum non constrictis, castaneo-fuscis, 35-40 \times
25-30; pedicello hyalino, valde variabili, longissimo v. brevissimo,
lato. Sporibus bilocularibus nonnumquam commixtæ simplices sunt.

Hab. in Boopide leucanthea in pratis subandinis fundi
Santa Julia pr. Collipulli, Chile.

110. **Puccinia vacua** Diet. et Holw. Bot. Gaz. 1897, p. 30. — Soris 1129
hypophyllis, interdum epiphyllis, sparsis; soribus uredosporiferis pal-
lide flavis; uredosporis late ellipticis v. ovatis, usque globosis, 22-
29 \times 20-25, membrana subhyalina, echinulata; soribus teleutospori-
feris brunneis; teleutosporis ellipticis, utrinque rotundatis, raro
versus pedicellum angustatis, leniter constrictis, dense verrucosis,
fuscis, apice incrassatis, 35-60 \times 23-28; pedicello usque ad 80 μ .
longo, hyalino, caduco.

Hab. in foliis vivis Lobeliæ spec. pr. Cuernavaca in Mexico.
(HOLWAY). — Differt a *Puccinia Lobeliæ* Ger. membrana crassiore
et sporibus multo majoribus.

111. **Puccinia Brunoniæ** Mc Alp. Agr. Gaz. Sydney. VI, 1896, p. 2, 1130
fig. 4-7. — Soribus teleutosporiferis amphigenis, plerumque epi-
phyllis, pustulas obscure aurantiacas, rotundatas formantibus, gre-
gariis confluentibusque, interdum solitariis, mox erumpentibus,
grisescentibus; teleutosporis clavatis, aureo-brunneis v. castaneis,
interdum hyalinis, apice incrassatis, medio constrictis, 34-50 \times 17-
19 $\frac{1}{2}$, loculo superiore rotundato v. leviter applanato, loculo in-
feriore deorsum attenuato plerumque longiore, luteo v. aureo-brun-
neo; pedicello persistente, flavo, interdum hyalino, usque ad 53 μ .
longo.

Hab. in foliis Brunoniæ australis, Victoria Amer. bor.

112. *Puccinia lateritia* Berk. et Curt. Exot. Fung. Schwein Herb. 1131
p. 281; Lagh. Ured. herb. Fries, p. 63;? *P. Spermacoces* Berk.
et Curt. N. Amer. Fg. n. 548. — Soris hypophyllis, sparsis v.
in maculis pallidis congregatis, pulvinatis, parvis, firmis, rubigi-
nosis; teleutosporis ovoideis, medio non constrictis, membrana
crassa, fusciscenti, levi, versus apicem sporæ incrassata, magni-
tudine bifurcatis, majoribus obscurioribus, 28-36 × 20-22, mino-
ribus pallidioribus, 20-26 × 14-16; pedicello persistenti, tenui, pal-
lide fusciscenti, spora longiore.

Hab. in foliis *Spermacoces* (L), *Cruseæ*, *Diodiæ*, *Bouvardiæ* Amer. merid. et austr.

113. *Puccinia Coprosomatis* Morrison in Mc Alp. Arrang. Austral. Fungi 1132
1893, p. 200. — Soris hypophyllis, rarius epiphyllis, prominentibus,
saturate brunneis, confluentibus; teleutosporis compactis, brunneis.

Hab. in foliis *Coprosomatis* *Billardieri*, *Victoria Australiæ*. — Vâr. *Operculariæ* Morrison l. c. soris hypophyllis, folium
deformantibus et concavitates epiphyllas generantibus, rufo-brun-
neis; teleutosporis pallide flavido-brunneis. — In foliis petiolisque
foliorum juveniliu *Operculariæ* variæ, *Victoria Australiæ*.

114. *Puccinia Pentadis* P. Henn. Pilz. Ostaf. p. 50. — Soris ure- 1133
desporiferis epiphyllis, sparsis, minute punctiformibus, ochraceis;
uredosporis ovoideis v. ellipsoideis, flavis, verrucosis, 26-32 × 20-
28; soris teleutosporiferis epiphyllis, sparsis v. subgregariis, cin-
namomeis; teleutosporis ellipsoideis, rotundato-obtusis, medio se-
ptatis, vix constrictis, aculeato-verrucosis, castaneis, 32-40 × 28-32;
episporio, 4 ½-5 ½ μ crasso, verrucoso; pedicello persistente, hya-
lino, 30-50 × 8-10.

Hab. in foliis *Pentadis* *mombassanæ* in Africa trop. (VOL-
KENS).

115. *Puccinia Niederleinii* P. Henn. Hedw. 1896, p. 238. — Soris 1134
in maculis pallidis rotundatis, hypophyllis, orbiculariter dispositis,
punctiformibus, hemisphærico-pulvinatis cinnamomeis; teleutospo-
ris ellipsoideis, ovoideis vel turbinatis, flavo-brunneis; medio 1-se-
ptatis vix constrictisque apice plerumque late applanatis, incrassatis,
16-30 × 14-22, episporio levi, 3-4 μ crasso; pedicello hyalino vel
fuscidulo, flexuoso usque ad 60 μ elongato, 4-5 μ crasso.

Hab. in foliis vivis *Manettiæ* *leianthifloræ* in Argentina
(NIEDERLEIN), et *Manettiæ* spec. in Paraguay (LANDMANN).

116. *Puccinia longirostris* Kom. in Fg. Rossici n. 57 (Diagnosim 1135
non vidimus).

Hab. in foliis vivis *Lonicerae hispidæ* in Turkestaniam.

117. **Puccinia Gardoquiæ** Diet. et Neg. Engl. Jahrb. XXII, p. 353. 1136

— Soris uredosporiferis hypophyllis, sparsis, minutis, rufis; uredosporiferis ovoideis v. globosis, dilute brunneis, echinulatis, 27-35 \times 25-30; teleutosporis ellipsoideis, utrinque rotundatis, medio leniter constrictis, 32-35 \times 28-30, membrana obscure castanea echinulata præditis, pedicello sporam fere æquante suffultis.

Hab. in foliis *Gardoquiæ multifloræ* pr. Concepcion Chile (NÉGER).

118. **Puccinia salviicola** Diet. et Holw. Bot. Gaz. 1897, p. 33. — 1137

Soris amphigenis, sparsis, mediocribus, primo epidermide tectis, pulverulentis; soris uredosporiferis cinnamomeis; uredosporis globosis, ovatis v. ellipticis, 22-37 \times 20-30, dilute fuscis, echinulatis, poris germinationis 2; teleutosporis in soros atros congestis, ellipticis, utrinque rotundatis v. apice breviter conicis, vix v. haud constrictis, 35-44 \times 25-33, apice late papillato-incrassatis, minutissime verrucosis, castaneis; pedicello sporam superante, hyalino, basim versus angustiore.

Hab. in foliis vivis *Salviæ glechomæfoliæ* pr. Mexico (HOLWAY).

119. **Puccinia conspersa** Diet. Hedw. 1897, p. 30. — Pseudoperidiis maculis purpurascensibus infra insidentibus, minutis, solitariis v. nonnullis congregatis, margine irregulariter lacerato; æcidiosporis ovoideis v. subglobosis, 20-27 \times 18-23, verrucosis; soris teleutosporiferis hypophyllis, punctiformibus, pulvinatis, castaneis, numerosis; teleutosporis ellipticis, utrinque rotundatis, ad septum leniter constrictis, castaneis, apice modice incrassatis et pallidioribus, 25-33 \times 18-23, statim post maturitatem germinantibus; pedicello fragili. 1138

Hab. in foliis vivis speciei cujusdam *Salviæ* (v. *Hypitidis*) Serra Geral Brasiliæ (ULE).

120. **Puccinia mellifera** Diet. et Holw. Erythea 1893, p. 251. — 1139

Maculis flavis v. fuscis; æcidiis hypophyllis, solitariis v. conglobatis, cinnamomeis, pulverulentis; pseudoperidiis elongatis, valde laciniatis, fugacibus; cellulis pseudoperidii cylindricis, asperulis v. sublevibus, facile secedentibus; æcidiosporis ovoideis v. subglobosis, subtiliter verrucosis, fuscidulis, poris germinationis numerosis, 29-40 \times 24-29; soris teleutosporiferis plerumque epiphyllis, globosis, ca. 1 mm. diam., nudis, atro-fuscis; teleutosporis ellipticis, utrinque roscili latis medio leniter constrictis, parum incrassatis, levibus, castaneis, 40-50 \times 28-35; pedicello mediocri, usque ad 80.

Hab. in foliis vivis *Salviæ melliferæ*, Pasadena in California (MC CLATCHIE).

121. **Puccinia albida** Diet. et Neg. Engl. Jahrb. 1897, p. 160. — 1140

Soris hypophyllis, circularibus v. in annulos continuos congestis, firmis, pulvinatis, albido-ochraceis; teleutosporis oblongis v. clavatis, apice rotundatis, basi attenuatis, ad septum leniter v. non constrictis, 30-40 × 10-14, episporio incolorato, levi, apice modice (ca. 3 μ .) incrassato indutis, pedicello firmo, mediocri, usque ad 35 μ . longo suffultis.

Hab. in foliis vivis *Stachydis grandidentatæ* in valle fluvii Rio Pichi-Malleco, Chile. (NEGER). — *Pucciniæ pallidissimæ* Speg. (in *Stachyde arvensi*) valde affinis.

122. **Puccinia Thunbergiæ-alatæ** P. Henn. Pilz. Ostaf. p. 50. — 1141

Maculis fuscis; soris amphigenis, pulvinatis, castaneis; uredosporis subglobosis, ellipticis v. ovoideis, fusco-brunneis, dense verrucosis, 20-30 × 18-24, episporio aculeato, cinnamomeo, 3-4 μ . crasso; teleutosporis clavatis v. oblongis, apice obtusis non incrassatis, septo constrictis, flavo-fuscescentibus, 40-59 × 18-20 episporio levi; pedicello hyalino, circiter 20 μ . longo, 7-8 μ . crasso.

Hab. in foliis vivis *Thunbergiæ alatæ* in Africa trop. (VOLKENS). — A *P. Thunbergiæ* Cke. differt uredosporis magnis, dense verrucosis et teleutosporis apice non incrassatis.

123. **Puccinia Antirrhini** Diet. et Holw. Hedw. 1897, p. 298. — Soris 1142

uredosporiferis mediocribus, castaneis; uredosporis ellipticis v. globosis, 23-30 × 21-25, castaneis, brevissime echinulatis, poris germinationis 2, rarius 3 instructis; soris teleutosporiferis pulvinatis, atrofuscis, in foliorum maculis pallescentibus v. arescentibus insidentibus, amphigenis, præsertim hypophyllis, mediocribus v. minutis, irregulariter congregatis, in caulibus majoribus, epidermide fissa cinctis, confluentibus; teleutosporis oblongis v. irregularibus, apice conicis, rotundatis v. truncatis, basi attenuatis, rarius rotundatis, ad septum modice constrictis, episporio obscure castaneo v. dilute fusco, apice incrassato, levi indutis, 36-50 × 17-26, pedicello longo suffultis.

Hab. in foliis caulibusque *Antirrhini majoris*, Berkley (BLASDALE) Amer. bor.

124. **Puccinia nemoralis** Juel Oefversigt af K. Vet.-Akad. Förhandl. 1143

1894, n. 9, p. 506. cum icone, *Æcidium Melampyri* Kze. et Schm Exsicc. n. 165, Wint. Die Pilze p. 262; Sacc. Syll. VII, p. 813 — Pseudoperidiis hypophyllis, albidis, in maculis irregularibus,

purpureo-rufis, sine ordine v. orbiculariter in greges rotundatos vel difformes dispositis, cupulatis, margine revoluto, pluries inciso; ædiosporis polygoniis, siccis flavis, subtilissime punctulatis, 15-18 μ . diam.; uredosporis in soros lanceolatos v. lineares congestis, aculeatis; luteo-brunneis, 3 poris germinationis; teleosporis plerumque late ellipsoideis, loculis semiglobosis, *Pucc. Moliniæ* valde affinis, sed plerumque brevioribus et longius pedicellatis.

Hab. æidia in foliis *Melampyri pratensis*, cristati etc. in Europa, urædo- et teleosporæ in foliis *Moliniæ cæruleæ* in Suecia.

125. **Puccinia Wulfenæ** Diet. et Holw. *Erythæa* 1895, p. 79. — Soris 1144
teleosporiferis amphigenis, vulgo epiphyllis, solitariis vel in greges concentricos circulares congestis, maculis nigrescentibus incrassatusculis insidentibus, pulverulentis, cinnamomeis; teleosporis oblongis, utrinque rotundatis, ad septum valde constrictis, dilute brunneis, levibus, apice papilla hyalina præditis, 30-40 \times 15-19, pedicello brevi deciduo fultis.

Hab. in foliis *Wulfenæ cordatæ* in California (BLANDALE).

126. **Puccinia Paranahybæ** P. Henn. Hedw. 1895, p. 320. — Maculis 1145
epiphyllis, flavis v. fuscis; soris hypophyllis plerumque rotundato-dispositis confluentibusque, atro-brunneis v. castaneis; sporis clavatis v. ellipsoideis oblongisque, apice plerumque obtuso-rotundatis, haud incrassatis, brunneis v. fuscis, medio paulo constrictis, 27-34 \times 14-17; pedicello brevi, hyalino.

Hab. in foliis *Ruellizæ spec. Goyaz* Brasiliæ (ULE) et *R. longifoliæ* pr. Blumenau Brasiliæ, nec non in Argentina.

127. **Puccinia Ruellizæ** (Berk. et Br.) Lagh. *Ured. herb.* Fries. 1895, 1146
p. 71; *Uredo Ruellizæ* Berk. et Br. *Fg. Ceyl.* n. 830; *Pucc. lateripes* Burr. *Fg. paras.* III, p. 189 ex parte; *Diorchidium lateripes* Magn. *Gatt. Diorchid.* p. 191; Dietel, *Quellungsersch.* p. 63. — Uredosporis ovatis v. ovoideo-globosis, membrana aculeata, poris germinationis binis oppositis æquatorialibus.

Hab. in foliis *Ruellizæ prostratæ*, in Ceylon.

128. **Puccinia mexicana** Diet. et Holw. *Bot. Gaz.* 1897, p. 33. — Ma- 1147
culis rubro-purpureis, margine lato, flavo cinctis, circularibus, 3-5 mm. latis; soris pulvinatis, minutis, dense conglobatis, brunneis; teleosporis longe ellipticis usque fusiformibus, apice plerumque conico-acutis, raro rotundatis, loculo inferiore pedicellum versus rotundato v. angustato, modice constrictis, 38-50 \times 16-23, mem-

brana flavo-brunnea, levi, apice incrassata; pedicello sporam superante, firmo, hyalino.

Hab. in foliis vivis *Pentastemonis campanulati*, Esclava prope Mexico (HOLWAY).

129. *Puccinia Chelonis* Diet. et Holw. Hedw. 1897, p. 297. — Ma- 1148
culis flavis v. brunneis, circularibus; soris teleutosporiferis hypophyllis (epiphyllis solitariis), primo epidermide plumbea vesiculosa velatis, deinde nudis, pulveraceis, circulariter v. secundum nervos irregulariter dispositis, usque 5 mm. latis, soris minoribus concentricè dispositis sæpe circumdatis, obscure castaneis; teleutosporis ellipticis, utrinque rotundatis, medio leniter constrictis, breviter pedicellatis, intense flavo-brunneis, minute verrucosis, 30-40 × 18-25.

Hab. in foliis *Chelonis nemorosæ*, Washington Amer. bor. (SUKSDORF).

130. *Puccinia apus* Diet. et Neg. Engl. Jahrb. 1897, p. 159. — Soris 1149
epiphyllis, minutis v. mediocribus, sparsis v. in acervulos irregulares congestis, flavis, mox apertis, in pagina inferiore maculas circulares albas, margine obscuro circumdatas, generantibus; teleutosporis fusiformibus, apice acuminatis, basi attenuatis, ad septum non v. vix constrictis, 36-45 × 12-17, episporio tenui, levi, pallido indutis, statim post maturitatem germinantibus; pedicello valde caduco.

Hab. in foliis vivis *Ourisiæ racemosæ*, ad ripam fluminis Rio Pichi-Malleco in Chile (NEGER).

131. *Puccinia Ourisiæ* Diet. et Neg. Engl. Jahrb. 1897, p. 159. — 1150
Soribus amphigenis præsertim epiphyllis, in acervulos circulares sæpe concentricos congestis v. solitariis, pulveraceis, castaneis; teleutosporibus forma varia et sæpe irregularibus, oblongis vel ellipticis, utrinque rotundatis, medio leniter constrictis, 28-40 × 18-24, brunneis, apice modice vel vix incrassatis vel papilla hyalina instructis, verrucosis; pedicello sporam subæquante, valde caduco.

Hab. in foliis vivis *Ourisiæ coccineæ*, ad ripam fluminis Rio Pichi-Malleco in Chile (NEGER).

132. *Puccinia Stenandrii* Diet. et Neg. Engl. Jahrb. XXII, p. 352. 1151
Æcidii epiphyllis, plerumque in circulos parvos dispositis, rarius maculis irregularibus insidentibus; pseudoperidiis albis, margine irregulariter lacerato vel denticulato; cellulis pseudoperidii forma varia, plerumque oblongis, 40-50 × 16-30, verrucosis; æcidiosporis ellipsoideis, subglobosis v. oblongis, 22-32 × 15-23, contentu flavo,

membrana hyalina verruculosa præditis; soris uredosporiferis præsertim epiphyllis, sparsis vel in acervulos mediocres circulares consociatis, epidermide vesiculosa diu tectis, denique liberis, castaneis; uredosporis subglobosis v. ovoideis, 25-30 \times 22-25, episporio castaneo, echinulato præditis; soris teleutosporiferis amphigenis, congregatis v. sparsis, mediocribus, epidermide cinctis, atrofuscis; teleutosporis ellipticis v. subglobosis, utrinque rotundatis, medio vix vel non constrictis, 30-42 \times 27-32, membrana obscure castanea, apice paullulum incrassata papillosa indutis, pedicello sporam æquante sæpe e latere inserto, hyalino suffultis.

Hab. in foliis vivis *Stenandrii dulcis* pr. Concepcion, Chile (NEGER).

133. **Puccinia Elytrariæ** P. Henn. Hedw. 1895, p. 320. — Soris hypophyllis in maculis pallidis suborbiculariter dispositis, dense gregariis, atro-cinNAMOMEIS, primo epidermide rupta, pallida cinctis, dein liberis, subpulverulentis; teleutosporis plerumque unicellularibus, ovoideis, clavatis, ellipsoideis, subglobosis v. medio 1-septatis, paulo constrictis, episporio ca. 3 μ . crasso, apice incrassato, rotundato. 15-28 \times 13-18, pedicello hyalino-fuscescente vel flavo-brunneo, usque ad 45 μ . longo, subclavato, persistente, 3-4 μ . cr.

Hab. in foliis vivis *Elytrariæ crenatæ*, in Brasilia (GLAZIOU) et *E. tridentatæ* in Mexico (HOLWAY).

134. **Puccinia Blechi** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 214. — Maculis luteolis; soris congregatis, parvis, non confluentibus, castaneis, pulveraceis; uredosporis rotundatis, ellipticis v. ovoideis, 21-33 \times 18-27, membrana fusca, aculeolata, poris germinationis binis, oppositis; teleutosporis forma et magnitudine variis, 30-51 \times 18-30, mediis non v. paulo constrictis, apice rotundatis, basi rotundatis v. rarius paulo attenuatis, membrana luteola, apice non incrassata, verruculoso-rugosis; pedicello varie disposito, hyalino, fragili.

Hab. in foliis *Blechi* sp., in Æquatoria.

135. **Puccinia Tetramerli** Seymour, Bot. Gaz. XXII, 1896, p. 423, Pringle's Mexican. Fungi n. 9. — Maculis nullis; soris amphigenis, usque ad 5 mm. diam., obscuris; sporis ellipticis, verrucis obtusis dense tectis, obscuris, 11-15 $\frac{1}{2}$ \times 33-42; pedicello circiter 78 μ . longo, colore sporarum v. hyalino, basi aspero.

Hab. in foliis *Tetramerii aurei*, Oaxaca, Mexico (PRINGLE).

136. **Puccinia Amphilophii** Diet. et Holw. Bot. Gaz. 1897, p. 30. — Soris uredosporiferis hypophyllis, rarius epiphyllis, minutis v. me-

diocribus, brunneis; uredosporis ovatis v. late ellipticis, 23-27 \times 20-24, longe aculeatis, luteo-brunneis; soris teleutosporiferis hypophyllis, minutis, nigris, pulverulentis; teleutosporis late ellipticis, utrinque rotundatis, siccitate apice basique depressis modice constrictis, 33-40 \times 26-30, apice non incrassatis, castaneis, breviter aculeatis; pedicello sporam æquante, hyalino, basi plerumque appendiculis munito, caduco.

Hab. in foliis vivis *Amphilophii* spec., Cuernavaca Mexico (HOLWAY).

137. ***Puccinia cordobensis*** P. Henn. Hedw. 1897, p. 214. — Soris 1156
ramiculis, effusis, primo epidermide tectis, dein irregulariter erumpentibus, epidermide rupta cinctis, castaneis, usque ad 7 cm. longis, ramos circumdantibus canceriformibus deformantibusque; uredosporis ellipsoideis, subglobois vel ovoideis, flavis, dense aculeato-asperatis, 17-24 \times 16-22; teleutosporis late ellipsoideis vel subrectangularibus, utrinque applanatis, medio septatis constrictis, late brunneis, 28-36 \times 22-25. episporio 2 μ . crasso, verruculoso, castaneo; pedicello hyalino, interdum flexuoso, persistente, 40-65 \times 6-9.

Hab. ad ramos *Pithecocteni* cynanchoidis pr. Cordoba Argentinae (HIERONYMUS).

138. ***Puccinia elegans*** Schroet. Hedw. 1896, p. 238; *P. transformans* 1157
Ell. et Ev. Erythea 1897, p. 6. — Soris ramos, caules, folia tegentibus, deformantibus destruentibusque, raro singularibus, plerumque confluentibus, epidermide pallida rupta cinctis, cinnamomeo-ochraceis, pulverulentis; teleutosporis late ellipsoideis vel oblongis; brunneis, apice rotundato-obtusis, subincrassatis, interdum gibbosis medio 1-septatis, paulo vel haud constrictis, 30-36 \times 20-24; episporio 3-4 $\frac{1}{2}$ μ . crasso pallide castaneo, verrucoso; pedicello brevi, hyalino, fragili usque ad 13 μ . longo, 4 $\frac{1}{2}$ -5 $\frac{1}{2}$ μ . crasso.

Hab. in caulibus ramulisque *Tecomæ* stantis, in California et in Argentina (HIERONYMUS, LORENTZ). — A *P. ornata* Harkn. ex California diversissima.

139. ***Puccinia cretica*** Holw. Erythea 1897, p. 31. — Maculis nullis; 1158
soris pulveraceis, amphigenis, sparsis, cinnamomeis, epidermide rupta cinctis; teleutosporis levibus, ellipticis, leviter constrictis, cellulis rotundatis subæqualibus, interdum irregularibus angulosisque, apice non incrassatis, episporio tenui donatis, 28-40 \times 16-24, pedicello hyalino sporam æquante v. subæquante, fragili ac plerumque abrupto, interdum laterali suffultis.

Hab. in foliis *Cressæ creticæ*, in California.

140. **Puccinia Nephrophylli** P. Henn. Pilz. Ostafri. p. 50. — Soris 1159
hypophyllis, dense gregariis, confluentibus, raro solitariis, castaneis, subpulverulentis, 0,1-0,2 mm.; teleutosporis oblongis, apice pallidiore papillatis incrassatis, medio 1-septatis, constrictis, læte brunneis, 24-30 \times 15-20; episporio levi, brunneo; stipite persistente, hyalino, 12-22 \times 4-5.

Hab. in foliis vivis *Nephrophylli* spec., in Africa trop. (VOLKENS.).

141. **Puccinia tumidipes** Peck — Syll. VII, p. 654 — var. *argentina* 1160
P. Henn. Hedw. 1896, p. 235. — Soris uredosporiferis amphigenis, pulvinatis ochraceis sparsis; uredosporis oblongis ovoideis vel clavatis, fusco-brunneis vel ochraceis apice paulo incrassato, dense aculeatis, 26-35 \times 16-22; teleutosporis oblongis vel late ellipsoideis, utrinque rotundatis, apice paulo incrassatis medio paulo constrictis, læte castaneis, episporio levi 4-5 μ . crasso, castaneo, 35-50 \times 26-32, pedicello hyalino, basi clavato usque ad 60 μ . longo, interdum 13 μ . inflato.

Hab. in foliis *Lycii argentei* pr. Cordoba Argentinae (HIERONYMUS).

142. **Puccinia Negeriana** Diet. Engl. Jahrb. XXII, p. 351. — Soris 1161
hypophyllis, rarius epiphyllis, parvis, dense gregariis acervos plerumque rotundatos rarius oblongos variæ magnitudinis (1-8 mm.) constituentibus, læte cinnamomeis, pulvinatis, nudis; teleutosporis pro maxima parte unilocularibus, ovoideis v. globosis, 21-32 \times 17-25, raro usque 37 \times 35, singulis bilocularibus ellipticis v. globosis, medio non vel vix constrictis, 28-40 \times 25-31, membrana levi, dilute et sordide fusca, apice valde (usque 13 μ .) incrassata instructis, maturatis statim germinantibus, pedicello firmo, hyalino, spora duplo vel quadruplo longiore.

Hab. in foliis vivis *Solani furcati* duobus locis in Chile (NEGER).

143. **Puccinia Solani-tristis** P. Henn. Hedw. 1896, p. 236. — Ma- 1162
culis flavis vel aurantiacis, rotundatis, sparsis; soris hypophyllis, aggregatis, orbiculariter dispositis, atris; uredosporis subglobosis, ellipsoideis vel ovoideis, pallide flavis vel fusciscentibus, levibus, 10-14 \times 9-13; teleutosporis oblongis vel subclavatis, pallide brunneis vel fusciscentibus, 20-34 \times 11-13, apice obtusis vix incrassatis, medio 1-septatis constrictisque, episporio levi, brunneolo; pedicello hyalino, brevi.

Hab. in foliis vivis Solani tristis, Serra do Mar in Brasilia (ULE).

144. **Puccinia Hieronymi** P. Henn. Hedw. 1896, p. 234. — Maculis 1163
pallidis amphigenis, rotundatis, subulatis (?); soris sparsis, pulvinato-tuberculatis sæpe confluentibus, cinnamomeis; sporis subglobosis, ovoideis, ellipsoideis vel clavatis, plerumque unicellularibus vel medio septatis haud constrictis, apice vix incrassatis, rotundato-obtusis v. subapiculatis, 22-33 \times 15-30, læte brunneis; episporio levi 3-5 μ . crasso; pedicello hyalino vel subflavescenti usque ad 60 μ . longo, 5-7 μ . crasso, interdum inflato.

Hab. in foliis Solani nodiflori, Sierra chica de Cordoba Argentina (HIERONYMUS).

145. **Puccinia claviformis** Lagh. Ured. herb. Fries. 1895, p. 53. — 1164
Soris hypophyllis in maculis (5 cm. diam.) circularibus dense congregatis, parvis, confluentibus, firmis; teleutosporis claviformibus, apice rotundatis, basi attenuatis, medio paullo constrictis, 34-40 \times 20-26; episporio fuscescenti, levi, ad apicem plerumque incrassato; pedicello persistenti, firmo. subbrevis.

Hab. in foliis Solani in Surinam Amer. merid. (SCHWEINITZ sub *Æcidio solanito*).

146. **Puccinia Solani** Schw. Journ. Acad. Nat. Scienc. 1853, p. 281; 1165
Lagerheim, Ured. Herb. Fl. Fries p. 73, Syll. XI, p. 204 nomen (nec Cke.) — Soris punctiformibus, pulvinuliformibus, firmis, in tota superficie inferiori folii sparsis, rarius confluentibus, epidermide non tectis, castaneis; teleutosporis ovoideis, medio non constrictis, episporio pallide fusco, levi, crasso, æquabili crassitudine vel versus apicem paullo incrassato, 28-34 \times 20-26; pedicello persistenti, longo, tenui, superne pallide fuscescente.

Hab. in foliis Solani spec. in Surinam et Æquatoria America merid.

147. **Puccinia araucana** Diet. et Neg. Engl. Jahrb. 1897, p. 159. — 1166
Æcidio- et teleutosporis ramulos foliaque deformata copiosissime obtegentibus; pseudoperidiis brevibus, ca. $\frac{1}{2}$ mm. altis, 0,15-0,3 mm. latis, albis, margine denticulato præditis; acidiosporis oblongis v. ellipsoideis, 21-30 \times 15-20, episporio tenui, minute verruculoso indutis, aurantiacis; soris teleutosporiferis atro-fuscis, minutis, pulvinatis dense gregariis; teleutosporis ellipticis v. oblongis, 32-45 \times 20-28, utrinque rotundatis, ad septum leniter constrictis, apice paullo incrassatis, brunneis, levibus, pedicello longissimo (usque ad 140 μ .), tenui, supra brunneolo suffultis.

Hab. in foliis ramisque vivis Solani cyrtopodii, in silvis subandinis flumine Biobio perfluxis in Chile (NEGER).

148. **Puccinia Philibertiae** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1167 p. 60. — Amphigena, plerumque hypophylla; soris hemisphaericis, obscure castaneis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., superficialibus, plerumque circinantibus; teleutosporis ellipticis v. obovatis, 20-30 \approx 15-20, vix constrictis, apice rotundatis obtusisque, loculo inferiore subpallidiore et sæpe basim versus angustato, episporio levi, apice vix incrassato, intus granulosis; pedicello gracili, subhyalino, 55-65 μ . longo; mesosporis numerosissimis, plerumque minoribus.

Hab. in foliis et folliculis Philibertiae viridifloræ?, Las Cruces, New Mexico (Wooron).

149. **Puccinia Ditassæ** P. Henn. Hedw. 1896, pag. 236. — Maculis 1168 pallidis vel fuscescentibus; soris sparsis singularibus vel aggregatis, pulvinatis, applanatis, brunneo-atris, duris, compactis ca. 1 mm. diametro; teleutosporis ovoideis, oblongis, apice rotundato-obtusis vel applanatis, haud incrassatis, 20-30 \approx 15-20, medio constrictis, flavo-brunneis, episporio levi pallide cinnamomeo 3 μ . crasso, pedicello subhyalino vel brunneolo usque ad 45 μ . longo.

Hab. in foliis vivis Ditassæ spec. in prov. St. Catharina Brasiliæ (ULE) et D. bonariensis pr. Cordoba Argentina (LORENTZ).

150. **Puccinia Hemipogonis** P. Henn. Hedw. 1895, p. 92. — Soris 1169 in apicibus ramorum cucurbitariiformiter dispositis, pulvinatis, confluentibus, atris, duris; teleutosporis ellipsoideis v. ovoideis, obtusis, brunneis, medio septatis, ad septa haud constrictis, 22-28 \approx 18-25; episporio castaneo, 4-5 $\frac{1}{2}$ μ ., levi; pedicello hyalino usque ad 15 μ . longo. 4-5 μ . crasso.

Hab. in apicibus ramorum Hemipogonis setacei, in prov. Goyaz Brasiliæ (ULE).

151. **Puccinia Metastelmatis** P. Henn. Hedw. 1896, p. 236. — Ma- 1170 culis nigricantibus subrotundatis $\frac{1}{2}$ -1 cm. diametro; soris minutis, punctiformibus, atris, dense gregariis orbiculariter dispositis, interdum confluentibus; teleutosporis clavatis, oblongis vel turbinateis, apice obtusis rotundatis vel applanatis, vix vel paullo incrassatis, pallide flavis vel fuscidulis, 23-30 \approx 14-18, medio vix vel haud constrictis; episporio levi, fuscidulo; pedicello hyalino vel subfusco usque ad 30 μ . longo, 3-4 μ . crasso.

Hab. in foliis vivis Metastelmatis odorati, in prov. St. Catharina Brasiliæ (ULE).

152. *Puccinia Rouliniæ* P. Henn. Hedw. 1896, p. 238. — Soris hypophyllis sparsis vel confluentibus, rotundatis, pulvinatis, applanatis, cinnamomeis, ca. $\frac{1}{3}$ - $\frac{1}{2}$ mm. diametro; teleutosporis clavatis, oblongis vel subturbinatis, apice obtusis vix incrassatis, pallide flavis, paulo vel haud constrictis, 25-33 \times 13-15; episporio levi subflavo; pedicello 15-20 \times 3, subflavescenti, interdum subclavato.

Hab. in foliis vivis *Rouliniæ convolvulaceæ*, in prov. de Salta Argentina (HIERONYMUS, LORENTZ).

153. *Puccinia Schlechteri* P. Henn. Hedw. 1895, p. 326. — Soris amphigenis, plerumque hypophyllis, laminam omnino tegentibus, applanato-pulvinatis, umbrinis, sæpe confluentibus; uredosporis ovoideis v. ellipsoideis, flavis, levibus, 15-18 \times 9-10; teleutosporis intermixtis clavatis, elongatis, medio septatis, constrictis, levibus, apice obtuso-incrassatis v. subpapillatis, flavo-fuscidulis, 28-45 \times 14-18; pedicello elongato, subhyalino, usque ad 45 μ . longo, inflato, usque ad 14 μ . crasso.

Hab. in foliis *Gomphocarpi Schinziani* in Transvaalia (SCHLECHTER).

154. *Puccinia Acocantheræ* P. Henn. Pilz. Ostaftr. p. 50. — Maculis pallidis, rotundatis, amphigenis, zona rubro-fusca circumdatis; soris hypophyllis, pulvinatis, sæpe aggregatis confluentibusque, firmis, cucurbitariiformibus, 3-6 mm. diam., rufofuscis; teleutosporis late ellipsoideis, ovoideis v. subclavatis, apice rotundato-obtusis, rarissime oblique subapiculatis, levibus, brunneis v. brunneo-fuscis, medio 1-septatis, vix constrictis, 28-38 \times 20-28 episporio 4-5 μ . crasso; pedicello hyalino, persistente, usque ad 75 \times 4-6.

Hab. in foliis *Acocantheræ Schimperii* in Africa trop. (HOLST). — *P. Lindavianæ* P. Henn. affinis.

155. *Puccinia Apocyni* Diet. et Holw. Bot. Gaz. 1897, p. 33. — Soris epiphyllis, dilute fuscis, dense orbiculariter conglobatis, in maculis flavis circularibus, 2-4 mm. diam.; teleutosporis oblongis, apice breviter conicis v. rotundatis, distincte constrictis, loculo inferiore angustato v. rotundato, 32-50 \times 16-23, pallide fuscis, levibus, apice pallidioribus, valde incrassatis; pedicello firmo, sporam æquante.

Hab. in foliis vivis *Apocyni androsæmifolii* pr. Mexico (HOLWAY)

156. *Puccinia gillicola* P. Henn. in Sydow, Ured. n. 1212; Hedw. 1898, p. 270. — Soris minutis, obscuris; uredosporis globosis, atrobunneis, punctatis. 16-18 μ . diam; teleutosporis oblongis v. ovoi-

deis, 25-40 × 18-24, atro-brunneis, apice vulgo obtusis incrassatisque, pedicello hyalino gracili usque 60 μ . longo suffultis.

Hab. in foliis *Giliae californicæ*, Snow Mount Californiæ. — Ad *P. Gilie* Ell. et Harkn. valde accedit, sed ob uredosporas atro-brunneas, punctatas et teleutosporas breviores tamen videtur satis diversa.

157. **Puccinia Dieteliana** Syd. Hedw. 1898, p. 215. — Pseudoperidiis ¹¹⁷⁶ in acervulos parvos per totam inferiorem superficiem foliorum sparsos compositis, margini humili reflexo denticulato præditis; æcidiosporis ellipticis v. subglobosis, 18-23 × 16-19, episporio tenui, subtiliter verruculoso præditis; soris teleutosporiferis eadem distributione qua æcidia, pulvinatis, prominentibus, firmis, obscure brunneis teleutosporis clavatis v. fusiformibus, basi attenuatis, apice rotundatis v. rarius conicis, ad septum constrictis, levibus, flavo-brunneis, apice valde incrassatis et sæpe hyalinis, 42-62 × 16-22, pedicello firmo, hyalino usque 80 μ . longo suffultis.

Hab. in foliis *Lysimachijæ clethroidis*, Tokyo Japoniæ (SHIRAI). — Teleutosporæ huius speciei perfecte cum eis *Pucciniæ Daji* Clint. ex America boreali congruunt, sed ob æcidia omnino diversa species.

158. **Puccinia Euphorbiæ** P. Henn. Syll. XI, p. 195. — var. *minor* ¹¹⁷⁷ Diet. et Holw. Bot. Gaz. 1897, p. 31 — Differt a forma typica sporis minoribus, 40-55 μ . longis.

Hab. in foliis vivis *Euphorbiæ* spec. in Mexico (HOLWAY).

159. **Puccinia destruens** P. Henn. Hedw. 1895, p. 92. — Soris ¹¹⁷⁸ ramos, folia, caules tegentibus, deformantibus destruentibusque, confluentibus, late effusis, atris, pulverulentis; uredosporis subglobosis, brunneis, aculeatis, poro medio, 21-24 μ .; teleutosporis intermixtis, late ellipsoideis, medio septatis, paulo constrictis, brunneis v. fusco-brunneis, utrinque rotundatis, obtusis, 28-35 × 23-36, episporio castaneo, 3 μ . crasso, aculeato; pedicello brevi, hyalino, 9-11 μ . longo, 5-6 μ . crasso.

Hab. in ramis, foliis caulibusque *Euphorbiaceæ* indeterminatæ in prov. Goyaz Brasiliæ (ULE).

160. **Puccinia Plantaginis** West — Syll. VII, p. 662 (diagn. incompl.). ¹¹⁷⁹ — Soris hypophyllis, sparsis vel rarius confluentibus, parvis, rotundatis, pustuliformibus, primo epidermide tectis, demum denudatis, epidermide rupta circumdatis; uredosporis rotundatis v. ovoideis, membrana fusca, tenui, æquali, echinulata, poris germinationis binis oppositis, 24-30 μ . diam.; teleutosporis ovoideis

v. piriformibus, medio non constrictis, apice rotundatis, basi rotundatis v. attenuatis, membrana æquali, castanea, verruculosa, 33-42 × 24; pedicello hyalino, fragili.

Hab. in foliis *Plantaginis lanceolatae* in Belgio.

161. *Puccinia Bougainvilleæ* Schroet. Hedw. 1896, p. 232. — Soris 1180

hypophyllis sparsis, rotundatis, 0,4-0,6 mm. diametro, applanatis, epidermide rupta cinctis, atro-ochraceis; teleutosporis ellipsoideis vel subclavatis, 30-50 μ . plerumque 37-44 × 26-30 μ ., utrinque rotundatis, medio septatis constrictisque, episporio 3 μ . crasso, levi, læte brunneo; pedicello usque ad 44 μ . longo, 9 μ . crasso, hyalino.

Hab. in foliis vivis *Bougainvilleæ stipitatae*, Quebrada de Colanchanga Sierra de Cordoba (HIERONYMUS) et B. frondosæ, Sierra de Tucuman (LORENTZ) in Argentina. — An *Æcidium Bougainvilleæ* Spog. huc est ducendum?

162. *Puccinia amphispile* Diet. et Holw. Erythea 1896, p. 79. — 1181

Soris amphigenis, magnitudine variis, punctiformibus usque 2 mm. diam., sparsis vel circa sorum centram circulum incompletum formantibus, pulverulentis; uredosporis ellipticis v. subglobosis, bruneolis, echinulatis, 25-31 × 20-23; teleutosporis ellipticis, utrinque rotundatis, ad septum modice constrictis, apice ac fine superiore cellulæ inferioris papillam hyalinam applanatam gerentibus, levibus, brunneis, 30-40 × 17-25, pedicello sublongo delicato deciduo fultis.

Hab. in foliis *Polygoni spec.* in California.

163. *Puccinia septentrionalis* Juel, Mycol. Beiträge IV, 1895, p. 383 1182

(*P. mammillata* Juel, Mycol. Beitr. I, nec Schroet.). — *Æcidiis* sine spermogoniis amphigenis, numerosis sed non gregariis, in maculis turgidis, effusis sæpius obscure violaceis, pseudoperidi plerumque late aperto, redreflexo; soris uredosporiferis hypophyllis; mox nudis, pulveraceis, in pagina superiore foliorum maculas pallidas formantibus; uredosporis 20 μ . diam., contenu dilute aurantiaco, episporio fusco, aculeato, poris germinationis 3-4; teleutosporis in soros minutos, atro-fuscos, hypophyllos, rarissime etiam epiphyllis congestis, varia magnitudine, ellipsoideis, ovoideis v. piriformibus, 28-48 × 13-23, facile deciduis, cellula superiore vertice incrassata v. sæpe verrucosa et summo apice hyalina, cellula inferiore poro germinationis laterali sæpe verruciformi; episporio levissimo, castaneo, contenu hyalino.

Hab. in foliis vivis *Polygoni vivipari* in montibus Scan-

dinavia; æcidiosporæ in *Thalictro alpino* (= *Æcidium Sommerfeltii* Johans.) ibique et in Helvetia, Groenlandia, Islandia.

164. **Puccinia monticola** Kom. in Fg. Rossici n. 61 (Diagnosim non vid.). 1183

Hab. in foliis vivis *Polygoni alpini* in Turkestan.

165. **Puccinia biformis** Lagh. Bol. Brot. 1890, vol. VIII, p. 137. 1184

— Soris in foliis rotundatis, in caulibus elongatis, primo epidermide tectis, dein denudatis, atro-fuscis; uredosporis 21-33 μ . diam., globosis v. ovoideis, biformibus, membrana flavo-brunnea, aculeata v. membrana crassiore, castanea, verruculosa præditis; telentosporis 30-39 \times 21-27, oblongis, medio haud v. levissime constrictis, apice rotundatis v. subacuminatis, apiculo hyalino auctis, basi rotundatis v. angustatis, membrana castanea, verruculosa, ad apicem nunquam incrassata et pedicello deciduo præditis.

Hab. in foliis et caulibus *Rumicis bucephalophori* in Lusitania.

166. **Puccinia punctiformis** Diet. et Holw. Erythea 1894, p. 128. — 1185

Soris amphigenis, vulgo hypophyllis, sparsis, punctiformibus, ca. 0,2-0,4 mm. diam., uredosporiferis ochraceis, teleutosporiferis obscure brunneis; uredosporis obovatis, brunneolis, poris 4 germinationis æquatorialibus instructis, episporio tenui echinulato præditis, 28-40 \times 20-27; teleutosporis plerumque clavatis, basi attenuatis, apice rotundatis v. conicis, 5-8 μ . incrassatis, leniter constrictis, levibus, brunneis, 34-45 \times 21-29; pedicello circiter dimidio minore quam spora, firmo.

Hab. in foliis *Rumicis salicifolii*, Berkeley, California (BLASDALE).

167. **Puccinia æqualis** P Henn. Pilz. Ostfr. p. 50. — Maculis pal- 1186

lidis, fusciscentibus; æcidiis sparsis, rotundatis, hypophyllis, ochraceis; pseudoperidiis gregariis, subhemisphæricis, diutius clausis, dein apertis, fuscis; æcidiosporis subglobosis v. oblongis, acutangulis, flavis, dein subfusciscentibus, 25-35 \times 18-25; episporio hyalino, aculeato, 5-8 μ . incrassato; soris uredosporiferis hypophyllis, minutissimis, punctiformibus, sparsis, ochraceis, subpulverulentis; uredosporis oblongis v. ovoideis, aculeato-verrucosis, flavo-brunneis fusciscentibus, 26-38 \times 22-26; episporio 1-2 μ . crasso, brunneo, dense aculeato, aculeis circ. 1 μ . longis; soris teleutosporiferis minutissimis, punctiformibus, solitariis, sparsis, atris, hypophyllis; teleutosporis late ellipsoideis, verrucosis, medio 1-septatis, vix constrictis, 30-36 \times 20-24, atrorufis; episporio tenui, dense verrucoso; pedicello usque ad 25 \times 7 μ ., hyalino.

Hab. in foliis vivis *Antidesmæ* spec.? in Africa trop. (VOLKENS).

168. **Puccinia Boehmeriæ** P. Henn. Hedw. 1895, p. 336. — Maculis 1187
fuscis; soris uredosporiferis gregariis, rotundatis, sæpe nervos sequentibus, oblongato-pustulatis, ochraceo-fuscis; uredosporis ovoideis, subglobosis, oblongis, interdum unilateraliter curvulis, aculeato-verrucosis, hyalino-flavescentibus, 15-26 \times 14-20, episporio aculeato; soris teleutosporiferis sparsis, hypophyllis, pulvinatis, ochraceis; teleutosporis clavatis, ovoideis, apice valde incrassatis, rotundato-obtusis, subapplanatis v. emarginatis, medio septatis, constrictis, loculis subglobosis v. subtriangularibus, levibus, subflavis v. flavofuscescentibus, 25-40 \times 15-28; pedicello hyalino, persistente, recto v. curvulo, ca. 40 μ . longo, 4-5 μ . crasso.

Hab. in foliis *Boehmeriæ* spec. pr. Blumenau Brasilia: (MÖLLER).

169. **Puccinia Quercus** Otth, Bern. Mittheil. 1868, p. 68. — Teleuto- 1188
sporibus, in soribus *Uredinis Quercus* Brond. inspersis, late fulvis, obovatis v. subellipsoideis, utrinque late rotundatis, æqualiter aut subinæqualiter bilocularibus, non constrictis, levissimis, apiculo minuto plerumque parum evoluto, semper tamen conspicuo; stipite hyalino fragilissimo.

Hab. in foliis *Quercus* in Helvetia.

170. **Puccinia Mougeotii** Lagh. Ured. herb. Fries. 1895, p. 66. — 1189
Æcidiiis, uredosporibus et teleutosporibus eodem tempore evolutis; *æcidiiis* hypophyllis v. caulinis, irregulariter dispositis, elongato-cupulatis, margine erecto; *æcidiosporibus* polygono-globosis, circiter 18 μ . diam., membrana tenui, subtiliter verruculosa; soribus uredosporiferis hypophyllis v. caulinis, rotundatis v. oblongis, sparsis, brunneis; uredosporibus subglobosis, 20 μ . diam., membrana æquabili crassitudine, luteola, echinata; soribus teleutosporiferis hypophyllis v. caulinis, elongatis, diu epidermide tectis, denique liberis, nigro-brunneis, pulveraceis; teleutosporibus obovatis, medio lenissime constrictis, apice rotundatis, basin versus attenuatis, 30-35 \times 15-22 membrana luteo-fusca, levi, ad apicem sporæ incrassata; pedicello deciduo.

Hab. in foliis et caulibus vivis *Thesii alpini* in Gallia, Suecia.

1. **Puccinia Passerinii** Schroet. Ber. Schles. Ges. 1876, p. 37, P. 1190
Thesii Syd in Uredineen n. 339; Lagerheim, Ured. Herb. Fries p. 67: Syll. VII, p. 602 (ut subspec.). — *Æcidiiis* et spermogoniis

amphigenis, totum folium occupantibus, sparsis v. congregatis, parvis, cupuliformibus; æcidiosporis angulato-rotundatis, 18 μ . diam., membrana tenui, subtiliter tuberculata; soris teleutosporiferis foliicolis v. caulicolis, parvis, ovalibus v. rotundatis, primo epidermide tectis, dein liberis, nigris; teleutosporis forma varia, medio non constrictis, utrinque rotundatis, 35-45 \times 25-32, membrana crassa, æquabili crassitudine, castanea, tuberculata; pedicello caduco.

Hab. in foliis et caulibus *Thesii ebracteati* in Germania, Italia, Dania.

172. **Puccinia Guillemineæ** Diet. et Holw. Bot. Gaz. 1897, p. 34. — 1191

Soris plerumque epiphyllis, rotundis, $\frac{1}{2}$ -1 mm. diam. crassis, interdum confluentibus, brunneis; teleutosporis ellipticis, utrinque rotundatis, lenissime constrictis, 29-37 \times 20-23, episporio obscure castaneo, levi, apice valde incrassato (4-7 μ .); pedicello longo, fragili.

Hab. in foliis *Guillemineæ* spec. pr. urbem Mexico (HOLWAY).

173. **Puccinia Steinmanniæ** Diet. et Neg. Engl. Jahrb. 1897, p. 156. — 1192

Soris minutis, verruciformibus, in acervulos plus minusve expansos ampingenos consociatis, castaneis, epidermide diu tectis, denique liberia, pulveraceis; teleutosporis forma irregulari, ellipticis, oblongis v. cuneiformibus, haud raro angulatis, basi rotundatis v. attenuatis medio-constrictis, 35-48 \times 22-33, fuscis, episporio levi, nonnumquam grosse plicato indutis, pedicello tenui, fragili, 25-40 μ . longo suffultis.

Hab. in foliis vivis *Steinmanniæ graminifoliæ* pr. Santiago in Chile (MEYER). — Teleutosporæ simplices ellipticæ v. subglobosæ numerosæ adsunt bilocularibus immixtæ.

174. **Puccinia immaculata** Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII 1193

Afd. III, n. 10, 1897, p. 20 extr. — Hypophylla, totum folium occupans, maculas non efficiens; soris parvis, ca. $\frac{1}{2}$ mm. diam., semiglobosis, æqualiter dispersis, non confluentibus, nigro-castaneis; teleutosporis brevibus, ca. 26-29 \times 18, medio non constrictis, utraque cellula fere semiglobosa, membrana crassiuscula, pallide brunnea, apice leviter incrassata; pedicello persistente, sæpe 50 μ . longo.

Hab. in foliis *Jobiniæ hernandifoliæ*, Rio Grande do Sul, Silveira Martins Brasilis (MALMÉ).

175. **Puccinia Habenaria** P. Henn. Pilz. Ostfr. p. 50. — Soris ure- 1194

dosporiferis amphigenis caulicolisque, sparsis v. gregariis, pustulatis, minutis, flavo-ochraceis; uredosporis ovoideis v. subglobosis

ellipsoideisque, subflavis, granulato-verrucosis, 16-20 × 13-16 episporio tenui granuloso-verrucoso; soris teleutosporiferis sparsis, minutissimis, punctiformibus, fuscis; teleutosporis oblongis, subclavatis, flavo-subfuscescentibus, granulatis, apice obtusis vix incrassatis, medio subconstrictis, 24-36 × 11-13 pedicello brevi subhyalino.

Hab. in foliis caulibusque *Habenariæ* sp. in Africa trop. (VOLKENS).

176. *Puccinia cinnamomea* Diet. et Holw. Bot. Gaz. 1897, p. 29. — 1195

Soris irregulariter v. lineariter aggregatis, hypophyllis, punctiformibus. pulvinatis, cinnamomeis; teleutosporis oblongis, 28-38 × 14-20, constrictis, utrinque rotundatis, apice calyptrato- vel raro conico-incrassatis, membrana pallide cinnamomea, levi; pedicello sporam æquante v. paulo brevior, firmo, hyalino.

Hab. in foliis *Orchidæ* cujusdam pr. *Cuernavaca* in Mexico (HOLWAY). — Teleutosporæ statim post maturitatem germinantes.

177. *Puccinia Bomareæ* P. Henn. Hedw. 1896, p. 242. — 1196

Uredosporiferis sæpe in maculis fuscis, hypophyllis pulvinatis diutius tectis, oblongis vel rotundatis ochraceis; uredosporis subglobosis vel ellipsoideis, flavis vel citrinis, 20-25 × 16-23, intus punctatis; episporio luteo-brunneo punctato-verrucoso 5-6 μ . crasso; soris teleutosporiferis amphigenis, atris, pulvinatis; teleutosporis subrectangularibus vel late ellipsoideis, flavis vel citrinis, apice obtusis vel applanatis, raro subapiculatis, rufobrunneis, medio 1-septatis constrictis, 26-35 × 20-26; episporio brunneo vel rufobrunneo, 3 μ . crasso; pedicello brevi rufobrunneo.

Hab. in foliis vivis *Bomareæ* edulis in Brasilia (ULB). — *P. Allii* (DC.) Sacc. affinis.

178. *Puccinia Blasdalei* Diet. et Holw. Erythea 1893, p. 248. — 1197

Æcidiiis laxè orbiculariter dispositis; pseudoperidiis fissura longitudinali apertis, acidiosporis aurantiacis, subtiliter verrucosis, ovoideis v. polygonalibus 24-31 × 18-24; soris uredosporiferis oblongis, interdum confluentibus, epidermide cinctis; uredosporis late ovatis v. subglobosis, echinulatis, 27-32 × 22-30, contentu aurantiaco, protoplasmate faretis; soris teleutosporiferis, atris, confluentibus, epidermide tectis; teleutosporis oblongis v. clavatis, valde irregularibus apice plerumque truncatis v. punctiformibus basi rotundatis v. attenuatis, ad septum leniter constrictis, fuscis, apice modice incrassatis, 36-60 × 18-27; pedicello circiter 20-25 μ . longo; paraphysibus castaneis.

Hab. in foliis scapisque vivis Allii serrati in California (BLASDALE). — Adsunt teleutosporæ simplices bilocularibus immixtæ.

179. **Puccinia granulispora** Ell. et Gall. Bull. Torr. Bot. Club. 1895, 1198 p. 61. — Soris linearibus, $\frac{1}{4}$ -1 cm. longis, in foliis brevioribus, $\frac{1}{2}$ mm. latis, primo tectis, demum epidermidem in longitudine findentibus, sed parum prominentibus; uredosporis subglobosis, pallidis, subtiliter echinulatis, 20-30 \times 15-20; teleutosporis oblongis, clavatis v. obovatis, 45-60 \times 20-25, levibus, contentu granuloso, leniter constrictis, loculo superiore subgloboso v. elliptico, obscuriore, apice rotundato v. obtuso-punctato v. truncato modice incrassato, loculo inferiore pallidiore, cuneato; pedicello sporam non æquante, colorato; mesosporis non numerosis, brevioribus, obovatis, 20-23 μ . longis.

Hab. in scapis foliisque Allii cernui, Montana, Amer. bor. (KELSEY). — A *P. Porri* differt soris linearibus et teleutosporis majoribus.

180. **Puccinia Ficalheana** Lagh. Bol. Brot. VIII, 1890, p. 137. — 1199 Soris teleutosporiferis amphigenis, elongatis, sparsis v. circulariter ordinatis, primo epidermide tectis, dein denudatis, atris; teleutosporis ovoideis, medio non v. vix constrictis, apice et basi rotundatis, membrana crassa, castanea, ad apicem non incrassata, scobiculis rotundatis v. canaliformibus instructa et pedicello deciduo præditis, 42-54 \times 30-36.

Hab. in foliis Scillæ campanulatae in Lusitania.

181. **Puccinia Funkiæ** Diet. Hedw. 1898, p. 214. — 1200 Soris hypophyllis, singulis epiphyllis, circularibus usque 4 mm. diam., loculis numerosis compositis, vel punctiformibus, sparsis: atris, epidermide tectis, paraphysisibus brunneolis circumdati; uredosporis ellipticis, ovoideis v. subglobosis, 25-35 \times 20-25, aurantiacis, episporio flavescenti papillato crasso indutis; teleutosporis clavatis, fusiformibus v. oblongis, apice truncatis, rotundatis v. acuminatis, mediocriter incrassatis, basi attenuatis v. rotundatis, ad septum leniter v. vix constrictis, levibus, castaneis, 34-62 \times 17-23, pedicello brevi vel usque ad 25 μ . longo suffultis.

Hab. in foliis Funkiæ ovatae in horto botanico, Tokyo Japoniæ (P. MIYOSKI). — *P. Gladioli* proxima, sed omnino diversa.

182. **Puccinia Pasithea** Diet. et Neg. Engl. Jahrb. 1897, p. 156. — 1201 Uredosporis globosis v. late ellipticis, 20-25 μ . diam., episporio 2 $\frac{1}{2}$ -3 μ . crasso, dilute fusco, echinulato, poris ca. 8 perforato in-

dutis; soris teleutosporiferis amphigenis, præsertim epiphyllis, rotundis v. oblongis, $\frac{1}{5}$ -1 mm. diam., sparsis, pulvinatis, atris; teleutosporis forma varia, obovatis usque fusiformibus vel apice vel basi angustatis vel utrinque attenuatis, ad septum leniter vel vix constrictis, 30-53 \approx 17-27, brunneis, levibus, apice incrassatis et sæpe pallidioribus; pedicello firmo, hyalino, usque ad 50 μ . longo. Adsunt numerosæ teleutosporæ uniloculares obovatæ v. oblongæ.

Hab. in foliis vivis *Pasitheæ* cœruleæ variis locis in Chile (NEGER). — An status æcidiosporiferus est *Æcidium Pasitheæ* Diet. et Neg.?

183. **Puccinia Habranthi** Diet. et Neg. Engl. Jahrb. 1897, p. 157. — 1202

Spermogoniis in maculis purpureis, usque ad 5 mm. longis, 3 mm. latis, numerosis, ca. 150 μ . latis, 200 μ . longis; æcidiis amphigenis in acervulis varios, in extrema parte foliorum cumulosos conso-ciatis, margine reflexo, irregulariter denticulato; æcidiosporis polyhedricis v. oblongis, 25-30 \approx 18-25, subtiliter verrucosis, aurantiacis; soris teleutosporiferis in utraque pagina foliorum dispersis, circularibus, 1-1 $\frac{1}{2}$ mm. diam., epidermide plumbea tectis, pulverulentis; teleutosporis ellipticis v. oblongis, 42-75 \approx 27-45, apice interdum papilla vix prominente auctis, episporio tenui, intense castaneo, minute verrucoso indutis, pedicello brevissimo, caduco suffultis.

Hab. in foliis vivis *Habranthi* andicolæ in Chile (NEGER).

184. **Puccinia Reichei** Diet. et Neg. Engl. Jahrb. 1897, p. 157. — 1203

Spermogoniis globosis, ca. 150 μ . diam.; æcidiis amphigenis, seriatis dense aggregatis et in acervulos irregulares v. ellipticos congestis; pseudoperidiis oblongis, margine albo, caduco, vix inciso; æcidiosporis oblongis v. subglobosis, 22-30 \approx 18-25, aurantiacis, subtiliter verrucosis; soris teleutosporiferis mediocribus, ellipticis, in lineas longas sæpe confluentibus, primo epidermide fissa cinctis, mox nudis, pulveraceis, castaneis; teleutosporis ellipticis, utrinque rotundatis, medio vix v. non constrictis, episporio tenui, dilute castaneo, grosse tuberculato indutis, apice papilla distincta hyalina ornatis, 35-48 \approx 25-33; pedicello brevi, caduco.

Hab. in foliis vivis *Habranthi chilensis* in Chile (NEGER).

185. **Puccinia Sisyrinchii** Mont., Syll. VII, p. 727 (diagnosis incompleta!). — 1204

Uredosporis amphigenis, oblongis, striiformibus confluentibusque, epidermide pallida, velata tectis; uredosporis subglobosis vel ellipsoideis, sæpe acutangulis, pallide flavis, 20-30 \approx 18-24, er

sporio subflavo, 3-5 μ . crasso levi vel punctato pedicello hyalino usque ad 15 μ . longo, fragili; soris teleutosporiferis oblongis striiformibus, epidermide rupta tectis, dein atris; teleutosporis oblongis vel subclavatis apice obtuse rotundatis vel subpapillatis, incrassatis, medio 1-septatis plus minus constrictisque, brunneis vel pallide ochraceis 43-52 \times 17-24; episporio apice incrassato, brunneo levi; pedicello subhyalino vel brunneo, 30-50 μ ., longo, ca. 7-9 μ . crasso.

Hab. in foliis *Sisyrinchii palmifolii* in et graminifolii Chile, Argentina (HIERONYMUS).

186. *Puccinia angulata* Diet. et Neg. Engl. Jahrb. 1897, p. 156. — 1205

Spermogoniis nullis; æcidiis solitariis, dispersis, in maculis flavidis minutis foliorum, valde inconspicuis, margine pseudoperidii reflexo, lacerato, albo; æcidiosporis oblongis, angulatis, 21-28 \times 15-20, minutissime verrucosis; soris uredosporiferis dispersis in maculis flavis, minutis, epidermide diu tectis, deinde, ea fissa, circumdatis, ellipticis, ochraceis; uredosporis ovoideis, ellipticis v. subglobosis, 22-28 \times 20-25, episporio crasso, pallidissimo, brevissime echinulato præditis; soris teleutosporiferis minutis v. mediocribus, sparsis v. in maculis stramineis plus minusve dense aggregatis, amphigenis, epidermide tectis, nigris, paraphysibus arcuatis, dilute brunneis circumdatis; teleutosporis forma irregulari, oblongis v. clavatis, angulatis, apice truncatis v. attenuatis, rarius rotundatis, basi rotundatis v. angustatis, ad septum leniter constrictis. 30-48 \times 17-25 membrana flavo-brunnea, apice castanea et modice incrassata, levi indutis; pedicello tenui, usque ad 20 μ . longo, brunneo. Teleutosporæ simplices numerosæ cum bilocularibus commixtæ sunt.

Hab. in foliis scapisque vivis *Sisyrinchii pedunculati* duobus locis in Chile (NEGER).

187. *Puccinia Dichelostemmæ* Diet. et Holw. Erythea 1895, p. 78. 1206

— Soris nigris oblongis 2-3 mm. longis, pulverulentis, epidermide fissa cinctis; sporis late ellipticis v. subsphæricis, 53-68 \times 48-55, medio non constrictis membrana æqualiter circiter 5 μ . crassa, levi, atro-brunnea opaca præditis, pedicello brevi vulgo lateraliter inserto fultis.

Hab. in foliis *Dichelostemmæ congestæ*, Washington Amer. bor.

188. *Puccinia Pitcairnia* Lagh. Bull. Soc. Myc. de Fr. 1895, p. 214.

— Soris uredosporiferis hexophyllis, parvis, linearibus, epidermide fissa semitectis, fuscis; uredosporis rotundatis v. ovoideis. 24-33 μ .

diam., membrana crassa, fusca, aculeata; soris teleutosporiferis hypophyllis, punctiformibus, subnigris, primo epidermide tectis, firmis; teleutosporis uni- vel bicellularibus, ovoideis v. oblongis, $30-48 \times 21-24$, medio paullo constrictis, apice plerumque rotundatis, membrana fusca, levi, apice valde incrassata; pedicello hyalino, persistenti.

Hab. in foliis Pitcairniæ sp. in Æquatoria.

189. **Puccinia Hypoxidis** Mc Alp. Agr. Gaz. Sydney. VI, 1896, p. 4, 1207
fig. 15-18. — Soris uredosporiferis amphigenis, minutis, fuliginis, rotundis v. ovalibus, bullatis, epidermide rupta cinctis, gregariis v. sparsis; uredosporis globosis v. ovalibus, pallide luteis, levibus, $19\frac{1}{2}-22\frac{1}{2}$ μ . diam. vel $19\frac{1}{2}-22\frac{1}{2} \times 17-19\frac{1}{2}$; soris teleutosporiferis amphigenis, nigris, bullatis, confluentibus, folium deformantibus, epidermide diu tectis; teleutosporis castaneis, elongato-clavatis, medio vix vel non constrictis, $38-62 \times 17-25$, loculo superiore quadratico, oblongo vel clavato, apice sæpe truncato valdeque incrassato, obscure castaneo, plerumque brevior, interdum centraliter v. lateraliter valde rostrato, loculo inferiore basim versus attenuato, dilutiore, flavo; pedicello pallide luteo, persistente, $25-30$ μ . longo, $5\frac{1}{2}$ μ . lato; mesosporis pallidis v. castaneis, apice rotundatis incrassatisque, rostratis, $25-36 \times 11-18$.

Hab. in foliis Hypoxidis hygrometricæ, Victoria Australiae.

190. **Puccinia rimosa** Link. Wint. in Hedw. 1880, p. 28. — Singu- 1208
laris planta; rimas replet profundas angustas, 1-5 mm. longas æquales, sæpe caulem circumcirca cingentes; sporis maximis, fuscis, aliis multo minoribus oblongis, sæpe didymis, pellucidis immixtis.

Hab. in calamis Isolepidis nodosæ Victoria Australiae. — Forte huc spectat *Caeoma rimosum* Link in Linnè Spec. pl. 1V, T. VI, 2, p. 6; exsicc. Thüm. Myc. univ. n. 1235 et 1436 in calamis *Junci acuti*. An diversa a *P. cancellata*?

191. **Puccinia nigrovelata** Ell. et Tracy Bull. Torr. Bot. Club. 1895, 1209
p. 60. — Soris uredosporiferis brevibus, 1-2 mm., oblongo-ellipticis, margine erecto epidermidis ruptæ cinctis; uredosporis ovatis v. ellipticis, pallide luteolis, aculeolatis, $15-24 \times 12-15$, in cumulo cinnamomeis; soris teleutosporiferis applanatis, 1-3 mm. longis, $\frac{3}{4}-1$ mm. latis, epidermide nigro-translucente dense tectis; teleutosporis clavato-oblongis, $35-55 \times 14-18$, valde constrictis, loculo superiore latiore et obscuriore, loculo inferiore pallido, in pedicel-

lum angustato, episporio levi, apice rotundato v. obtuse acutato, papilla hyalina v. nulla ornato, incrassato; pedicello plerumque sporam non æquante.

Hab. in foliis culmisque *Cyper*i strigosi, Mississippi Amer. bor. (TRACY), et *Cyper*i spec. pr. urbem Mexico (HOLWAY).

192. *Puccinia subcoronata* P. Henn. Hedw. 1895, p. 94. — Maculis 1210
flavis, sæpe confluentibus; soris uredosporiferis amphigenis, diutius tectis, ochraceis, oblongis, rotundatis v. confluentibus; uredosporis ellipsoideis, ovoideis, hyalino-flavis, verrucoso-echinulatis, 14-24 × 12-18; pedicello hyalino, brevi v. obsoleto; soris teleutosporiferis sparsis v. subconfluentibus, rotundatis, punctiformibus v. oblongis, atris; teleutosporis clavatis, vertice incrassatis, subobtusis v. apiculatis, denticulatis subcoronatisque. flavo-brunneis, levibus, ad septum haud constrictis, 30-50 × 12-18; pedicello subflavo, subclavato, 15 μ . longo, 6-8 μ . crasso.

Hab. in foliis vivis *Cyper*i spec. pr. Goyaz Brasilæ (ULE).

193. *Puccinia Cladii* Ell. et Tracy, Bull. Torr. Bot. Club. 1895, p. 61. 1211
— Culmicola; soris uredosporiferis parvis, ellipticis, subconfluentibus, et tunc sæpe 2 cm. vel ultra longis, primo tectis, dein epidermide rupta luteola limitatis; uredosporis ovatis v. ellipticis, 22-25 × 20, vel subglobosis, 18-20 μ . diam., ex hyalino obscure rubro-brunneis v. ferrugineo-luteis, aculeatis, pedicellatis; teleutosporis in soros similes sed obscuriores congestis, clavatis v. oblongis, 45-60 × 18-20, constrictis, obscure brunneis, loculo inferiore angustiore et pallidiorè, episporio levi v. sursum subtiliter granuloso-asperulo, apice obtuso-rotundato, valde incrassato v. oblique papillato v. interdum subtruncato-applanato; pedicello sporam non æquante, hyalino v. dilute tincto, firmo.

Hab. in culmis pedunculisque *Clad*ii effusi, Mississippi, Amer. bor. (TRACY).

194. *Puccinia canaliculata* (Schwein.) Lagh. Ured. herb. Fries. 1895, 1212
p. 51, *Sphæria canaliculata* Schwein. Syn. Fung. Amer. bor. n. 1487; *Puccinia cellulosa* Berk. et Curt. in Grev. XX, p. 108. — Soris teleutosporiferis hypophyllis, linearibus, congregatis, epidermide tectis, brunneis; teleutosporis dense constipatis, pariete paraphyllum fuscarum angustarum circumdatis, angustis, medio non v. leniter constrictis, apice plerumque oblique acuminatis, basi attenuatis, 50-60 μ . longis, 12-17 μ . latis, membrana levi, luteola, ad apicem sporæ valde incrassata et obscuriore; stipite spora breviorè, firmo, luteolo. Uredosporæ non visæ.

Hab. in Cypero et in involucro Scirpi in Amer. bor.

(SCHWEINITZ).

195. *Puccinia Mac-Clatchieana* Diet. et Holw. Erythea 1894, p. 127. 1216

— Hypophylla: soris punctiformibus, pulvinatis, sparsis v. secus lineas dispositis, sed non confluentibus; teleutosporis gracillimis, clavatis v. fusiformibus, apice truncatis v. rotundatis v. obconicis 6-11 μ . incrassatisque, deorsum ratenuatis, ad septum constrictis, levibus, brunneis. 40-75 \times 18-23; pedicello firmo, atro-brunneo, sporam æquante.

Hab. in foliis Scirpi silvat Pasadena Californiæ (Mc CLATCHIE).

196. *Puccinia Caricis-frigidæ* Ed. Fisch. Bull. Herb. Boiss. 1897, 1214

p. 396. — Uredosporis (in soris teleutosporiferis) solitariis, globosis, applanato-globosis v. ellipsoideis, 21-26 μ . diam., dilute fuscis, laxe et minute aculeatis, aculeis hyalinis, conicis, poris germinationis 2; soris teleutosporiferis plerumque hypophyllis, initio epidermide tectis, dein erumpentibus, fornicatis, plus minusve elongatis, 1-2 mm. longis, $\frac{1}{2}$ mm. latis, nigris; teleutosporis plerumque piriformibus v. clavatis, apice rotundatis, basi in pedicellum attenuatis, plus minusve constrictis, levibus, 42-58 \times 18-25, loculo inferiore longiore et angustiore, pallidiore, incrassato (6-9 μ .), loculo inferiore dilute fusco; pedicello longo, firmo, hyalino, non caduco.

Hab. in foliis vivis Caricis frigidæ in Helvetia. — Stata acidiosporif. nascitur eisdem locis in Cirsiiis.

197. *Puccinia Atkinsoniana* Diet. Bull. Cornell Univ. III, n. 1. 1897, 1215

pag. 19. — Soris uredosporiferis hypophyllis, paucis epiphyllis, ellipticis v. linearibus, cinnamomeis, epidermide rupta cinctis; uredosporis ellipticis, obovatis v. raro sphaericis, 22-30 \times 17-22, apicem versus 2 poris germinationis, episporio spinuloso, flavo-brunneo præditis; soris teleutosporiferis hypophyllis, nigro-brunneis, pulvinatis, circularibus, ellipticis v. linearibus, firmis; teleutosporis plerumque clavatis, ad septum typice constrictis, 40-60 \times 18-28, loculo superiore sphaerico v. ovali, apice rotundato, episporio crasso, apice 5-10 μ . diam. ornato, loculo inferiore vulgo cuneiformi, in pedicellum attenuato v. basi rotundato, episporio levi, brunneo instructis; pedicello 20-60 μ . longo, persistente.

Hab. in foliis Caricis luridæ, Auburn, Alabama Amer. bor.

198. *Puccinia vaginata* Juel. On nögra heter. Ured. p. 56; Oefversigt af K. Vet.-Akad. Förhandl. 1896, n. 3, p. 215 cum icone; 1216

Æcidium Saussureæ Joh. a silvestre Juel l. c. p. 53. — Pseudo-

peridiis in maculis numerosis pallidis. cellulis peridialibus 27-34 μ . latis, semper spermogoniis præditis; ædiosporis 14-18 μ . diam.; uredosporis echinulatis, ferrugineis, 22 \times 16; teleutosporis fuscis, 41-48 \times 16-20, pedicellis persistentibus, 40-50 μ . longis.

Hab. æcidia in foliis Saussureæ alpinæ, uredo- et teleutosporæ in foliis Caricis vaginatæ in Jemtlandia Sueciæ.

199. **Puccinia tecta** Ell. et Barth. Erythea 1896, p. 79. — Hypo- 1217
phylla, per totum folium sparsa; soris uredosporiferis mox epidermidem rumpentibus et sporas abundanter emittentibus; uredosporis late ellipticis v. obovatis, 20-25 \times 15-18, primo distincte echinulatis, subhyalinis, deinde levibus, pallide luteolis, granulosis, eguttulatis; episporio tenuissimo, usque ad 1 μ . crasso; paraphysibus interdum numerosissimis; soris teleutosporiferis abundantibus, perexiguis, ca. $\frac{1}{4}$ mm. diam., subglobosis, persistenter tectis, sæpe confluentibus in maculis longis continuis insidentibus et magnam foliorum partem occupantibus; teleutosporis pallide v. obscure luteis, clavatis v. oblongis, 40-60 \times 15-18, loculo inferiore plerumque cuneato, subhyalino, loculo superiore sæpe in rostrum curvatum, acuminatum terminali vel rotundato, vel etiam apice applanato, guttulate v. granuloso; pedicellis firmis, hyalinis, 10-25 μ . longis.

Hab. in foliis vivis Caricis sparganioidis in Kansas Amer. bor. (BARTHOLOMEW). — *Puccinie angustatæ* Peck proxima, sed differt ab ea soris uredosporiferis paraphysatis et soris teleutosporiferis minoribus.

200. **Puccinia Sparganioidis** Ell. et Barth. Erythea 1896, p. 2. — 1218
Amphigena; soris uredosporiferis angustissimis, aurantiacis, circiter 1 mm. longis, primo epidermide tectis, dein nudis; uredosporis obovatis v. piriformibus, aurantiacis, aculeatis, stipitatis, 22-35 \times 14-20; soris teleutosporiferis minutis, ellipticis, oblongis v. linearibus, 1-1 $\frac{1}{2}$, rarius 2-2 $\frac{1}{2}$ mm. longis, mox nudis, subnigris; teleutosporis oblongo-ellipticis v. oblongo-clavatis, lenissime constrictis, 35-55 \times 15-20, rotundatis v. sæpius apice obtuse acutatis, deorsum in pedicellum firmum persistentem, 40-60 μ . longum, subæqualem, hyalinum angustatis; episporio levi, supra distincte incrassato.

Hab. in foliis Caricis sparganioidis, Kansas Amer. bor. (BARTHOLOMEW). — Soris minoribus et teleutosporis latioribus a *Pucc. ludibunda* diversa.

201. **Puccinia minuta** Diet. Bull. Cornell Univ. III, n. 1, 1897, p. 19. 1219

— Soris hypophyllis, punctiformibus, minutissimis; soris teleutosporiferis diu epidermide elevata velatis; teleutosporis utrinque rotundatis v. basi in pedicellum brevem crassum attenuatis, medio leniter constrictis, episporio levi, brunneo, apice circiter 7 μ . crasso præditis; uredosporis sphaericis (30 μ . diam.) vel late ellipticis (28-34 \times 26-31), atro-brunneis, spinulosis, 3 poris germinationis instructis.

Hab. in foliis Caricis verrucosæ, Auburn, Alabama Amer. bor.

202. **Puccinia Schrøteriana** Kleb. in Zeitschr. f. Pflanzkrankh. 1220

1895, p. 261. — Soris teleutosporiferis minutis, e brunneo nigris, epidermidem rumpentibus, plerumque epiphyllis; teleutosporis breve clavatis, interdum elongatis v. irregularibus, medio tenuiter septatis, 40-55 μ . longis, loculo inferiore plerumque angustiore, haud v. vix incrassato, in stipitem attenuato, loculo superiore latiore, valde incrassato, obscure brunneo, apice rotundato v. acuto; uredosporis globosis, 25-25 μ . diam., subtiliter aculeolatis, brunneolis, membrana crassa; pedicello teleutosporarum longo, sporam æquante, pallide flavo.

Hab. in foliis vivis Caricis Goodenoughii et C. vulpinæ in Germania. — Status æcidiosporus est *Æcidium Serratulæ* Schrøet., Sacc. Syll. VII, p. 804.

203. **Puccinia fusiformis** Diet. Hedw. 1897, p. 29. — Soris uredospori- 1221

riferis minutis, breviter linearibus vel punctiformibus, hypophyllis; uredosporis ellipticis, ca. 23 \times 18, pallide fuscis, breviter echinulatis; soris teleutosporiferis eadem forma qua uredosporiferis, pulvinatis ochraceis, postea nigrescentibus; teleutosporis fusiformibus, utrinque paullo angustatis vel apice rotundatis, ad septum modice constrictæ, 37-53 \times 12-15 apice incrassatis (ca. 7,5 μ .), dilute fuscis, levibus, pedicello spora dimidio brevior suffultis.

Hab. in foliis Caricis speciei indeterminatæ, Serra Geral Brasiliæ (ULE).

204. **Puccinia Unciniarum** Diet. et Neg. Engl. Jahrb. XXII, p. 351. 1222

— Soris maculis fuscis emortuis foliorum linearibus insidentibus, minutis, oblongis, epidermide longitrorsum fissa tectis; uredosporis ellipsoideis v. ovoideis, rarius subglobosis, 26-37 \times 22-25, brunneis, echinulatis; teleutosporis clavatis, 38-60 \times 15-25, apice rotundatis, basi attenuatis, ad septum modice constrictis, levibus, cellula superiore globosa castanea, inferiore triangulari, plerumque angustiore, sine colore, pedicello æquilongo hyalino suffultis.

Hab. in foliis *Unciniæ trichocarpæ* et *phleoidis* in silvis pr. Concepcion, Chile (NEGER).

205. **Puccinia Ligericæ** Syd. Uredineen n. 676 et 677, Mycotheca Mar- 1223
chica n. 3534. — *Æcidii* hypophyllis, irregulariter sparsis; pseudoperidiis cupulatis, margine crenatis, flavis, æcidiosporis subglobosis v. ovalibus, pallide uteolis, levibus, 12-18 μ . diam; uredosporis in soros hypophyllis, minutos rotundatos v. oblongos initio epidermide tectos dein erumpentes luteo-brunneos congestis, globosis, subglobosis v. ovalibus levibus, dilute flavo-brunneis, 30-31 \times 20-23; teleutosporis in soros hypophyllis rotundatos rariu-oblongo-rotundatos minutos maculis brunneis insidentes obscure brunneos mox erumpentes congestis, oblongo-clavatis, pedicellum versus attenuatis, medio modice constrictis, levibus, poris germinationis 2 in medio loculorum dispositis instructis, 42-47 μ . longis, loculo superiore obscure brunneo, apice usque ad 9 μ . incrassato, 16-23 μ . lato, loculo inferiore luteolo-brunneo. 13-19 μ . lato; pedicello hyalino v. pallidissime luteolo, 10-15 μ . longo.

Hab. æcidiola et æcidia in foliis *Senecionis viscosi*, uredosp. et teleutosporæ in foliis *Caricis ligericæ* pr. Berolinum Germaniæ.

206. **Puccinia Triodiæ** Ell. et Barth. Erxthea 1896, p. 3. — Amphi- 1224
gena; soris ellipticis v. oblongis, $\frac{1}{2}$ -2 mm. longis, mox nudis, subpulvinatis, subnigris; uredosporis subglobosis, 18-22 μ . diam., primo hyalinis, episporio crasso, subechinulato, dein luteo-brunneis sublevibusque; teleutosporis ellipticis v. subobovatis, vix constrictis, luteo-brunneis, 22-30 \times 19-22, episporio levi, apice rotundato, distincte incrassato; pedicello firmo, persistente, interdum obliquo, luteolo, 80-90 μ . longo.

Hab. in foliis *Triodiæ* purpureæ, Kansas Amer. bor. (BARTHOLOMEW). — *P. Windsoræ* affinis.

207. **Puccinia Schmidiana** Diet. Berichte Naturf. Gesellschaft. Leip- 1225
zig. 1895-96, p. 19 μ . *Æcidium Leucoji* Bergem. Bals. et De Not. in Erb. Critt. ital. ser. II, n. 99. — Spermogoniis hypophyllis in greges densos subrotundos dispositis, ab æcidiiis annulariter circumdatis; æcidiiis amonigenis et spermogoniis contraposis, maculas flavescentes efformantibus; pseudoperidiis albis seu albo-flavis, orbiculatis, patelliformibus, margine reflexo lobato, cellulis isodiametricis, oblongo-polyhedricis v. globosis, hyalinis, verrucosis, æcidiosporas superantibus; æcidiosporis ellipsoideis v. globosis, subtiliter verrucosis, aurantiacis, 22-30 \times 18-25; soris uredosporiferis amphige-

nis in maculas minutas dispositis, ochraceis, breviter lirellæformibus; uredosporis globosis v. late ellipsoideis, 25-32 × 22-30, episporio pallide brunneolo, aculeato, poris germinationis numerosissimis; soris teleutosporiferis et teleutosporis ut in *Pucciniis sessilis*, *Phalaridis* etc.

Hab. æcidiola et æcidia in foliis vivis Leucoji æstivi et verni in Germania, Italia bor., Hungaria; uredosporæ et teleutosporæ in foliis Phalaridis arundinaceæ in Germania.

208. **Puccinia procera** Diet. et Holw. Erythea 1893, p. 249. — Soris 1226
 uredosporiferis amphigenis, plerumque epiphyllis, oblongis v. linearibus, epidermide rupta vestitis, ochraceis; uredosporis ovoideis usque globosis, subtiliter echinulatis, fuscidulis, 32-45 × 30-38; soris teleutosporiferis hypophyllis, linearibus, in lineas parallelas dispositis, epidermide non rupta tectis, atris, paraphysibus numerosis, fuscis; teleutosporis forma et magnitudine varia, oblongis usque linearibus, ad septa leniter constrictis, plerumque inferne angustatis, cellula inferiore elongata, vertice plerumque truncatis, parum incrassatis, levibus, dilute fuscis, 45-100 × 18-23; pedicello brevi, fuscidulo.

Hab. in foliis Elymi condensati in California (Mc CLATCHIE).

209. **Puccinia pratensis** Blytt, Christiania Vid. Selsk. Forh. 1896, 1227
 n. 6, p. 52. — Soris epiphyllis, parvis, ellipticis aut elliptico-oblongo-linearibus; uredosporis ferrugineo-rufis, globularibus v. obovato-globularibus, aculeatis, poris pluribus instructis, 27-30 × 24-27; teleutosporis atro-brunneis, facile deciduis, pedicellis fragilibus insidentibus, basi verticeque rotundatis, medio aliquantulum constrictis, 43,2 × 30; pedicello brevi, 10,8 μ . longo; episporio dense verruculoso, ubique crassitudinis æqualis; in cellula inferiori teleutosporæ poro in medio cellulæ vel infra medium sito.

Hab. in foliis vivis Avenæ pratensis in Norvegia et Bohemia.

210. **Puccinia polysora** Underw. Bull. Torr. Bot. Cl. 1897, p. 86, 1228

Puccinia Tripsaci Diet. et Holw. Bot. Gaz. 1897, p. 27. — Soris amphigenis, minutissimis, brevibus, numerosis sed irregulariter sparsis, diu epidermide velatis, demum erumpentibus; uredosporis magnis, late ovalibus, 30-37 × 28-33, vix echinulatis, episporio mediocri, pallide ferrugineo; teleutosporis variis, irregulariter oblongis, sæpe leniter constrictis, 33-41 × 20-25, oculis sæpe angulosis, apice non incrassatis, loculo superiore plerumque latiore, apice rotundato, pedicello firmo, fuscidulo, plerumque brevi fultis.

Hab. in foliis *Tripsaci dactyloïdis*, Alabama Amer. bor. et Mexico.

211. **Puccinia Piptatheri** Lagh. Bol. Brot. 1890, vol. VIII, p. 136. 1229

— Soris uredosporiferis epiphyllis, oblongis v. linearibus, sæpe confluentibus, ferrugineo-brunneis; uredosporis globosis v. sæpius ovatis, 21-27 μ . diam., membrana aculeata, flavo-brunnea, contextu aurantiaco, paraphysibus nullis intermixtis; soris teleutosporiferis hypophyllis, oblongis v. linearibus, diu epidermide tectis; teleutosporis oblongis v. clavatis, medio non v. leviter constrictis, apice deplanatis v. acuminatis, basi attenuatis, 42-60 \times 15-20, membrana luteola, levi, ad apicem incrassata et brunnea, pedicello brevissimo, persistenti, brunneo præditis, contextu paraphysum castanearum circumdatis.

Hab. in foliis *Piptatheri multiflori* in Lusitania.

212. **Puccinia substriata** Ell. et Barth. Erythea 1897, p. 47. — Am- 1230

phigena; soris uredosporiferis minutis, $\frac{1}{4}$ -1 mm. punctiformibus v. ellipticis, epidermide irregulariter rupta tectis; uredosporis globosis v. obovatis, 19-23 \times 22-30, ferrugineis, subtiliter echinulatis; soris teleutosporiferis plerumque oblongis, circiter 1 mm. longis, epidermide denique rupta tectis; teleutosporis obovatis v. clavatis, ferrugineis, distincte constrictis, loculo superiore plerumque latiore atque lenissime asperulo, apice modice incrassatis, regulariter rotundatis v. interdum deplanatis, haud papillatis, subtiliter striatis, 27-52 \times 19-23; pedicello firmo, brevi, vix colorato, 15-20 μ . longo.

Hab. in foliis culmisque vivis *Paspali setacei*, Rooks County, Kansas Amer. bor. (BARTHOLOMEW). — A *Puccinia Paspali* Tracy et Earle differt soris. uredosporis lenissime echinulatis et pedicello crasso, brevi.

213. **Puccinia Paspali** Tracy et Earle, Bull. Torr. Bot. Club. 1895, 1231

p. 174. — Hypophylla, interdum amphigena; soris uredosporiferis linearibus, interdum confluentibus, obscure brunneis; uredosporis globosis v. obovatis, valde echinulatis, brunneis, 25-30 \times 24; soris teleutosporiferis linearibus, obscurioribus, plerumque vagiis insidentibus; teleutosporis irregularibus, 35 \times 27 vel 30 \times 35, plerumque ovalibus, valde constrictis, epīsporio apice distincte incrassato; pedicello subhyalino, oblique laterali.

Hab. in foliis vaginisque *Paspali virgati*, Louisiana, Amer. bor.

214. **Puccinia jubata** Ell. et Barth. Erythea, 1896, p. 2. — Soris 1232

teleutosporiferis oblongis v. linearibus, mox erumpentibus, nudis,

1-10 mm. longis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. latis, sæpe confluentibus, nigris; teleutosporis clavato-oblongis, leviter constrictis, 27-65 \times 13-20, loculo superiore obscuriore, apice obtuso-rotundato v. truncato, papillato, recto v. obliquo, inferiore pallidiore, in pedicellum firmum persistentem coloratum, 40-70 μ . longum gradatim angustato; uredosporis paucis visis, 18-22 \times 14-16, subtiliter aculeatis, luteolo-brunneis.

Hab. in vaginis culmisque vivis Hordei jubati in Kansas, Amer. bor. (BARTHOLOMEW). — *P. graminis* et *P. omnivoræ* affinis.

215. **Puccinia kansensis** Ell. et Barth. Erythea 1896, p. 1. — Soris 1233
amphigenis, plerumque epiphyllis, sparsis, minutissimis, sublinearibus, confluentibus, superficialibus; uredosporis subglobosis v. ovatis, 16-20 \times 14-16, granulis dilute aureis, episporio levi, irregulari, 2-3 μ . crasso, hyalino; teleutosporis luteolo-brunneis, breve ellipticis, rotundatis, leviter constrictis, subæqualibus, loculo inferiore interdum cuneiformi, apice non incrassatis, 25-30 \times 15-18; pedicello hyalino, brevi, debili, rugoso.

Hab. in foliis Buchloes dactyliferæ in Kansas, Amer. bor. (BARTHOLOMEW).

216. **Puccinia mellea** Diet. et Neg. Engl. Jahrb. 1897, p. 156. — Soris 1234
uredosporiferis epiphyllis, ochraceis; uredosporis ellipticis, 30-33 \times 25-28; echinulatis, poris germinationis numerosis iunctis; soris teleutosporiferis hypophyllis, linearibus v. oblongis. epidermide interdum fissa tectis, nigris, paraphysibus curvatis brunneis inclusis; teleutosporis oblongis, clavatis v. baculiformibus, 42-80 \times 11-18, apice truncatis, late rotundatis v. conicis, haud raro subcoronatis, mediocriter incrassatis, dilute melleis, apice obscurioribus levibus; pedicello brevissimo, fusco.

Hab. in foliis Festucæ muralis pr. Concepcion in Chile (NEGER).

217. **Puccinia Milii** Eriks. Bot. Centralbl. 1895, Bd. 64, p. 382. — 1235
Soribus uredosporiferis oblongis, solitariis v. seriatim ordinatis, in maculis flavis foliorum, aurantiacis, cum paraphysibus apice globoso-inflatis; uredosporis globosis 19-24 μ ., aculeatis; paraphysibus usque ad 64 μ .; soribus teleutosporiferis aggregatis, oblongis, tectis, atrofusis, hypophyllis; teleutosporis clavatis, apice explanatis, 27-41 μ . longis, cellula basali 12-14 μ ., terminali 12-19 μ . lata.

Hab. in foliis vivis Milii effusi in Suecia.

218. **Puccinia graminella** (Speg.) Diet. et Holw. Erythea 1895, p. 80; 1236
Æcidium graminellum Speg. Dec. Myc. Arg. n. 29; Fg. Argent.

pug. IV, n. 91; Sacc. Syll. VII, p. 832. — Maculis luteis v. purpurascensibus; æcidiis epiphyllis, lineatim interrupte laxèque dispositis; pseudoperidiis persistentibus, apice irregulariter ac frustulatum lacero-dehiscentibus, contextu e cellulis oblongis composito; æcidiosporis ellipticis v. ovoideis, 21-29 \times 18-21, episporio crasso hyalino ruguloso-striolato donatis; soris teleutosporiferis epiphyllis elongatis, pulvinatis, atro-brunneis; teleutosporis ad septum vix constrictis, supra incrassatis, levibus, brunneis, 35-48 \times 22-28, pedicello firmo sporam superante fultis.

Hab. in foliis vivis Stipæ spec. vulgatissimum pr. Buenos Ayres in Rep. Argentina, in foliis Stipæ eminentis in California. — Var. **cbilensis** Neger. Anal. de la Univ. Santiago Chile. 1896, XCIII, p. 783. — A typo teleutosporis interdum trilocularibus recedens. In foliis vivis Stipæ manicatæ in Chile.

219. **Puccinia exigua** Diet. Hedw. 1897, p. 29, (sub nomine *Pucciniæ* 1237 *pygmææ* Diet., nec Erikss.). — Maculis flavis; soris uredosporiferis exiguis ellipticis; uredosporis late ellipsoideis vel globosis, 20-26 \times 18-22, aurantiacis, verruculosi, paraphysibus capitatis intricatis immixtis; soris teleutosporiferis minimis, nudo oculo vix conspicuis, atro-fuscis, epidermide tectis, paraphysibus castaneis inclusis; teleutosporis clavatis vel irregularibus, apice plerumque truncatis et paullo incrassatis, intense castaneis, basi attenuatis et dilutioribus, ad septum modice vel non constrictis, 30-40 \times 15-22 levibus, breviter pedicellatis.

Hab. in Poa annua, Tubarao Brasiliæ (ULE). — *Pucciniæ Poarum* Niels. valde affinis, sed teleutosporis minoribus ab ea distincta.

220. **Puccinia Cryptanthes** Diet. et Holw. Erythea 1893, p. 249. — 1233 Soris sparsis, hypophyllis v. cauliculis, oblongis, minutis, 0,1-3 mm. interdum confluentibus; uredosporis late ovalibus v. globosis, 24-28 \times 20-24, valde fusco-echinulatis; teleutosporis irregularibus, plerumque oblongis, sæpe basi rotundatis, cellula superiore truncata v. apiculata, medio parum constrictis, apice incrassatis (5-10 μ .), levibus, fuscis, 34-50 \times 19-30; pedicello non firmo, sporam parum superante. Adsunt sæpe teleutosporæ unicellulæ res numerosæ.

Hab. in foliis et culmis vivis Cryptanthes Torreyanæ in California (HOLWAY).

221. **Puccinia Gymnotrichis** P. Henn. Hedw. 1896, p. 242. — Soris 1239 amphigenis, minutis punctiformibus atris, pulvinatis oblongis vel elongatis confluentibusque; teleutosporis oblongis vel subclavatis,

late brunneis medio septatis constrictisque, apice obtusiusculis, incrassatis plus minus papillatis, 28-45 \times 15-18, episporio subcastaneo, levi; pedicello brunneolo, subelavato, persistente, 30-50 \times 6,8.

Hab. in foliis *Gymnotrichis latifoliae*, Sierra de Tucuman Argentina (LORENTZ).

222. **Puccinia abnormis** P. Henn. Hedw. 1896, p. 243. — Soris uredosporiferis oblongis, striiformibus, confluentibus diutius tectis, dein erumpentibus epidermide rupta cinctis, ochraceis vel atrobrunneis; uredosporis subglobosis vel ellipsoideis, fuscis, 22-27 \times 16-23, episporio atrofusco dense aculeato; soris teleutosporiferis amphigenis, oblongis, striiformibus, primo tectis dein longitudinaliter erumpentibus, atrobrunneis; teleutosporis valde irregularibus diversisque lanceolatis, oblongis, clavatis vel subovoideis, sæpe apice usque ad medium bipartitis furcatis, mox longitudinaliter mox transverse vel oblique septatis vix constrictisque, interdum continuis, apice rotundato-obtusis, subapplanatis vel subapiculatis; episporio fuscolivaceo, 2-3 μ . crasso, levi; pedicello hyalino usque ad 65 μ . longo, 5-6 μ . crasso, persistente.

Hab. in foliis *Gymnotrichis spec.* Prov. de Cordoba Argentina (GALANDER).

223. **Puccinia substerilis** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 58. — Soris plerumque hypophyllis, superficialibus, pulvinatis, ellipticis, atro-brunneis, $\frac{1}{2}$ -1 mm. longis, nudis; uredosporis echinulatis, globosis v. ellipticis, 20-30 \times 18-22, brunneolo-nigris, episporio subæque incrassato; pedicello gracili, hyalino, subpersistenti, 20-30 μ . longo; teleutosporis oblongis v. clavatis, pallidis, ad septum constrictis, 22-30 \times 12-15, episporio levi, apice rotundato v. subtruncato, plerumque non v. vix incrassato.

Hab. in foliis *Chrysopogonis spec.*, Colorado, Amer. bor. (BAKER).

224. **Puccinia omnivora** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 59. — Soris uredosporiferis minutis, 1-2 mm. longis, primo tectis, dein epidermidem erumpentibus; uredosporis luteis, globosis v. subellipticis, 18-22 μ . diam., subechinulatis; soris teleutosporiferis amphigenis, plerumque hypophyllis, oblongis v. linearibus, 1-10 mm. longis, $\frac{1}{3}$ mm. latis, primo tectis, mox nudis et epidermide rupta cinctis, subacris; teleutosporis ellipticis oblongis, 22-40 \times 12-16, vix constrictis, plerumque utrinque rotundatis, in centro sororum angustioribus pallidioribusque et in pedicellum firmum, 50-70 \times 4-6, luteolo-hyalinum gradatim angustatis, locule superiore

obscuriore, in sporis ellipticis apice rotundato et non papillato, in sporis angustioribus et pallidioribus papilla distincta, luteolo-hyalina, obtuse conica ornato; episporio levi, apice distincte incrassato.

Hab. in foliis culmisque *Chrysopogonis nutantis*, Newfield, New Jersey Amer. bor.

225. *Puccinia versicolor* Diet. et Holw. Bot. Gaz. 1897, p. 28. — 1243

Maculis epiphyllis, purpureis, fuscis v. luteis; soris hypophyllis, oblongis v. linearibus; soris uredosporiferis luteis, epidermide rupta cinctis; uredosporis ovatis, 30-40 × 25-31, episporio crasso, hyalino, breviter echinulatis; soris teleutosporiferis firmis, pulvinatis, nigris, epidermide rupta cinctis; teleutosporis ellipticis, leniter constrictis, utrinque rotundatis, levibus, castaneis, apice varie incrassatis (usque ad 8 μ), 35-45 × 27-33; pedicello hyalino, firmo, usque ad 130 μ longo.

Hab. in foliis vivis *Andropogonis melanocarp*i pr. Gualajara in Mexico (HOLWAY).

226. *Puccinia Duthia* Ell. et Tracy Bull. Torr. Bot. Cl 1897, p. 283. — 1244

Amphigena; soris uredo- et teleutosporiferis minutis, ovalibus, nigris, distinctis; uredosporis subglobosis, episporio tenui leviter echinulato præditis, 30-40 × 35; teleutosporis late ovalibus, leniter constrictis, utrinque rotundatis, apice non incrassatis, levibus, in maturitate obscure bruneis, 40-45 × 26-30; pedicello ad basim sporæ distincte dilatato, deorsum attenuato, 80-120 μ longo.

Hab. in foliis *Andropogonis intermedi*i et *A. pertusi* in India orientali.

227. *Puccinia clavispora* Ell. et Barth. Erythea 1896, p. 79. — 1245

Amphigena; soris linearibus, primo epidermide flavescente tectis, dein nudis, 1 mm.-1 cm. longis; uredosporis obovatis, 20-40 × 18-25, subechinulatis, verruculosi, paraphysibus firmis, clavatis; pedicello firmo sed caduco; teleutosporis clavatis, 40-60 × 18-22, medio constrictis loculo superiore subgloboso vel breviter elliptico, obscuriore, loculo inferiore pallidior, gradatim in pedicellum firmum attenuato; episporio levi, incrassato, apice rotundato.

Hab. in foliis *Andropogonis nutantis* in Kansas Amer. bor. (BARTHOLOMEW). — *Puccinia omnivoræ* Ell. et Ev. affinis, sed differt teleutosporis longioribus latioribusque, constrictis et pedicello brevissimo subobsoleto.

228. *Puccinia americana* Lagh. Ured. herb. Fries 1895, p. 45. —

Uredosporis echinulatis nec verruculosi, episporio tenui, cetera ut in *P. Andropogonis* Schw.

Hab. in foliis vivis *Andropogonis furcati* in Amer. bor.

229. *Puccinia Andropogonis* Otth, Bern. Mittheil. 1873, p. 86, nec Schw. 1246

— Soris plerumque hypophyllis, oblongis, atro-brunneis, zona violascente cinctis; teleutosporis ellipsoideis, latitudine sesquolongioribus, leviter constrictis, flavo-brunneis, levibus, articulo sup. paullo obscuriore, papilla vix manifesta; stipite flavo-brunneolo, teleutosporâ paullo longiore.

Hab. in foliis *Andropogonis Ischæmi*, Steffsburg Helvetia. — Verisimiliter congruit cum *P. Cesatii* Schröt., hinc mutatio nominis superflua.

230. *Puccinia Cenchri* Diet. et Holw. Bot. Gaz. 1897, p. 28. — Soris 1247

minutissimis, hypophyllis, sparsis; soris uredosporiferis epidermide rupta cinctis; uredosporis obovatis v. ellipticis, 36-45 × 30-35, fuscis, echinulatis, poris æquatorialibus instructis; soris teleutosporiferis epidermide tectis, nigris; teleutosporis oblongis, plerumque clavatis, apice truncatis v. irregulariter angulatis, interdum constrictis, basi angustatis v. rotundatis, 40-53 × 18-25, episporio levi, fusco, apice valde incrassato; pedicello brevissimo, fusco.

Hab. in foliis vivis *Cenchri multiflori* pr. Guadalajara in Mexico (HOLWAY).

231. *Puccinia Panici* Diet. et Holw. Erythea 1895, p. 80. — Maculis 1248

flavis, indefinitis; soris uredosporiferis epiphyllis minutissimis, oblongis, epidermide lacerata cinctis, brunneis; uredosporis late ellipticis v. globosis, dense echinulatis, brunneis, 25-31 × 25-29; soris teleutosporiferis epiphyllis pulvinatis, nigris, minutis, oblongis v. linearibus; teleutosporis oblongis v. clavatis, apice incrassatis, rotundatis v. conicis, basi rotundatis v. attenuatis, leniter constrictis, 29-48 × 15-21, brunneis, pedicello vario, plerumque sporam æquante fultis.

Hab. in foliis *Panici virgati* in America boreali. — Adhuc cum *Puccinia emaculata* conjuncta species, sed soris semper epiphyllis ac uredosporis majoribus magis echinulatis diversa.

232. *Puccinia subdiorchidioides* P. Henn. Hedw. 1896, p. 244. — Soris 1249

uredosporiferis amphigenis, striiformibus, epidermide inflata, pallida velatis, ochraceis; uredosporis subglobosis vel ellipsoideis, brunneis vel fuscidulis, 18-23 × 15-21, episporio levi brunneo, tenui; soris teleutosporiferis plerumque hypophyllis interdum epiphyllis, striiformibus subconfluentibusque, atris; teleutosporis oblongis vel clavatis, brunneo-fuscidulis, 30-38 × 15-18, levibus, apice obtuso rotundato, subcrenato vel apiculato subpapillatoque, plerumque

oblique longitudinaliter septatis vel continuis vel horizontaliter septatis plus minus constrictis et loculis subglobosis vel subellipsoideis, pedicello brevi vel plus minus elongato, subhyalino.

Hab. in foliis Panici Cruris-galli pr. Buenos Ayres Argentinae (BETTFREUND). — *P. abnormi* P. Henn. affinis.

233. **Puccinia esclavensis** Diet. et Holw. Bot. Gaz. 1897, p. 29. — 1250

Soris amphigenis, plerumque epiphyllis, minutis v. mediocribus, globosis v. linearibus, in caulibus sæpe confluentibus; soris uredosporiferis cinnamomeis; uredosporis ellipticis, ovatis v. globosis, 30-43 \times 24-33, luteo-fuscis v. castaneis, dense minute verrucosis, poris germinationis 4 æquatorialibus instructis; soris teleutosporiferis atro-fuscis, pulvinatis, nudis; teleutosporis ellipticis, raro obovatis, haud v. leniter constrictis, utrinque rotundatis, apice late incrassatis, 32-41 \times 23-28, levibus, obscure castaneis; pedicello usque ad 160 μ . longo, hyalino.

Hab. in foliis culmisque vivis Panici bulbosi, Esclava pr. urbem Mexico (HOLWAY).

234. **Puccinia Setariæ** Diet. et Holw. Bot. Gaz. 1897, p. 28. — Soris 1251

plerumque epiphyllis, ellipticis v. sublinearibus; soris uredosporiferis cinnamomeis, nudis; uredosporis ellipticis v. subglobosis, interdum angularibus, 28-38 \times 22-29, episporio dense verrucoso, crasso, poris germinationis 6-8, sordide luteo-fuscis; soris teleutosporiferis pulvinatis, atris; teleutosporis ellipticis v. obovatis, raro fusiformibus, haud vel rarissime constrictis, utrinque rotundatis, raro apice conicis, 35-48 \times 24-33, episporio levi, castaneo, apice papillato v. late incrassato ($7\frac{1}{2}$ -13 μ .); pedicello crasso, firmo, usque ad 100 μ . longo, hyalino v. pallide fusco.

Hab. in foliis vivis Setariæ imberbis pr. urbem Mexico (HOLWAY).

235. **Puccinia atra** Diet. et Holw. Bot. Gaz. 1897, p. 29. — Soris 1252

plerumque hypophyllis; soris uredosporiferis plerumque linearibus, usque ad 5 mm. longis, nudis, pulverulentis, cinnamomeis; uredosporis ellipticis v. ovatis, 27-35 \times 21-25, dense minute verrucosis, fuscis; soris teleutosporiferis punctiformibus v. linearibus, sparsis v. conglobatis, nudis, atris; teleutosporis ellipticis, utrinque rotundatis, vix constrictis, levibus, castaneis, apice incrassatis (ca. 5 μ .), 31-38 \times 21-26; pedicello firmo, usque ad 85 μ . longo, hyalino, sæpe superne fuscidulo.

Hab. in foliis vivis Setariæ Grisebachii pr. urbem Mexico, (HOLWAY). — A *P. Setariæ* Diet. et Holw. differt sporis minoribus.

236. **Puccinia Cryptandri** Ell. et Barth. Erythea 1897, p. 47. — Epi- 1253
phylla; soris uredosporiferis linearibus, 1-10 mm. longis, angustis, epidermide longitudinaliter fissa limitatis, dilute brunneis; uredosporis globosis, 20-24 μ . diam. vel ellipticis, 25-30 \times 20-23, luteolobrunneis, subtiliter aculeatis; soris teleutosporiferis ut uredosporiferi, sed brevioribus; teleutosporis oblongo-ellipticis, luteo-brunneis, ad septum constrictis, 35-45 \times 20-23; episporio levi, apice vix incrassato; pedicello sporam æquante v. eam superante.

Hab. in foliis vivis Sporoboli cryptandri, Rooks County, Kansas Amer. bor. (BARTHOLOMEW). — Differt a *Puccinia Sporoboli* Arth. soris longioribus et obscurioribus.

237. **Puccinia Sydowiana** Diet. Hedw. 1897, p. 299. — Soris teleu- 1254
tosporiferis amphigenis, ellipticis v. oblongis, in vaginis plus minusve linearibus, pulvinatis, atris; teleutosporis oblongis, ellipticis v. clavatis, utrinque rotundatis, rarius basi attenuatis, medio leniter constrictis, episporio levi, castaneo, apice paullo v. non incrassato instructis, 33-55 \times 18-30, pedicello usque 100 μ . longo, firmo, flavescenti suffultis.

Hab. in foliis vivis Sporoboli asperi in Kansas Amer. bor. (BARTHOLOMEW). — Differt a *Puccinia Sporoboli* Arth. sporis basi haud angustatis et episporio apice non v. vix incrassato. *Puccinia Sydowiana* Zopf, nec Diet., in Sydow. Mycoth. marchica n. 40 et Sacc. Syll. XI, p. 204 ad *Pucciniam Glechomatis* DC. ducenda est.

238. **Puccinia Arundinariæ** Schwein. Syn. Fung. Car. n. 487; Lagh. 1255
Ured. herb. Fries. 1895, pag. 48. — Uredosporis (paucis visis) globosis, 30 μ . diam., membrana luteola, aculeata; soris teleutosporiferis hypophyllis, parvis, punctiformibus, sparsis, brunneis, epidermide rupta cinctis; teleutosporis plerumque oblongis, medio non constrictis, apice rotundatis, basi attenuatis, 55-65 \times 17-25, membrana crassa, fusca, levi, ad apicem sporæ parum incrassata; pedicello longo, 90 μ ., persistenti, achroo.

Hab. in foliis vivis Arundinariæ macrospermæ in Amer. bor. (LENORMAND). Non *P. Phragmitis* (Schum.) Körn., cfr. Sacc. Syll. VII, p. 630.

239. **Puccinia aristidicola** P. Henn. Hedw. 1896, p. 243. — Soris 1256
foliicolis oblongis vel striiformibus, atris, epidermide rupta cinctis; uredosporis subglobosis vel late ellipsoideis, brunneis, levibus, 24-30 \times 22-25, episporio 4,6 μ . crasso, levi; teleutosporis intermixtis late ellipsoideis, oblongis vel subclavatis, atrobrunneis vel castaneis utrinque rotundatis apice incrassatis, medio leniter constrictis, 28-

40 \approx 18-28; episporio atrocastaneo, levi, 4-6 μ . crasso; pedicello usque ad 120 μ . longo, 6-8 μ . crasso, subhyalino, apice brunneo.

Hab. in foliis *Aristidæ* spec. pr. Cordoba Argentinæ (GALANDER).

240. **Puccinia pygmæa** Eriks. Bot. Centralbl. 1895, Bd. 64, p. 381. 1257

— Soris uredosporiferis minutis, oblongis, lineariter ordinatis, interdum confluentibus, aurantiacis, cum paraphysisibus 48-80 \approx 11-16, apice globoso-inflatis; uredosporis globosis, aculeatis, 17-28 μ . diam.; soris teleutosporiferis minutis, oblongis, linearibus, tectis, atrofuscis, hypophyllis; teleutosporis clavatis, apice explanatis v. lateraliter apiculatis, medio vix constrictis, 35-42 \approx 11-14.

Hab. in foliis vivis *Calamagrostidis epigeii* in Suecia.

241. **Puccinia amphigena** Diet. Hedw. 1895, p. 291. — Soris uredo- 1258

sporiferis minutis, ferrugineis, aparaphysatis; uredosporis globosis, 21 μ . diam. v. ovoideis, 21-25 \approx 19-24, pallide brunneis, echinatis; soris teleutosporiferis amphigenis, plus minus lirellæformibus, pulvinatis, solidis, atris; teleutosporis variis, breve clavatis usque longe fusiformibus, basi in stipitem acutatis, vix constrictis, 33-60 \approx 13-22, levibus, intense luteo-brunneis; episporio apice modice v. valde incrassato; pedicello sporam subæquante, interdum brevior v. longior, brunneo, firmo.

Hab. in foliis vaginisque *Calamagrostidis canadensis* et *longifoliæ*, Chicago et Kansas Amer. bor. (ARTHUR, BARTHOLOMEW).

242. **Puccinia Calamagrostidis** Syd. Uredineen n. 662, Mycotheca Mar- 1259

chica n. 3517 et 3518. — Æcidiis hypophyllis, in maculis orbicularibus ellipticis v. irregularibus sine ordine aggregatis, in petiolis sæpius elongatis; pseudoperidiis cupulatis, margine crenatis; æcidiosporis subglobosis v. oblongo-globosis rarius polygoniis, flavis, 20-28 μ . diam.; uredosporis in soros striæformes flavo-brunneos congestis, subglobosis v. ovoideo-globosis, levibus, dilute flavis, 24-30 μ . diam.; teleutosporis in soros striæformes epiphyllis epidermide plumbea tectis, tandem rima angusta apertis congestis, cylindræcis, 50-58 \approx 15-18, medio vix v. non constrictis, dilute flavo-brunneis, loculo superiore apice applanato, leniter incrassato. dentibusque duobus v. pluribus erectis v. curvatis concoloribus 4-7 μ . longis coronato, loculo inferiore truncato, rarius in pedicellum brevem, deciduum, hyalinum, crassiusculum attenuato.

Hab. æcidiola et æcidia in foliis *Ranunculi Linguæ ureosp.*, et teleutosporæ in foliis *Calamagrostidis neglectæ* pr. Berolinum Germaniæ.

243. *Puccinia subnitens* Diet. Erythea 1895, p. 81. — Uredosporis 1260
subglobosis brunneis, tenuissime verrucosis, poris germinationis
numerosis præditis, 23-24 \times 20-22; soris teleutosporiferis nigris,
firmis, pulvinatis, sæpe in series longas dispositis confluentibusque;
teleutosporis oblongis v. ellipticis, utrinque rotundatis, leniter con-
strictis, apice valde incrassatis, sæpe conicis, 32-48 \times 17-25, levibus,
brunneis, pedicello firmo, hyalino, sporam æquante fultis.

Hab. in foliis Aristidæ dispersæ in Mexico (HOLWAY),
Distychlidis spicatæ, Montana Amer. bor. et D. thalassica
pr. Concepcion in Chile (NEGER). — Adsunt teleutosporæ sim-
plices bilocularibus immixtæ.

244. *Puccinia sanguinea* Diet. Bull. Cornell Univ. III, n. 1, 1897, 1261
p. 19. — Soris in maculis purpureo-rubris per paginam foliorum
inferiorem sparsis insidentibus, minutis vel mediocribus, epidermide
valde elevata tectis; uredosporis obovatis v. sphericis, 28-38 \times 22-
28, intense brunneis, spinulosis; teleutosporis ellipticis, utrinque
rotundatis, ad septum paululum constrictis, 40-47 \times 27-33, levibus,
castaneis, pedicello longo suffultis.

Hab. in foliis Sorghi vulgaris, Auburn, Alabama Amer. bor.

245. *Puccinia adpersa* Diet. et Holw. Erythea 1895, p. 81. — Soris 1262
uredosporiferis amphigenis, inconspicuis, oblongis, diu epidermide
tectis; uredosporis globosis v. ovoideis, 22-26 \times 20-22, membrana
hyalina tenuiter echinulata præditis, aureis; soris teleutosporiferis
punctiformibus, in vaginis foliorum v. sparsis in series longas asso-
ciatis, nigrescentibus, epidermide tectis; teleutosporis valde irre-
gularibus, utrinque truncatis v. inferne attenuatis, sæpe angulo-
sis, apice leniter incrassatis, ad septum nunc constrictis, nunc
non constrictis, 30-50 \times 16-20, intense brunneis, pedicello brevi
fultis.

Hab. in foliis vaginisque graminis incogniti in California.

246. *Puccinia oahuensis* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1263
p. 425. — Soris plerumque hypophyllis, erumpentibus, nudis, au-
rantiacis, pulverulentis, subconfluentibus, epidermide non cinctis;
uredosporis obovatis, aurantiacis, dense crasseque echinulatis, 22-
30 \times 20-22; teleutosporis immixtis, obovato-ellipticis, levibus, luteo-
brunneis, leniter constrictis, apice obscurioribus leviterque incre-
satis, non distincte papillatis, 27-40 \times 15-20.

Hab. in foliis graminis cujusdam, e. g. Holci v. Panici in
ins. Sandwicens. (HELLER).

247. *Puccinia Solmsii* Henn. in litt. Sic nominanda est *Puccinia*

- consimilis* P. Henn., Sacc. Syll. XI, p. 196, quum exstet anterior *P. consimilis* Ell. et Ev.
248. **Puccinia Tecomæ** Sacc. et Syd. Sic nominanda est *Puccinia ornata* Harkn., Sacc. Syll. IX, p. 305, quum exstet anterior *P. ornata* Arth. et Holw. Sacc. Syll. VII, p. 723.
249. **Puccinia trimorpha** Neger, Anal. de la Univ. Santiago, 1895, p. 2 extr. est *Puccinia Triptilii* Mont.
250. **Puccinia Polemonii** Störm. Botan. Notiser. 1896, p. 214 verisimiliter est identica cum *P. Polemonii* Diet. et Holw., Sacc., Syll. XI, p. 193.
251. **Puccinia Dietelii** Sacc. et Syd. Ita est dicenda, si satis diversa, *Puccinia Chloridis* Diet. (1892) Syll. XI, p. 200, extante homonyma Spegazz. (1891).
252. **Puccinia Solanacearum** Sacc. et Syd. Ita dicenda *P. Solani* Cke., Syll. VII, p. 718, nec *P. Solani* Schw.
253. **Puccinia Calochorti** Peck — Syll. VII, p. 670. Huc spectat ex auctore ipso (*Erythea* 1894, p. 129) *P. Holwayi* Diet. (Syll. XI, p. 196).

LEPTINIA Juel, Bih. K. Sv. Vet.-Akad. Handl. XXIII, Afd. III, n. 10, 1897, p. 15 extr. (Etym. *leptos* tenuis). — Teleutosporæ e strato subepidermico cellularum brunnescentium successive enatæ, e cellulis binis inter se oblique connatis compositæ, membrana tenuissima instructæ, poris carentes, pedicellatæ. Germinatio fere *Leptopucciniae*. Pycnidia, æcidia, uredo ignota.

1. **Leptinia brasiliensis** Juel, l. c. — Maculis fulvescentibus admodum determinatis circa nervos folioli effusis, supra nigro punctatis (non pycnidiophoris), subtus soros punctiformes, non confluentes, fusconigros gerentibus; teleutosporis 35 × 14, subhyalinis, pedicellis brunnescentibus. 1264

Hab. in foliis plantæ indeterminatæ, Matto Grosso, Buritizinho sub montibus Serra do Itopirapuan in Brasilia (LINDMAN).

UROPYXIS Schroet. — Syll. VII, p. 735, XI, p. 204.

1. **Uropyxis Daleæ** Diet. et Holw. Bot. Gaz. 1897, p. 27. — Soris amphigenis, sparsis vel in greges rotundos confluentibus aut punctiformibus aut media magnitudine; soris uredosporiferis cinnamomeis v. sæpe hyalinis, paraphysibus curvatis; uredosporis globosis v. late ellipticis, 22-25 × 20-22, pallide fuscis, subtiliter echinulatis. poris germinationis numerosis prominulis; soris teleuto-

sporiferis atro-fuscis, pulvinatis; teleutosporis leniter constrictis, utrinque rotundatis, 35-47 \times 24-28, episporio castaneo, involucrio hyalino et verrucoso, 2-2 $\frac{1}{2}$ μ . crasso, quaque cellula poris germinationis 2 instructa; pedicello hyalino, sporâ duplo brevior, in aqua usque ad 18 μ . crasso.

Hab. in foliis vivis Daleæ spec. duobus locis in Mexico (HOLWAY).

2. **Uropyxis Eysenhardtiae** Diet. et Holw. Bot. Gaz. 1897, p. 27. — 1266

Maculis luteolis v. nullis; soris uredosporiferis punctiformibus, hypophyllis, sparsis; soris uredosporiferis albicantibus, paraphysibus curvatis atque hyalinis circumscriptis; uredosporis late ellipticis v. globosis, 15-20 \times 15-17, pallide brunneis, echinulatis; soris teleutosporeis atro-fuscis; teleutosporis utrinque rotundatis, leniter constrictis, 38-45 \times 25-28, castaneis, involucrio tenui, verrucoso, hyalino, quaque cellula poris germinationis 2 instructa; pedicello plerumque globoso, 15-18 μ . diam., hyalino.

Hab. in foliis vivis Eysenhardtiae orthocarpæ pr. Mexico (HOLWAY).

3. **Uropyxis Nissoliæ** Diet. et Holw. Bot. Gaz. 1897, p. 27. — Ure- 1267

dosporis non visis; soris teleutosporeis plerumque hypophyllis, sparsis, minutis v. media magnitudine, atro-fuscis, pulverulentis; teleutosporis utrinque rotundatis, leniter constrictis, 32-40 \times 25-27; membrana castanea, involucrio hyalino, verrucoso, 1-2 μ . crasso, quaque cellula poris germinationis 2 instructa; pedicello hyalino, usque ad 25 μ . longo et 5-6 μ . crasso.

Hab. in foliis Nissoliæ confertifloræ pr. Guadalajara in Mexico (HOLWAY).

DIORCHIDIUM Kalchbr. — Syll. VII, p. 736, IX, p. 314.

1. **Diorchidium australe** Speng. Contr. Fl. Sierra Ventana, 1896, p. 83. 1268

— Soris minutis, matrice incrassatula atque plus minusve deformata densissime insidentibus, atro-cinnamomeis subpulverulentis; teleutosporeis e cellulis duabus globosis (20-22 \times 18-22) v. ovatis lateraliter junctis, 28-35 \times 20-22, obscure fuligineo-cinnamomeis, episporio crassiusculo minutissime densissimeque asperulo-papilloso vestitis, grosse 1-guttulatis efformatis, pedicellis tenuibus elongatis, 20 \times 4, hyalinis, apice minute bilobo-incrassatis fultis.

Hab. in ramulis tenellis et inflorescentia Mimosæ Rocæ, Sierra de la Ventana, Argentina.

2. **Diorchidium goyazense** P. Henn. Hedw. 1895, p. 94. — Maculis 1269

nullis v. obsoletis; soris amphigenis, gregariis, subglobosis v. oblongo-pulvinatis, interdum confluentibus, atris, $\frac{1}{2}$ -1 mm. diam.; teleutosporis transverse ellipsoideis, septatis, septis constrictis, castaneis, 18-24 \times 24-30, raro subglobosis continuis, episporio levi, 4-5 μ ; pedicello gracili, hyalino, 40-80 \times 4-5.

Hab. in foliis Panicis spec. in prov. Goyaz Brasiliæ (ULE).

3. **Diorchidium flaccidum** (Berk. et Br.) Lagh. Ured. Herb. Fries. 1895, p. 80. — *Puccinia flaccida* Berk. et Br. Ceyl. Fg. n. 821; Sacc. Syll. VII, n. 656; Webb. Pec. Ured. p. 178. — Teleutosporis plerumque verticaliter septatis, rarissime horizontaliter, membrana levi, ad apicem sporæ incrassata, stipiteque persistenti donatis, mox germinantibus.

Hab. in foliis Panicis in Ceylon et P. Cruris-galli, Rooks Co., Kansas Amer. bor. (BARTHOLOMEW).

GYMNOCONIA Lagh. Ured. herb. Fries. 1895, p. 83 (sine diagnosi).

Dietel in Engl. Pflanzenfam. Ured. p. 70 c. ic. (Etym. *gymnos* nudus et *conis* pulvis seu sporæ). Spermogonia conica. *Æcidia* cæomatiformia, pseudoperidio et paraphysibus carentia, ambitu irregulari. Teleutospore bicellulares. — Generi *Pucciniæ* affinis.

1. **Gymnoconia Hyptidis** (Curt.) Lagh. l. c.; *Uredo Hyptidis* Curt. Myc. 1270 N. Amer. p. 353. — *Æcidiiis* amphigenis, sparsis v. in maculis orbicularibus purpureis congregatis, parvis, epidermide rupta cinctis; *æcidiosporis* angulato-ovoideo-rotundatis, 18-30 μ . diam., membrana achroa, grosse reticulato-verrucosa, verrucis facile deciduis; soris uredosporiferis et teleutosporiferis hypophyllis, sparsis v. irregulariter congregatis et confluentibus, rotundatis, pulvinuliformibus, ferrugineis, firmis, 0,5 mm. diam., epidermide non tectis; uredosporis (inter teleutosporas) globosis v. ovoideis, 26-30 μ . diam., membrana subtenui, æquabili crassitudine, pallide ferruginea, aculeata; teleutosporis oblongo-lanceolatis, apice attenuatis v. rarius rotundatis, basi attenuatis, medio paullo constrictis, 50-68 \times 20, mox germinantibus, membrana tenui, æquabili crassitudine, pallide luteola, levi; pedicello persistenti, tenui, hyalino, spora paullo longiore.

Hab. in foliis vivis Hyptidis radiatæ in Amer. bor.

2. **Gymnoconia interstitialis** (Schlecht.) Lagh. l. c. p. 84. — Stat. *æcidiosp.* *Æcidium nitens* Schw., *Creoma interstitiale* Schlecht.; st. teleutosp. *Puccinia Peckiana*, Syll. VII, p. 699.

Hab. in foliis vivis Ruborum in Amer. bor., Suecia, Rossia, Germania.

PUCCINIOSIRA Lagerh. — Syll. XI, p. 205.

1. **Puccinosira Brickelliæ** Diet. et Holw. Bot. Gaz. 1897, p. 34. — 1271
 Caulicola, irregularis; pseudoperidiis breviter cylindraceis, penitus immersis, margine irregulariter denticulato, cellulis verrucosis, facile secedentibus, flavo-albis; teleutosporis bicellularibus, catenulatis, cellulis brevibus sterilibus sejunctis, ellipticis, 28-35 × 18-24, primo haud constrictis, denique uniseptatis; membrana hyalina, levi.
Hab. in culmis petiolisque *Brickelliæ* spec. pr. urbem Mexico (HOLWAY).

SCHIZOSPORA P. Diet. Ber. Deutsch. Bot. Ges. 1895, p. 334 (Etym. *schizo* findo et *spora*). — Affinis *Puccinosiræ*, sed teleutosporæ non catenulatæ.

1. **Schizospora Mitragynes** Diet. l. c. tab. XXVI, fig. 15. — Soris 1272
 in maculis epiphyllis rotundis luteis circiter 1 cm. diam. insidentibus, penitus immersis, spermogoniis cinctis æcidia simulantibus; spermogoniis longis, lageniformibus; teleutosporis pseudoperidiis cinctis, bicellularibus, mox in maturitate secedentibus, non catenulatis, sed solitariis ex hymenii basi oriundis, non pedicellatis, utrinque attenuatis, 45-60 × 20-22, membrana hyalina tenuiter verrucosa tectis, loculis rotundato-conicis; pseudoperidio anguste aperto, e cellulis facile secedentibus, intus verrucosis, basi extusque levibus composito.
Hab. in foliis *Mitragynes macrophyllæ*, Sierra Leone Africa.

*Sect. 3. Phragmosporæ.***PHRAGMOPYXIS** Diet. in Engler und Prantl, Natürl. Pflanzenfam. p. 70 (Etym. a *phragma*, septum et *pyxis*). — Uredosporæ singulæ, ad apices hypharum evolutæ; teleutosporæ tricellulares, sub exosporio tenui membrana hyalina in aqua valde intumescente præditæ, instructis; paraphyses introrsum curvatæ.

1. **Phragmopyxis deglubens** (B. et C.) Diet., *Phragmidium?* *deglubens* 1273
 De Toni in Syll. VII, p. 749.
Hab. in foliis plantæ ignotæ, Texas Amer. bor.

ROSTRUPIA Speg. — Syll. IX, p. 316, XI, p. 208.

1. **Rostrupia prælonga** Speg. Contr. Fl. Sierra Ventana 1896, p. 83. — 1274
 Acervulis hypophyllis, maculis nullis, innato-erumpentibus minutis,

0,5-1 mm. diam., solitariis v. aggregato-confluentibus, fulvescenti-cinereis, compactis; teleutosporis linearibus, rectis v. arcuatis, longissimis. 200-250 \times 18-20, 8-16-articulatis, ad septa constrictulis, cellulis inferis angustioribus longioribusque (25-40 \times 10-15), superioribus subisodiametricis subconicis, supremis e globoso ovatis obtusis v. apiculatis, aparaphysatis, pallide fulvis, episporio tenui levissimo, endoplasmate hyalino granuloso, stipite indistincto.

Hab. in foliis ramulisque Pavoniæ polymorphæ, Sierra de la Ventana, Argentina.

COLEOSPORIUM Lév. — Syll. VII, p. 751, IX, p. 317, XI, p. 208.

1. **Coleosporium Viguieræ** Diet. et Holw. Bot. Gaz. 1897, p. 34. — 1275

Soris uredosporiferis aurantiacis, minutis, sparsis, hypophyllis, maculas irregulares flavas efficientibus; uredosporis catenulatis, ellipticis v. globosis, 19-25 \times 15-20, episporio hyalino, cylindraceo-verrucoso; soris teleutosporeris uredosporiferis similibus, ferrugineis, ceraceis; teleutosporis cylindraceis, ca. 125 \times 14-22, contentu aurantiaco.

Hab. in foliis vivis Viguieræ helianthoidis pr. Tula in Mexico (HOLWAY).

2. **Coleosporium Elephantopodis** (Schw.) Thüm. Myc. Univ.; Lager- 1276

heim, Ured. Herb. Fries p. 99, *Uredo Elephantopodis* Schw. Syn. Carol. p. 70; Lagerheim, Ur. var. Pl. p. 121. — Soris teleutosporeris minutis punctiformibus; teleutosporis obovatis v. cylindraceo-claviformibus, 50-84 \times 22-40, quadrilocularibus, septis rarius horizontalibus, sæpius septo mediano horizontali, aliis obliquis vel cruciatim dispositis.

Hab. in foliis Elephantopodis caroliniani in N. Carolina et S. Carolina Amer. bor. (CURTIS).

3. **Coleosporium Xanthoxyli** Diet. et Syd. Hedw. 1498, p. 217. — 1277

Soris uredosporiferis uredosporisque ignotis; soris teleutosporeris hypophyllis, sparsis, minutis, usque 200 μ . crassis, gelatinosis; teleutosporis clavatis, 25-32 μ . latis, primum simplicibus deinde plurilocularibus.

Hab. in foliis Xanthoxyli piperiti, Tokyo Japoniæ (M. SHIRAI).

4. **Coleosporium Blettiæ** Diet. Hedw. 1898, p. 216. — Soris medio- 1278

cribus v. minutis, sparsis, hypophyllis; uredosporis ellipticis, circiter 25 \times 20, verrucosis; teleutosporis clavatis, quadrilocularibus, usque 150 μ . longis, 15-25 μ . latis.

Hab. in foliis Bletiae hyacinthinæ (Orchidaceæ) in horto botanico Tokyo Japoniæ (M. MIYOSHI). — Primum *Coleosporium* in planta monocotyledonea observatum.

PUCCINIASTRUM — Syll. VII, p. 762, IX, 318.

1. **Pucciniastrum Tiliæ** Miyabe, Bot. Mag. Tokyo XI, 1897, p. 47, 1279
tab. IV, fig. 12-20. — Soris uredosporiferis hypophyllis, minutis, sparsis, dilute aurantiacis; pseudoperidiis persistentibus, subsphæricis, apice apertis; uredosporis subglobosis v. ovatis, sæpe oblongis, 19-26 \times 12-15, plerumque 22 \times 15, echinulatis, davis; soris teleutosporiferis hypophyllis, minutis, rubro-brunneis; teleutosporis intercellularibus, 20-38 μ . longis, vario modo in sporas minores divis, contentu aurantiaco, sporis minoribus sphæricis, 4-6 μ . diam.

Hab. in foliis Tiliæ cordatæ var. japonicæ et Miquelianæ in Japonia (MIYABE, HIRATSUKA).

Sect. 4. Dictyosporæ

RAVENELIA Berk. — Syll. VII, p. 770, IX, p. 318, XI, p. 210. —

1. **Ravenelia Cohniana** P. Henn. Hedw. 1896, p. 246. — Soris uredosporiferis hypophyllis vel ramicolis sparsis, oblongis vel rotundatis, primo epidermide tectis, dein ochraceis; uredosporis oblongis vel ellipsoideis, levibus, flavis vel brunneis, 12-17 \times 10-14; soris teleutosporiferis hypophyllis, sparsis, minutis, punctiformibus, atris, epidermide fissa cinctis; capitulis subglobosis vel subhemisphæricis, brunneis, 40-50 \times 35-40, 5-6-sporis, asperatis, aculeis brunneolis, subsubulatis 4-5 μ . longis, 3 μ . crassis; sporis subtriangularibus vel oblongis 16-22 \times 13-15; cystidiis 5-6 subglobosis vel ellipsoideis 15-17 μ . diametro, hyalinis.

Hab. in foliis Cæsalpinia spec. Rio de Janeiro Brasiliæ (ULE).

2. **Ravenelia opaca** (Seym. et Earle) Diet. *Ravenelia indica* Berk. f. 1281
opaca Seym. et Earle in Economic. Fungi n. 203, Hedw. 1895, p. 291. — Soris majusculis, 2 mm. v. pluribus, piceis, in pagina foliorum superiore subepidermicis; capitulis hemisphærico-convexis, levibus, atro-brunneis, opacis, 85-120 μ . diam., transverse 5-6 sporis; sporis unicellularibus, cuneatis, apice 8-10 μ . incrassatis et obscure tinctis, circiter 22 μ . latis; cystidiis hemisphæricis; pedicello composito, capituli latitudinem non superante, haud firmo.

Hab. in foliis petiolisque *Gleditschiæ Triacanthi*, Clear Creek, Union Co, Am. bor. (EARLE).

3. *Ravenelia Mimosæ-sensitivæ* P. Henn. Hedw. 1896, p. 246. — 1282

Soris uredosporiferis amphigenis, sparsis vel gregariis dein confluentibus explanatisque ochraceis; uredosporis subglobosis, ellipsoideis vel ovoideis flavo-brunneis, dense aculeatis, 15-21 \times 14-18, paraphysibus clavatis, subhyalinis, 25-40 \times 8-10; soris teleutosporiferis intermixtis, irregularibus atrorufis, capitulis gregariis 70-85 μ . diametro subglobosis asperatis, aculeis subsubulatis obtusis, hyalino-brunneolis, 5-6 μ . longis, ca. 3 μ . crassis; cystidiis hyalinis, subglobosis, ca. 15-18 μ . diametro; sporis (ca. 20, 8 ad marginem) subcuneatis vel pentagonis, vertice incrassatis, brunneis vel subcinna-momeis, 20-30 μ . diametro; pedicellis haud conspicuis.

Hab. in foliis *Mimosæ sensitivæ*, Tucuman Argentinæ (LORENTZ).

4. *Ravenelia australis* Diet. et Neg. Engl. Jahrb. 1897, p. 161. — 1283

Soris amphigenis, minutis, fuscis, sub epidermide erumpentibus, paraphysibus intus curvatis et utriculiformibus circumdatis; uredosporis ellipticis v. obovatis, 23-37 \times 15-22, dilute fuscis, echinulatis, poris 4 æquatorialibus præditis; capitulis teleutosporarum hemisphæricis, e sporis simplicibus unicellularibus numerosis (in omni directione 9-10) compositis, 70-125 μ . latis, levibus, castaneis; sporis ca. 12-15 μ . latis, apice incrassatis; hyphis pedicellum constituentibus haud conjunctis; cellulis cystoideis numerosis, hemisphæricis, in aqua facillime diffluentibus.

Hab. in foliis et petiolis *Acaciæ Caveniæ* pr. Concepcion in Chile (NEGER).

5. *Ravenelia expansa* Diet. et Holw. Bot. Gaz. 1897, p. 35. — Ma- 1284

culis luteis, magnis; soris amphigenis, sub epidermide erumpentibus; soris uredosporiferis minutis, ochraceis; paraphysibus numerosis, fuscis, utriculiformibus; uredosporis ellipticis v. globosis, 17-20 \times 15-17, luteo-fuscis, breviter echinulatis; soris teleutosporiferis irregularibus, magnis, atro-fuscis; capitulis hemisphæricis, 65-95 μ . diam., levibus, castaneis, transverse 5-6-sporis; teleutosporis cuneiformibus, unicellularibus, 14-18 μ . latis, apice valde incrassatis (ca. 7 μ .); cystidiis piriformibus.

Hab. in foliis *Acaciæ Tequilanæ* pr. Guadalajara in Mexico (HOLWAY).

6. *Ravenelia Acaciæ-Farnesianæ* P. Henn. (sub *R. Mimosæ* P. Henn.) 1285

Hedw. 1895, p. 95. — Æcidiis in ramulis junioribus gregariis;

pseudoperidiis semiimmersis, pustulatis, pallide brunneis, dein erumpentibus, subcupulatis, contextu parenchymatico e cellulis tabularibus, polygonis, granulosis, flavis; æcidiosporis subglobosis v. ellipsoideis, hyalino-flavescentibus, 18-23 \times 14-18, episporio levi, 3-4 μ . crasso; soris uredosporiferis ramicolis; uredosporis subglobosis v. irregulariter ellipsoideis, hyalinis, verrucosis, 10-18 \times 10-15; soris teleutosporiferis intermixtis, atro-brunneis, epidermide rupta cinctis; capitulis subglobosis, levibus, castaneo-brunneis, e circiter 20 sporis compositis, 60-80 μ . diam.; teleutosporis oblique cuneatis, plerumque triangularibus, continuis, levibus, brunneis, 18-24 \times 16-22, episporio 3-4 μ . crasso; pedicello capituli polyhyphoideo, hyalino, ca. 22-26 μ . crasso; cellulis cystoideis appendicularibus, numerosis, subglobosis v. ovoideis, hyalinis.

Hab. in ramis junioribus petiolisque *Acaciæ Farnesianæ* (non *Mimosæ*) in prov. Goyaz Brasiliæ (ULE). — *Ravenelia Hieronymi* Speg. affinis, sed teleutosporis simplicibus diversa.

7. *Ravenelia goyazensis* P. Henn. Hedw. 1895, p. 96. — Soris teleutosporiferis hypophyllis, solitariis, hemisphæricis, epidermide rupta cinctis, atro-sanguineis v. atro-brunneis, granulosis; capitulis globosis, castaneis, 10-14 (?) -sporis, 70-80 μ . diam., echinatis, pedicellatis; teleutosporis plerumque penta-vel hexagonis, 22-25 \times 18-23, continuis, 2-4-aculeatis, aculeis simplicibus hyalinis v. brunneolis, 5-6 \times 2-2 $\frac{1}{2}$; pedicello polyhyphoideo ca. 18 μ . longo, 10-12 μ . crasso, hyalino; cellulis cystoideis appendicularibus non conspicuis.

Hab. in foliis *Andiræ Pisonis* in prov. Goyaz Brasiliæ (ULE).

8. *Ravenelia Dieteliana* P. Henn. Hedw. 1895, p. 96. — Maculis nullis v. obsolete; soris uredosporiferis amphigenis, sparsis v. subgregariis, ochraceis, pustulatis, dein epidermide rupta velatis; uredosporis oblongis v. subglobosis, flavis, aculeatis, 15-24 \times 15-18, paraphysibus clavatis, capitulis aurantio-brunneis, stipitibus hyalinis usque ad 45 μ . longis, 15 μ . crassis; soris teleutosporiferis dense gregariis, sæpe confluentibus, amphigenis, intermixtis, pulvinatis, rotundatis, epidermide rupta cinctis, pulverulentis, atro-brunneis, ca 1 mm. diam.; capitulis hemisphæricis v. subglobosis, levibus, 6-sporis, subcastaneis, epedicellatis, 32-45 μ . diam.; teleutosporis simplicibus, subcuneatis, obtuse triangularibus, levibus, 15-22 \times 12-16, episporio 4-5 μ . crasso; 6 cellulis appendicularibus, globosis, hyalinis, epedicellatis, 12-22 μ . diam.

Hab. in foliis *Calliandræ macrocephalæ* in prov. Goyaz

Brasiliæ (ULE). — Valde differt a ceteris speciebus, in *Calliandra* observatis.

9. **Ravenelia japonica** Diet. et Syd. Hedw. 1898, p. 216. — Soris 1288 amphigenis sub cuticula foliorum nascentibus, minutis v. mediocribus, sparsis v. circulariter dispositis, nudis; uredosporis obovatis v. ellipticis, 17-23 \times 15-18, episporio flavescenti echinulato præditis; capitulis teleutosporarum applanatis, circularibus, 80-125 μ . latis, castaneis; levibus, sporis 6-8 in omni directione compositis; teleutosporis unicellularibus, 15-22 μ . latis; cellulis cystoideis pulvinatis, pedicello caduco.

Hab. in foliis Albizziae Julibrissin, Komaba-Tokyo Japoniæ (M. SHIRAI).

10. **Ravenelia Munduleæ** P. Henn. Ann. del R. Istit. di Roma VI, 1289 Fasc. 2, p. 86. — Soris uredo-teleutosporiferis intermixtis amphigenis, sparsis v. aggregatis, subrotundatis, atris deinde pulverulentis, epidermide rupta velatis; uredosporis ovoideis v. oblongis minute asperatis, flavis v. subfuscidulis, 24-28 \times 16-22; capitulis subglobosis v. subhemisphæricis castaneis, c. e 20 cellulis compositis, 100-120 \times 90-110, breve aculeatis, aculeis simplicibus obtatis, brunneolis, 6-8 \times 4-5; pedicello polyhyphoideo hyalino, c. 35-40 \times 15-20; cystidiis subglobosis, hyalinis, c. 14-20 μ ., sæpe pedicellis non conspicuis; sporis penta-hexagonis v. obtuse triangularibus, 20-26 μ ., episporio incrassato, castaneo.

Hab. in foliis Munduleæ suberosæ in Somalia.

11. **Ravenelia levis** Diet. et Holw. Bot. Gaz. 1897, p. 35. — Soris 1290 in maculis flavis, ca. 1 mm. diam. insidentibus, sparsis v. orbiculariter confluentibus, amphigenis; soris uredosporiferis castaneis; uredosporis globosis v. ovatis, 21-26 \times 20-23, obscure brunneis breviter echinulatis, poris germinationis 12-15; paraphysisibus numerosis, fuscis, clavatis, firmis; soris teleutosporiferis atris; capitulis irregulariter rotundatis, hemisphæricis, 90-125 μ . diam., opacis, fuscis, levibus, plerumque 5-6-sporis in omni directione; sporis transverse septatis, 20-26; cystidiis applanatis, in pagina inferiore capitulorum; pedicellis compositis.

Hab. in foliis vivis Indigoferæ spec. duobus locis in Mexico (HOLWAY).

12. **Ravenelia Schroeteriana** P. Henn. Hedw. 1896, p. 245. — Soris 1291 uredosporiferis hypophyllis sparsis, flavis vel ochraceis epidermide rupta cinctis; uredosporis subglobosis vel late ellipsoideis, intus interdum punctulatis, brunneis, 18-25 \times 16-22, paraphysisibus cla-

vatis vel capituliformibus, parte inferiore subhyalinis, parte superiore rufo-brunneis, 30-45 \times 15-21; soris teleutosporiferis hypophyllis, sparsis, rufo-brunneis, capitulis aggregatis, 90-120 μ . diam., subglobosis e 20 et pluribus cellulis compositis, brunneis vel castaneis, asperatis, aculeis obtusis, brunneolis, 3-4 \times 2-3; cystidiis subglobosis vel late ellipsoideis, hyalinis; sporis subcuboideis pentagonis vel hexagonis, ca. 20-30 \times 18-28.

Hab. in foliis Indigoferæ spec. in Argentina (HERONYMUS, LORENTZ).

13. **Ravenelia arizonica** Ell. et Ev. Bull. Torr. Club. 1895, p. 363. — 1292

Amphigena; soris erumpentibus, mox nudis, minutis, nigris; capitulis non compactis, orbicularibus, 75-85 μ . diam., castaneo-brunneis, hemisphæricis, echinatis, in diametro 7-9-sporis, e circiter 18-25 v. pluribus sporis compositis; teleutosporis 18-22 \times 7-8; cystidiis ovato-globosis, tumidis; stipite brevi, recto, ex hyphis paucis composito; uredosporis obovatis v. ellipticis, asperis, 23-30 \times 15-18, pallide luteolo-brunneis.

Hab. in foliis vivis Prosopidis julifloræ, Arizona Amer. bor.

14. **Ravenelia Urbaniana** P. Henn. Hedw. 1897, p. 215. — Maculis 1293

fuscis; soris teleutosporiferis amphigenis, plerumque orbiculariter dispositis, oblongis vel subrotundatis, acutangulis, diutius tectis, dein epidermide rupta cinerea velatis, 0,3-0,5 mm. diametro, cinnamomeis; capitulis hemisphæricis vel subglobosis, 8-sporis, 50-80 μ ., interdum usque ad 100 μ . diametro, castaneis, levibus; sporis triangularibus vel pentagonis, 30-35 \times 15-24; cystidiis (8) ovoideis, hyalinis, 12-14 \times 10-12.

Hab. in foliis coriaceis Cassiæ spec. pr. Goyaz Brasiliæ (GLAZIOU).

15. **Ravenelia Stuhlmanni** P. Henn. Fungi camerun. I, in Engl. 1294

Jahrb. XXII, 1895, p. 82. — Soris uredosporiferis amphigenis, plerumque epiphyllis, sparsis v. concentricè dispositis, diutius tectis, dein epidermide velata cinctis, rotundatis v. oblongis, minutis, ochraceis, aparaphysatis; uredosporis oblongis, ovoideis vel subglobosis, sæpe angulatis, flavis, dein brunneo-fuscis, minute aculeato-verrucosis, 15-24 \times 11-14; soris teleutosporiferis plerumque epiphyllis, sparsis v. concentricè dispositis interdum intermixtis, diutius tectis, dein epidermide velata cinctis, irregularibus subacutangulis, brunneis, dein atris, cellulis epidermidis plerumque 5-6 angulatis, flavo-brunneis, 8-15 \times 6-13; capitulis subglobosis, 60-110 μ .

diam., subechinatis, flavis, dein brunneis v. subatris, e 24-30 sporis, 5-6-angulatis compositis, aculeis vix protuberantibus, hyalinis, 4-8 \times 3-4, interdum elongatis; sporis subcuneatis v. subhemisphæricis, 24-30 \times 12-18, episporio apice valde incrassato, sæpe 5-8 μ . crasso, et deinde atro; pedicello polyhyphoideo, hyalino, ca. 30 μ . longo, 12-15 μ . crasso, cellulis appendicularibus multis, subglobosis v. ovoideis, hyalinis, 14-15 μ . diam.

Hab. ad folia Cassiæ Petersianæ, Usambara, Africa (STUHL-MANN).

16. **Ravenelia Uleana** P. Henn. Hedw. 1895, p. 96. — Maculis amphigenis, suborbicularibus v. confluentibus, violaceo-brunneis, ca. $\frac{1}{2}$ -1 cm. diam.; soris uredosporiferis sparsis intermixtis, amphigenis, rotundato-oblongis, pustulatis, dein epidermide rupta cinctis, subochraceis; uredosporis subglobosis, ellipsoideis, flavis, granulosis, pedicellatis 18-26 \times 15-24, episporio verrucoso; soris teleutosporiferis gregariis, orbiculariter dispositis, interdum confluentibus, applanato-pulvinatis, epidermide rupta velatis, pulverulentis atrovioleaceo-brunneis, ca. $\frac{1}{2}$ -1 mm. diam.; capitulis subglobosis v. subhemisphæricis, castaneo-brunneis, levibus, ca. 60-80 μ . latis, 45-75 μ . altis, e 12-25 sporis compositis, pedicello polyhyphoideo, hyalino, usque ad 75 μ . longo, 12-15 μ . crasso; teleutosporis continuis, subcuneatis, obtuse triangularibus v. 4-angulatis, brunneis, 22-34 \times 15-23, guttulatis, levibus, brunneis, inferne cellulis appendicularibus cystoideis globosis v. ovoideis, hyalinis, pedicellatis, 15-26 \times 13-23.

Hab. in foliis Cassiæ spec. in prov. Goyaz Brasiliæ. (ULE).

17. **Ravenelia Brongniartii** Diet. et Holw. Bot. Gaz. 1897, p. 35. 1296
— Soris uredosporiferis maculis magnis circiter 5 mm. diam. luteis insidentibus, solitariis v. confluentibus, amphigenis, cinnamomeis; uredosporis ovatis v. globosis, 23-30 \times 18-25, breviter echinulatis, poris germinationis numerosis; paraphysibus nullis; soris teleutosporiferis maculis nullis insidentibus, atris; capitulis hemisphæricis, 85-115 μ . diam., transverse 5-6-sporis, obscure castaneis, superne dense longeque verrucosis; sporis capitulorum interioribus bicellularibus, 16-21 μ .; cystidiis conjunctis, in pedicellum compositum attenuatis.

Hab. in foliis Brongniartii spec., Cuernavaca, Mexico (HOLWAY).

UREDINEÆ INFERIORES.

ÆCIDIUM Pers. — Syll. VII, p. 774, IX, p. 319, XI, p. 213.

1. **Æcidium Negerianum** Diet. Engl. Jahrb. 1897, p. 161. — *Æcidiiis* 1297
mycelio perenni generatis, per totam superficiem inferiorem dis-
persis; pseudoperidiis basi immersis, margine valde caduco, grosse
laciniato, albo; æcidiosporis ellipticis v. ovoideis, plerumque angu-
latis, 22-30 × 20-25, pallide flavis, membrana tenui, minute ver-
ruculosa præditis.

Hab. in foliis deformatis Ranunculi peduncularis in
valle ad vulcanum Copahue, Chile (NEGER).

2. **Æcidium Anonæ** P. Henn. Hedw. 1895, p. 100. — Semiimmersum, 1298
hypophyllum; æcidiiis gregariis, sine ordine dispositis, plerumque
paginam inferiorem foliorum dense tegentibus; pseudoperidiis
primo punctiformibus, vix elevatis, ochraceis, dein apertis, cupu-
latis, margine laciniatis, pallide flavis; æcidiosporis subglobosis v.
ellipsoideis, acutangulis, hyalino-flavescentibus v. fusciscentibus,
16-21 × 14-18, contextu cellulis oblongis acutangulis ochraceo-pal-
lescentibus.

Hab. in foliis coriaceis Anonæ spec. in prov. Goyaz Brasiliæ
(ULE).

3. **Æcidium anonaceicola** P. Henn. Hedw. 1895, p. 101. — Maculis 1299
atrofuscis, epiphyllis, tuberculatis; æcidiiis hypophyllis in maculis
brunneis sparsis, subrotundatis; pseudoperidiis sparsis v. gregariis,
suborbiculariter dispositis, cupuliformibus, pallide flavis v. subfu-
scescentibus, margine revoluti-sublaciniato, vix $\frac{1}{3}$ mm. diam.,
cellulis contextu quadrangulis v. oblongo-acutangulis, granulatis,
hyalinis, 22-25 × 15-20; æcidiosporis subglobosis, acutangulis, levi-
bus, hyalino-flavescentibus, 15-19 × 13-18.

Hab. in foliis vivis Anonacearum sp. in prov. Goyaz Bra-
siliæ (ULE).

4. **Æcidium Guatteriaë** Diet. Hedw. 1897, p. 34. — Maculis magnis, 1300
nigrescentibus, vesiculoso-inflatis; pseudoperidiis hypophyllis, per
tomentum plantæ nutriticis erumpentibus, margine irregulariter
lacerato; sporis ellipticis v. irregularibus, 20-27 × 15-20, verrucu-
losis.

Hab. in foliis Guatteriaë spec. in provincia Minas Geraës
Brasiliæ (ULE).

5. **Æcidium Xylopiæ** P. Henn. Hedw. 1895, p. 100. — Pseudoperidiis 1301

hypophyllis, immersis, dense gregariis, paginam inferiorem foliorum dense tegentibus, pallide ochraceis, diutius tectis punctiformibus, dein subcupulatis, margine laciniato-fimbriato; æcidiosporis subglobosis v. oblongis, hyalino-subflavescentibus, levibus, 14-24 \approx 13-20.

Hab. in foliis *Xylopiæ* spec. pr. Catalao Brasiliæ (ULF). — *Æcidio Anonæ* P. Henn. valde affinis.

6. ***Æcidium Isatidis*** P. Har. Journ. de Bot. 1896, p. 200. — Amphigenum (quamvis potius hypophyllum); maculis fere inconspicuis, pseudoperidiis gregariis in plagulas rotundatas et concentricas, sparsas, raro confluentes dispositis, primum mamilloso-sphæricis, tectis, dein erumpentibus et bene exsertis, margine laceratis et reflexis, flavo-fuscescentibus; contextu cellulis difformibus, 3-6-gonis, obtuse angulatis, crasse tunicatis, radiatis et quasi verruculosus composito; æcidiosporis inter se densissime conjunctis, difformibus, globosis v. obscure rotundato-angulatis, levissimis, melleis, episorio tenuiculo, hyalino, 20-24 μ . crassis.

Hab. ad folia *Isatidis tinctoriæ* in monte Musinet Sabaudia.

7. ***Æcidium Jacobsthalii-Henrici*** P. Magn. Ber. Deutsch. Bot. Gesellschaft. 1897, Bd. IV, p. 275, t. X, f. 1-8. — *Æcidii* ramulos foliaque valde deformantibus, turiones breves efformantibus, plerumque per totam foliorum paginam inferiorem sparsis: pseudoperidiis brevibus; æcidiosporis fere ut in *Æcidio magellanico*, 18,1-23,2 \approx 14,2-18,1.

Hab. in foliis ramulisque vivis *Berberidis buxifoliæ* in Fuegia et Chile.

8. ***Æcidium Hyperici*** P. Henn. Pilz. Ostaf. p. 52. — Maculis fuscis; æcidiiis hypophyllis; pseudoperidiis solitariis v. aggregatis, semiimmersis, diutius clausis, dein apertis, cupuliformibus, ochraceo-pallescentibus, margine inciso-revoluto; æcidiosporis subglobosis, oblongis, polyhedricis, flavo-brunneis, dein fuscescentibus, granulatis, 17-26 \approx 14-18 μ .

Hab. in foliis *Hyperici lanceolati* in Africa trop. (VOLKENS). — Ab *Æcidio disseminato* bene diversum.

9. ***Æcidium Triumphettæ*** P. Henn. Hedw. 1896, p. 259. — Maculis rotundatis ca. 5 mm. diametro, fuscobrunneis bullatis, incrassatis; æcidiiis sparsis hypophyllis; pseudoperidiis orbiculariter dispositis, cupulatis, ochraceis vel fuscis, contextu cellulis oblongis polyhedricis; æcidiosporis subglobosis, ovoideis vel ellipsoideis, acutangulis, sub-

hyalinis vel flavidulis, 15-20 × 13-16; episporio levi, flavidulo vel fuscidulo.

Hab. in folio *Triumfettae* spec. Loreto Argentinae (NÜDERLEIN).

10. *Æcidium malvastricola* P. Henn. Hedw. 1897, p. 216. — *Æci-* 1306
diis amphigenis cauliculisque; pseudoperidiis plerumque aggregatis, pallide flavidis, cylindraceutis, ca. $\frac{1}{2}$ - $\frac{2}{3}$ mm. longis, margine incis; æcidiosporis subglobosis, ellipsoideis vel ovoideis, intus flavidis, 18-25 × 18-22, episporio 4 μ . crasso, punctulato, hyalino; cellulis pseudoperidii oblongis, subrhomboidis, reticulatis, hyalinis, 30-60 × 18-24.

Hab. in foliis vivis *Malvastris* spicati, Sierra chica de Cordoba Argentinae (HIERONYMUS).

11. *Æcidium Gossypii* Ell. et Ev. Erythea 1897, p. 6. — Maculis 1307
obscure brunneis, marginem versus rubescentibus, pallide marginatis; pseudoperidiis hypophyllis, erumpentibus, minutis, 200 μ ., mox apertis, margine tenui, eroso-dentato, erecto; æcidiosporis globosis v. angulosis, sublevibus, 15-20 μ . diam.

Hab. in foliis *Gossypii* spec. in California.

12. *Æcidium Elaeagni* Diet. Hedw. 1898, p. 212. — In maculis au- 1308
reis magnis hypophyllum, caespitosum; pseudoperidiis tubiformibus dense, gregariis in soros rotundatos vel secundum nervos elongatos congestis margine primum integro, deinde laciniato; æcidiosporis ellipticis vel subglobosis, angulatis, 22-28 × 17-22, densissime verruculosis.

Hab. in foliis *Elaeagni* pungentis prope Nagasaki Japoniae (Ds. C. KLUCKIST). — Species pulcherrima.

13. *Æcidium goyazense* P. Henn. Hedw. 1895, p. 101. — *Æcidiis* 1309
amphigenis cauliculisque, tuberculatis, gregariis, tuberculis pulvinatis, sublignosis, duris, rotundatis v. oblongatis, rugulosis, $\frac{1}{2}$ -3 cm. diam., brunneo-fuscis; pseudoperidiis cylindraceuto-subulatis, corniformibus, pallidis, usque ad 5 mm. longis, vix $\frac{1}{2}$ mm. latis, primo apiculatis, dein apice apertis, contextu cellulis oblongis, subrhomboidis, acutangulis plerumque penta-vel hexagonis, hyalino-subfuscescentibus, reticulato-verrucosis, 25-50 × 18-30; æcidiosporis subglobosis, ellipsoideis v. ovoideis, subacutangulis, hyalino-subfuscescentibus, levibus, 21-30 × 20-26; episporio hyalino, levi, 3-4 μ . crasso.

Hab. in foliis caulibusque *Loranthi* spec. in prov. Goyaz Brasiliae (ULE).

14. *Æcidium bulbifaciens* Neg. Engl. Jahrb. XXII, p. 356. — Spe- 1310
cies valde notabilis, in ramis tumores bulbosos, globosos vel irregulares, 3-40 mm. longos efficiens; pseudoperidiis cylindraceis, ca. 0,7 mm. altis, orificiis irregulariter laceratis; sporis ellipticis v. polyhedricis, 30-38 \approx 23-30, minute verruculosis.
Hab. in ramis *Loranthi heterophylli* ad orificia fluminum Bahue et Bueno in Chile (NEGER).
15. *Æcidium Momordicæ* Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII, 1311
Afd. III, n. 10, 1897, p. 21, extr. — Maculis in utraque foliorum pagina pallidis non marginatis, superne plerumque spermogonia luteo-brunnea, subtus æcidia gerentibus; pseudoperidiis brevibus, margine revoluta, e cellulis striolato-verrucosis circiter 27 μ . latis contextis; sporis pallidis, rotundato-polygoniis, circiter 24 μ . latis, membrana crassiuscula apice verrucosa, basi sublevi instructis.
Hab. in foliis *Momordicæ*, Matto Grosso, Brasilia (LINDMAN).
16. *Æcidium Cerei* P. Henn. Hedw. 1896, p. 258. — *Æcidiiis* petal- 1312
licolis sparsis vel orbicularibus; pseudoperidiis aggregatis, cylindraceis, pallide flavis vel subalbis, primo clausis obtusis dein apertis, margine lacerato-denticulatis; contextu cellulis plerumque irregulariter polyhedricis, flavescentibus, intus granulatis, 30-50 \approx 10-16; æcidiosporis globosis vel subovoideis vix acutangulis, flavescentibus, 16-22 \approx 15-20, episporio subhyalino, levi, 4-4 $\frac{1}{2}$ μ . crasso.
Hab. in petalis *Cerei* spec. Sierra chica de Cordoba Argentinae (HERONYMUS).
17. *Æcidium Petersii* B. et C. N. Amer. Fung. n. 580, Lagerheim, 1313
Ured. Herb. El. Fries p. 103; Syll. VII, p. 780 (diagnosis incompl.). — *Æcidiiis* hypophyllis, maculis pallidis insidentibus, subcircinatim congregatis, breviter cylindricis, margine irregulariter lacerato, recurvato; æcidiosporis angulato-rotundatis, ca. 16 μ . diam., episporio tenui, achroo, verruculoso.
Hab. in foliis petiolisque *Violarum* pluribus locis in Amer. bor. (CURTIS, PETERS etc.).
18. *Æcidium Cerastii* Otth, Bern. Mittheil 1863, p. 89. — Pseudo- 1314
peridiorum parte emergente mox decidua, parte inferiore parenchymate immersa, bene conspicua; æcidiosporis pallide flavis.
Hab. in foliis *Cerastii silvatici*, Breimgartenwald, Helvetia. — Comparandum cum *Æc. Cerastii* Wint. posteriore.
19. *Æcidium Vitis* A. L. Smith, Journ. of Bot. 1895, p. 342. — 1315
Æcidiiis hypophyllis, rarius epiphyllis, pallido-fuscis, in maculis irregularibus dense aggregatis; pseudoperidiis pallidis, rotundatis,

230 μ . diam., margine lacerato; æcidiosporis suboblongis, circa 15-20 μ .

Hab. in foliis *Vitis* in Africa orient. (ELLIOT).

20. *Æcidium mexicanum* Diet. et Holw. Bot. Gaz. 1897, p. 36. — 1316

Maculis circularibus, 3-6 mm. diam., plerumque luteolo-rubro-marginatis; pseudoperidiis ad marginem macularum, minutis, 0,25-0,30 mm., breviter cylindræis, luteolo-rubris, margine erecto, albo, subtiliter denticulato; sporis plerumque globoso-polygonalibus v. ellipticis, aurantiacis, 22-31 \approx 20-24, membrana hyalina, firma, sæpe irregulariter incrassata, subtiliter verrucosa.

Hab. in foliis vivis *Cissi* spec. pr. urbem Mexico (HOLWAY).

— Differt ab *Æcidio Cissi* Wint. sporis multo majoribus.

21. *Æcidium ilicinum* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 284. 1317

— Maculis amphigenis, superne purpureo-nigris, inferne sordide aurantiacis, indefinitis; æcidiis hypophyllis, in centro macularum solitariis; pseudoperidiis hemisphæricis v. tuberculiformibus initioque clausis, dein laciniatim dehiscentibus ac margine dense denticulatis; æcidiosporis forma irregularibus, globosis, ovatis, ellipticis v. subangulosis, 18-22 μ . longis, episporio plus minusve rugoso v. tuberculato-asperato præditis.

Hab. in foliis vivis *Ilicis opacæ*, W. Virginia Amer. bor. (NUTTALL).

22. *Æcidium Serjanæ* P. Henn. Hedw. 1896, p. 258. — Maculis 1818

flavis vel ochraceis, irregularibus; æcidiis hypophyllis, sparsis; pseudoperidiis orbiculariter dispositis vel sparsis, pallide flavis primo subhemisphæricis, dein apertis, cupulatis, contextu cellulis oblongis polyhedricis intus granulatis, subhyalinis vel flavis; æcidiosporis subglobosis ellipsoideis vel subovoideis, hyalino-flavidulis, 14-17 \approx 13-15, episporio tenui subflavo.

Hab. in foliis vivis *Serjanæ fultæ*, Sierra de Tucuman Argentinae (HIERONYMUS, LORENTZ).

23. *Æcidium byrsonimaticola* P. Henn. Hedw. 1895, p. 322. — 1319

Spermogoniis epiphyllis, gregariis, præcedentibus, castaneis; æcidiis per totam inferiorem folii paginam aggregatis, pulvinato-depressis, sæpe confluentibus, dein apertis, margine inciso-revolutis, griseis; æcidiosporis subglobosis, ovoideis v. ellipsoideis, dense verrucosis, hyalino-fuscidulis, 30 \approx 40; contextu pseudoperidii cellulis oblongis, polyhedricis, reticulatis, 45-60 \approx 25-35, flavo-fuscidulis.

Hab. in foliis vivis *Byrsonimatis* spec. pr. Goyaz Brasiliæ (ULE).

24. *Æcidium Byrsonimatis* P. Henn. Hedw. 1895, p. 101. — *Æci-* 1320
 diis amphigenis cauliculisque, tumoribus crassis plus minusve ma-
 gnis, ochraceo-fuscis, usque ad 5 cm. diam.; pseudoperidiis gre-
 gariis, cylindræis, pallidis v. subcinereis, usque ad 5 mm. longis,
 $\frac{1}{2}$ -1 mm. crassis, primo apicibus subulatis clausis, dein apertis,
 tandem subcupulatis, laciniatis, contextu cellulis oblongis, acutan-
 gulis, subhyalinis, reticulato-verrucosis, usque ad 60 μ . longis,
 20-35 μ . latis; æcidiosporis subglobosis, ovoideis v. oblongis acu-
 tangulis, hyalino-subfuscescentibus, reticulato-verrucosis, 30-48 \approx
 24-30.

Hab. in foliis caulibusque vivis *Byrsonimatis* spec. in prov.
 Goyaz Brasiliæ (ULE).

25. *Æcidium Salaciæ* P. Henn. Hedw. 1895, p. 100. — *Æcidii*s dense 1321
 gregariis, plerumque totum folium occupantibus v. hypophyllis,
 semiimmersis, pustulato-punctiformibus, flavo-ochraceis, $\frac{1}{2}$ mm.
 diam., diutissime clausis, dein apertis subcupuliformibus, contextu
 cellulis rotundatis v. oblongis, polyhedricis, hyalino-fuscescentibus;
 æcidiosporis subglobosis v. ellipsoideis, acutangulis, levibus, hya-
 lino-subflavescentibus, 18-22 \approx 15-20.

Hab. in foliis coriaceis *Salaciæ* spec. in prov. Goyaz Brasiliæ
 (ULE). — *Æcidio Anonæ* P. Henn. et *Æ. Xylopiæ* P. Henn. affine,
 sed tamen pseudoperidiis et sporis videtur diversa.

26. *Æcidium pulcherrimum* Rav. in Berk. et Curt. N. Amer. Fung. 1322
 n. 583; Lagerheim, Ured. Herb. El. Fries p. 104; Syll. VII, p. 785
 (diagnosis incompl.). — *Æcidii*s caulicolis v. petiolicolis v. hy-
 pophyllis nerviculis, dense congregatis, cylindricis, margine sub-
 recto; æcidiosporis angulato-globosis, 16-20 μ . diam., membrana
 tenui, achroa, subtiliter verruculosa.

Hab. in fere omnibus partibus *Berchemiæ volubilis* in
 Carolina inf. Amer. bor. (RAVENEL).

27. *Æcidium Tissæ* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 284. — 1323
 Sparsum v. aggregatum; pseudoperidiis minutis, breve cylindræis,
 margine leniter denticulatis; æcidiosporis subglobosis v. ellipticis,
 levibus, 14-18 μ . diam., dilute aurantiacis, initio mox marcescen-
 tibus.

Hab. in foliis caulibusque *Tissæ macrothecæ* in California
 (MC CLATCHIE).

28. *Æcidium Eriosematis* P. Henn. Hedw. 1895, p. 103. — Maculis 1324
 nullis; pseudoperidiis hypophyllis, in tomento nidulantibus, cupu-
 latis, ochraceis, gregariis v. sparsis; contextu e cellulis oblongis,

acutangulis, flavo-brunneis, 25-35 \times 13-18; æcidiosporis oblongis v. subglobosis, acutangulis, hyalinis v. subflavescentibus, levibus, 18-23 \times 15-18, episporio levi, hyalino, 4-5 μ . crasso.

Hab. in foliis vivis Eriosematis et Rhynchosiaë spec. duobus locis in Brasilia (ULE).

29. *Æcidium eburneum* Mc Alp. Roy. Soc. Victoria 1894, p. 218. — 1325
 Æcidiis eburneis, demum brunneolis, aggregatis; pseudoperidiis cupulatis, minutis, margine subtiliter denticulatis; æcidiosporis subglobosis v. ellipticis, griseis, 24-25 μ . diam. vel 25-28 \times 19-22.

Hab. in omnibus partibus Bossiæ cinereæ, Victoria et Tasmania Australiæ.

30. *Æcidium immersum* P. Henn. Hedw. 1895, p. 330. — Æcidiis 1326
 ramuliculis, deformantibus, tuberculis corniformibus, incarnatis; pseudoperidiis immersis, primo subtuberculatis, dein disciformibus, in sicco Mollisiæ cinereæ similibus, subconcavo-applanatis, margine pallido, inciso, obsoleto, $\frac{1}{2}$ -1 mm. diam.; æcidiosporis subglobosis, ellipsoideis v. ovoideis, acutangulis, subverrucosis, flavo-subflavescentibus, 21-27 \times 18-24.

Hab. in ramulis junioribus Acaciæ abyssinicaë in Erythræa (SCHWEINFURTH).

31. *Æcidium Glycines* P. Henn. Pilz. Ostaf. p. 52. — Maculis fu- 1327
 scescentibus, irregularibus; pseudoperidiis solitariis, sparsis v. gregariis, plerumque hypophyllis, raro epiphyllis, petiolicolis caulicisque, ochraceis, pulvinatis, dein cupulatis, irregulariter dehiscens, margine inciso-revolutis; æcidiosporis subglobosis, acutangulis, aurantio-flavis depallescentibus, intus granulatis, levibus, 22-26 \times 20-24; contextu cellulis pseudoperidii polyhedricis, hyalino-flavescentibus.

Hab. in foliis *Glycines javanicæ* in Africa trop. (VOLKENS).

32. *Æcidium Desmodii* P. Henn. Hedw. 1896, p. 259. — Maculis 1328
 flavis vel flavo-brunneis, rotundatis vel irregularibus confluentibusque; æcidiis hypophyllis, sparsis vel confluentibus; pseudoperidiis dense gregariis, subreticulatis, minutis vix elevatis, flavis cupuliformibus, margine integro erecto; contextu cellulis oblongis, polyhedricis, hyalinis, intus granulatis, 15-25 \times 13-17; æcidiosporis subglobosis, ellipsoideis vel ovoideis, levibus, hyalino-flavescentibus, 14-24 \times 13-18.

Hab. in foliis *Desmodii* spec. in Brasilia (ULE).

33. *Æcidium Crotalariaë* P. Henn. Pilz. Ostaf. p. 52. — Maculis fla- 1329
 vis, rotundatis; æcidiis hypophyllis, sparsis; pseudoperidiis paucis,

5-10, orbiculariter dispositis, diutius clausis, dein apertis, cupuliformibus, usque ad 2 mm. diam., pallidis, margine reflexo, fimbriato, contextu cellulis plerumque hexagonis, granulatis, flavescentibus; æcidiosporis subglobosis, acutangulis, levibus, hyalino-flavescentibus, 20-25 \approx 18-23.

Hab. in foliis *Crotalariae grandibracteatae* in Africa trop. (HOLST).

34. *Æcidium Deutziae* Diet. Hedw. 1898, p. 212. — Pseudoperidiis 1330
solitariis v. plerumque in acervulos parvos congestis, hypophyllis, minutis, margine albo, irregulariter denticulato caduco præditis; æcidiosporis polyhedricis v. subglobosis, 21-25 \approx 17-20, minute verrucosis.

Hab. in foliis *Deutziae* spec. pr. Yokohama Japoniæ (Dr. C. KLUGKISS).

35. *Æcidium Glaziovii* P. Henn. Hedw. 1897, p. 216. — Maculis 1331
atrofuscis, rotundatis; æcidiis amphigenis, sparsis vel orbiculariter dispositis; pseudoperidiis primo pulvinatis vel subhemisphæricis, dein longitudinaliter ruptis, flavis; sporis subglobosis, ovoideis vel ellipsoideis, hyalinis, dense verrucosis, 15-24 \approx 13-20.

Hab. in foliis vivis *Myrtaceæ* indeterminatæ pr. Rio de Janeiro Brasiliæ (GLAZIOU).

36. *Æcidium Blasdaleanum* Diet. et Holw. Erythea 1895, p. 77. — 1332
Maculis nullis, rubescentibus v. brunneis; æcidiis in greges variæ magnitudinis congestis, hypophyllis v. fructicolis, inflationes efficientibus; pseudoperidiis brevibus, margine albo lacerato, fugacibus; cellulis peridialibus irregulariter rotundatis, verrucosis, facile secedentibus; æcidiosporis ellipticis, polygonalibus v. globosis, 18-21 \approx 17-19, verrucosis, membrana hyalina præditis.

Hab. in foliis fructibusque vivis *Cratægi rivularis* et *Amelanchieris alnifoliæ* in California (BLASDALE).

37. *Æcidium Isnardiæ* Lagh. Ured. herb. Fries. 1895, p. 102. — 1333
Maculis circularibus, purpureo-rubris; æcidiis hypophyllis in maculis subcircinatis ordinatis (spermogoniis in centro circuli æcidiorum), cupulatis, parvis; æcidiosporis angulato-rotundatis, 18 μ . diam., membrana tenui, achroa, subtiliter verruculosa.

Hab. in foliis vivis *Isnardiæ* in Ohio Amer. bor.

38. *Æcidium Heteromorphæ* A. L. Smith, Journ. of Bot. 1895, p. 342. 1334
— Spermogoniis melleo-flavis; æcidiis in pustulis brunneis longis aggregatis; pseudoperidiis pallidis, rotundatis v. oblongis, 370-500 μ . diam.; æcidiosporis suboblongis, 15-25 μ ., pallido-flavis.

Hab. in caulibus et petiolis *Heteromorphæ* spec. in Africa orient. (ELLIOT).

39. *Æcidium Scorzonæræ* (Cast. in herb.) Lagh. Ured. herb. Fries. 1335 1895, p. 105. — *Æcidii* hypophyllis in maculis purpureis parvis (2-3 mm. diam.) circinatim dispositis, cupulatis, brevibus; *æcidiosporis* rotundato-globosis, 16 μ . diam., membrana tenui, subtiliter verruculosa.

Hab. in foliis vivis *Scorzonæræ angustifoliæ* in Gallia (CASTAGNE).

40. *Æcidium Vittadinæ* Mc Alp. Agr. Gaz. Sydney. 1895, n. 11, 1336 Novbr. p. 6, fig. 14-15. — *Æcidii* minutis, luteo-brunneis, dense aggregatis, plerumque seriatim dispositis; pseudoperidiis globosis v. ovalibus, margine inciso, recurvo; *æcidiosporis* irregulariter globosis v. ovalibus, pallide luteis, 16-18 μ . diam. vel 20 \approx 16 ν .

Hab. in foliis, caulibus et ramulis junioribus *Vittadinæ australis*, Victoria Australiae.

41. *Æcidium microsporum* Diet. Hedw. 1897, p. 34. — Pseudoperi- 1337 diis amphigenis, minutis, laxe gregariis, semiimmersis, margine albo, caduco; sporis globosis v. ellipticis, plus minusve angulatis, subtiliter verruculosis, 13-18 \approx 12 $\frac{1}{2}$ -15.

Hab. in foliis vivis *Asteris divaricati*, Serra Geral Brasiliæ (ULE).

42. *Æcidium Atractylidis* Diet. Hedw. 1898, p. 212. — Hypophyl- 1338 lum, in maculis purpureis vel brunneis; pseudoperidiis circulariter dispositis, margine albido denticulato caduco præditis; *æcidiosporis* ellipticis, polyhedricis vel globosis, 16-20 \approx 13-17 μ ., membrana achroa subtiliter verrucosa indutis.

Hab. in foliis *Atractylidis ovatæ*, Kobe (Hiogo) in valle supra aquæ dejectum Nunobiki Japoniæ (Dr. C. KLUGKIST).

43. *Æcidium Mikaniæ* P. Henn. Hedw. 1896, p. 261. — Maculis fu- 1339 scis, rotundatis; *æcidii* hypophyllis sparsis vel gregariis; pseudoperidiis singularibus paucis sparsis vel multis gregariis suborbiculariter dispositis, primo subhemisphæricis clausis, dein apertis cupuliformibus flavis vel subfuscis, margine fimbriatis, revolutis ca. $\frac{1}{3}$ mm. diametro, contextu cellulis oblongis, polyhedricis, flavidulis vel fuscidulis, granulato-verrucosis, 24-32 \approx 15-24; *æcidiosporis* ellipsoideis, ovoideis vel subglobosis pallide flavis, 13-18 \approx 11-16.

Hab. in foliis *Mikaniæ confertissimæ* et speciei indeterminatæ ejusdem generis, St. Catharina Brasiliæ (ULE).

44. *Æcidium sclerothecioides* Ell. et Ev. Americ. Natur. 1897, p. 428. 1340

— *Æcidii* amphigenis, subepidermicis, maculis flavis orbicularibus, 2-4 mm. diam. insidentibus; pseudoperidiis initio clausis, dein apertis, $\frac{1}{2}$ mm. diam.; *æcidiosporis* rubro-brunneis, globosis v. ovatis, 20-27 \approx 15, interdum subangulosis, episorio sublevi, crasso.

Hab. in foliis vivis *Senecionis lugentis*, Colorado Amer. bor.

45. *Æcidium thermarum* Diet. et Neg. Engl. Jahrb. 1897, p. 161. 1341

— Pseudoperidiis gregariis et fere cæspitosis, rarius solitariis, in partibus tumefactis foliorum cauliumque, cylindraceis, usque ad $1\frac{1}{2}$ mm. longis, basi immersis, margine recto denticulato v. profunde inciso, sordide albo; *æcidiosporis* polyhedricis, ellipticis, globosis v. ovoideis, 25-35 \approx 23-30, membrana dilute brunnea, crassa, poris numerosis instructa, densissime verrucosa circumdati.

Hab. in foliis caulibusque vivis *Senecionis thermarum* et *S. glabri* in Chile (NEGER).

46. *Æcidium kilimandscharicum* P. Henn. Pilze Ostaf. p. 53. — Ma- 1342

culis amphigenis, rotundatis, flavis; *æcidii* hypophyllis, sparsis, 3-5 mm. diam.; pseudoperidiis aggregatis, pustulatis, flavo-brunneis, dein apertis, cupulatis, margine non laceratis, circiter 0,3 mm. diam.; *æcidiosporis* subglobosis, ovoideis v. oblongis, acutangulis, flavis, palliescentibus, 18-30 \approx 16-26, contextu cellulis pseudoperidii oblongo-polyhedricis, subhyalinis.

Hab. in foliis *Senecionis multicornymbosi* in Africa trop. (VOLKENS).

47. *Æcidium gnaphaliatum* Schwein.-Sacc. Syll. VII, p. 804 — forma 1343

Leontopodii Vogl. Bull. Soc. bot. Ital. 1896, p. 37. — Hypophyllum, in lana foliorum involutum, maculis lutescentibus; pseudoperidiis dense approximatis, longissimis; *æcidiosporis* luteis, 20-22 \approx 15-18.

Hab. in foliis *Leontopodii alpini* in Helvetia.

48. *Æcidium Compositarum* Mart.-Sacc. Syll. VII, p. 798. — Var. 1344

Inulæ-crithmoidis Pat. Cat. rais. pl. cell. Tunisie 1897, p. 82. — Pseudoperidiis amphigenis aut epiphyllis, in macula flavido-brunnea irregulariter dispositis; cupulis exsertis, minutis, clausis, dein apertis, albis, margine eleganter dentatis; *æcidiosporis* subglobosis, sæpe angulosis, levibus v. minute angulosis, 18-24 μ . diam., protoplasmate granuloso repletis.

Hab. in foliis vivis *Inulæ crithmoidis* in Tunisia.

49. *Æcidium Agerati* P. Henn. Pilze Ostaf. p. 53. — *Æcidii* hy- 1345

pophyllis, sparsis in maculis fuscis, pseudoperidiis aggregatis, pul-

vinatis dein cupulatis, pallide fuscis, margine revoluto, fimbriato, pallido; vel æcidiis cauliculis irregulariter explanatis, pseudoperidiis confluentibus, subimmersis, plus minus pustulatis dein cupulatis; æcidiosporis subglobosis v. oblongis, acutangulis, hyalino-fusciscentibus, 16-24 \times 14-22, intus granulatis.

Hab. in foliis caulibusque *Agerati conyzoidis* in Africa trop. (VOLKENS).

50. **Æcidium pachycephalum** Diet. Hedw. 1897, p. 34. — Mycelio 1346
omnes partes plantæ nutriticis penetrante; æcidiis præsertim cauliculis, æqualiter sparsis, singulis foliiculis, margine albo denticulato, caduco; sporis polyhedricis, subglobosis v. ovoideis, 23-29 \times 19-23, membrana verrucosa, apice valde (usque ad 11 μ .) incrassata præditis.

Hab. in *Baccharide megapota mica*, Serra Geral Brasiliæ (ULE).

51. **Æcidium baccharidicolum** P. Henn. Hedw. 1896, p. 262. — Æci- 1347
diis cauliculis; pseudoperidiis solitariis vel aggregatis cortice fissis erumpentibus, cupulatis, pallide flavis; æcidiosporis globosis, ovoideis vel ellipsoideis, hyalinis, levibus, 16-23 \times 14-20; contextu cellulis oblongis vel elongato-ovoidis, acutangulis, hyalinis intus flavidulis, granuloso-tessellatis, 20-30 \times 14-24.

Hab. in caulibus *Baccharidis* spec. pr. Buenos Ayres Argentinae (LORENTZ). — Æcidiis *Pucciniæ evadentis* Harkn. affinis.

52. **Æcidium Baccharidis** Diet. Hedw. 1897, p. 33. — Maculis irre- 1348
gularibus; pseudoperidiis hypophyllis, irregulariter dispositis, semiimmersis, margine recto; æcidiosporis ellipticis vel polyhedricis, subtilissime verruculosis, 20-24 μ . diam.

Hab. in foliis vivis *Baccharidis* cujusdam, Serra Geral Brasiliæ (ULE).

53. **Æcidium Montanoæ** Diet. et Holw. Bot. Gaz. 1897, pag. 36. — 1349
Pseudoperidiis in petiolis et ramis junioribus, distorsiones efficientibus, confertis, alveolatis, margine irregulariter et profunde denticulato, cellulis 40-60 μ . longis; sporis polygonalibus, subglobosis v. irregulariter ovatis, 20-30 \times 17-23, membrana tenui, hyalina, verrucosa.

Hab. in petiolis ramisque *Montanoæ* spec. pr. urbem Mexico (HOLWAY).

54. **Æcidium Niederleinii** P. Henn. Hedw. 1896, p. 261. — Maculis 1350
flavis vel brunneolis, irregularibus vel rotundatis; æcidiis hypophyllis; pseudoperidiis gregariis orbiculariter dispositis, pallido

ochraceis vel subflavis, cupulatis, minutis, margine vix laceratis, pallidis, contextu cellulis oblongis vel ovoideo-globosis, 20-35 \times 15-23, pallide flavis vel fuscescentibus, granulato-verrucosis; sporis subglobosis vel ovoideis, acutangulis, flavo-brunneis, 15-18 \times 14-17; episporio tenui, brunneolo, levi.

Hab. in foliis vivis *Conyzæ sinensis* Prov. de la Rioja Argentine (NIEDERLEIN). — Differt ab *Æc. Mac Owaniano* Thüm. et *Æc. Conyzæ* P. Henn.

55. *Æcidium roseum* Diet. et Holw. Bot. Gaz. 1897, p. 36. — Ma- 1351
culis roseis v. purpureis, centro sæpe flavis; pseudoperidiis hypophyllis, orbiculariter v. irregulariter aggregatis, margine recurvato, denticulato; sporis subglobosis v. oblongis, 25-33 \times 23-26, verrucosis, aurantiacis, membrana crassa, apice valde (5-8 μ .) incrassata.

Hab. in foliis vivis *Eupatorii* spec., Mexico (HOLWAY).

56. *Æcidium Vernoniæ* P. Henn. Hedw. 1896, p. 262. — Maculis 1352
sparsis, fusco-brunneis, rotundatis, interdum nervos sequentibus; æcidiis epiphyllis sparsis; pseudoperidiis gregariis, suborbiculariter dispositis vel sparsis, primo subhemisphæricis, fuscidulis, dein subcylindraceis, niveis, margine laceratis, tenuibus; contextu cellulis oblongis, raro subglobosis, acutangulis, hyalinis, granulato-verrucosis, 25-50 \times 20-30; æcidiosporis subglobosis vel ellipsoideis acutangulis, hyalinis vel intus flavis, 18-26 \times 18-22; episporio levi vel granuloso.

Hab. in foliis vivis *Vernoniæ* spec. Rio de Janeiro Brasilie (ULE).

57. *Æcidium valdivianum* Sacc. et Syd. *Æcidium macrosporum* Diet. et 1353
Neg. Exgl. Jahrb. XXII, p. 356, nec Peck. — Maculis decoloratis circularibus, 10-15 mm. diam.; spermogoniis copiosis in utraque pagina foliorum; æcidiis hypophyllis, numerosis per totam aream macularum dispersis et plus minusve concentrice dispositis vel in anulum circa aream liberam congregatis; pseudoperidiis breviter cylindraceis, $\frac{1}{2}$ mm. latis, 0,3 mm. altis, margine irregulariter lacerato, albo; sporis luteis, sphæricis v. polyhedricis, membrana verruculosa hyalina præditis, 24-30 μ . diam., cellulis pseudoperidii usque duplo majoribus quam sporis.

Hab. in foliis petiolisque vivis *Valerianæ valdivianæ* in prov. Valdivia Chile (NEGER).

58. *Æcidium jasminicolum* P. Henn. Pilze Ostaftr. p. 53. — *Æcidiis* 1354
hypophyllis, rotundatis, pustulatis v. cauliculis floricolisque sine ordine gregariis, in pustulis diverse efformatis evolutis; pseudoperidiis cupulatis semiimmersis, flavis v. ochraceis, dense gregariis,

angulatis sæpe subalveolatis; æcidiosporis subglobosis v. elongatis, acutangulis, granulato-verrucosis, hyalinis subflavescentibus. 18-24 \times 15-18.

Hab. in foliis caulibusque *Jasmini Meyeri-Johannis* in Africa trop. (VOLKENS).

59. *Æcidium Klugkistianum* Diet. Hedw. 1898, p. 212. — Hypophyl- 1355
lum in maculis rufobrunneis arescentibus; pseudoperidiis minutis magnam aream confertim obtegentibus, margine albido, irregulariter denticulato, recurvato præditi; æcidiosporis polyhedricis vel ellipticis, 19-24 \times 15-20 μ ., verruculosus, aurantiacis.

Hab. in foliis *Ligustri japonici* in prope Nagasaki Japoniæ (Dr. C. KLUGKIST).

60. *Æcidium mattogrossense* Juel, Bih. K. Sv. Vet. Akad. Handl. 1356
XXIII, Afd. III, n. 10, 1898, 22. extr. — Maculis non incrassatis, rotundatis, 6-10 mm. vel ultra latis, superne spermogonia fusca, numerosa, subtus æcidia sæpius permulta, interdum spermogoniis immixtis, gerentibus; pseudoperidiis basi cupula brunnea circumvallatis, e cellulis striolato-verrucosis contextis; sporis pallidis, polygoniis, circiter 24 μ . diam., membrana crassiuscula, verrucosopunctata.

Hab. in foliis *Rubiaceæ* cujusdam (?*Sickingiæ*), *Matto Grosso* Brasilæ (LINDMAN).

61. *Æcidium asperulinum* Juel, Hedw. 1896, p. 197, Syn. *Æc. Galii* 1357
Pers. Synops. meth. fung. V, p. 207. — Mycelio perenni atque totam plantam occupanti; spermogoniis copiosissimis; æcidiis dense gregariis, sæpe totam paginam inferiorem foliorum occupantibus; pseudoperidiis validis, sublongis; æcidiosporis circiter 18 μ . diam.

Hab. in foliis caulibusque vivis *Asperulæ tinctoriæ* in ins. Gotland Sueciæ.

62. *Æcidium calosporum* Juel, Bih. K. Sv. Vet. Akad. Handl. 1358
XXIII, Afd. III, n. 10, 1897, p. 22 extr. — Maculis rotundatis, 5-7 mm. latis, non marginatis nec incrassatis, supra spermogonia majuscula polita picea, subtus æcidia cylindræa albida, quarum ca. 200-250 μ . diam., gerentibus; pseudoperidiis elongatis, membranaceis, e cellulis crassiuscule reticulato-verrucosis constructis; sporis admodum regularibus, angulosis, isodiametricis, circiter 31 μ . latis, obscure griseo-brunneis, membrana percrassa parum pellucida, quasi e fibris radiantibus contexta.

Hab. in foliis *Diospyri*, *Matto Grosso* Brasilæ (MALME).

63. *Æcidium Bouvardiæ* Diet. et Holw. Bot. Gaz. 1897, p. 36. — 1359

Pseudoperidiis hypophyllis, in maculis magnis (usque $1\frac{1}{2}$ cm.) flavis v. brunneolis, subgregariis, breviter cylindraceis, aurantiacis, mox albescentibus, margine erecto v. recurvato, irregulariter denticulato; sporis ellipticis v. subglobosis, 18-25 \times 15-20, subtiliter verrucosis.

Hab. in foliis vivis *Bouvardiæ triphyllæ* pr. urbem Mexico (HOLWAY).

64. *Æcidium cylindricum* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1360 p. 61. — Hypophyllum; æcidiis subseriatis, ad costam mediam elongatis, albis, cylindraceis, circiter 1 mm. altis, margine minute subfimbriato-dentato; æcidiosporis aurantiacis, anguloso-globosis, levibus, 18-22 μ .

Hab. in foliis *Houstoniæ angustifoliæ*, Kansas, Amer. bor. (SHEAR). — Folia ad partem superiorem nigrescentia et papillata ob bases æcidiorum prominentes. Ab *Æcidio houstoniæ* differt æcidiis elongatis, cylindraceis.

65. *Æcidium Pæderiæ* Diet. Hedw. 1897, p. 297. — Maculis nigrescentibus circularibus v. secundum nervos foliorum oblongis, 4-10 mm. diam., plus minusve vesiculoso-inflatis; pseudoperidiis hypophyllis, rarius etiam epiphyllis, dense gregariis, minutis, cupuliformibus, margine albo, gracillime denticulato ornatis; sporis amœne aurantiacis, ovoideis, polyhedricis v. subglobosis, 16-21 \times 12-14, subtiliter verrucosis, apice plerumque paullo incrassatis. 1361

Hab. in foliis *Pæderiæ tomentosæ* pr. Tokio Japoniæ (MIYOSHI).

66. *Æcidium Pouchetiæ* Sacc. Fl. mycol. Lus. p. 68. — Pseudoperidiis hypophyllis in soris subrotundos elevatos collectis, scutellatis, subintegris, brunneolis; æcidiosporis globoso-angulosis, 18 μ . diam., vix asperulis, dilute flavidis. 1362

Hab. in foliis vivis *Pouchetiæ parvifloræ* ad littora ins. S. Thomé (MOLLER).

67. *Æcidium Randiæ* P. Henn. Hedw. 1896, p. 259. — Maculis foliicolis, fuscis vel nigricantibus, bullatis, pustulatis usque ad 3 cm. longis, 2 cm. latis, 2 mm. crassis, rotundatis, applanatis, tuberculosis; pseudoperidiis semiimmersis, incrassatis, vertice rotundato-pertusis, margine crasso, contextu cellulis oblongis vel subglobosis, polyhedricis, flavo-fuscis, 36-60 \times 25-35; æcidiosporis subglobosis, ovoideis vel ellipsoideis, acutangulis, flavo-fuscescentibus, granulatis, 20-28 \times 18-26, episorio fuscobrunneo. 1363

Hab. in foliis vivis *Randiæ* spec. duobus locis in Brasilia (ULE).

68. *Æcidium Vangueriæ* Cke.-Sacc. Syll. VII, p. 795. — Var. *tumefaciens* P. Henn. Pilze Ostaf. p. 53. — In foliis, caulibus fructibusque pustulas magnas gelatinosas efformans; cetera ut in typo. 1364
Hab. in *Vangueria eduli*, Africa trop. (VOLKENS).
69. *Æcidium brasiliense* Diet. Hedw. 1897, p. 35. — Maculis rotundatis, magnis, 1-1,5 cm. diam., arescentibus; æcidiis hypophyllis irregulariter dispositis, marginè recurvato, irregulariter denticulato, caduco; sporis polyhedricis vel subglobosis, 21-25 × 18-23, verruculosus. 1365
Hab. in foliis vivis duarum specierum *Cordiæ* in Brasilia (ULE). — *Æc. Cordiæ* P. Henn. habet sporas multo majores.
70. *Æcidium Tournefortiæ* P. Henn. Hedw. 1895, p. 338. — *Æcidiis* hypophyllis, sparsis v. gregariis, rotundatis, dein confluentibus, ad laminam late effusis, maculis fuscis; pseudoperidiis circulariter v. irregulariter aggregatis, pallidis, dein fuscescentibus, semiimmersis, dein cupulatis, pulverulentis; æcidiosporis subglobosis, ellipsoideis, acutangulis, verrucosis, hyalino-flavescentibus, dein subfuscescentibus, 15-24 × 13-20; contextu cellulis rotundato-acutangulis flavofuscescentibus. 1366
Hab. in foliis *Tournefortiæ* spec. pr. Blumenau Brasiliæ (MÖLLER).
71. *Æcidium Acanthi* A. L. Smith, Journ. of Bot. 1895, p. 342. — Maculis flavis, irregulariter rotundatis; æcidiis hypophyllis, laxè aggregatis; pseudoperidiis pallidis, 200 μ . diam., margine reflexo, lacerato, e cellulis hexagonis verrucosis albidis compositis; æcidiosporis subglobosis v. oblongis, hyalino-flavescentibus, 15 μ . vel 15-25 μ . 1367
Hab. in foliis *Acanthi* spec. Africa orient. (ELLIOT).
72. *Æcidium meiapontense* P. Henn. Hedw. 1895, p. 321. — Maculis amphigenis, irregularibus, fuscis; æcidiis hypophyllis, gregariis, plerumque 1 cm. diam., sæpe confluentibus; pseudoperidiis subbiculariter dispositis vel nervos sequentibus, gregariis, minutis, punctiformibus, pallidis, dein cupulatis, margine fimbriatis; sporis subglobosis v. ellipsoideis, acutangulis, subhyalinis, levibus, 15-21 × 13-18; contextu cellulis quadratis vel rhomboideis, subhyalinis, granulatis, 18-24 × 14-18. 1368
Hab. in foliis *Acanthaceæ* ejusdam pr. Meiaponte Brasiliæ (ULE).
73. *Æcidium Phlogis* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 284. — *Æcidiis* hypophyllis, sparsis; pseudoperidiis initio pustuliformibus, 1369

mox apertis cupulatis, margine lacerato-denticulatis; æcidiosporis globosis, subellipticis vel etiam subangulosis, aurantiacis, levibus, 15-20 μ . diam.

Hab. in foliis *Phlogis longifoliae*, Idaho Amer. bor. (HELLER).

— An status æcidiosporif. *Puccinie plumbariae*?

74. *Æcidium cystopoides* Sp. Contr. Fl. Sierra Ventana, 1896, 1370 p. 84. — Pseudoperidiis hypophyllis, albis confluentibus atque glomerulum unicum majusculum 3 mm. diam. difforme efficientibus, primo prominulis testis, dein erumpentibus ac pulverem candidum emittentibus; cellulis pseudoperidii ex elliptico rhomboideis obtusis 30-40 \times 25-30, hyalinis, crassissime tunicatis, grosse denseque radicatim flexuoso-striatis; æcidiosporis e globoso ellipticis 24-30 μ . diam., obtuse angulosis, candidis, subopacis (!) minute densissimeque granuloso-papillosis.

Hab. in foliis *Stenandrii dulcis*, Sierra de la Ventana, Argentina.

75. *Æcidium Tenellæ* Diet. et Holw. Erythea 1895, p. 77. — Hy- 1371 pophyllum; pseudoperidiis confertis, brevibus, cupulatis, margine recurvato, albo, minute denticulato; æcidiosporis rotundatis v. oblongis, tenue verrucosis, 17-20 \times 17-18, membrana hyalina præditis; spermogoniis hypophyllis, sparsis.

Hab. in foliis *Collinsiae tenellæ* in Washington Amer. bor.

(SUKSDORF.)

76. *Æcidium Tubifloræ* P. Henn. Engl. Jahrb. XXIII, p. 542. — 1372 Maculis fuscis, irregularibus, epiphyllis; æcidiis hypophyllis, ochraceis, plus minus sparsis; pseudoperidiis aggregatis, concentricè dispositis, cupulatis, contextu e cellulis oblongis, polyhedricis, flavido-fuscis; æcidiosporis subglobosis v. ovoideis acutangulis, 14-20 \times 14-17, episporio levi, flavo-fuscescente.

Hab. in foliis *Tubifloræ squamatæ* in Camerunia (ZENKER).

77. *Æcidium Solani-argentei* P. Henn. Hedw. 1896, p. 260. — Ma- 1373 culis incrassatis, cretaceis vel fuscescentibus rotundatis; pseudoperidiis gregariis orbiculariter dispositis amphigenis, rotundato-subhemisphæricis, pallide ochraceis, diutius clausis, dein erumpentibus margine integro; æcidiosporis subglobosis vel ellipsoideis acutangulis, subhyalinis vel intus flavis, 14-17 \times 13-15, episporio hyalino vel flavescenti levi; contextu cellulis subglobosis vel oblongis, polyhedricis, hyalinis vel flavis, intus granulatis, 26-36 μ .

Hab. in foliis vivis *Solani argentei*, St. Catharina Brasiliæ. (ULE).

78. *Æcidium Vestiaë* Neger, Anal. de la Univ. Santiago Chile 1896, 1374
XCI, p. 781. — Foliis et partibus herbaceis caulium insidens
et maculas flavas circulares generans; pseudoperidiis gregariis,
usque 1 mm. longis, nonnunquam concentricè circulariter dispo-
sitis, aurantiacis.

Hab. in foliis caulibusque *Vestiaë chilensis* et *V. lycioidis*
pr. Concepcion in Chile. — Species forma sporarum ab *Æcidio*
Cestri Mont. vix recedens.

79. *Æcidium Leonotidis* P. Henn. Pilze Ostaf. p. 52. — Maculis 1375
epiphyllis, fusciscentibus; æcidiis sparsis hypophyllis, in tomento
nidulantibus; pseudoperidiis aggregatis v. solitariis, pustulatis, ir-
regulariter erumpentibus, dein cupulatis; æcidiosporis subglobosis,
oblongis v. ovoideis, plus minus acutangulis, hyalinis v. flavo-
fusciscentibus, verrucosis, 20-32 × 20-24; spermogoniis hypophyllis;
spermatii oblongis, hyalinis, 4-5 × 2½-3.

Hab. in foliis *Leonotidis velutinæ* in Africa trop. (VOL-
KENS).

80. *Æcidium Hyptidis* P. Henn. Hedw. 1895, p. 337. — Maculis 1376
minutis, fuscis; æcidiis sparsis, amphigenis, plerumque hypophyllis,
minutis; pseudoperidiis fuscis, diutius tectis, pulvinatis, dein apertis,
cupulatis, margine laciniato-fimbriato, albo; æcidiosporis subglo-
bosis, ellipsoideis, subacutangulis, grosse verrucosis, hyalino-flave-
scentibus, dein fusciscentibus, 15-28 × 13-22.

Hab. in foliis vivis *Hyptidis* spec. pr. Blumenau (MÖLLER)
et *H. verticillatæ*, Minas Geraës Brasiliæ (ULE).

81. *Æcidium invallatum* P. Henn. Hedw. 1895, p. 102. — Maculis 1377
hypophyllis, sparsis, flavis v. fuscis, irregulariter rotundatis v.
confluentibus; æcidiis hypophyllis; pseudoperidiis gregariis, pu-
stulatis, flavo-brunneis, dein apertis, brevibus, cupuliformibus, mar-
gine lacerato-fimbriato, pallido, ⅙ mm. diam.; contextu e. cellulis
oblongis, rhomboideis, acutangulis, hyalinis, reticulatis, 30-45 ×
25-35; æcidiosporis subglobosis, ovoideis v. subellipsoideis, colorem
cinereo-atrum simulantibus, re vera autem hyalinis, 25-30 × 22-28;
episporio dense reticulato-verrucoso, hyalino.

Hab. in foliis *Mollinediæ* spec. pr. Goyaz Brasiliæ (ULE).

82. *Æcidium bicolor* Sacc. sp. n. — Pseudoperidiis hypophyllis, grega 1378
riis, immersis erumpentibusque, discretis, epidermide elevata atrata
cinctis, margine tenui, albo subintegro; cellulis peridialibus polygo-
nalibus, 30-40 μ. diam., tunica striolata præditis, pallide ochraceis;
æcidiosporis subglobosis, concoloribus, 20-22 μ. diam., asperulis.

Hab. in foliis subviviis *Mabæ natalensis* pr. Durban, Natal. (J. M. WOOD). — Ab *Æcid. rhytismoideo* f. *Mabæ* sat diversum et matrice circum-atrata margineque pseudoperidii albo (unde bicolor!) distinctum.

83. ***Æcidium pusillum*** Diet. Hedw. 1897, p. 34. — Epiphyllum; 1379
pseudoperidiis maculis arescentibus medio insidentibus vel secus nervos foliorum seriatim dispositis, minutis, margine albo, reflexo, denticulato; sporis ellipticis v. ovoideis, 28-45 × 22-31, dense papillatis, papillis hyalinis, basim versus confluentibus.

Hab. in foliis viviis *Monimiaceæ* pr. Rio de Janeiro Brasiliæ (ULE).

84. ***Æcidium Philibertæ*** P. Henn. Hedw. 1896, p. 260. — Maculis 1380
flavis fuscescentibus, rotundatis; æcidiiis hypophyllis v. petiolicolis sparsis; pseudoperidiis gregariis cylindraceis, pallide flavis, primo clausis, dein apertis margine minute inciso, denticulato, erecto vel parum recurvo, e cellulis oblongis vel subgloboso-ellipsoideis polyhedricis, flavidis, 24-33 × 22-30, intus verrucoso-tessellatis compositis; ædiosporis subglobosis, ellipsoideis vel ovoideis, acutangulis intus flavis, 18-25 × 15-23, episporio levi subhyalino vel flavidulo, 2-3 μ . crasso.

Hab. in foliis petiolisque viviis *Philibertæ* flavæ, Prov. de Catamarca Argentinæ.

85. ***Æcidium Cnidoscoli*** P. Henn. Hedw. 1895, p. 102. — Maculis 1381
fuscis, subrotundatis v. irregularibus, nervos sequentibus; pseudoperidiis orbiculariter dispositis, sparsis, plerumque hypophyllis, raro epiphyllis, minutis, flavis v. fuscidulis, diutius clausis, dein apertis, subcupulatis; contextu cellulis polyhedricis, hyalinis, verrucosis, 35-45 × 24-40; ædiosporis subglobosis v. late ellipsoideis, hyalino-flavescentibus, levibus, 18-28 × 16-24.

Hab. in foliis viviis *Cnidoscoli vitifolii* pr. Goyaz Brasiliæ (ULE).

86. ***Æcidium Mirabilis*** Diet. et Holw. Bot. Gaz. 1897, p. 37. — Ma- 1382
culis circularibus v. irregularibus, magnis, flavis, interdum bullato-elevatis; pseudoperidiis in pagina macularum inferiore, primo cylindraceis, margine subtiliter denticulato, dein basim versus irregulariter laceratis; sporis ovatis v. oblongis, raro globosis, 20-30 × 14-22, membrana tenui, subtiliter verrucosa.

Hab. in foliis *Mirabilis* spec. pr. urbem Mexico (HOLWAY).

87. ***Æcidium Colignonæ*** P. Henn. Hedw. 1896, p. 258. — Maculis 1383
flavis vel pallide ochraceis, incrassatis irregularibus confluenti-

busque; æcidiis hypophyllis vel petiolicolis sparsis vel gregariis; pseudoperidiis sparsis vel aggregatis primo subhemisphæricis dein apertis semiimmersis, cupuliformibus, pallide ochraceis, margine vix denticulato, reflexo vel recto; contextu cellulis plerumque triangulis vel pentagonis intus tessellato-verrucosis, 23-28 × 22-26, flavo-fuscis; æcidiosporis subglobosis, ellipsoideis vel ovoideis, acutangulis, subhyalinis flavescentibus vel fuscescentibus, 15-20 × 14-18; episporio subhyalino vel brunneolo, tenui, levi.

Hab. in foliis et petiolis *Colignoniæ glomeratæ*, Sierra de Tucuman Argentinae (HIERONYMUS, LORENTZ).

88. *Æcidium Buchwaldii* P. Henn. Engl. Jahrb. XXIII, p. 542. — 1384

Maculis epiphyllis, fuscis, subrotundatis; æcidiis hypophyllis, sparsis, aurantiacis; pseudoperidiis aggregatis, plerumque orbiculariter dispositis, cupulatis, margine laciniatis, reflexis; cellulis contextus oblongis, angulatis, subreticulatis, flavis, pallescentibus; æcidiosporis subglobosis, ovoideis v. ellipsoideis, acutangulis, flavis, dein pallescentibus, intus granulosis, 18-26 × 16-23, episporio 2 μ . crasso, sublevi.

Hab. in foliis *Dorsteniæ spec.* in Usambara, Afr. orient. (BUCHWALD).

89. *Æcidium Kraussianum* P. Henn. Pilze Ostaf. p. 53. — Maculis 1385

atrofuscis, rotundatis; æcidiis hypophyllis sparsis; pseudoperidiis orbiculariter dispositis, subaggregatis, diutius clausis, pulvinatis, dein apertis, fuscis; æcidiosporis ovoideis, ellipticis v. subglobosis, sæpe acutangulis, flavo-fuscescentibus, dein brunneis, echinatis, 22-35 × 20-30; episporio valde incrassato, usque ad 10 μ . crasso, echinato-aculeato.

Hab. in foliis *Smilacis Kraussianæ* in Africa trop. (VOLKENS). — *Æc. macrosporo* Peck affine.

90. *Æcidium Alstrœmeriæ* Diet. et Neg. Engl. Jahrb. XXII, p. 355. 1386

— Maculis flavis irregularibus v. ellipticis insidens; spermogoniis numerosis, præsertim in pagina superiore foliorum; pseudoperidiis hypophyllis, tum paucis, tum numerosis congregatis, haud raro circulariter dispositis, aurantiacis, margine subtiliter denticulato, reflexo; æcidiosporis globosis, rarius polyhedricis, 20-25 μ . diam., aurantiacis, subtiliter verrucosis.

Hab. in foliis vivis *Alstrœmeriæ Ligti* pr. Concepcion Chile (NEGER). — *Æc. Leucoji* valde affine.

91. *Æcidium Bunsteri* Neger, Anal. de la Univ. Santiago Chile 1896, 1387

XCI, p. 778. — Pseudoperidiis epiphyllis, seriatim dense ag-

gregatis, circiter 300 μ . latis, 180 μ . altis; sporis obscure aurantiacis, forma irregulari-rotunda, sublevibus, 25 μ . diam.

Hab. in *Sisyrrinchio* andino in alta Cordillera circa vulcanum Callaqui, Chile.

92. ***Æcidium Pasitheæ*** Diet. et Neg. Engl. Jahrb. XXII, p. 356. — 1389

Amphigenum, dense gregarium; pseudoperidiis cupuliformibus, margine grosse dentato v. lobato, flavido; sporis oblonge quadrangulis v. ellipticis, 25-32 \times 17-22 $\frac{1}{2}$, flavis, minute verruculosis.

Hab. in foliis *Pasitheæ* cœruleæ pr. Santiago Chile, (A. MEYER).

93. ***Æcidium importatum*** P. Henn. Verh. Bot. Ver. Prov. Brandenb. 1389

1895, p. XXV. — Spermogoniis petiolis v. nervis foliorum insidentibus, conicis, rubro-brunneis; spermatis ellipticis v. ovoideis, hyalinis, 4-5 \times 3-4: æcidiis semper in petiolis v. nervis foliorum, nunquam foliocolis; pseudoperidiis initio hemisphæricis, verruciformibus luteis v. aurantiacis, diu clausis, demum albis cupulatis v. longe cylindræis, 1 mm. altis, margine incis, e cellulis oblongis v. subglobosis plerumque polyhedricis initio luteolis dein hyalinis 25-45 \times 22-30 metientibus compositis; æcidiosporis subglobosis v. ellipticis, sæpe angulosis, aurantiacis, guttulis multis parvis v. paucis magnis repletis, 25-30 \times 20-27, episporio 1 μ . crasso, hyalino, levi v. subtilissime punctato tectis.

Hab. in petiolis ac nervis foliorum *Peltandræ* virginicæ ex America boreali Berolinum importatæ.

94. ***Æcidium Eriospermi*** P. Henn. Engl. Jahrb. XXIII, p. 542. — 1390

Maculis flavis v. fuscidulis; æcidiis hypophyllis, sparsis, flavis, aurantiacis; pseudoperidiis orbiculariter dispositis, laxè aggregatis v. sparsis, minutis, cupuliformibus, margine involutis, flavis; æcidiosporis subglobosis v. oblongis, subacutangulis, subflavis, palléscentibus, 15-23 \times 13-18.

Hab. in foliis *Eriospermi* spec. in Usambara, Afr. orient. 1391

95. ***Æcidium Geanthi*** Diet. et Neg. Engl. Jahrb. 1897, p. 162. —

Pseudoperidiis amphigenis, in acervulos circulares v. oblongos congestis, margine albo, denticulato, caduco; æcidiosporis oblongis, 25-32 \times 19-25, flavéscentibus, membrana minute verrucosa, achroa præditis.

Hab. in foliis *Geanthi* humilis pr. Baños de Cauquenes in Chile (DUSEN).

96. ***Æcidium coloradense*** Diet. in Engler und Prantl, Natürl. Pflan- 1392

zenfam. p. 78. — Pseudoperidiis valde convexis, secus series duas

irregulariter interruptas dispositis, haud raro confluentibus; æcidiosporis ellipticis, ovoideis v. piriformibus, in superficie bacillis facile solubilibus instructis, 23-50 \times 14-21.

Hab. in acubus *Piceæ Engelmanni*, Colorado Amer. bor.

97. **Æcidium Heliotropii-europæi** Schröt. Huc *Æc. Heliotropii* Boy. et Jacz., nec Tracy et Gall.

ÆCIDIELLA Ell. et Kels. Bull. Torr. Bot. Cl. 1897, p. 208 (Ety. ab *Æcidio*, cui affine genus). — Tantum sporis uniseptatis a genere *Æcidio* recedit.

1. **Æcidiella Triumphettæ** Ell. et Kels. l. c. — Maculis dilute brunneis, 1393
2-3 mm. diam., margine flavo cinctis; pseudoperidiis in macula confertis, hypophyllis, breve cylindræis, apice rotundatis, dein truncatis ac margine subintegro; contextu e cellulis oblongis v. elliptico-oblongis, 25-30 \times 15-20, punctato-scabris composito; æcidiosporis subglobois v. obovatis, sæpe subangulosis, levibus, 20-23 \times 15-20, plerumque uniseptatis.

Hab. in foliis *Triumphettæ* spec., ins. St. Croix Indiæ occid.

UREDO Pers. — Syll. VII, p. 838, IX, p. 327, XI, p. 222.

1. **Uredo Cherimoliæ** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 215. — 1394
Soridis hypophyllis, parvis, sparsis, pallide fuscis; uredosporis ovoideis v. rotundatis, 21-27 longis, 21-27 latis, membrana tenui, luteola, echinulata, paraphysibus clavatis, membrana luteola, apice valde incrassata, circumdatis.

Hab. in foliis *Anonæ Cherimoliæ* in *Æquatoria*.

2. **Uredo Hyperici-Schimperi** P. Henn. Pilz. Ostaf. p. 51. — Ma- 1395
culis epiphyllis, rufo-brunneis, irregulariter rotundatis; soridis hypophyllis, elevato-pulvinatis, aurantiis dein ochraceis, pulverulentis, sparsis, rarissime aggregatis, 0,5-2 mm. diam.; sporis ellipsoideis v. ovoideis, rotundato-obtusis, aurantio-flavis, sæpe pedicellatis, levibus, 24-30 \times 18-22; episporio subhyalino, 4-5 μ . crasso, subaculeato, stipite hyalino, fragili, usque ad 25 μ . longo.

Hab. in foliis *Hyperici Schimperi* in Africa trop. (VOLKENS).

3. **Uredo Azaræ** Neger, Anal. de la Univ. Santiago, Chile 1896, 1396
XCIII, p. 776. — Soridis hypophyllis, sparsis, aurantiacis, hemisphæricis, diu epidermide tectis, 1-1 $\frac{1}{2}$ mm. diam.; sporis ovoideis, irregularibus, aurantiacis, 28-35 μ . diam., membrana echinulata præditis; pedicellis quasi persistentibus.

Hab. in foliis vivis Azaræ integrifoliæ in valle fluminis Tavolebu Chile.

4. **Uredo Gouaniæ** Ell. et Kels. Bull. Torr. Bot. Cl. 1897, p. 209. — 1397
Soris hypophyllis, sparsis, minutis, vix $\frac{1}{2}$ mm. diam., ferrugineis, in epiphyllis maculas dilute luteas indefinitas efficientibus; sporis obovato-echinulatis, pallide brunneis, 22-27 \times 18-20.

Hab. in foliis Gouaniæ domingensis, St. Croix Indiæ occid.

5. **Uredo Zizyphi** Pat. Bull. Soc. Mÿc. de Fr. 1896, p. 135. — Soris 1398
hypophyllis, dense gregariis, minutis, superficialibus, 150-200 μ . diam.; uredosporis brunneo-fulvis, ovatis v. piriformibus, plus minus angulosis, echinulatis, 24-30 \times 20-25, pedicellis brevissimis, hyalinis, diffluentibus suffultis; paraphysibus numerosis, fulvis, clavatis, meuris, simplicibus v. uniseptatis, 60-80 \times 12-15.

Hab. in foliis vivis Zizyphi, Tonkin (Box).

6. **Uredo Uleana** Diet. Hedw. 1897, p. 36. — Soris maculis purpu- 1399
rascentibus insidentibus, amphigenis, concentricè dispositis, epidermide rupta castanea cinctis; sporis ellipticis v. rarius ovoideis, 35-45 \times 25-33, fuscis, laxè aculeatis; poris germinationis 2.

Hab. in foliis vivis Malpighiaceæ indeterminatæ, Prov. Minas Geraës Brasiliæ (ULE).

7. **Uredo uberabensis** P. Henn. Hedw. 1895, p. 321. — Maculis 1400
atrofuscis, irregulariter confluentibus, epiphyllis; soris dense gregariis, epidermide rupta cinctis, plerumque confluentibus, ochraceis, pulverulentis; sporis ovoideis, piriformibus, ellipsoideis v. subglobosis, interdum breviter stipitatis, hyalino-flavescentibus v. fuscescentibus, obtusis, dense aculeatis, 24-35 \times 18-26, aculeis hyalinis acutis 1 μ . longis.

Hab. in foliis Byrsonimatis spec. in prov. Minas Geraës Brasiliæ (ULE).

8. **Uredo Tillææ** Mc. Alp. Agr. Gaz. Sydney 1895, n. 11 Novbr. 1401
p. 6, fig. 16. — Soris hypophyllis, minutis, globosis v. ovalibus, interdum confluentibus; uredosporis difformibus, plerumque globosis v. subovalibus, levibus, aurantiacis, 19 μ . diam. vel 20 \times 16, pedicello hyalino fultis.

Hab. in foliis Tillææ spec. pr. Melbourne, Australia.

9. **Uredo andicola** Diet. et Neg. Engl. Jahrb. 1897, p. 162. — Soris 1402
epiphyllis, rarius hypophyllis, irregularibus, sparsis, epidermide mellea diu velatis, aurantiacis; uredosporis ollipticis v. obovatis, 20-25 \times 14-18, episporio tenui, breviter echinulato, achroo præditis, sine paraphysibus.

Hab. in foliis vivis Rubi geoidis in regione andina Araucanæ, Chile (NEGER).

10. **Uredo Terminaliæ** P. Henn. (sub *Uredo* *Byrsonimatis* P. Henn.) 1403
Hedw. 1895, p. 98. — Maculis nullis; soris hypophyllis, solitariis v. gregariis, in tomento nidulantibus, $\frac{1}{2}$ -1 mm. diam., epidermide rupta cinctis, ochraceis; sporis oblongis v. clavatis, flavo-brunneis v. fuscescentibus, intus granulatis, 22-30 \times 15-25, episporio levi v. subgranulato.

Hab. in foliis Terminaliæ argenteæ (non *Byrsonimatis*) in prov. Minas Geraës Brasiliæ (ULE).

11. **Uredo Cupheæ** P. Henn. Hedw. 1895, p. 99. — Maculis epi- 1404
phyllis, confluentibus, violaceo-fuscescentibus; soris plerumque hypophyllis, gregariis, pustulatis, irregulariter rotundatis v. oblongis confluentibusque, ochraceis, epidermide rupta vesiculata velatis; sporis subglobois, ovoideis v. ellipsoideis, acutangulis, flavo-brunneis v. fuscidulis, intus subgranulatis, 18-25 \times 16-24; episporio tenui, subgranulato v. sublevi.

Hab. in foliis vivis Cupheæ spec. pr. Goyaz (ULE) et C. micranthæ ad Piahy Brasiliæ (GARDEN).

12. **Uredo arenariicola** P. Henn. Hedw. 1896, p. 253. — Maculis 1405
minutis, sparsis, fuscis vel pallidis; soris hypophyllis punctiformibus, ochraceis vel fuscis, rotundatis; sporis subglobois vel globoso-ellipticis, flavis vel brunneis, 18-22 \times 16-20, episporio brunneo vel subcastaneo, levi vel minute verrucoso, 3 μ . crasso.

Hab. in foliis Arenariæ diffusæ Prov. de Salta Argentinæ (HIERONYMUS, LORENTZ).

13. **Uredo Eugeniæ** P. Henn. Hedw. 1895, p. 337. — Soris am- 1406
phygenis cauliculisque in maculis fuscis, gregariis, irregularibus, sæpe confluentibus, flavis, subpulverulentis; sporis ovoideis, oblongis, subpiriformibus, pallide flavis, granulatis, 15-24 \times 12-17; episporio 2 $\frac{1}{2}$ -3 μ . crasso, verrucoso v. granulato, pallido.

Hab. in foliis vivis Eugeniæ pr. Blumenau Brasiliæ (MÖLLER).

14. **Uredo Licanæ** P. Henn. Hedw. 1895, p. 99. — Maculis brunneo- 1407
fuscis, irregularibus; soris amphigenis, plerumque epiphyllis, irregulariter pulvinatis, sæpe confluentibus, ochraceis; sporis subglobois, ovoideis v. ellipsoideis, intus læte flavis, 17-23 \times 15-20; episporio subhyalino, 3-4 μ . crasso, verrucoso-aculeato.

Hab. in foliis Licanæ spec. in prov. Goyaz Brasiliæ (ULE).

15. **Uredo Sinensis** Diet. Hedw. 1898, p. 213. — Soris minimis in 1408

acervulos parvos compositis et per superiorem paginam foliorum sparsis, epidermide rupta tectis; uredosporis obovatis, 24-30 \times 18-24, episporio achroo, aculeis validis instructo indutis.

Hab. in foliis Bubi reflexi ad Hongkon Chinæ (Dr. C. KLUGKIST).

16. **Uredo Klugkistiana** Diet. Hedw. 1898, p. 213. — Soris amphigenis mediocribus, nudis, castaneis; uredosporis ellipticis plerumque utrinque acuminatis, 35-55 \times 25-30 μ . poris germinationis 4 intructis, fuscis, lineis spiralibus prominentibus hyalinis instructis et quasi alatis, apice papilla pallidiore ornatis.

Hab. in foliis Rhois semialatæ inter Tsurumi et Kanagawa prope Yokohama Japopia (Dr. C. KLUGKIST).

17. **Uredo Dalbergiæ** P. Henn. Hedw. 1895, p. 98. — Soris hypophyllis dense gregariis, minutis, pallidis v. pallide ochraceis, epidermide rupta versicolori velatis, sæpe confluentibus, pulverulentis; sporis ovoideis, subglobosis v. ellipsoideis, hyalino-flavescentibus v. subfuscescentibus, granuloso-verrucosis, 16-22 \times 13-16; episporio minute verrucoso.

Hab. in foliis Dalbergiæ spec. pr. Goyaz Brasiliæ (ULE).

18. **Uredo cassiicola** P. Henn. Hedw. 1895, p. 98. — Maculis epiphyllis, fuscis v. atris; soris hypophyllis, gregariis sparsisque, rotundatis, vix elevatis, sæpe confluentibus, ochraceis; sporis subglobosis, ovoideis, ellipsoideis v. oblongatis, flavis v. flavo-brunneis, granulatis, 14-23 \times 12-16; episporio sublevi v. granuloso, flavo-brunneo, ca. 2-3 μ . crasso

Hab. in foliis Cassiæ spec. in prov. Minas Geraës Brasiliæ (ULE).

19. **Uredo mruariensis** P. Henn. Pilz. Ostafz. p. 51. — Maculis fuscis; soris amphigenis, gregariis, orbiculariter dispositis, confluentibus, ochraceo-aurantiis, elevatis, diutius tectis; uredosporis ovoideis v. ellipsoideis, granulato-verrucosis, flavo-ochraceis v. subfuscescentibus, 18-22 \times 12-14; episporio 1-2 μ . crasso, minute aculeato.

Hab. in foliis Cassiæ goratensis in Africa trop. (VOLKENS).

20. **Uredo Longipedis** P. Henn. Hedw. 1895, p. 97. — Maculis amphigenis, brunneo-fuscis, subrotundatis; soris amphigenis, circulariter dispositis v. nervos sequentibus, pustulatis, ochraceis, epidermide rupta cinctis; sporis ovoideis, subglobosis v. ellipsoideis, flavis v. flavo-brunneis, verrucosis, 18-24 \times 14-18; paraphysibus clavatis v. capituliformibus, aurantiis v. brunneis, usque ad 45 μ . longis, 12-18 μ . crassis; pedicello hyalino.

Hab. in foliis vivis *Calliandræ longipedis* pr. Goyaz
Brasiliæ (ULE).

21. **Uredo Baphiæ** P. Henn. Engl. Jahrb. XXIII, p. 543. — Ma- 1414
culis minutis, gregariis, amphigenis, sparsis; soris pulvinatis, atris,
hypophyllis; uredosporis subglobosis, ovoideis, acutangulis, brun-
neis, aculeato-echinatis, 20-26 \times 19-24.

Hab. in foliis *Baphiæ nitidæ* in Camerunia (J. BRAUN).

22. **Uredo Machærii** Diet. Hedw. 1897, p. 36. — Soris confluentibus 1415
ramos valde deformatos plane obtegentibus, cinnamomeis; sporis
ovoideis, circiter 16 \times 14 μ ., dilute fuscis, breviter echinulatis.

Hab. in foliis *Machærii* spec. in Brasilia (ULE). — An hæc
species ad *Raveneliam* ducenda est?

23. **Uredo Pithecolobii** P. Henn. Hedw. 1895, p. 98. — Soris cau- 1416
licolis deformantibus, corticem rumpentibus, confluentibus, pul-
verulentis, ochraceis; sporis ellipsoideis, ovoideis v. subglobosis,
hyalino-flavescentibus, intus granulosis, 15-26 \times 12-18; episporio
verrucoso.

Hab. in ramis *Pithecolobii* spec. in prov. Goyaz Brasiliæ
(ULE).

24. **Uredo maranguensis** P. Henn. Pilz. Ostaf. p. 51. — Maculis 1417
rotundatis, flavis, deinde fuscescentibus; soris hypophyllis, elevato-
pulvinatis, cinereo-brunneis, deinde fusco-ochraceis, plerumque 1
mm. diam.; uredosporis ovoideis v. ellipsoideis, subfuscis, granu-
lato-verrucosis, 16-23 \times 14-18; episporio 2 μ . crasso, verrucoso,
fusco; paraphysibus clavatis, hyalino-fuscescentibus, levibus, 62-
75 \times 15-18.

Hab. in foliis *Indigoferæ arrectæ* in Africa trop. (VOLKENS).

25. **Uredo Lentis** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 215. — 1418
Soris cauliculis v. foliiculis, parvis, atro-brunneis, rotundatis v.
elongatis, sparsis, primo epidermide tectis; sporis globosis v. rarius
ovatis, castaneis, 21-33 μ . diam., membrana aculeolata, ad poros
germinationis incrassata.

Hab. in caulibus foliisque *Lentis* esculentæ in Æquatoria.

26. **Uredo Desmodii-tortuosi** P. Henn. Hedw. 1896, p. 252. — Ma- 1419
culis minutis pallidis vel nullis; soris amphigenis plerumque hy-
pophyllis, sparsis vel gregariis interdum confluentibus, pulvinato-
applanatis vel patelliformibus, epidermide rupta pallida cinctis,
 $\frac{1}{2}$ -1 mm. diametro, pallide cinnamomeis; sporis ovoideis vel ob-
longis, flavo-brunneis, 18-28 \times 15-23; episporio levi, brunneo,
1-2 μ . crasso.

Hab. in foliis vivis Desmodii tortuosi in ins. Puertorico (SINTENIS).

27. **Uredo bauhiniicola** P. Henn. Hedw. 1895, p. 98. — Soris cauli- 1420
colis, late effusis, confluentibus, in tomento nidulantibus, pallide
flavis; sporis subglobosis, ellipsoideis v. ovoideis, hyalino-flavescenti-
bus, dense aculeatis, 14-20 \times 12-18; episporio aculeato, subhya-
lino.

Hab. in ramis junioribus Bauhiniæ rubiginosæ pr. Goyaz
Brasiliæ (ULE).

28. **Uredo Arachidis** Lagh. Ured. herb. Fries. 1895, p. 106. — Soris 1421
parvis, hypophyllis, sparsis, epidermide rupta cinctis, castaneis;
uredosporis ovoideo-rotundatis, 24-30 μ . diam.; episporio fulvo,
aculeato, ad poros germinationis incrassato.

Hab. in foliis vivis Arachidis hypogææ in Surinam Amer.
merid.

29. **Uredo eupatoriicola** P. Henn. Hedw. 1895, p. 337. — Maculis 1422
fuscis, sparsis; soris amphigenis, pustulatis, flavo-fuscescentibus,
diutius clausis, oblongis v. rotundatis, ca. 1 mm. diam.; sporis
ovoideis, subglobosis v. ellipsoideis, hyalino-flavescentibus v. fu-
scescentibus, aculeato-verrucosis, 17-28 \times 15-25; episporio aculeato.

Hab. in foliis vivis Eupatorii spec. pr. Blumenau Brasiliæ
(MÖLLER).

30. **Uredo Chætantheræ** Neg. Engl. Jahrb. XXII, p. 358. — Soris 1423
præsertim in foliis involucri, minutis, punctiformibus v. breviter
linearibus, $\frac{1}{2}$ mm. longis, $\frac{1}{5}$ mm. latis; sporis globosis, rarius
ovoideis v. oblongis, ca. 25 μ . diam., intense castaneis, minute
echinulatis.

Hab. in involucris Chætantheræ linearis pr. Concepcion
Chile (NEGER).

31. **Uredo Elephantopodis** P. Henn. Hedw. 1896, p. 253. — Maculis 1424
fuscis irregularibus; soris hypophyllis, minutis, pulvinate-applanatis,
rotundatis, dein cupulatis epidermide rupta cinctis, pallide ochra-
ceis, subpulverulentis; sporis subglobosis vel late ellipsoideis, brun-
neo-fuscis, 15-20 \times 14-18; episporio crasso, atrobrunneo, dense ver-
rucoso.

Hab. in foliis Elephantopodis scabri in Brasilia (ULE).

32. **Uredo valdiviana** Diet et Neg. Engl. Jahrb. XXII, p. 358. — 1425
Soris hypophyllis, minutis, sparsis, aurantiacis, epidermide fissa
semitectis; sporis obovatis v. oblongis, 33-43 \times 23-28, membrana
achroa echinulata præditis.

Hab. in foliis vivis *Baccharidis elaeoidis* pr. Corral in Chile (NEGER).

33. **Uredo Bidentis** P. Henn. Hedw. 1896, p. 251. — Maculis nullis vel fuscidulis; soris sparsis vel dense gregariis amphigenis, saepe hypophyllis, minutis, pulvinatis applanatisque vel subpatelliformibus, ochraceis, epidermide rupta cinctis; sporis ovoideis, ellipsoideis vel subglobosis, flavis vel laete brunneis, 24-34 × 22-28; episporio castaneo, 2-3 μ. crasso, sublevi vel minute verrucoso.

Hab. in foliis vivis *Bidentis pilosi* et *helianthoidis* duobus locis in Brasilia (ULE).

34. **Uredo Siphocampyli** P. Henn. Hedw. 1896, p. 249. — Soris amphigenis dense gregariis confluentibusque, folium omnino occupantibus, cinnamomeis, pulverulentis; sporis subglobosis ovoideis vel ellipsoideis, laete brunneis, 23-28 × 21-26; episporio castaneo, tenui, sublevi vel minute verruculoso.

Hab. in foliis *Siphocampyli* spec. Sierra de Tucuman Argentinae (HIERONYMUS, LORENTZ).

35. **Uredo Ipomœæ-pentaphyllæ** P. Henn. Hedw. 1896, p. 252. — Maculis flavis irregularibus confluentibusque; soris sparsis vel gregariis æcidiiformibus, hypophyllis, primo pustulatis, pallidis vel flavis, dein apertis, epidermide inflata cinctis; uredosporis subglobosis ovoideis vel subellipsoideis, flavis vel fuscobrunneis, 16-24 × 15-23; episporio dense verrucoso.

Hab. in foliis vivis *Ipomœæ pentaphyllæ* pr. Rio de Janeiro Brasiliæ (ULE).

36. **Uredo Dieteliana** Sacc. et Syd. *U. spinulosa* Diet. Hedw. 1897, p. 36, nec Cke. — Soris maculis pallidis insidentibus, amphigenis praesertim epiphyllis, per paucos aggregatis, interdum circulariter dispositis, minutis, epidermide fissa cinctis, cinnamomeis; sporis ovoideis vel globosis, 31-40 × 24-33, pallide fuscis, aculeis acutis ornatis.

Hab. in foliis vivis *Convolvulaceæ* indeterminatæ pr. Rio de Janeiro Brasiliæ (ULE).

37. **Uredo Adenocalymmatiss** P. Henn. Hedw. 1896, p. 249. — Maculis nullis; soris hypophyllis sparsis gregariisque minutis, rotundato-pulvinatis, pallide ochraceis, pulverulentis; sporis subglobosis, ovoideis, ellipsoideis vel piriformibus saepe acutangulis, subhyalinis vel pallide flavis fuscidulisque, intus granulato-punctatis, 15-24 × 13-18; episporio dilute brunneolo vel fuscidulo, tenui, granulato-verrucoso.

Hab. in foliis *Adenocalymmatiss paulistarum* in provi. St. Catharina Brasiliæ (ULE).

38. **Uredo Arrabidææ** P. Henn. Hedw. 1896, p. 250. — Maculis 1431
nullis; soris hypophyllis sparsis vel dense gregariis, punctiformibus,
rotundatis, pallide ochraceis, diutius tectis; sporis subglobosis, ovoi-
deis vel ellipsoideis, subhyalinis vel pallide flavis, 16-25 × 14-21;
episporio flavo vel subbrunneo, minute verrucoso; paraphysibus
basi conjugatis, clavatis vel fusoides, subrectis vel curvulis ungui-
formibusque apice obtusis vel acutis, flavis vel late brunneis, 26-
35 × 8-11.
Hab. in foliis Arrabidææ conjugatæ et sericeæ pr. Rio
de Janeiro Brasiliæ (ULE).
39. **Uredo cuticulosa** Ell. et Ev. Bull. Labor. Nat. Hist. Univ. 1432
Jowa IV, 1896, p. 67. — Soris gregariis, tenuibus, pallide carneis,
1/2-2 mm. diam., epidermide tenui alba circumscriptis, mox con-
fluentibus, stratum tenue, carneum, 1/2-1 cm. diam. formantibus;
sporis globosis, 15-20 µ. vel obovatis, 18-23 × 15-20; episporio
crasso, hyalino, superne dense tuberculoso, dein inferne levi.
Hab. in foliis vivis Bignoniiæ spec. in Nicaragua (SMITH).
40. **Uredo Castilleiæ** Diet. et Holw. Erythea 1893, p. 247. — Soris 1433
brunneis, plerumque hypophyllis, in lana foliorum evolutis; sporis
late ovalibus v. sphaericis, castaneis, subtiliter echinulatis, 24-30 µ.
diam.
Hab. in foliis vivis Castilleiæ foliolosæ, California Amer.
bor. (BLASDALE).
41. **Uredo coleosporioides** Diet. et Holw. Erythea 1893, p. 247. — 1434
Soris cauliculis v. foliiculis, hypophyllis, aurantiacis; sporis ovoi-
deis usque oblongis, echinulatis, membrana hyalina, 22-30 × 15-25.
Hab. in foliis vivis Castilleiæ foliolosæ in California
(BLASDALE). — Habitu externo statum uredosporiferum *Coleosporii*
simulat, sed sporæ non catenatæ.
42. **Uredo utahensis** Syd. *Uredo Castilleiæ* Tracy et Earle. Proc. 1435
Californ. Acad. V, 1895, p. 731, nec Diet. et Holw. — Soris am-
phigenis, minutis, rotundis v. oblongis, diu epidermide tectis; ure-
dosporis ovalibus v. globosis, rubro-brunneis, episporio subtiliter et
distincte aculeolato, crassiusculo, contextu granuloso, 20-24 × 15-18.
Hab. in foliis Castilleiæ affinis, Utah, Amer. bor.
43. **Uredo Stenandrii** Speg. Contr. Fl. Sierra Ventana, 1896, p. 84. 1436
— Maculis nullis v. pallescentibus, indeterminatis, diffusis; soris
parvulis, 0,3-0,5 mm. diam., sæpius densiuscule gregariis, primo
prominulis epidermide integra tectis, dein erumpentibus, pulve-
rulentis, atro-fuliginis; uredosporis globosis vel ovatis, 24-26 µ.

diam., crassiuscule tunicatis, minute denseque papillois, fulvo-ferugineis.

Hab. in foliis *Stenandrii trinervis* in pascuis Sierra de la Ventana, Argentina.

44. **Uredo varia** Diet. Hedw. 1897, p. 35. — Soris maculis fuscis, 1437
arescentibus circularibus, 1,4-4 mm. diam., insidentibus, epiphyllis, plerumque concentricè dispositis, paucis hypophyllis, epidermide circumvallatis; sporis fuscis, spinulosis, ellipticis v. subglobosis, ovoideis vel irregularibus, 28-40 \approx 20-28.

Hab. in foliis *Acanthaceæ* indeterminatæ pr. Rio de Janeiro Brasiliæ (ULE).

45. **Uredo Alibertiae** P. Henn. Hedw. 1896, p. 254. — Maculis flavis; 1438
soris hypophyllis sparsis vel gregariis, minutis, pulvinate-rotundatis, pallide ochraceis, diutius tectis dein vertice pertusis; sporis ellipsoideis oblongis, ovoideis, clavatis, raro subglobosis, acutangulis, pallide brunneis vel fuscis, 28-45 \approx 26-34, vertice incrassatis; episporio atrobrunneo vel fusco, aculeato-verrucoso, 3-5 μ . crasso.

Hab. in foliis vivis *Alibertiae ellipticæ*, San Paulo Brasiliæ (ULE).

46. **Uredo Holstii** P. Henn. Pilz. Ostaf. p. 52. — Soris hypophyllis, 1439
gregariis confluentibusque in tomento nidulantibus, velatis, diutius tectis, deinde erumpentibus, epidermiæ cinctis, pallide flavis v. griseo-fuscis; sporis subglobosis, ovatis v. ellipsoideis, dense verrucosis, hyalino-fuscescentibus, 21-28 \approx 18-22.

Hab. in foliis *Psychotriæ* sp. in Africa trop. (HOLST).

47. **Uredo Psychotriæ-Volkensii** P. Henn. Pilz. Ostaf. pag. 52. — 1440
Maculis rotundatis, dein confluentibus, fuscis; soris hypophyllis, interdum epiphyllis, minutis, solitariis v. aggregatis confluentibusque, pulverulentis, citrinis v. flavo-ochraceis; sporis subglobosis, ovoideis v. subellipsoideis, flavis v. aurantiis, aculeato-verrucosis, 15-19 \approx 14-18; episporio 1-1 $\frac{1}{2}$ μ . crasso, dense aculeato.

Hab. in foliis *Psychotriæ Volkensii* in Africa trop. (VOLKENS).

48. **Uredo psychotriicola** P. Henn. Hedw. 1895, p. 321. — Maculis 1441
flavis v. fuscis, irregulariter rotundatis; soris epyphyllis, interdum hypophyllis, minutis, sparsis, ochraceis, diutius epidermide velata tectis, rotundatis v. oblongis, sæpe confluentibus; sporis ellipsoideis v. subglobosis, verrucosis, hyalino-flavescentibus, 24-30 \approx 18-25; episporio aculeato, incrassato.

Hab. in foliis vivis *Psychotriæ* spec. pr. Goyaz Brasiliæ (ULE).

49. **Uredo Viticis** Juel. Bih. K. Sv. Vet. Akad. Handl. XXIII, 1442
Afd. III, n. 10, 1897, p. 26, extr. — Soris hypophyllis, sparsis,
maculas non efficientibus, minutissimis, ferrugineis, paraphysibus
hyalinis circumvallatis; uredosporis irregularibus, sæpius obovatis,
circiter 20 μ . diam., membrana dilute brunnea, obtuse aculeolata.
Hab. in foliis Viticis, Paraguay (MALME).
50. **Uredo Salviæ** Diet. Hedw. 1897, p. 36. — Soris epiphyllis, me- 1443
diocribus, nudis, cinnamomeis; sporis globosis, rarius late ellipticis,
circiter 25 μ . diam., membrana fusca, echinulata præditis.
Hab. in foliis Salviæ spec., Serra Geral Brasiliæ (ULE).
51. **Uredo Hyptidis** P. Henn. Hedw. 1895, p. 100. — Maculis fuscis 1444
v. atris, epiphyllis; soris hypophyllis, in tomento nidulantibus,
confluentibus, ochraceis; sporis subglobosis, fuliginis, echinulatis,
23-28 μ .; episporio echinulato, castaneo, 2-3 μ . crasso.
Hab. in foliis vivis Hyptidis scabræ in prov. Minas Ge-
raës Brasiliæ (ULE).
52. **Uredo sphacelicola** Diet. et Holw. Erythea 1893, p. 248. — 1445
Maculis flavescens v. nullis; soris amphigenis, rotundatis, ca.
1 mm. diam., pulverulentis, primo epidermide rupta tectis, fulvis;
sporibus globosis, brunneis, dense echinulatis, 32-40 μ . diam.
Hab. in foliis vivis Sphaceles calycinæ in California.
(BLASDALE).
53. **Uredo Leonotidis** P. Henn. Pilz. Ostaf. p. 52. — Soris minutis, 1446
amphigenis, brunneis v. ochraceis, solitariis v. aggregatis, maculis
fuscis, rotundatis v. irregulariter confluentibus; sporibus subglobosis
v. ovoideis ellipsoideisque, fusco-brunneis, intus verrucosis, 22-30
 \approx 20-24; episporio castaneo, aculeato.
Hab. in foliis Leonotidis velutinæ, cum Æcidio, in Africa
tropica (VOLKENS).
54. **Uredo cancerina** P. Henn. Hedw. 1895, p. 330. — Soris cauli- 1447
colis, pustulis magnis canceriformibus, primo epidermide tectis,
dein irregulariter erumpentibus, rufo-brunneis, pulverulentis, usque
ad 4 cm. longis, 3 cm. latis; uredosporibus subglobosis v. ellipsoideis
verrucoso-aculeatis, fuscis v. fusco-brunneis, 20-25 \approx 19-24; epi-
sporio atro-fusco, aculeis concoloribus densis tecto.
Hab. in caulibus Leonotidis velutinæ in Ecuadoria (SCHWEIN-
FURTH).
55. **Uredo Forsteroniæ** P. Henn. Hedw. 1895, pag. 99. — Maculis 1448
nullis v. obsoletis; soribus minutissimis, hypophyllis v. cauliculis.
pallide flavis, sparsis, rotundatis, punctiformibus; sporibus subglo-

bosis v. ellipsoideis, ovoideis, hyalinis, dense echinulatis, 15-24
13-21.

Hab. in foliis ramulisque Forsteroniæ spec. in prov. Goyaz
Brasiliæ (ULE).

56. **Uredo Periplocæ** P. Henn. Pilz. Ostaf. p. 52. — Maculis flavis, 1449
irregularibus; soris hypophyllis, sparsis v. aggregatis, pulvinate-
applanatis, ochraceis; sporis ovoideis v. ellipsoideis, subaurantio
flavis, verrucosis, interdum pedicellatis, 18-26 \times 15-22, episporio
pallidiore, verrucoso, 1½-2 μ .; pedicello hyalino, 9-15 \times 4-5 μ .

Hab. in foliis Periplocæ linearis in Africa trop. (VOLKENS).

57. **Uredo Ditassæ** P. Henn. Hedw. 1896, p. 249. — Soris hypo- 1450
phyllis rarius epiphyllis, gregariis, paginam inferiorem totam obte-
gentibus, minutis, punctiformibus, hemisphæricis, pallide ochraceis,
diutius tectis, vertice erumpentibus, epidermide velata cinctis, sub-
cupuliformibus; sporis ovoideis vel ellipsoideis, subbrunneis vel
fuscis, 20-28 vel 35 \times 15-32; episporio tenui, brunneolo, 1½-2 μ .
crasso, levi vel minute verruculoso.

Hab. in foliis vivis Ditassæ campestris duobus locis in
Argentina (HIERONYMUS).

58. **Uredo Coccolobæ** P. Henn. Hedw. 1896, p. 253. — Maculis 1451
sparsis, minutis, atrosanguineis vel obsoleteis; soris hypophyllis
sparsis, interdum aggregatis, punctiformibus, rufobrunneis, pulvi-
natis, epidermide diutius tectis, dein cinctis; sporis subglobosis,
ovoideis, oblongis vel subclavatis, interdum acutangulis, subhyalinis,
pallide flavis vel subbrunneolis, 16-30 \times 14-17; episporio minute
verrucoso, brunneolo, 2-3 μ . crasso.

Hab. in foliis vivis Coccolobæ populifoliæ pr. Rio de
Janeiro Brasiliæ (ULE).

59. **Uredo purpurascens** Diet. et Neg. Engl. Jahrb. 1897, p. 162. — 1452
Soribus amphigenis in maculis purpureis sparsis, minutis, ochraceis;
uredosporis ellipticis v. subglobosis, breviter echinulatis, flavo-
brunneis, poris germinationis numerosis instructis, 30-38 \times 25-28.

Hab. in foliis Rumicis spec. pr. Concepcion in Chile (NÆGER).

60. **Uredo Achyranthis** P. Henn. Pilz. Ostaf. p. 51. — Maculis epi- 1453
phyllis, flavis, dein brunneis; soribus hypophyllis, sparsis v. aggregatis,
rotundatis, irregulariter acutangulis, applanatis, pallidis, diu-
tius tectis, dein erumpentibus, flavis, 1-2 mm. diam.; sporibus elli-
psoideis v. subglobosis, flavescens, sublevibus, punctulatis, 13-
17 \times 12-15; episporio tenui, levi.

Hab. in foliis Achyranthis asperæ in Africa trop. (VOLKENS).

61. **Uredo Mogiphanis** Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII, 1454
Afd. III, n. 10, 1897, p. 24, extr. — Maculis rotundatis, circiter
6 mm. latis, non marginatis, brunneis, soros in utraque pagina
sed præsertim subtus gerentibus; soris $\frac{1}{2}$ -1 mm. latis, cinnamo-
meis, sæpe circinatis; uredosporis sæpius subglobosis, circiter 30 μ .
diam., poris fere 6 præditis, membrana haud crassa pallide brun-
nea, papillis granuliformibus regulariter et creberrime obsita, plas-
mate hyalino.

Hab. in foliis *Mogiphanis*, Matto Grosso, Brasilia (LINDMAN).

62. **Uredo solenioides** P. Henn. Hedw. 1896, p. 250. — Maculis 1455
nullis; soris hypophyllis sparsis vel subaggregatis, minutis, sub-
globosis, poculi-vel cupuliformibus, apice rotundato apertis, pallide
ochraceis, 180-220 μ . diametrò; sporis triangularibus oblique te-
trangulis vel subglobosis, castaneis, 18-30 \approx 15-25; episporio primo
sublevi, tandem verrucis subhemisphæricis castaneis tecto; para-
physibus basi conjugatis vermiformibus vel clavatis, curvatis, apice
obtusis, flavis vel brunneolis, 30-80 \approx 8-10 μ .

Hab. in foliis vivis *Nectandræ rigidæ*, San Francisco Bra-
silie (ULE).

63. **Uredo farinosa** P. Henn. Hedw. 1897, p. 216. — Soris rami v. 1456
follicolis, deformantibus, confluentibus, albo-farinaceis, effusis; spo-
ris ovoideis, late ellipsoideis v. subglobosis, hyalino-flavescentibus,
9-14 \approx 8-11; episporio usque ad 2 μ . crasso, levi, hyalino.

Hab. in apicibus ramorum et foliis Lauraceæ cujusdam pr.
Goyaz Brasiliæ (GLAZIOU).

64. **Uredo daphnicola** Diet. Hedw. 1898, p. 213. — Soris maculis 1457
flavis vel fuscis insidentibus hypophyllis, solitariis vel in acervu-
los mediocres compositis epidermide rupta semitectis uredosporis
ellipticis vel subglobosis, 21-26 \approx 17-21, episporio achroo verrucoso
donatis, paraphysibus clavatis vel capitatis immixtis.

Hab. in foliis *Daphnes* sp. (odoræ?) Kowloon in conspectu
urbis Hongkong Sinarum (Dr. C. KLUGKIST).

65. **Uredo Goebeliana** P. Magn. Flora 84, 1897, p. 176, c. fig. — 1458
Soris uredosporiferis amphigenis, solitariis v. aggregatis, dilute
cinnamomeis, vix 1 mm. diam., epidermide fissa cinctis; uredo-
sporibus ovalibus, 19-23 \approx 15 $\frac{1}{2}$ -19, episporio verrucis numerosis so-
litariis regulariter per superficiem sparsis tecto, 3-4 poris germi-
nationis instructis.

Hab. in foliis *Parietariæ* spec. in Venezuela.

66. **Uredo ficina** Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII, Afd. 1459

III, n. 10, 1897, p. 25, extr. — Hypophylla, late effusa, maculas non formans; soris minutis, circiter 150 μ . diam., tandem pulveraceis, fulvis, paraphysibus numerosissimis incurvis deformibus, membrana crassissima lutea instructis circumvallatis; sporis plerumque obovatis, interdum rotundatis, sæpius ca. 32 \times 23, membrana dilutissime brunnea, aculeis validis minus dense obsita.

Hab. in foliis Fici, Paraguay (LINDMAN).

67. **Uredo velata** Ell. et Ev. Bull. Tour. Bot. Club. 1895, p. 435. 1460

— Soris amphigenis, plerumque epiphyllis, pulvinatis, sparsis, orbicularibus, $\frac{1}{2}$ -1 mm. diam., plerumque rubro-purpureo-marginatis, epidermide demum centro rupta semper velatis; sporis ellipticis, pallidis, episporio crasso, subtiliter echinulatis, 22-30 \times 18-20; paraphysibus parce evolutis.

Hab. in foliis Euphorbiæ cordatæ in ins. Sandwicens. (HELLER).

68. **Uredo tangaënsis** P. Henn. Pilz. Ostaf. p. 51. — Soris hypo- 1461

phyllis, solitariis v. gregariis, pallide ochraceis, rotundatis, circiter 0,5 mm., epidermide cinctis, maculis pallidis, irregularibus; sporis ellipsoideis v. subglobosis, flavo-fuscescentibus v. subhyalinis, dense granulato-verrucosis, 22-28 \times 15-22

Hab. in foliis Euphorbiæ sp. frutescentis in Africa trop. (VOLKENS).

69. **Uredo Euphorbiæ-Engleri** P. Henn. Pilz. Ostaf. p. 51. — Ma- 1462

culis pallide fuscis, rotundatis, sparsis; soris uredosporiferis hypophyllis, plerumque concentricè dispositis, pustulatis, dein epidermidem rumpentibus, ochraceo-fuscis, circ. 0,5 mm.; uredosporis ellipsoideis, ovoideis v. subglobosis, flavo-fuscis, dense verrucosis, 16-28 \times 14-23; episporio subhyalino-fuscescente, crasso, verrucoso; paraphysibus clavatis v. subellipsoideis, brunneo-fuscis, levibus.

Hab. in foliis vivis Euphorbiæ Engleri in Africa trop. (VOLKENS).

70. **Uredo capituliformis** P. Henn. Hedw. 1895, p. 97. — Soris in 1463

maculis subflavescentibus v. obsoletis, hypophyllis, gregariis, rotundatis, minutis, ca. 1 mm. diam. dispositis, capituliformibus, subglobosis, castaneis v. rufo-brunneis, 75-170 μ . diam., paraphysibus basi conjunctis, subulatis v. corniformibus, castaneis, 45-60 \times 5-7, cinctis; sporis stellulatis, subcordatis, ovoideis, tri-vel multiangulatis, castaneis v. fusco-brunneis, levibus v. minutissime verrucosis, 15-25 \times 13-23.

Hab. in foliis Alchorneae spec. in prov. Goyaz Brasiliae (ULE).

71. **Uredo Alchorneae** P. Henn. Hedw. 1896, p. 252. — Soris in cau- 1464
libus fructibusque eos deformantibus, sparsis vel gregariis pulvinatis, confluentibus, epidermide rupta cinctis, ochraceis pulverulentis; uredosporis subglobosis, ellipsoideis vel ovoideis flavo-brunneis vel fuscis, 16-22 \times 15-19; episporio brunneo vel fusco minute verrucoso.

Hab. in caulibus fructibusque Alchorneae iricuræ Prov. St. Catharina Brasiliae (ULE).

72. **Uredo Phyllanthi** P. Henn. Hedw. 1896, p. 248. — Maculis nullis 1465
vel punctiformibus, fuscis, gregariis; soris hypophyllis sparsis vel gregariis minutis, punctiformibus, pulvinate-bullatis, epidermide pallide fusca tectis vel cinctis; sporis subglobosis, ovoideis vel oblongis sæpe acutangulis, intus flavo-brunneis, 15-30 \times 13-23; episporio levi, 2-3 μ . crasso.

Hab. in foliis vivis Phyllanthi spec. Rio de Janeiro Brasiliae (ULE).

73. **Uredo crotonicoia** P. Henn. Hedw. 1896, p. 251. — Maculis 1466
nullis vel fuscidulis; soris amphigenis, minutis punctiformibus, sparsis gregariisque, rotundato-pulvinatis vel hemisphaericis, pallide ochraceis, diutius tectis, dein epidermide velata cinctis; sporis subglobosis, ovoideis vel oblongis, pallide flavis vel fuscidulis intus pustulatis, 18-28 \times 15-22; episporio brunneo, 2-3 μ . crasso, sublevi vel punctulato.

Hab. in foliis vivis Crotonis glandulosi, La Calera Argentinae (GALANDER).

74. **Uredo Crotonis** P. Henn. Hedw. 1895, p. 99. — Soris hypo- 1467
phyllis, dense gregariis confluentibusque, pulvinatis, ochraceis, pulverulaceis; sporis ellipsoideis, ovoideis v. subglobosis, flavo-vel brunneo-fuscis, dein subatris, aculeatis, 30-40 \times 20-30; episporio 3-4 μ . incrassato, aculeato aculeis apiculatis, 1-2 μ . longis, subalinis.

Hab. in foliis Crotonis spec. in prov. Minas Geraes Brasiliae (ULE).

75. **Uredo Dioscoreae** P. Henn. Hedw. 1896, p. 255. — Maculis pal- 1468
lidis vel fuscidulis confluentibusque; soris amphigenis, sparsis gregarisque, patelliformibus epidermide rupta cinctis, ochraceis, punctiformibus, $\frac{1}{3}$ - $\frac{1}{2}$ μ . diametro; sporis ovoideis, ellipsoideis vel subglobosis, flavo-brunneis vel fuscis intus punctulatis, 20-25 \times 15-22 μ .; episporio late brunneo, tenui, aculeato-verrucoso.

Hab. in foliis vivis *Dioscoreæ grandifloræ* pr. Rio de Janeiro Brasiliæ (ULE).

76. **Uredo ochracea** Diet. Hedw. 1897, p. 35. — Soris hypophyllis, 1469
maculis ochraceis, in superiore pagina foliorum rubiginosis, indeterminatis insidentibus, diu tectis; sporis ellipticis vel ovoideis, ca. $30 \times 25 \mu$., membrana tenui, echinulata, dilute flavo-brunnea præditis; poris germinationis 2.

Hab. in foliis vivis *Commelinæ* spec. pr. San Francisco Brasiliæ (ULE).

77. **Uredo Bomareæ** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 215. — 1470
Soribus parvis, hypophyllis, sparsis vel confluentibus, luteis; uredosporis rotundatis v. ovoideis, 21-28 μ . diam., membrana achroa, echinulata, contentu pallide aurantiaco.

Hab. in foliis *Bomareæ* sp. in Æquatoria.

78. **Uredo Heterantheræ** P. Henn. Hedw. 1896, p. 248. — Maculis 1471
amphigenis, sparsis gregariisque, minutis rotundatis; soribus sparsis vel aggregatis, minutis punctiformibus, rotundatis, diu epidermide tectis, dein ruptis brunneis vix $\frac{1}{3}$ mm. diametro; sporis subglobosis, ovoideis vel ellipsoideis, 18-25 \times 16-24 brunneis; episporio tenui, levi.

Hab. in foliis vivis *Heterantheræ reniformis*, Prov. St. Catharina Brasiliæ (ULE).

79. **Uredo Eucharidis** Lagh. Bull. Soc. Myc. de Fr. 1895, p. 215. — 1472
Soribus plerumque hypophyllis, pustuliformibus, sparsis, parvis, primo epidermide tectis, luteis; uredosporibus ovoideis, 22-33 \times 18-24, membrana achroa, echinulata, contentu pallide aurantiaco.

Hab. in foliis *Eucharidis candidæ* in Æquatoria.

80. **Uredo commelinacea** Ell. et Kels. Bull. Torr. Bot. Cl. 1897, 1473
p. 209. — Soribus amphigenis sparsis v. maculis suborbicularibus indefinitis brunneolis subbullatis insidentibus, 3-5 mm. diam., epidermide in pustulas hemisphæricas ferrugineas $\frac{1}{2}$ -1 mm. diam. elevata denique centro fissa tectis; sporibus echinulatis, globosis, 19-21 μ . diam. vel etiam ellipticis, 22-27 \times 20-22, ferrugineis.

Hab. in foliis *Commelinæ elegantis*, St. Croix Indiæ occid.

81. **Uredo Alstrœmeriæ** Diet. Hedw. 1897, p. 35. — Soribus amphigenis, 1474
minutis, diu tectis, deinde epidermide reflexa circumdatis, cinnamomeis; sporibus ellipticis vel subglobosis 23-30 \times 20-23, luteolis, echinulatis; poribus germinationis numerosis.

Hab. in foliis vivis *Alstrœmeriæ* spec. in Prov. Minas Geraës Brasiliæ (ULE) et *A. revolutæ* pr. Concepcion in Chile (NEGER).

82. **Uredo Heliconiæ** Diet. Hedw. 1897, p. 35. — Soris epiphyllis, 1475
sparsis, maculis rubiginosis vel fuscis, singulis, insidentibus, minutis,
primo tectis, deinde epidermide rupta cinctis; sporis ovoideis vel pi-
riformibus, 22-30 \approx 16-21, membrana achroa grosse echinulata præ-
ditis; poris germinationis 2.

Hab. in foliis vivis Heliconiæ spec. Rio de Janeiro Brasiliæ
(ULE).

83. **Uredo nigropuncta** P. Henn. Hedw. 1896, p. 254. — Maculis 1476
atris punctiformibus; soris dense gregariis hypophyllis, rarius epi-
phyllis, disciformibus, rotundatis, appianatis, atris, ca. $\frac{1}{3}$ mm. dia-
metro; sporis subglobosis, ellipsoideis vel ovoideis, flavis vel flavo-
brunneis, fuscidulis, 22-28 \approx 20-26; episporio levi vel subverru-
coso, 3-4 μ . crasso, pallide brunneo.

Hab. in foliis Stantopæe spec. pr. Rio de Janeiro Brasiliæ
(ULE).

84. **Uredo Epidendri** P. Henn. Hedw. 1896, p. 254. — Maculis bul- 1477
latis, pallidis, zona sanguinea cinctis; soris amphigenis singulis vel
aggregatis, pulvinatis, dein epidermide pallida vesiculosa tectis,
dein erumpentibus, pallide brunneis; sporis oblongis, ovoideis, raro
subglobosis, sæpe acutangulis, intus flavis granulatis, 22-32 \approx
16-26; episporio subhyalino usque ad 5 μ . crasso, sublevi vel
minute punctato-verruculoso.

Hab. in foliis et vaginis Epidendri spec. Prov. St. Catha-
rina Brasiliæ (ULE).

85. **Uredo Dianellæ** Diet. Hedw. 1898, p. 213. — Soris hypophyllis, 1478
mediocribus, sparsis, epidermide rupta purpurea tectis; uredosporis
obovatis v. ellipticis, 22-27 \approx 18-20, episporio flavidulo aculeato
præditis.

Hab. in foliis Dianellæ ensifoliæ ad Hongkong Sinarum
(Dr. C. KLUGKIST).

86. **Uredo Schænocauli** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1479
p. 438. — Soris erumpentibus, plerumque ellipticis, $\frac{1}{2}$ - $\frac{3}{4}$ \approx $\frac{1}{3}$ mm.,
primo epidermide velatis, mox nudis, luteis; sporis globosis, 15
diam., sæpius obovatis v. ellipticis, 19-22 \approx 14-16, subtiliter acu-
leatis.

Hab. in foliis Schænocauli gracilis, Florida, Amer. bor.
(NASH).

87. **Uredo Kyllingiæ** P. Henn. Hedw. 1896, p. 256. — Maculis fuscis 1480
confluentibus; soris amphigenis, rotundatis vel oblongis, primo
pallidis dein ochraceis, minutis, confluentibus, epidermide rupta

tectis; sporis ovoideis, ellipsoideis vel subglobosis, flavis, 15-21 \times 13-18; episporio tenui, levi, castaneo.

Hab. in foliis vivis *Kyllingiæ* cæspitosæ in prov. St. Catharina Brasiliæ (ULÉ).

88. **Uredo cypericola** P. Henn. Pilz. Ostaf. p. 52. — Soris amphigenis, ellipticis v. striiformibus confluentibusque, diutius tectis, dein erumpentibus, epidermide lacerato-laciniata cinctis, flavo-brunneis; sporis ovoideis v. ellipsoideis, fusco-brunneis v. atrofuscis, aculeato-verrucosis, 18-24 \times 15-18; episporio castaneo, 1-1 $\frac{1}{2}$ μ . crasso, aculeato-verrucoso.

Hab. in foliis *Cyper*i sp. in Africa trop. (VOLKENS).

89. **Uredo Andropogonis-lepidi** P. Henn. Pilz. Ostaf. p. 52. — Soris amphigenis, elongatis v. linearibus, sparsis v. aggregatis, ochraceis, deinde pallescentibus, epidermidem longitudinaliter rumpentibus; sporis subglobosis, ovoideis v. oblongis, flavis v. aurantiacis, 15-28 \times 15-23, sublevibus.

Hab. in foliis *Andropogonis lepidi* in Africa trop. (VOLKENS).

90. **Uredo tonkinensis** P. Henn. Hedw. 1895, p. 11. — Maculis rufo-brunneis, amphigenis; soris hypophyllis, ellipticis v. elongatis, gregariis, diutius tectis, epidermidem longitudinaliter rumpentibus, rufo-brunneis; uredosporis ovoideis, subglobosis, ellipsoideis v. piriformibus, læte brunneis, minute verrucosis, 20-28 \times 16-26; paraphysibus clavatis v. lagenariiformibus, hyalinis, 45-60 \times 15-25.

Hab. in foliis *Andropogonis* in Hanöi, Tonkin.

91. **Uredo Muhlenbergiæ** Diet. Bull. Cornell Univ. III, n. 1, 1897, p. 22. — Soris amphigenis, in maculis purpureis v. brunneis insidentibus, oblongis, ochraceo-brunneis; sporis ellipticis v. sphaericis, 26-32 \times 24-30, brunneolo-luteis; spinulosis, 4 poris germinationis instructis.

Hab. in foliis *Muhlenbergiæ* diffusæ, Auburn, Alabama Amer. bor.

92. **Uredo Ehrhartæ** Mc. Alp. Agr. Gaz. Sydney. VI, 1896, p. 6, fig. 27. — Soris minutis, ovalibus v. elongatis, linearibus, confluentibus, amphigenis, primo epidermide tectis, rubescenti-brunneis; uredosporis subglobosis v. ovalibus, aurantiacis, subtiliter echinulatis, 21-25 \times 18-20.

Hab. in foliis *Ehrhartæ* stipoidis, Victoria Australiæ.

93. **Uredo poiophila** Speg. Contr. Fl. Sierra Ventana, 1896, p. 84. — Maculis nullis vel pallescentibus indeterminatis; soris linearibus,

brevibus, minutis 0.5-1 mm. longis, 0.2-0.3 mm. latis, epidermide saepe operculata disrupta diu tectis, pallide ferrugineis; uredosporis globosis, 20-22 μ . diam., episporio levissimo hyalino tenuissimo donatis, endoplasmate oleoso-granuloso flavo farctis.

Hab. in foliis Poæ lanigeræ. Sierra de la Ventana, Argentina.

94. **Uredo pallida** Diet. et Holw. Bot. Gaz. 1897, p. 37. — Maculis 1487
luteis, interdum nullis; soris plerumque epiphyllis oblongis v. sublinearibus. sparsis v. confluentibus, siccis flavo-albis, epidermide rupta cinctis; sporis ovatis usque piriformibus, 20-26 \times 13-18, membrana hyalina, breviter verrucosa.

Hab. in foliis vivis Tripsaci dactyloides pr. urbem Mexico (HOLWAY).

95. **Uredo abscondita** Fautr. Rev. Mycol. 1895, p. 171. — Soris 1488
luteis, elongatis, linearibus v. ellipticis; uredosporis globosis, luteis, episporio crasso, 25-30 μ . diam., 2-appendiculatis (?).

Hab. in foliis Festucæ heterophyllæ in Gallia.

96. **Uredo alabamensis** Diet. Bull. Cornell Univ. III, n. 1, 1897, 1489
p. 22. — Soris plerumque hypophyllis, in epiphylo solitariis, breve linearibus, epidermide rupta cinctis; sporis brunneis, apice intense coloratis, spinulosis, 4 poris germinationis instructis.

Hab. in foliis Sorghi vulgaris, Auburn. Alabama Amer. bor.

97. **Uredo Arundinariæ** Syd. in Uredineen n. 1239. — Maculis mi- 1490
nutis, irregularibus, flavis, demum pallide albido-griseis; soris hypophyllis, minutis, punctiformibus, carneis, fragmentis epidermidis laceratæ tectis, in senectute ad fuscum vergentibus, per totam superficiem sparsis; uredosporis plerumque perfecte globosis, 24-28 μ . diam., aculeatis, dilute flavis.

Hab. in foliis Arundinariæ Fortunei var. aureæ in horto botanico, Tokyo Japoniæ (MIYOSHI). — Sori saepe a *Darluc* *Filo* occupantur.

98. **Uredo Bambusarum** P. Henn. Hedw. 1896, p. 255. — Maculis 1491
fuscis vel atrobrunneis, amphigenis, rotundatis vel oblongis, punctiformibus, gregariis; soris amphigenis, pulvinatis, rotundatis vel elongatis, interdum substriiformibus, diutius epidermide fusca tectis; sporis subglobosis, ellipsoideis vel ovoideis, acutangulis, brunneis vel læte castaneis, 22-28 rarius 31 \times 20-26; episporio castaneo, 3-5 μ . crasso, dense aculeato asperato.

Hab. in foliis Bambusæ spec. St. Catharina Brasiliæ (ULE).

99. **Uredo leviuscula** Diet. et Holw. Erythraea 1894, p. 127. — Soris 1492

hypophyllis, sparsis, minutis, hemisphæricis, diu epidermide tectis. pseudoperidio arcte epidermidi adpressa inclusis; sporis valde irregularibus, plerumque piriformibus v. oblongis, sæpe angulosis, 30-40 \times 15-22, membrana hyalina, levi v. sublevi tectis.

Hab. in fronde *Poypodii californici*, Mount Tamalpais Californiæ (BLASDALE). — Sporæ e mutua pressione irregulares.

100. *Uredo Pteridis* Diet. et Holw. *Erythea* 1894, p. 127, Syll. XI, 1493 p. 228 (absque diagnosi!). — Soris hypophyllis, minutis, oblongis, secus venas primarias v. secundaria folii dispositis, in vivo flavis, dein pallescentibus; sporis ovoideis usque piriformibus, membrana hyalina echinulata, 30-45 \times 18-27.

Hab. in fronde *Pteridis aquilinæ*, Pasadena Californiæ (Mc CLATCHIE). — Ab *U. Polypodii* satis differt uredosporis echinulatis.

101. *Uredo Gymnogrammes* P. Henn. Hedw. 1895, p. 337. — Soris 1494 hypophyllis, gregariis, confluentibus, flavis, deinde pallescentibus, pulverulentis; sporis subglobosis v. ovoideis, flavescentibus v. hyalinis, verrucosis, 22-24 \times 20-22.

Hab. in foliis *Gymnogrammes spec. pr.* Blumenau Brasiliæ (MÖLLER).

102. *Uredo Blechni* Diet. et Neg. Engl. Jahrb. XXII, p. 358. — 1495 Soris hypophyllis, maculis indeterminatis primo flavescentibus, deinde arescentibus insidentibus, punctiformibus, hemisphæricis, diu epidermide tectis; sporis ovoideis, 27-33 \times 13-22, membrana achroa echinulata præditis.

Hab. in foliis *Blechni hastati pr.* Concepcion Chile (NEGER).

103. *Uredo Aneimix* P. Henn. Hedw. 1896, p. 255. — Soris hypo- 1496 phyllis gregariis sæpe nervos sequentibus, plerumque oblongis, fusco-ochraceis, epidermide velata tectis, dein confluentibus atrofuscis; sporis subglobosis, ellipsoideis vel ovoideis sæpe acutangulis, pallide flavis, punctatis, 18-30 \times 15-28; episporio 3 μ . crasso, dense aculeato.

Hab. in foliis vivis *Aneimix tomentosæ var. fulvæ* atque speciei indeterminatæ duobus locis in Brasilia (ULE).

CÆOMA Lenk — Syll. VII, p. 363, IX, p. 334, XI, p. 228.

1. ?*Cæoma Pavoniæ* Diet. Hedw. 1897, p. 36. — Soris hypophyllis, 1497 epidermide recta tamquam pseudoperidio inclusis, aurantiacis; sporis angulatis, globosis vel ellipticis 22-30 \times 20-25, membrana levi, dilute flava indutis.

Hab. in foliis Pavoniæ spec. Rio de Janeiro Brasiliæ (ULE).

2. **Cæoma radiatum** Shirai, Bot. Mag. Tokyo, 1895, p. 243, t. VI, 1498
 — Soris uniformiter sparsis, epiphyllis, rotundis, oblongis v. irregularibus, distinctis rarius confluentibus, margine dentato-radiatis, præcipue prima ætate; sporis rotundato-polygonalibus, isodiametricis v. oblongis, tenuiter verrucosis, aurantio-flavis, 20-66 μ . long.; spermogoniis elevato-conoideis, processibus filiformibus v. clavatis circa ostiolum præditis.

Hab. in foliis vivis Pruni Pseudo-Cerasi pr. Nikko Japoniæ. — Spermogonia confertiuscula in stipulis foliorum.

3. **Cæoma Negerianum** Diet. Engl. Jahrb. XXII, p. 357. — Cauli- 1499
 colum, tumores modicos efficiens; soris sub cortice plicato prorumpentibus, irregularibus, interdum confluentibus; sporis catenulatis ellipticis, 35-50 \times 23-36, membrana hyalina verrucosa præditis.

Hab. in caulibus Baccharidis elæoidis pr. Corral in Chile (NEGER) et B. dracunculifoliæ pr. Orleans Brasiliæ (ULE).

4. **Cæoma punctato-striatum** Diet. et Neg. Engl. Jahrb. XXII, 1500
 p. 357. — Spermogoniis abundantibus; soris oblongis v. striæformibus, confluentibus, in caulibus nervisque foliorum, aut epidermide fissa semitectis aut liberis, pulveraceis, aureis; sporis catenulatis, ellipticis, interdum utrinque acuminatis et fere fusiformibus, 35-52 \times 22-30, longitrorsum punctato-striatis, dilute flavescentibus.

Hab. in caulibus foliisque Baccharidis glutinosæ pr. Concepcion aliisque locis in Chile (NEGER).

5. **Cæoma Baccharidis** (Lév.) Diet et Neg. Engl. Jahrbüch. 1896, 1501
 p. 355; *Uredo Baccharidis* Lév. Ann. d. Sc. Nat. III, 1846, p. 269; Syll. VII, p. 842 sub *U. Baccharidis* Speg. — Tumores lignosos globosos, fusiformes irregularesve variæ magnitudinis in ramis procreans; soris sub cortice plicato erumpentibus, irregularibus, sporis catenulatis, series longas formantibus, fusiformibus. 47-70 \times 16-25, verrucis altis, dense obtectis.

Hab. in ramis Baccharidis rosmarinifoliæ, frequens in Chile. — Species adhuc cum *Uredine Baccharidis* Speg. confusa, a qua soris ramicolis et sporis catenulatis statim dignoscenda.

6. **Cæoma Cinerariæ** Rostr. Bot. Tidsskr. 1897, p. 41, 51. — Sporis 1502
 ellipsoideo-polyhedricis, 23-26 \times 18-20, rugulosis.

Hab. in foliis caulibusque Cinerariæ palustris in Jutlandia Daniæ. — Fructus basidialis nucusque ignotus.

7. **Cæoma aberrans** Peck, Bull. Torr. Bot. Club. 1895, p. 210. — 1503

Pustulis suborbicularibus, leviter elevatis, $1-2\frac{1}{4}$ mm. latis, primo membrana albida tectis, demum nudis; sporis in cumulo aurantiacis, subglobosis v. ellipticis, levibus v. sublevibus, $18-23\frac{1}{2}$ longis.

Hab. in cortice vivo Alni, Newfoundland, Amer. bor. (WAGHORNE).

8. **Cæoma conigenum** Pat. Journ. de Bot. 1896, p. 386, tab. IV. — 1504
Sporis ellipsoideis v. cylindræis, raro subglobosis, verrucis elongatis confertisque tectis, deorsum levibus et attenuatis, obtusis, $25-40 \times 12-20$, pallide luteis.

Hab. in conis Pini spec. in Mexico.

USTILAGINACEÆ Tul.

Syll. VII, p. 451, IX, p. 282, XI, p. 230.

USTILAGO Pers. — Syll. VII, p. 451, IX, p. 282, XI, p. 230.

1. **Ustilago seminum** Juel. Oefversigt af Kongl. Vet.-Akad. Förhandl. 1505
1894, n. 9, p. 491. — Massa sporarum umbrina; sporis globosis,
13 μ . diam. v. oblongis, fere 19 \times 9, pallidis, crassiusculę papillatis.

Hab. in seminibus Arabidis petręę in Scandinavia.

2. **Ustilago? Adoxę** Bref. Unters. XII, pag. 119, tab. VII, fig. 12. 1506
— Soris in rhizomate tumido evolutis; sporis magnis, irregulariter
globosis, 18-22 μ . diam., nigris; promycelio unicellulari.

Hab. in rhizomatibus Adoxę Moschatellinę pr. Münster
Germanię.

3. **Ustilago Arenarię** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 362. 1507
— Massa sporarum purpureo-nigra; sporis oblongo-ellipticis, opacis,
14-17 \times 8-10, basi minute hyalino-appendiculatis.

Hab. in inflorescentiis Arenarię congestę, Colorado, Amer.
bor. (CRANDALL).

4. **Ustilago Vriesiana** Vuill. Compt. rend. 1894, p. 933; Zeitschr. für 1508
Pflanzenkr. 1895, p. 113. — In parte inferiore trunci cecidia
lobulata, foraminibus cęcis canaliculata, formans; acervulis spora-
rum irregularibus, inter cellulas corticis, liberis, crebris, e latere
vel apice hypharum oriundis; sporis solitariis v. sæpius ad 20
strato gelatinoso conglomeratis, demum liberis, ovoideis, membrana
fusca levi præditis, 7-9 \times 5 $\frac{1}{2}$ -7 μ .

Hab. in truncis deformatis Myrtacearum, ubi tumores gignit.
Spore in Eucalypto amygdalina ad Amsterdam Hollandię
observatę; hyphę steriles in pluribus Myrtaceis in horto Nan-
ceiano Gallię cultis.

5. **Ustilago Lagenophorę** Mc. Alp. Agr. Gaz. Sydney, 1895, n. 11 1509
Novbr. p. 7, fig. 19. — Soris in ovariis evolutis, pulverulentis,
brunneis; sporis globosis v. ovalibus v. irregularibus, flavo-brun-
neis, verrucosis, 20 μ . diam. vel 19-22 \times 16-20.

Hab. in ovariis Lagenophorę emphysopi, Australia.

6. **Ustilago Welwitschiæ** Bres. in Sacc. Fl. mycol. Lus. p. 68. — 1510
 Soris parvis, globosis, fuliginis, pulverulentis, e squamis erumpentibus; sporis fuscidulis, globosis, asperulis. $3\frac{1}{2}$ -4 μ . diam.
Hab. in squamis conorum Welwitschiæ mirabilis e Mossamedes Africae allatae in hort. bot. Coimbræ (MÖLLER).
7. **Ustilago Moelleri** Bref. Unters. XII, p. 132, tab. VIII, fig. 4. — 1511
 Soris fructus tumidos incolentibus; sporis atro-brunneis, asperulis, imperspicue areolatis, 10-12 μ . diam.; promycelio longo 3-septato, sporidiola gerente.
Hab. in fructibus Polygoni hispidi pr. Blumenau Brasiliæ (MÖLLER).
8. **Ustilago Lagerheimii** Bref. Unters. XII, p. 136, tab. VIII, 28-30. — 1512
 Soris in interiore caulium ac petiolorum evolutis, pulverulentis, magnis, axes tumefacientibus, nigro-violaceis; sporis 9-11 μ . diam., nigro-violaceis; promycelio 3-septato.
Hab. in caulibus et petiolis Rumicis spec. pr. Quito Æquatoriae (LAGERHEIM).
9. **Ustilago domestica** Bref. Unters. XII, p. 135, tab. VIII, fig. 26- 1513
 27. — Soris in caulibus et inflorescentiis evolutis, ubi tumores efficiunt; sporis globosis, 11-14 μ . diam., obscure violaceis, episporio distincte areolato præditis; promycelio 3-septato; sporidiolis oblongo-ovoideis, semper ad septa evolutis.
Hab. in interiore caulium, petiolorum ac inflorescentiarum Rumicis domesticæ in Norvegia.
10. **Ustilago Koordersiana** Bref. Unters. XII, p. 132, tab. VIII, 1514
 fig. 5-6. — Soris fructus incolentibus; sporis asperulis, non areolatis, brunneis, 8-11 μ . diam.; promycelio brevi, crasso, 4-cellulari; sporidiolis oblongis.
Hab. in fructibus Polygoni barbati in Java (KOORDERS).
11. **Ustilago Allii** Mc Alp. Roy. Soc. Victoria 1894, p. 220. — Soris 1515
 pustulas minutas obscure coloratas formantibus, venulis limitatis, primo epidermide tectis, dein pulverulentis, nigris; sporis obscure brunneis, sphaericis, echinulatis, muco gelatinoso obvolutis, $4\frac{1}{2}$ μ . diam.
Hab. in bulbis Allii spec., Victoria Australiæ.
12. **Ustilago cepanum** Glow. Mittheil. Naturw. Ver. Steiermark, 1516
 vol. XXVIII, (1891) 1895, p. 5. — Soris bulbos incolentibus eosque omnino destruentibus; sporis globosis, rarius ovoideis v. oblongis, dilute brunneis, pellucidis, polygonalibus, 6-9 μ . diam., sub aqua visis levibus, sub alcohole verrucis minutissimis dense obsitis.

- Hab.* in bulbis Allii Cepæ ad Polensak pr. Pettau Styriæ, —
U. Ornithogali affinis, sed præcipue sporis minoribus diversa.
13. **Ustilago hyperborea** Blytt. Christiania Vid. Selsk. Forh. 1896, 1517
 n. 6, p. 28. — Sporis globosis, 16.2 μ . diam., verrucosis; perianthio matricis non hypertrophiato.
Hab. in fructibus Luzulæ hyperboreæ, Dovre Norvegia. — Sporæ minores, magis verrucosæ quam in *U. Luzulæ*.
14. **Ustilago subolivacea** P. Henn. Ann. del R. Istit. Bot. di Roma 1518
 VI, Fasc. 2, p. 84. — Soris atro-olivaceis, pulverulentis dein floccosis, globosis, magnitudine seminis Pisi, ovaria destruentibus; sporis subglobosis vel subellipsoideis, primo pallidis dein olivaceo-brunneis, 5-8 \times 5-7; episporio sublevi, v. minute verrucoso, crasso
Hab. in ovariiis Caricis ramosæ pr. Bidduma in Somalia. — *U. olivaceæ* (DC.) Tul. affinis, sed sporis atrioribus, globosis, minoribus distincta.
15. **Ustilago subnitens** Schroet. et P. Henn. Hedw. 1896, p. 215. — 1519
 Soris pallide cinnamomeis intra ovaria ortis deinde pulverulentis; sporis sæpe subconglobatis, subglobosis vel ellipsoideis, 12-18 \times 10-15; episporio flavo-brunneo subnitente, levi, ca. 2 μ . crasso.
Hab. in ovariiis Scleriæ pratensis pr. Rio de Janeiro Brasiliæ (ULE).
16. **Ustilago Coicis** Bref. Unters. XII, p. 110, tab. VI, fig. 39-41. 1520
 — Soris in ovariiis evolutis eaque valde deformantibus, sed parum tumeficientibus, pulverulentis, nigris; sporis brunneis, asperulis, ovalibus, 7-9 μ . diam.; promycelio 3-septato, septo infimo mox secedente; conidiis oblongo-fusiformibus.
Hab. in ovariiis Coicis laerymæ, Simla Indiæ orient. (BARCLAY).
17. **Ustilago Schroeteriana** P. Henn. Hedw. 1896, p. 215. — Soris 1521
 in spicis, eas destruentibus, atris, pulverulentis; sporis subglobosis vel late ellipsoideis, olivaceo-brunneis, intus punctulatis, 13-15 \times 11-14; episporio atro-olivaceo, punctulato vel sublevi, ca. 1 μ . crasso.
Hab. in foliis Paspali spec. in prov. St. Catharina Brasiliæ (ULE).
18. **Ustilago Paspali-dilatati** P. Henn. in Brefeld Unters. XII, p. 122, 1522
 tab. VII, fig. 23-24. — Soris in inflorescentiis evolutis easque perfecte deformantibus destruentibusque, brunneo-nigris; sporis magnis, 12-15 μ . diam., levibus; promycelio 3-septato; sporidiolis pleurogenis, magnis.

Hab. in inflorescentiis Paspali dilatati pr. Blumenau Brasiliæ (MOELLER).

19. **Ustilago microspora** Schroet. et P. Henn. Hedw. 1896, p. 215. 1523

— Soris in paniculis floribusque, innatis destruentibusque, vesiculosus, cuticula griseo-atra tectis, dein pulverulentis, olivaceis; sporis subglobosis vel ellipsoideis, levibus, pallide olivaceis vel fusciscentibus, $4-6 \approx 3\frac{1}{2}-5$, episporio levi.

Hab. in paniculis floribusque Paspali spec. in prov. St. Catharina Brasiliæ (ULE).

20. **Ustilago verrucosa** Schroet. Hedw. 1896, p. 214. — Soris in 1524

ovariis, vesiculoso-globosis, atris; sporis ellipsoideis vel subglobosis angulatis subolivaceis, $8-12 \approx 7-9$; episporio incrassato pallide brunneo, dense verrucoso.

Hab. in ovariis Paspali distichi in prov. St. Catharina Brasiliæ (ULE).

21. **Ustilago Vestergreni** Sacc. et Syd. *Ustilago verrucosa* Vestergr. 1525

Jahreskatalog d. Wiener Krypt. Tauschanstalt 1897, p. 3, nec Schroet. — Soris atrobrunneis, inflorescentias nondum evolutas et folia superiora occupantibus, in strias elongatas secus foliorum nervos excurrentibus; sporis globosis, circ. 16μ . in diam., fuscis, episporio crasso, grosse denseque verrucoso instructis.

Hab. in foliis et inflorescentiis vivis Baldingeræ arundinaceæ in Gotlandia Sueciæ. — An *Tilletia*?, sed a Tilletiis graminicolis descriptis bene diversa.

22. **Ustilago crypta** Mc Alp. Proc. of the Linn. Soc. of N. S. Wales. 1526

1897, p. 42 tab. II, fig. 19. — Soris atris, flores paniculasque inquinantibus ovariaque destruentibus, non pulverulentis nec nudis; sporis globosis v. subellipticis, luteis v. flavo-brunneis, episporio levi crasso instructis, $8-10 \mu$. diam. vel $8\frac{1}{2} \approx 5\frac{1}{2}$ metientibus.

Hab. in floribus Panici bicoloris, N. S. Wales Australiae (MAIDEN).

23. **Ustilago heterospora** P. Henn. Pilz. Ostaf. p. 48. — Soris in 1527

flatis, bullatis, ovaria deformantibus, olivaceo-cinereis, diutius tectis, dein pulverulentis; sporis magnitudine variis globosis vel subglobosis, verrucoso-aculeatis, subflavo-olivaceis, dein fusciscentibus, $10-15$ et $15-26$; episporio plus minus incrassato, dense aculeato-granulato.

Hab. in floribus Panici maximi in Africa trop. (HOLST), Natal (WOOD) et Sansibar (HILDEBRANDT).

24. **Ustilago pustulata** Tracy et Earle, Bull. Torr. Bot. Club. 1895, 1528

p. 175. — Soris in ovariis evolutis v. in caulibus bullato-inflatis, in foliis vaginisque distorsiones irregulares efformantibus, obscure brunneis. membrana straminea diu tectis, $2\frac{1}{2}$ - $7\frac{1}{2}$ cm. diam.; sporis obscure brunneis v. fuscis, subglobosis v. ovalibus, tenuissime tunicatis, leviter echinulatis, $9 \approx 7$ -8.

Hab. in ovariis, paniculis, foliis vaginisque Panicis proliferi, Mississippi, Amer. bor.

25. **Ustilago Panicis-leucophæi** Bref. Unters. XII, p. 114, tab. VI, 1529
fig. 42. — Soris spicam totam replentibus eamque in massam pulveraceam transformantibus ac omnino destruentibus, nigris; sporis globosis, minutis, 5-7 μ . diam.; promycelio longo. 3-septato, septo infimo mox secedente; sporidiolis minutissimis, anguste fusiformibus.

Hab. in spicis Panicis leucophæi pr. Rio de Janeiro Brasiliæ (ULE).

26. **Ustilago Panicis-latifolii** P. Henn. Hedw. 1896, p. 216. — Soris 1530
in staminibus germinibusque, atris, pulverulentis; sporis pallide olivaceis, dein fuscis, subglobosis v. ellipsoideis, 6-8 μ .; episporio subfusco, minute verrucoso v. sublevi.

Hab. in floribus Panicis latifolii in prov. St. Catharina Brasiliæ (ULE).

27. **Ustilago Panicis-frumentacei** Bref. Unters. XII, p. 103, tab. VI, 1531
fig. 5-10. — Soris in ovariis evolutis eaque valde tumefacientibus, atris, pulverulentis: sporis globosis, nigro-brunneis, asperulis, 7-9 μ . diam.; sporidiolis oblongo-ovoideis, copiosis; promycelio 1-septato.

Hab. in ovariis Panicis frumentacei, Himalaya Indiæ orient. (BARCLAY).

28. **Ustilago vesiculosa** P. Henn. Hedw. 1896, p. 51. — Soris pa- 1532
niculas implentibus et tumefacientibus, saccatis, bullato-inflatis, subglobosis. 3-5 μ . diam., cuticula alutacea tectis, vertice subulato-elongatis; sporis subglobosis, ovoideis v. ellipsoideis, intus punctatis, ochraceis, 8-11 \approx 7-9; episporio atro-brunneo, granulato v. minute verrucoso-punctato.

Hab. in paniculis Panicis spec. duobus locis in Brasilia (ULE).

— *U. Panicis-miliacei* (Pers.) affinis.

29. **Ustilago ugandensis** P. Henn. Pilz. Ostaf. p. 48. — Soris atro- 1533
olivaceis, epidermide tectis, dein cinctis, pulverulentis, ad apicem culmorum in rhachidibus floribusque, rhachidem curvam contortamque efformantibus; sporis subglobosis, sæpe acutangulis, fusco-olivaceis, sublevibus, punctulatis, 6-8 \approx 5-7.

Hab. in spicis Panicis in Africa trop.

30. **Ustilago pertusa** Tracy. et Earle, Bull. Torr. Bot. Club. 1895, 1534
p. 175. — Soris in ovariis evolutis, duris, compactis, atris, demum
pulvinatis; sporis minutis, globosis, 5-7 μ . diam.; episporio tubulis
pororum prominentibus irregularibus verrucosis ornato.

Hab. in ovariis Setariæ macrochætæ, Queensland (BAILEY).

31. **Ustilago Cenchri** Lagh. Bull. Boiss. 1895, p. 62. — Soris ater- 1535
rimis, pulverulentis, spicam inclusam destruentibus; sporis angulato-
ovalibus vel angulato-rotundatis, 8-12 μ . diam.; episporio atro-
brunneo, levi, pellucido.

Hab. in spicis Cenchri in Æquatoria.

32. **Ustilago funalis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 458; 1536
Ustilago Sporoboli Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 282
nec Tracy et Earle. — Soris culmos infestantibus, tenuibus, oli-
vaceis, continuis; sporis globosis, dilute brunneis, 5 μ . diam.

Hab. in culmis Oryzopsidis cuspidatæ et Sporoboli
cryptandri, Colorado Amer. bor.

33. **Ustilago Stenotaphri** Mc Alp. Agr. Gaz. Sydney. 1895, n. 11, 1537
Novbr. p. 7, fig. 20. — Soris foliicolis v. caulicolis; massa spo-
rarum nigra, compacta, continua; sporis brunneis, globosis, ova-
libus v. irregulariter sphericis, levibus, 16 μ . diam. vel 16-19 \approx
11-14.

Hab. in foliis et caulibus Stenotaphri dimidiati, Victoria
Australiæ.

34. **Ustilago Arundinellæ** Bref. Unters. XII, p. 108, t. VI, f. 19-23. 1538
— Soris caryopsides ex toto replentibus, nigro-brunneis, pulve-
rulentis; sporis globosis, levibus, brunneis, 8-9 μ . diam., promycelio
4-cellulari; sporidiolis oblongo-ovoideis.

Hab. in caryopsidibus Arundinellæ spec., Calcutta Indiæ
orient. (CUNNINGHAM).

35. **Ustilago Aristidæ-cyananthæ** Bref. Unters. XII, p. 102, t. VI, 1539
fig. 1-4. — Soris fructus ex toto replentibus, compactis; sporis
subglobosis non verrucosis, 7-8 μ . diam., brunneis; sporidiolis
oblongo-ovoideis, ad septa nec non ad apicem evolutis.

Hab. in fructibus Aristidæ cyananthæ in India orient.
(CUNNINGHAM).

36. **Ustilago Bornmülleri** P. Magn. Verhandl. z. b. Ges. Wien 1896, 1540
p. 427, tab. VII. fig. 1-5. — Soris culmicolis, pulverulentis, epi-
dermide pseudoparenchymatosa hyalina tectis; sporis globosis, 7 $\frac{1}{2}$
 μ . diam., nigris, levibus.

- Hab.* in culmis *Aristidae caloptilae* in ins. Bahrein in Sinu Persico (BORNMEUILLER). — *U. Ischemi* affinis.
37. **Ustilago Schlechteri** P. Henn. Hedw. 1895, pag. 325. — Soris 1541
 intra paniculas, eas omnino deformantibus destruentibusque, primo tectis, dein liberis, atris, oblongis; sporis globosis v. ellipsoideis, atro-olivaceis, minute aculeato-verrucosis, 11-14 \times 10-12; episporio atro, aculeato, ca. $\frac{1}{2}$ μ . crasso.
Hab. in culmis et paniculis *Sporoboli* spec. in Transvaalia (SCHLECHTER).
38. **Ustilago Sporoboli** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 1542
 p. 211. — Ovaria occupans eaque in massam duram, virescentem, compactam, 2-3 mm. diam. permutans; sporis obscure brunneis, ovalibus v. subglobosis, episporio tuberculis late conicis dense tecto praeditis 12-15 μ .
Hab. in ovariis *Sporoboli juncei* in Mississippi Amer. bor.
39. **Ustilago Dactyloctenii** P. Henn. Pilz. Ostaf. p. 48. — Soris in 1543
 spiculis, eas ex toto destruentibus, atro-violaceis, primo epidermide tectis, dein pulverulentis, corniformibus; sporis globosis v. subglobosis, levibus, late brunneis, 10-14 μ .; episporio levi, 1,5-2 μ . crasso.
Hab. in inflorescentia *Dactyloctenii aegyptiaci*, Sansibar, Africa.
40. **Ustilago sparsa** Underw. Bull. Torr. Bot. Cl. 1897, p. 86. — 1544
 Soris olivaceis, ovaria incolentibus tumefacientibusque, cuticula velatis, 1-3 mm. diam.; sporis ovalibus, distincte echinulatis, circiter 7-9 μ . longis.
Hab. in ovariis *Dactyloctenii aegyptiaci*, Alabama Amer. bor. (EARLE).
41. **Ustilago Cynodontis** P. Henn. Fungi afr. 1, p. 369 (ut var.), 1545
 Brefeld Unters. XII, p. 105. tab. VI, fig. 11-16. — Soris inflorescentias incolentibus easque omnino destruentibus, nigris; sporis solitariis non obscuris, globosis, sublevibus, 7-9 μ . diam.; promycelio 2-septato, ad septa et ad apicem sporidiola oblongo-ovoidea gerente.
Hab. in inflorescentiis *Cynodontis Dactyli* in Abyssinia et India orient.
42. **Ustilago quitensis** Lagh. Bull. Boiss. 1895, p. 62. — Soris atro- 1546
 olivaceis, pulverulentis, paniculam evolutam destruentibus; sporis ovalibus vel rotundatis, 6-10 μ . diam., episporio atro-violaceo, distincte subtiliter echinulato, pellucido.

Hab. in paniculis *Gynerii argentei* in Æquatoria.

43. *Ustilago Cathestechi* P. Henn. Hedw. 1897, p. 212. — Soris 1547
atris, ovaria incolentibus, inclusis; sporis globosis, atro-olivaceis,
16-21 μ ., episporio crasso, verrucis obtusis ornato.

Hab. in foliis vivis *Cathestechi procumbentis* in Mexico.

44. *Ustilago Ulei* P. Henn. Hedw. 1895, p. 88. — Soris foliicolis, 1548
amphigenis, striiformibus, confluentibus, primo epidermide cinerea
tectis, dein liberis, atro-brunneis v. atro-olivaceis; sporis subglobo-
sis, interdum ellipsoideis, angulatis, rufo-brunneis, intus granulosis,
8-10 \times 7-9; episporio subcastaneo, levi, ca $\frac{1}{2}$ μ . crasso.

Hab. in foliis vivis *Chloridis spec. Goyaz Brasiliæ (ULE)*.

45. *Ustilago ornata* Tracy et Earle, Bull. Torr. Bot. Club. 1895, 1549
p. 175. — Soris in ovariiis evolutis, atris, pulverulentis, 20-30 mm.
diam.; sporis subglobosis, echinulis crassis, prominentibus densis-
sime ornatis, circiter 12 \times 15.

Hab. in ovariiis *Leptochloæ mucronatæ*, Mississippi, Amer.
bor.

46. *Ustilago Boutelouæ-humilis* Bref. Unters. XII, p. 116, tab. VII, 1550
fig. 13. — Soris inflorescentias incolentibus easque in massam
pulveraceam nigram transformantibus; sporis magnis, 20-25 μ .
diam., episporio levi subnigro præditis; promycelio 2-septato, spo-
ridiola non gerente, sed in filamentum exerescente.

Hab. in inflorescentiis *Boutelouæ humilis* pr. Quito Æqua-
torix (LAGERHEIM).

47. *Ustilago filifera* Nort. Trans. Acad. of Sc. of St. Louis. VII, 1551
1896, n. 10, p. 237, tab. XXVIII. — Soris foliis v. culmis insi-
dentibus, globosis, $\frac{1}{2}$ -2 mm. latis, 1-12 mm. longis; sporis sub-
globosis, angulosis, obscure flavo-brunneis, opacis, in cumulo nigris,
minute echinulatis, granulosis, 13-15 μ . diam.

Hab. in foliis culmisque *Boutelouæ racemosæ* et *B. oli-
gostachyæ*, Kansas Amer. bor.

48. *Ustilago Hieronymi* Schrot. Hedw. 1896, p. 213. — Soris culmi- 1552
vel foliicolis, pulvinatis, vesiculosis, oblongis, cuticula grisea vel
atro-plumbea tectis, 2-4 mm. longis, usque ad 1 $\frac{1}{2}$ mm. crassis;
sporibus atris, subglobosis vel breve ellipsoideis, 11-15 \times 8-13; epi-
sporio crasso, atro-castaneo, subpunctato.

Hab. in culmis et foliis *Boutelouæ ciliatæ*, Prov. de Salto
Argentinx (HIERONYMUS, LORENTZ).

49. *Ustilago minor* Nort. Trans. Acad. of Sc. of St. Louis. VII, 1896, 1553
n. 10, p. 238, tab. XXVIII. — Soris foliicolis, globosis, $\frac{1}{2}$ -2 mm.

latis, 1-10 μ m. longis; sporis globosis, 8-9 μ . diam., minute echinulatis, granulosis, obscure flavo-brunneis.

Hab. in foliis *Boutelouæ hirsutæ*, Kansas Amer. bor. —

U. filifera valde affinis, sed sporis minoribus diversa.

50. **Ustilago Pearum** Mc Alp. Roy. Soc. Victoria 1894, p. 220. — 1554

Soris foliicolis, pulverulentis, nigris; sporis globosis v. irregulariter sphaericis, flavo-prunneis, echinulatis, 12 $\frac{1}{2}$ μ . diam. vel 14 \times 12 $\frac{1}{2}$.

— *Hab.* in foliis *Poæ annuæ*, Victoria Australiæ.

51. **Ustilago Mulfordiana** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1555

p. 362. — Soris in ovariis evolutis eaque destruentibus, subnigris; sporis udis globosis v. subglobosis, 10-14 μ . diam., episporio minute asperulo, siccis interdum oblongis v. breve cylindræis et 10-14 \times 6-8 metientibus.

Hab. in ovariis *Festucæ* spec., Idaho, Amer. bor. (MULFORD).

52. **Ustilago strangulans** Issatschenko, Parasit. Pilze Gouv. Cherson. 1556

1896, p. 225. — Partes floriferas destruens; soris atro-fuscis, primo cuticula albida tectis, dein erumpentibus; sporis globosis, ellipsoideis, rarius angulatis, 10-12 \times 8-10, episporio brunneo-olivaceo, aculeolato.

Hab. in inflorescentia *Eragrostidis poæoidis*, Cherson Rossia.

53. **Ustilago Arthraxonis** Pat. Journ. de Bot. 1897, p. 346. — Soris 1557

pulverulentis nigris, glumis tectis, sacculo tenui nigrescente e cellulis hyalinis ovoideis v. globulosis levibus facile secedentibus circiter 8-12 μ . diam. formato inclusis; sporis olivaceo-brunneis, 11-13 μ . diam., ovoideis v. rotundatis, subtiliter asperulis.

Hab. in specie *Arthraxonis* spec. in Tonkin.

54. **Ustilago insularis** P. Henn. Hedw. 1896, p. 51. — Soris pani- 1558

culas totas implentibus destruentibusque, pro parte cuticula membranacea tectis, atris; sporis subglobosis, pallide olivaceis, 6-8 μ .; episporio levi, olivaceo, crasso.

Hab. in inflorescentiis *Tricholænæ insularis*, Campo Bello Brasiliæ (ULE). — *U. Ischæmi* Fekl. atque *U. Panici-leucophæi* Bref. videtur proxima.

55. **Ustilago Sacchari-ciliaris** Bref. Unters. XII, p. 109, tab. VI, 1559

fig. 26. — Soris in ovariis evolutis eaque in massam pulveraceam transformantibus; sporis magnis, globosis, 9-11 μ . diam., obscure luteis; promycelio 3-septato, longo, tenui; sporidiolis fusiformibus.

Hab. in ovariis *Sacchari ciliaris*, Calcutta Indiæ orient. (CUNNINGHAM).

56. **Ustilago Andropogonis-annulati** Bref. Unters. XII, p. 109, tab. VI, 1560
fig. 27-31. — Soris in ovariis evolutis, pulverulentis; sporis globosis, atro-brunneis, 8-9 μ . diam.; promycelio 1-septato, apice sporidiola non gerente, sed in filamentum exescente.

Hab. in ovariis *Andropogonis annulati*, Calcutta Indiæ orient. (CUNNINGHAM).

57. **Ustilago Andropogonis-tuberculati** Bref. Unters. XII, p. 108, 1561
tab. VI, fig. 24-25. — Soris in ovariis evolutis, compactis, duris, nigris; sporis inæqualibus, subglobosis, 10-13 μ . diam., atro-brunneis; promycelio filiformi, 3-septato, cellulis maximis; sporidiolis oblongis

Hab. in ovariis *Andropogonis tuberculati*, Simla Indiæ orient. (BARCLAY).

58. **Ustilago bicornis** P. Henn. Hedw. 1896, p. 50. — Soris paniculas incolentibus tumefacientibusque, cuticula alutacea tectis, dein ruptis, atrobrunneis, pulverulentis; sporis subglobosis, ovoideis v. oblongis, acutangulis, intus punctulatis, olivaceis, 8-13 \times 7-9, episporio minute punctato. 1562

Hab. in inflorescentiis *Andropogonis bicornis*, Campo Bello Brasiliæ (ULE). — *U. tumefacienti* P. Henn. externa facie affinis.

59. **Ustilago culmiperda** Schroet. Hedw. 1896, p. 212. — Soris culmicolis, diutius inclusis, atris; sporis globosis vel late ellipsoideis, 15-20 vel 22 \times 13-17, episporio atro, crasso levi. 1563

Hab. in culmis *Andropogonis bicornis* Prov. St. Catharina Brasiliæ (ULE).

60. **Ustilago occulta** P. Henn. Hedw. 1897, p. 212. — Soris cauliculis inclusis, eas vix deformantibus, atris; sporis subglobosis, ovoideis vel ellipsoideis, atro-brunneis vel atris, 6-8 \times 6-7; episporio atro, minute verrucoso. 1564

Hab. in culmis *Andropogonis spec. pr.* St. Catharina Brasiliæ (ULE).

61. **Ustilago leucostachys** P. Henn. Hedw. 1896, p. 50. — Soris in paniculis inclusis, eas omnino destruentibus, primo cuticula alutacea tectis, dein pulverulentis atris; sporis subglobosis v. ellipsoideis, fusco-olivaceis, punctulatis, 13-15 \times 8-13, episporio atro olivaceo, minute verrucoso v. sublevi. 1565

Hab. in inflorescentiis *Andropogonis leucostachyi*, Italia Brasiliæ (ULE).

62. **Ustilago tumefaciens** P. Henn. Pilz. Ostaf. p. 48. — Inflore- 1566

scentiam corniformiter tumefaciens et deformans; soris flavo-fusciscentibus, dein erumpentibus, pulverulentis; sporis subglobosis, polygonis, flavis v. brunneo-castaneis, 8-12 \approx 7-10; episporio granulato-verrucoso.

Hab. in inflorescentia *Andropogonis rufi* in Africa trop. (VOLKENS).

63. *Ustilago monilifera* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1567 p. 362. — Soris fuscis; sporis concatenatis, catenulis parallelis, subglobosis, subcubicis v. subangulosis, ex hyalino brunneis, 8-12 μ . longis, minutissime echinulatis.

Hab. in ovariis *Heteropogonis contorti*, Arizona, Amer. bor. (TOUMBY).

64. *Ustilago tonglinensis* Tracy et Earle, Bull. Torr. Bot. Club. 1895, 1568 p. 175. — Soris in ovariis evolutis, nigris; sporis globosis, obscure brunneis, fortiter et crasse echinulatis, 9-11 μ . diam.

Hab. in ovariis *Ischæmi ciliaris*, Tonglin Singapore (RIDLEY).

65. *Ustilago Washingtoniana* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1569 p. 57. — Soris linearibus, 1-20 mm. longis, primo epidermide plumbea tectis, dein pulverulentis, subnigris; sporis globosis, 8-10 μ . diam., olivaceo-brunneis, minute echinulatis, nucleis minutis numerosis repletis.

Hab. in foliis *graminis* cujusdam, Washington, Amer. bor. *U. longissimæ* valde affinis.

66. *Ustilago Ficuum* Reich.-Sacc. Syll. VII, p. 457. — est *Sterigmatocystis Ficuum* (Reich.) P. Henn. Hedw. 1895, p. 84.

ANTHRACOIDEA Bref. Unters. XII. p. 144. — *Ustilagini* affinis, sed germinatio aliena.

1. *Anthracoidea Caricis* (Pers.) Bref. l. c. *Ustilago Caricis* Pers.
2. *Anthracoidea subinclusa* (Koern.) Bref. l. c. p. 146. *Ustilago subinclusa* Koern.

CINTRACTIA Cornu. — Syll. VII, p. 480, IX, p. 285, XI, p. 233.

1. *Cintractia leucoderma* (Berk.) P. Henn. Hedw. 1895, p. 335. (syn. 1570 *C. Krugiana* P. Magn.) — Var. *usambarensis* P. Henn. Pilz. Ostaf. p. 48. — Soris cylindraceis, nigris, 1 $\frac{1}{2}$ -2 cm. longis, 14-16 mm. latis; sporis majoribus, dense verrucosis, obscurioribus, 15-17 \approx 14-16.

Hab. in *Rhynchospora aurea* in Africa trop. (STUHLMANN).

2. *Cintractia axicola* (Berk.) Cornu-Sacc. Syll. VII, pag. 480. — 1571
 Forma spicularum Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII, Afd. III, n. 10, 1897, p. 7. *C. leucoderma* (Berk.) P. Henn. f. *utriculicola* P. Henn. Hedw. 1896, p. 57. — Soris singulis peridio ovoideo v. globoso, 2-2½ mm. longo, 1½-2 mm. lato, albescente sublevi, apice irregulariter fisso instructis; strato prolifero basali, placentiformi axim spiculæ occupante.

Hab. in spicis *Rhynchosporæ aureæ* etc., Brasilia.

3. *Cintractia caricicola* P. Henn. Hedw. 1895, p. 325. — Soris atris, 1572
 subglobosis, duris, in axillis bractearum, ca. 1-1½ mm. diam.; sporis globosis v. subglobosis, primo hyalinis, dein fusco-brunneis, tandem atris, punctulatis, 9-11 v. 12-14 μ . diam.; episporio vix ½ μ . crasso; filamentis subhyalinis instructis.

Hab. in bracteis *Caricis spatheæ* in Transvaalia (SCHLECHTER) — A *Cintractia Caricis* (Pers.) Magn. videtur diversa.

4. *Cintractia Crus-galli* (Tracy et Earle) P. Magn. Ber. D. Bot. Ges. 1573
 1896, p. 391; *Ustilago Crus-galli* Tracy et Earle Bull. Torr. Bot. Club. 1895, p. 175. — Soris paniculas et nodos superiores inco-
 lentibus eosque omnino destruentibus, pustulas interdum 1 cm. diam. efformantibus; massa sporarum pulveracea, nigra, primitus membrana grisea tecta; sporis ovalibus v. subglobosis, fuscis, valide echinulatis, 9-10 v. 11-13.

Hab. in paniculis et nodis *Panici Cruris-galli*, Utah et Washington Amer. bor.

TILLETIA Tul. — Syll. VII, p. 481, IX, p. 286, XI, p. 233.

1. *Tilletia Airæ* Blytt, Christiania Vid. Selsk. Forh. 1896, n. 6, p. 31. 1574
 — Sporis globosis aut subovalibus, 25-27 μ . diam., episporio hyalino circiter 2½ μ . crasso, areolis pentagonis subregularibus, circiter 4 μ . latis instructo.

Hab. in fructibus *Airæ cæspitosæ* in ins. Reno pr. Tromsø (B. ESMARK). — A *T. decipiente* differt sporis majoribus et obscurioribus. *T. cerebrina* Ell. et Ev. differt areolis episporii irregularibus cerebriformibus.

2. *Tilletia Anthoxanthi* Blytt, Christiania Vid. Selsk. Forh. 1896. 1575
 n. 6, p. 31. — Sporis globosis, raro subovalibus, sordide atro-brunneis, hyalinis, reticulatis, 24-27 μ . diam., episporio 2½ μ . crasso, areolis vulgo pentagonis, 4-5½ μ . latis instructo.

Hab. in fructibus *Anthoxanthi odorati* pr. Throndhjem, Norvegia (H. BRYN). — *T. Rauwenhoffii* F. de Waldh. affinis, sed

sporis obscurioribus, areolis minoribus margineque hyalino minus manifesto instructis diversa.

3. *Tilletia Barclayana* (Bref.) Sacc. et Syd. *Neovossia Ba. clayana* 1576
Bref. Unters. XII, p. 170. tab. X, fig. 22-29. — Soris in ovariis evolutis eaque tumefacientibus, pulverulentis, nigris; sporis nigro-brunneis, globosis, 17-22 μ . diam., exappendiculatis, areolatis; sporidiolis filiformibus.

Hab. in ovariis Penniseti triflori, Simla Indiæ orient. (BARCLAY).

4. *Tilletia corona* Scrib. Bull. Torr. Bot. Cl. 1896, p. 210. — Ovaria 1577
occupans eaque in massam atram, corniculatam, interdum 1 cm. longam, membrana inclusam permutans; sporis magnis, globosis, 22-26 μ ., obscure brunneis, maturitate dense opacis, sed episporio hyalino, 2-3 μ . crasso tectis; areolis retis minutis, in sporis maturis valde obscuris.

Hab. in ovariis Homalocenchræ oryzoidis, virginici, lenticularis, Panicis sanguinalis et virgati variis locis Amer. bor. — Reliquiæ hypharum fertiliam in sporis non maturis sæpe persistunt et pedicellum simulant. Differt a speciebus affinis sporis obscure brunneis et opacis, areolis retis obscurioribus.

5. *Tilletia horrida* Takahashi, Tokyo Botan. Magaz. 1896, Pt. II, 1578
p. 20. — Soris ovaria incolentibus, glumis tectis, pulverulentis, nigris; sporis globosis, irregulariter rotundatis v. interdum late ellipticis, 18 $\frac{1}{2}$ -23 μ . diam. vel 22 $\frac{1}{2}$ -26 μ 17-22, episporio obscure olivaceo-brunneo, opaco, aculeis conspicuis, hyalinis v. dilute coloratis apice acutis, basi irregulariter polygonalibus, plus minusve curvulis, 2 $\frac{1}{2}$ -4 μ 1 $\frac{1}{2}$ -2 μ . metientibus dense tecto; sporidiolis filiformibus v. acicularibus, varie curvatis, 38-53 μ . longis.

Hab. in ovariis Oryzæ sativæ duobus locis in Japonia.

6. *Tilletia ? irregularis* Pazschke, Hedw. 1895, p. (101). — Soris 1579
primo tectis, dein liberis, striæformibus, nigris, epidermide fissa cinctis; sporis fuscis, versiformibus, globosis v. oblongis, levibus, episporio circ. 2 μ . crasso præditis, 12-19 μ 9-10.

Hab. in foliis vivis Andropogonis sp. in Brasilia (ULE).

7. *Tilletia Sesleriæ* Juel, Oefersigt af K. Vet.-Akad. Förhandl. 1894, 1580
n. 9, p. 494. — Sporis irregulariter subglobosis, atro-brunneis, 25-28 μ . diam., tenuiter anguste reticulatis.

Hab. in foliis Sesleriæ cæruleæ, ubi strias longas nigras efficit, insula Gotlandia Sueciæ. — *T. olivæ* proxima.

8. *Tilletia Ulei* Schroet. et P. Henn. Hedw. 1896, p. 218. — Soris 1581

nigris ovaria destruentibus; sporis subglobosis vel ellipsoideis, olivaceo-brunneis, 15-20 \times 14-18, episporio atrobrunneo 1.5-2 μ . crasso dense verrucoso.

Hab. in fructibus Paspali scrobiculati in prov. St. Catharina Brasiliæ (ULE).

9. **Tilletia zonata** Bref. Unters. XII, p. 161, tab. X, fig. 3-7. — 1582

Soris flores ex toto replentibus, nigris, pulverulentis; sporis 15-18 μ . diam., episporio luteo-brunneo areolato præditis, zona pellucida cinctis; sporidiolis filiformibus.

Hab. in floribus Sporoboli ligularis, Quito Æquatoriæ (LAGERHEIM).

ENTYLOMA De Bary — Syll. VII, p. 487, IX, p. 286, XI, p. 233.

1. **Entyloma microsporum** (Ung.) Wint., Syll. VII, p. 493. — Var. 1583

pygmæum Allesch. in Allescher et P. Hennings, Pilze aus dem Umanakdistrikt. 1897, p. 1. — Sporulis versiformibus, irregularibusve, globosis, oblongis, sæpe polygonalibus, magnitudine varia, ca. 8 μ . diam., vel 12-18 μ . longis, grosse 1-guttulatis, hyalinis vel pallide flavescensibus.

Hab. in foliis languentibus Ranunculi pygmæi Karajak-Nunatak Groenlandiæ (VANHÖFFEN).

2. **Entyloma Corydalis-luteæ** Vogl. Bull. Soc. bot. Ital. 1896, p. 36. 1584

— Soris plerumque rotundatis, in maculis luteo-brunneolis dispositis, explanatis, 1-2-4 mm. latis, prima ætate conidiorum strato alto cæspitose tectis, numerosis; sporis globosis, laxè congregatis, 7 μ . diam., episporio crasso, pallide luteo, punctulis irregularibus undulatis ornato, initio tegumento gelatinoso, crasso, hyalino cincto, jam in matrice viva germinantibus; promycelio apice sporidiola filiformia, hyalina, 35-40 \times 2 μ . generante.

Hab. in foliis et caulibus vivis Corydalis luteæ in Italia et in Helvetia.

3. **Entyloma cissigenum** P. Henn. Pilz. Ostaf. p. 49. — Maculis am- 1585

phigenis, gregariis, rotundatis, circiter 2 mm. diam., sæpe confluentibus, atris; sporis globosis, intus fuscis v. minute viridulis subgranulatis, 18-21 μ .; episporio hyalino, levi, ca. 3-5 μ . crasso.

Hab. in foliis vivis Cissi in Africa trop. (VOLKENS).

4. **Entyloma arnicale** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 57. 1586

— Maculis amphigenis, in pagina foliorum superiore obscure ferrugineis, inferiore pallidioribus, subangularibus, 2-4 mm. diam., pallide luteo-limitatis; soris subepidermicis; sporis sphericis, ex hya-

lino pallide brunneis, 10-12 μ . diam.; episporio levi, $1\frac{1}{2}$ -2 μ . crasso.

Hab. in foliis *Arnicae cordifoliae*, Idaho Amer. bor. (PIPER).

— Status conidiof. est *Ramularia arnicalis* Ell. et Ev.

5. **Entyloma Bellidis** Krieger Hedw. 1896, p. (145). — Maculis al- 1587
bicantibus v. luteolis, globosis, $\frac{1}{2}$ -3 mm. latis, sæpe confluentibus,
interdum totum folium occupantibus; conidiis acicularibus, parum
curvulis, hyalinis, 22-40 \times $1\frac{1}{2}$; sporis globosis, hyalinis v. luteolis,
9-14 μ . latis; episporio $1\frac{1}{2}$ μ . crasso.

Hab. in foliis *Bellidis perennis* pr. Königstein Saxoniae.

6. **Entyloma Bidentis** P. Henn. Pilz. Ostaftr. p. 49. — Soris sub epi- 1588
dermide nidulantibus, maculis rotundatis, flavis, dein confluentibus,
fuscis; sporis subglobosis, brunneis, levibus v. intus granulatis,
10-15 \times 9-14, episporio levi, 1- $1\frac{1}{2}$ μ ., castaneo.

Hab. in foliis vivis *Bidentis pilosi* in Africa trop. (VOL-
KENS).

7. **Entyloma Plantaginis** Blytt, Christiania Vid. Selsk. Forh. 1896, 1589
n. 6, p. 32. — Sporis globosis, vulgo 8 μ ., rarius 18 μ . diam.,
glabris, levibus; conidia desunt.

Hab. in foliis *Plantaginis mediae* in Norvegia.

8. **Entyloma Brefeldi** Krieger, Hedw. 1896, p. (145). — Maculis, ut 1590
in aliis speciebus hujus generis, nullis; sporis hyalinis v. sublu-
teolis, globosis, 10 $\frac{1}{2}$ -15 μ . latis; episporio levi, $1\frac{1}{2}$ μ .

Hab. in foliis *Phalaridis arundinaceae* in Saxoniam.

9. **Entyloma Camusianum** P. Har. Journ. de Bot. 1896, p. 299. — 1591
Soris maculas utrinque conspicuas, numerosas, sparsas vel grega-
rias etiamve confluentes et totam foliorum superficiem occupantes,
rotundatas vel irregulares, explanatas v. levissime superne tume-
factas, non marginatas, cinereo-fuscas, 1-5 mm. (pro singulis) la-
tas, efformantibus; sporis crebrioribus et totam utraque epidermide
parenchymaticam partem suffusam (ita ut sub lente atro-nigricans
et quasi carbonacea videatur) foventibus, densissime aggregatis,
olivaceis, difformibus, sed pro maxima parte angulatis, episporio
crassiusculo, subfusco præditis, 8-16 (plerumque 12 μ .) crassis.

Hab. in foliis vivis *Phlei arenarii* in Gallia occid.

10. **Entyloma speciosum** Schroet. et P. Henn. Hedw. 1896, p. 220. — 1592
Soris striiformibus sæpe confluentibusque atris sub epidermide nidu-
lantibus; sporis conglobatis subglobosis vel late ellipsoideis, acu-
tangulis, castaneis vel atro-olivaceis, intus punctulatis, 8-12 \times 7-10;
episporio atro-olivaceo, levi.

Hab. in foliis Panicæ spec. Prov. St. Catharina Brasiliæ (ULE).

11. **Entyloma Oleandræ** P. Henn. Hedw. 1895, pag. 326. — Soris 1598
striiformibus, amphigenis, ca. 1 cm. longis, 2 mm. latis, atris v.
atro-violaceis; sporis subglobosis, raro ellipsoideis, minute granu-
latis, subhyalinis, 8-12 \approx 6-10; episporio subfuscidulo.

Hab. in foliis Oleandræ articulatae, Natal (WOOD).

SCHRÆTERIA Wint. — Syll. VII, p. 550, IX, p. 288, XI, p. 235.

1. **Schræteria Delastrina** (Tul.) Wint. — Syll. VII, p. 500. — var. 1594
reticulata Cocconi, in Rend. Accad. Sc. Bol. 1898, p. 219 cum 2
tab. — Sporis 16-20 μ . diam., cœruleo-brunneis, episporio cristulis
reticulatim dispositis prædito.

Hab. parasitica in area placentaria et funiculo seminum Ve-
ronicæ sp., prob. V. præcocis circa Parisios.

SIRENTYLOMA P. Henn. Hedw. 1895, p. 319 (Etym. *seira* series et
Entyloma). Mycelium intercellulare; sporæ catenulatæ, dein sece-
dentes fuscae, episporio crasso, levi.

1. **Sirentyloma Salaciæ** P. Henn. l. c. — Maculis amphigenis, irre- 1595
gularibus, dein confluentibus et totum folium nigrificantibus; sporis
primo catenulatis moniliformibus, dein secedentibus subconglobatis,
ovoideis, ellipsoideis v. subglobosis, sæpe acutangulis, 8-13 \approx 7-11;
episporio ca. 1 $\frac{1}{2}$ -2 μ . crasso, fusco-brunneo, levi.

Hab. in foliis Salaciæ spec. in ditione fluvii Corumba, Goyaz
Brasiliæ (ULE).

ENTORRHIZA C. Weber — Syll. VII, 497, IX, 287.

1. **Entorrhiza Solani** Fautr. Rev. Mycol. 1896, p. 11 cum tab. — 1596
Sporis sphaericis, subpiriformibus v. ovalibus, sæpe angulosis, 10 μ .
diam.

Hab. in tuberibus putridis Solani tuberosi in Gallia.

2. **Entorrhiza scirpicola** (Correns) Sacc. et Syd., *Schinzia* Corr. Hedw. 1597
1897, pag. 40. — Sporis ellipticis, flavis, 16-20 \approx 11-14, episporio
lineolis adscendentibus spiralibus longioribus v. brevioribus obsito.

Hab. in radicibus Scirpi pauciflori, inflationes radicum
efficiens, in Helvetia.

TOLYPOSPORIUM Woronin — Syll. VII, 501, XI, 235.

1. **Tolyposporium Cenchri** Bref. Unters. XII, p. 156, t. IX, fig. 31-34. 1598
— Soris in inflorescentiis evolutis easque destruentibus, pulveru-

lentis, nigris; glomerulis sporarum laxis; sporis brunneolis, non verrucosis, 8-10 μ . diam.; promycelio 8-loculari; sporidiolis ad septa evolutis.

Hab. in inflorescentiis *Cenchrus echinatus*, Rio de Janeiro Brasiliæ (MOELLER).

2. **Tolyposporium Chloridis** P. Henn. Pilz. Ostaf. p. 49. — Soris atris, 1599 firmis, bullatis, undulato-plicatis, rugulosis, interdum confluentibus; glomerulis sporarum firmis, varia magnitudine, subglobosis, acutangulis, e 3-5 sporis compositis, 10-20 \times 8-15, fusco-brunneis v. atris; sporis acutangulis, sublevibus, 6-10 μ .

Hab. in fructibus *Chloridis abyssinicae* in Africa trop. (VOLKENS).

3. **Tolyposporium Anthistiriae** Cobb ap. Mc Alp. Arrang. Austral. Fungi 1600 1893, p. 202. — Massa sporarum nigra; sporis compositis, h. e. ex cellulis brunneis, crasse tunicatis, nunc vicenis v. tricenis, nunc pluries centenis constantibus.

Hab. in inflorescentia *Anthistiriae ciliatae*, N. S. Wales, Australia.

4. **Tolyposporium minus** Schroet. Hedw. 1896, p. 218. — Soris in ger- 1601 minibus, subglobosis vix deformantibus, cuticula cinerea tectis; glomerulis sporarum 60-120 \times 60-70, subfirmis, atris; sporis 7-15 \times 7-9; episporio olivaceo-brunneo, levi.

Hab. in fructibus *Panici spec.* in prov. St. Catharina Brasiliæ (ULE).

5. **Tolyposporium Penicillariae** Bref. Unters. XII, p. 154, tab. IX, 1602 fig. 35-40. — Soris in quaque spica solitariis, ovariiculis, bullam magnam globosam efformantibus, nigris; glomerulis sporarum variae magnitudinis ac formae, plerumque subglobosis v. ovoideis; sporis solitariis dilutioribus, 10-12 μ . diam., vix distincte verrucosis, flavo-brunneis; promycelio gracili, 8-loculari; sporidiolis copiosissimis, ad septa evolutis.

Hab. in inflorescentiis *Penicillariae spicatae*, Simla Indiae orient. (BARCLAY).

6. **Tolyposporium Volkensii** P. Henn. Pilz. Ostaf. p. 49. — Soris 1603 ad germina pustulatis, submesenteriformibus, atris, subgelatinosis?, rugulosis, circ. 5-8 mm. diam.; glomerulis subglobosis v. irregulariter acutangulis, firmis, 15-28 μ . diam., e 3-15 sporis compositis, plus minus fuscis; sporis subglobosis, ovoideis, oblongis. e mutua pressione acutangulis, fusco-brunneis, minute granulatis, 5-11 μ .

Hab. in ovariis Sorghorum cultorum in Africa trop. (VOLKENS).

TOLYPOSPORELLA Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 16.

(Ety. a *Tolyposporium*, cui affine genus). — Glomeruli e cellulis (sporis) numerosis, episporio crasso præditis, dense agglutinatis constituti; promycelium ramosum, septatum; sporidiola pleurogena, solitaria.

1. **Tolyposporella Chrysopogonis** Atk. l. c. — Soris pulverulentis, 1604
in vaginis culmorum evolutis; glomerulis nigris, magnis, irregularibus, ovalibus, sphaericis, oblongis v. ellipticis, 50-175 \times 40-80; sporis in massa agglutinatis, irregulariter globosis v. subangulosis, episporio crasso obscure brunneo præditis, 10-15 μ . diam.; promycelio subinde ramoso, septato, delicato; sporidiolis pleurogenis, solitariis, subelavatis v. fusoides, curvulis v. inæquilateralibus, interdum subsigmoideis, 9-12 \times 2-2 $\frac{1}{2}$.

Hab. in vaginis Chrysopogonis nutantis, Auburn, Alabama Amer. bor.

DOASSANSIA Cornu — Syll. VII, p. 502, IX, p. 288, XI, p. 235.

1. **Doassansia Ulei** Schrœt. Hedw. 1896, p. 220. — Soris cauliculis, 1605
pulvinatis vel subcylindraceo-pustulatis, 4-10 \times 1,5-2 mm. diam., epidermide tectis; glomerulis sporarum compactis, subglobosis vel ellipsoideis acutangulis, plerumque 22-46 \times 20-30, pallide brunneis; sporis 5-7 μ . latis, compressis; episporio pallide brunneo, levi.

Hab. in caulibus Callitriches spec. Prov. St. Catharina Brasiliæ (ULE). — An ad *Sorosporium* ducendum?

2. **Doassansia affinis** Ell. et Dearness, Bull. Torr. Bot. Club. 1895, 1606
p. 364. — Soris hypophyllis, pustuliformibus, globosis v. ellipticis, 200-300 μ . longis, obscuris, supra collabentibus, gregariis, elongatis; sporis globosis v. ellipticis, 8-10 μ . longis; episporio tenui.

Hab. in foliis Sagittariæ variabilis, Canada, Amer. bor. (DEARNESS).

3. **Doassansia intermedia** Morot, Journ. de Bot. 1895, p. 471. — 1607
Pustulis rotundatis, obscure brunneis, numerosissimis, gregariis, non confluentibus, magnam foliorum partem occupantibus; soris sphaericis, 80-135 μ . diam., cellulis corticalibus luteo-brunneis, membrana leviter incrassata; sporis plerumque sphaeroideis, 8-10 μ . diam., episporio tenui, levi, pallide luteo-donatis.

Hab. in foliis Alismatis ranunculoidis in Gallia.

4. ?*Doassansia* *Lilææ* P. Henn. Hedw. 1896, p. 220. — Soris am- 1608
phigenis, subpustuliformibus, fusciscentibus in maculis flavescen-
tibus, oblongis; sporis globosis, subacutangulis, atris, 6-8 μ .; epi-
sporio levi.

Hab. in caulibus *Lilææ* subulatæ, Sierra Achala de Cordoba
Argentina (HIERONYMUS).

BURRILLIA Setchell — Syll. XI, p. 236.

1. *Burrillia globulifera* J. Davis, Bot. Gaz. XXII, 1896, p. 414. — 1609
Soris globosis v. ellipticis, obscure brunneis v. nigris, 250-450 μ .
diam.; sporis 1-3-seriatis, obscure brunneis, dense compactis, irre-
gulariter polyhedricis, 6-9 μ . diam.; promycelio 2 μ . diam., 30-80 μ .
longo, brunneolo, prominentiis numerosis minutis rotundatis mu-
nito; sporidiolis 4-8 v. pluribus in quoque verticillo, terminalibus,
verticillatis, cylindræis, 12-18 \times 3.

Hab. in culmis *Glyceriæ* fluitantis, Wisconsin, Amer. bor.

THECAPHORA Fing. — Syll. VII, p. 507, IX, p. 289, XI, p. 237.

1. *Thecaphora Hieronymi* Schrœt. Hedw. 1896, p. 221. — Soris in 1610
ovariis, pustulatis, ellipsoideis, ca. 2 mm. longis, castaneis; glome-
rulis tri-vel quadrangulis, 20-30 vel 40 μ . diam., plerumque 3-6
raro 2-3 vel 8-sporis compositis; sporis conglobatis, unilateraliter
verrucis pyramidalibus acutiusculis usque ad 1 μ . longis ornatis,
13-15 ν . latis; episporio pallide castaneo.

Hab. in fructibus *Richardsoniæ* stellaris pr. Montevideo
Uruguay (ARECHAVALETA).

SOROSPORIUM Rud. — Syll. VII, p. 511, IX, p. 288, XI, p. 237.

1. *Sorosporium Holstii* P. Henn. Pilz. Ostaf. p. 49. — Soris in- 1611
florescentias inficientibus easque tumeficientibus, atris, pulveru-
lentis; glomerulis forma magnitudineque variis, subglobosis v.
oblongis, atris, e sporis numerosis compositis, 50-90 μ . diam.;
sporis subglobosis v. ellipsoideis, acutangulis, granuloso-verrucosis,
flavescentibus v. fusco-brunneis, 10-15 \times 8-13.

Hab. in inflorescentia *Themedæ* Forskalei in Africa trop.
(HOLST).

2. *Sorosporium Montiiæ* E. Rostr. Botan. Tidskr. XX, 1896, p. 129. 1612
— Soris atris; glomerulis fuscis, subglobosis v. irregularibus, 60-
80 μ . diam., e sporis numerosis constitutis; sporis breviter elli-

psoides, 5-8 μ . longis, brunneis, levibus, difficile secedentibus; promycelio filiformi, septato.

Hab. in foliis caulibusque *Montiæ minoris* in Dania.

3. **Sorosporium Rhynchosporæ** P. Henn. Hedw. 1896, p. 222. — Soris 1613 omnino inclusis, ovaria destruentibus, atris; glomerulis duris, subglobosis vel oblongis, aterrimis, 25-30 μ . diam.; sporis subglobosis oblongis acutangulis, plerumque triangularibus, fusco-olivaceis, intus punctulatis, 8-13 \times 7-10, episporio atro-olivaceo, 1-2 μ . crasso, minute verrucoso vel sublevi.

Hab. in fructibus *Rhynchosporæ glaucæ*, Rio de Janeiro *Brasilis* (ULE).

4. **Sorosporium Cenchræ** P. Henn. Hedw. 1896, p. 221. — Soris in 1614 floribus, vesiculoso-inflatis, cuticula alutacea tectis, dein pulverulentis, atris; glomerulis subglobosis vel irregulariter oblongis, 20-45 μ . diam., atris; sporis subglobosis vel ellipsoideis, sæpe acutangulis, olivaceo-brunneis intus punctulatis, 8-10 \times 6-9; episporio brunneo, levi.

Hab. in spicis *Cenchræ echinati* Prov. St. Catharina *Brasilis* (ULE).

5. **Sorosporium maranguensis** P. Henn. Pilz. Ostaf. p. 49. — Soris 1615 aterrimis, pulverulentis, subglobosis v. irregularibus, e sporis numerosis compositis, 35-65 μ . diam.; sporis subglobosis, acutangulis, intus subgranulatis, fusco-brunneis, 8-12 \times 7-11; episporio levi, atro-fusco, incrassato.

Hab. in inflorescentia *Andropogonis lepidi* in Africa trop. (VOLKENS).

6. **Sorosporium cuneatum** Shofield in Webb. App. Cat. Fl. Nebr. 1616 1892. — Idem est ac posterius *S. Solidaginis* Ell. et Ev., Sacc. Syll. XI, p. 237. — Cfr. Bull. Torr. Bot. Club. 1895, p. 363.

UROCYSTIS Rab. — Syll. VII, p. 515, IX, p. 290, XI, p. 237.

1. **Urocystis Anemones** (Pers.) Schroet.-Sacc. Syll. VII, p. 518. — 1617 Forma *Aconiti* Vogl. Bull. Soc. bot. Ital. 1896, p. 35. — Soris atris, sparsis, majusculis, bullatis per epidermidem rima longitudinali dehiscentem erumpentibus; sporis centralibus, sphaeroideis, fuscis, 20-22 \times 20, externis 12-14 μ . diam.

Hab. in foliis caulibusque *Aconiti Lycopctoni* in Helvetia et in Italia.

2. **Urocystis Hieronymi** Schroet. Hedw. 1896, p. 218. — Soris in 1618 ramulis vel pedunculis, eos bullam curvatam, c. 3 cm. longam,

1 $\frac{1}{2}$ cm. crassam efformantibus, cuticula c. 1 mm. crassa, ochracea, rugulosa tectis; glomerulis ellipsoideis, 22-40 \times 22-30; sporis centralibus singularibus, globosis vel ellipsoideis, 16-26 \times 15-20, episporio castaneo, levi; sporis periphericis 7-12 \times 6-8, pallide brunneis.

Hab. in caulibus Solani spec. pr. Santa Rosa Boliviae (HIERONYMUS, LORENTZ).

SCHIZONELLA Schroet. — Syll. VII, p. 500, IX, p. 288.

1. **Schizonella melanogramma** (DC.) Schroet.-Sacc. Syll. VII, p. 500. 1619

— Var. **Elynæ** Blytt, Christiania Vid. Selsk. Forh. 1896, n. 6, p. 33. — Sporæ minores, 6 μ ., et colore lætiores quam in typo.

Hab. in Elynæ spicata, Dovre, Norvegia.

TESTICULARIA Klotzsch. — Syll. VII, p. 150.

1. **Testicularia Cyperi** Klotzsch-Sacc. Syll. VII, p. 150. — Var. 1620

minor Juel, Bih. K. Sv. Vet. Akad. Handl. XXIII. Afd. III, n. 10, p. 9, extr. — Soris ovoideis v. subglobosis, siccis 3-6 mm. longis, 2-4 mm. crassis, furfuraceo-verrucosis; sporarum glomerulis subglobosis, 70-90 μ . diam.; sporis maturis fuscis, plerumque ca. 15 μ . diam., membrana levi, obsolete tantum punctata.

Hab. in spicis Rhynchosporæ, Rio Grande do Sul, Porto Alegre Brasilæ (MALME).

2. **Testicularia Leersii** Cornu, Ann. d. sc. VI, sér. t. 15, 1883. — 1621

Ovarium totum *Leersia* occupans tumefactum, amylo destitutum et germine; sporis 8-10 μ . diam. coacervatis, adglutinatis, mycelio compacto intertextis sorosque 120-280 μ . diam. efformantibus, isthmo brevissimo conjunctim adhærentibus, dein rupto, in formam stellatam vel undulatam transformatis.

Hab. in *Leersia hexandra* in Algeria (LETOURNEUX). — Ob soros in mycelio compacto nidulantes et sporarum fabricam facile typicum genus.

KUNTZEOMYCES P. Henn. in litt. *Didymochlamys* P. Henn. Hedw.

1897, p. 246 nec Hook. (Etym. a cl. botanico KUNTZE et *myces* fungus). — Massa sporarum? in floribus nidulans, sacco membranaceo inclusa; sporæ? continuæ, membrana duplici tectæ, coloratæ. Genus omnino dubium.

1. **Kuntzeomyces ustilaginoides** P. Henn. l. c. — Soris in inf 1622

scentiis nidulantibus et paulo superantibus, sacco pallido tenui,

dein apice lacerato inclusis; sporis subglobosis v. late ellipsoideis, 25-31 \times 23-28, exosporio levi, cinnamomeo v. atro; endosporio primo subhyalino, dein pallide olivaceo v. fusco, levi v. punctulato, 2-3 μ . crasso, intus granuloso, 16-25 \times 14-23.

Hab. in inflorescentiis *Rhynchosporæ* spec. pr. Blumenau Brasiliæ (ULÉ).

USTILAGINOIDEA Bref. Unters. XII, p. 194 (Etym. ab *Ustilago*, cui affinis). — E promycelio oriuntur sporidiola hyalina et conidia (tilletiaformia) pleurogena sessilia colorata.

1. **Ustilaginoidea Oryzæ** (Pat.) Bref. l. c. p. 194, t. XI, fig. 22-29, 1623
Tilletia Oryzæ Pat. Bull. Soc. Myc. 1897, p. 124, tab. X, fig. 2, Sacc. Syll. IX, p. 286.

Hab. ad caryopsides *Oryzæ* sativæ in Japonia et India or.

2. **Ustilaginoidea Setariæ** Bref. l. c. pag. 202. — Pulverulenta, in 1624
ovariis evoluta eaque valde tumefaciens, viridi-nigra; sporis globosis v. ovoideis, magis verrucosis quam in præcedente.

Hab. in ovariis *Setariæ* Cruris-Ardææ pr. Blumenau Brasiliæ (MÖLLER).

3. **Ustilaginoidea mossambicensis** P. Henn. Engl. Jahrb. XXIII, 1625
p. 539. — Sclerotiis globosis, verrucosis, tuberculatis, atro-olivaceis v. atris, 3-4 mm. diam., intus duris, firmis, albidis; conidiis subglobosis, dense granuloso-verrucosis, atris, 4 $\frac{1}{2}$ -6 μ .

Hab. in ovariis *Arundinellæ* Mozambik, Afr. or. (PETERS).

Hypostomaceæ VUILL.

in Bull. Soc. sc. Nancy 1896, p. 13, extr.

Familia, ex auctore, *Ustilaginaceis* affinis, nobis adhuc dubia videtur æque ac genera, quibus constat. Hæc non parum formas cladosporiaceas quasdam imitantur, saltem ex iconibus.

MERIA Vuill. l. c. p. 20 tab. I, (Etym. a cl. silviculturæ professori gallico E. MER).

1. **Meria Laricis** Vuill. l. c. p. 21.

1626

Hab. in foliis adhuc vivis, quæ necat; *Laricis*, Vosges Galliæ.

HYPSTOMUM Vuill. l. c. p. 42, tab. II, (Etym. *hypo*. sub et *stoma*).

1. **Hypostomum Flichianum** Vuill. l. c. p. 43.

1627

Hab. in foliis vivis *Pini* austriacæ et *P. montanæ* in silvis Yonne Galliæ.

PHYCOMYCETÆ De Bary

Syll. VII, p. 181, IX, p. 335, XI, p. 239.

Fam. 1. Mucoraceæ De Bary.

CHOANOPHORA Cunn. — Syll. IX, 339.

1. **Choanophora Simsoni** Cunningh. Ann. of the Roy. Bot. Gard. 1628
Calcutta, VI Pt. I, 1895, c. tab.

Hab. in *Ipomœa rubro-cœrulea* et *Zinnia elegans* parasitans, in infusionibus saprophytica, India orient.

MUCOR Mich. — Syll. VII, p. 190, IX, p. 335, XI, p. 239.

1. **Mucor agglomeratus** Schostak. Ber. Deutsch. Bot. Ges. 1897, p. 226 1629

tab. VII. — Cœspitibus densis, pallide griseis, 2-3 cm. altis; hyphis sporangiferis confertis, septatis, rectis, copiose ramosis; ramulis variis, aliis racemosis, longis, sæpe repetite ramulosis, aliis fasciculatis, plerumque brevissimis, crebre septatis; sporangiis in ramulis longis subtiliter echinulatis, 250-500 μ . diam., columella magna, 120 \approx 100, piriformi v. obovoidea, contextu hyalino v. rarius citrino, tunica deliquescente prædita; sporangiis in ramulis brevibus, variæ magnitudinis, 7-20 μ . diam., subtiliter incrustatis, subhyalinis, columella hemisphærica, interdum nulla; sporis oblongis, rarius leniter curvulis, circiter $10\frac{1}{2} \approx 7$; zygosporis non visis.

Hab. in lacte, pane corruptis etc. in Sibiria.

2. **Mucor angarensis** Schostak. Ber. Deutsch. Bot. Ges. 1897, p. 473, 1630

tab. XXIII, fig. 5-7. — Hyphis sporangiferis decumbentibus, $\frac{1}{2}$ -2 cm. longis, cœspitulum humilem nigrum formantibus, 10-20 μ . crassis, sympodiiformiter ramosis, ramis apice arcuatis ac omnibus sporangiferis; sporangiis globosis, nigris, 120-200 μ . diam., pendulis, tunica nigra, granulis calcareis incrustata, non deliquescente, in partes magnas secedente præditis; columella magna, conica v. piriformi, schistacea, 120 \approx 60, levibus; sporis subæqualibus, globosis, $10\frac{1}{2}$ -14 μ . diam., membrana duplici tectis, solitariis griseis, in cumulo schistaceis; gemmis ac zygosporis non visis.

Hab. in pane udo, corrupto, in Sibiria.

3. **Mucor De-Baryanus** Schostak. Ber. Deutsch. Bot. Ges. 1897, p. 473, 1631
tab. XXIII, fig. 1-4 et 8. — Hyphis sporangiferis initio tantum erectis, cæspitulum densum dædaleum griseo-nigrum formantibus, monopodiiformiter ramosis, septatis, post maturitatem sporangiorum arcuatis, propullulantibus; sporangiis globosis minutis, 60-120 μ . diam., nigris, tunica impellucida, granulis calcareis incrustata, deliquescente; columella conica, 100-170 \approx 60-140, hyalinis, levibus; sporis subglobosis, flavo-griseis, 5 $\frac{1}{4}$ -10 $\frac{1}{2}$ μ . diam.; gemmis copiosis, ut in *Mucore racemoso*; zygosporis non visis.

Hab. in pane udo, corrupto, in Sibiria.

4. **Mucor heterosporus** Fisch.—Syll. XI, p. 239. — Var. **sibiricus** 1632
Schostak. Ber. Deutsch. Bot. Ges. 1897, pag. 472, tab. XXIII, fig. 9-13. — Hyphis sporangiferis initio erectis, demum decumbentibus, cæspitulum initio album dein brunneum formantibus, 2 cm. longis, copiose sympodiiformiter ramosis, septatis; sporangiis subnigris, globosis, 60 μ . diam., sæpe sessilibus, ramis interdum brevissimis, apice basali rotundatis, facile deciduis, tunica granulis calcareis incrustata, pellucida, in fragmenta secedente; columella 30-40 \approx 20, conica v. supra globosa, interdum asymmetrica, hyalina, levi; sporis griseis, plerumque globosis v. anguloso-globosis, 5-10 μ . diam., etiam irregularibus; gemmis orculæformibus, globosis v. irregulariter quadratis; zygosporis non visis.

Hab. in pane udo, corrupto, in Sibiria.

5. **Mucor racemosus** Fres.—Sacc. Syll. VII, p. 192 — Var. **brunneus** 1633
Morini, Malpighia 1896, p. 88. — Filamentis mycelialibus inflatioribus destitutis; hyphis sporangiferis plerumque parum ramosis, multo minus longis quam in specie; sporangiis saturate luteo-brunneis; chlamydosporis sphericis, raro breviter ellipticis.

Hab. in putrescentibus pr. Messina Siciliae.

6. **Mucor prolifer** Schostak. Ber. Deutsch. Bot. Ges. 1896, p. 260, 1634
tab. XVIII. — Hyphis sporangiferis primo pumilis, dein erectis et 6-7 cm. longis, denique septatis, plus minusve repetite ramosis; sporangiis variis, aliis globosis, griseis, 300-400, rarius 500 μ ., impellucidis, incrustatis, columella magna, 150-300 \approx 100-180, late piriformi levi, facile deliquescente, sporis ovalibus, hyalinis, substantia mucosa obvallatis, 17 $\frac{1}{2}$ \approx 7 $\frac{1}{2}$, valde guttulatis; sporangiis aliis 20-200 μ . diam., nigris, pellucidis, leviter incrustatis, columella varia; sporis oblongis, 7-17 $\frac{1}{2}$ \approx 3-7 $\frac{1}{2}$, non guttulatis.

Hab. in pane et fimo equino putrescentibus in Sibiria.

7. **Mucor irkutensis** Schostak. Ber. Deutsch. Bot. Ges. 1897, p. 472. — 1635

Hyphis sporangiferis erectis, undulato-arcuatis, cæspitulum densum circiter 9 cm. altum efformantibus, non vel sympodiiformiter ramosis, 9-10 cm. longis, 100 μ . crassis, parce septatis, membrana levi hyalina præditis; sporangiis æqualibus, globosis, 1 mm. diam., initio luteis, dein griseo-luteis, in maturitate interdum supra lacteis, tunica impellucida, valde incrustata in fragmenta secedente; columella magna, conica, cylindrica v. piriformi, 270-400 \times 200-280, aurantiaca, episporio levi hyalino; sporis plasmatis fragmentis ac globulis oleosis immixtis, æqualibus, 28 \times 10 $\frac{1}{2}$, solitariis dilute luteis, in cumulo flavo-brunneis, substantia mucosa obvallatis; zygo-sporis gemmisque non visis.

Hab. in fimo caprearum in Sibiria.

8. **Mucor obducens** Sacc. et Syd. Sic dicendus est *Mucor lateritius* 1636 Cke. et Mass. in Syll. IX, p. 336, quum exstet anterior *Mucor lateritius* Link in Syll. VII, p. 201.

PHYCOMYCES Kunze — Syll. VII, p. 204.

1. **Phycomyces Pirottianus** Morini, Malpighia 1896, p. 89, tab. III, 1637 fig. 8-12. — Hyphis sporangiferis circiter 2 $\frac{1}{4}$ -3 $\frac{1}{2}$ cm. longis, membrana tenuiter olivacea præditis; sporangiis globulosis maturitate nigrescentibus, 0,10-0,42 mm. diam.; membrana plerumque diffuente usque ad parvi annuli residuum circa columellam ovoïdalem persistentis; sporis ellipticis, luteo-pallidis, 12-18 μ . longis; chlamydosporis inter formam globulosam et cylindroidem variantibus, membrana glabra; zygosporis ovoidalibus, pariete nigro, glabro vel paucis et tenuissimis protuberantiis prædito, circiter 0,12 mm. diam., tectis subtili involucri, constituto laxo contextu hypharum exilium et nigrescentium, quæ a suspensoribus germinantur; numerosæ et breves hyphæ ad extremitatem bifidæ in superficie involucri eriguntur.

Hab. in stercore equino, Messina Sicilia.

HELICOSTYLUM Corda — Syll. VII, p. 209.

1. **Helicostylum cyaneum** Pound et Clements, Bot. Surv. of Nebraska. 1638 IV Lincoln. 1896, p. 5. — Sporangiolis numerosis, 30-50, globosis v. piriformibus, in pedicello flexili nutantibus, chalybeis. 35-45 μ . diam., 15-35-sporis; columella nulla; sporis ellipsoideis v. ovatis, levibus, cœruleis, denique pallide cœruleis, 12-15 \times 8-10.

Hab. in fimo equino, sociis *Piptocephalo* et *Circinella*, pr. Lincoln, Nebraska Amer. bor.

THAMNIDIUM Link. — Syll. VII, p. 211, IX, p. 337, XI, p. 240.

1. **Thamnidium Arbuscula** (Otth) Sacc. *Melidium* Otth Bern. Mittheil. 1639
1865, p. 172, — Hyphis stipitiformibus, continuis, elatis, 0,5 mm.
alt., superne ramosis, ramis alternis patentibus, repetito-dichotomis,
ramulis omnibus pariter in angulum circ. grad. 120 divergentibus,
dichotomiis regulari modo successive paullo minus inter se
distantibus; ramulis extrem. brevibus sporangia acrogena gerenti
bus globosa hyalina, sporis quaternis, ellipsoideis, vix coloratis foeta.

Hab. in crustis lichenum ad ligna faginea coacervata in Helvetia.

RHIZOPUS Ehrenb. — Syll. VII, p. 212, XI, p. 240.

1. **Rhizopus necans** Mass. Kew Bull. 1897, p. 89 c. tab. — Hyphis 1640
sterilibus continuis conglomeratis intricatis candidis; hyphis sporangiferis erectis simplicibus vel interdum furcatis, 3-6 fasciculatis, continuis, flavo-brunneis, 20-25 μ . diam. circa 2 mm. altis basi stolones longos emittentibus; sporangiis globosis circ. 250 μ . diam. brunneo-nigris, opacis, glabris; columella subglobosa; sporis subglobosis, minutissime striatis, 5-6 μ . diam. pallide olivaceo-brunneis; zygosporis doliiformibus, 100-120 μ . diam., hispidis, subnigris.

Hab. parasitice in bulbis Liliorum in Japonia.

ABSIDIA Van Tiegh. — Syll. VII, p. 214, IX, p. 337, XI, p. 240.

1. **Absidia Tieghemi** Deckenb. Scripta botan. Petersb. V, 1896, p. 245. 1641
— Stolonibus mycelicis arcuatis nigro-coloratis; hyphis sporangiferis 3(2-5) fasciculatis continuis erectis ad apicem septatis; sporangiis piriformibus usque ad septum nigro-coloratis; columella cylindrico-hemisphærica, cœruleo-nigrescente, apophysata, apice papillam minutissimam 0,03 mm. gerente; sporis sphæroideis, 3 μ . diam., hyalinis.

Hab. cum Hypomycete in Lactario delicioso putrescente, in Rossia merid.

Genus *Herpocladium* Schroet. (Syll. VII, p. 225) sec. auctorem ipsum in Engler u. Prantl, Natürl. Pflanzenfam. p. 130, *Herpocladiella* et species *H. circinans* Schroet. dicatur, quum iam exstet subgenus *Herpocladium* inter Hepaticas (subg. *Jungermannie*).

SYNCEPHALIS Van Tiegh. et Le Monn. — Syll. VII, 227.

1. **Syncephalis pycnosperma** Thaxt. Bot. Gaz. 1897, p. 11, tab. II, 1642
fig. 32-38. — Hyphis vegetativis gracilibus, nodulosis, anastomo-

santibus; hyphis sporangiferis brevibus, septo basali vulgo constrictis, apice vesiculoso-inflatis ibique sporophora secundaria numerosa clavata rarius furcata circiter 24 μ . longa gradatim expansa 2-vel 4-lobata gerentibus, 300-350 μ . longis, basi 25 μ ., apicem versus 17 μ . latis; sporangiis 3-sporis; sporis subrectangularibus v. angulosis, crasse tunicatis, in maturitate muco obvallatis, 13-16 \times 7-8.

Hab. in fimo murino et ovino, New Haven et Cambridge Amer. bor.

2. **Syncephalis tenuis** Thaxt. Bot. Gaz. 1897, p. 12, tab. II, fig. 22-31. 1643

— Hyphis sporangiferis basi septatis, elongatis sursum attenuatis, supra abrupte in capitulum inflatis, 500-700 μ . longis, basi 7, apice 4-5 μ . latis; sporangiis 6 v. pluribus consociatis, orbiculatim dispositis, bisporis; sporis subcylindraceis v. asymmetricè ovalibus, truncatis v. rotundatis, 20-25 \times 7 vel 25-27 \times 10-11.

Hab. ad Sphagnum in laboratorio in America boreali.

3. **Syncephalis Wynneæ** Thaxt. Bot. Gaz. 1897, p. 11, tab. I, fig. 5-12. 1644

— Alba, demum pallide straminea; hyphis sporangiferis erectis, 400-475 μ . longis, rectis, basi vulgo septatis, rhizoidiferis, sursum attenuatis, apice vesiculoso-inflatis ibique sporophora secundaria clavata apice inflata 25 μ . longa gerentibus; sporangiis circiter 12 associatis, bisporis; sporis irregulariter elongato-ovalibus, plerumque subsymmetricis, in maturitate muco obvallatis, 16-19 \times 6.

Hab. ad Wynneam macrotidem, North Carolina Amer. bor.

DISPIRA Van Tiegh. — Syll. IV, p. 77.

1. **Dispira americana** Thaxt. Bot. Gaz. 1895, p. 513, tab. XXXV. 1645

— Hyphis sterilibus ramosis, repentibus; fertilibus solitariis, erectis, septatis, hyalinis, 1 mm. altis, 10-12 μ . diam., denique plus minusve regulariter pseudodichotome ramosis; ramulis extremis curvulis, sterilibus v. fertilibus, capitula sphaerica 35-45 μ . diam. gerentibus; sterigmatibus numerosis, e duabus cellulis compositis; catenulis sporarum ex apice sterigmatum orientibus; sporis brevibus, 3 \times 1; zygosporis subsphaericis, 35-65 μ . diam., pallide brunneis, leviter asperulis, partim processibus rosulatis leniter asperulis digitatis circumdatis.

Hab. in stercore murino, parasitice in hyphis Mucoraceæ cujusdam, Ohio, Amer. bor.

Fam. 2. Entomophthoraceæ Now.**ENTOMOPHTHORA** Fres. — Syll. VII, p. 282, IX, p. 351.

1. **Entomophthora Aphrophoræ** E. Rostr. Botan. Tidskr. XX, 1896, 1646
p. 128 c. fig. — Hyphis et conidiis hyalinis v. dilute fuscidulis;
hyphis 8-10 μ . crassis, guttulatis; rhizoidibus ambitu longe exstan-
tibus, ramosis; hyphis conidiophoris sursum incrassatis; conidiis
fusoideo-oblongis, 16-18 \times 7-8, 1-guttulatis; sporis perdurantibus
ignotis.

Hab. in *Aphrophora spumaria* in Dania.*Fam. 3. Chytridiaceæ* DE BY et WOR.

MASSARTIA De Wild. Ann. Soc. belg. Micr. 1897, p. 25 (extr.)
(Etym. ab J. MASSART, qui hoc genus in Java detexit). — My-
celium in mucum Algarum transcurrens, ubique sæpe dichotome
ramosum, hinc inde gerens glomerulos filamentorum, in quibus
zygosporæ gignuntur; zygosporæ leves, sæpe in cumulum aggre-
gatae, membrana crassa præditæ.

1. **Massartia javanica** De Wild. Ann. Soc. belg. Micr. 1897, p. 25, 1647
tab. II, fig. 6-14. — Characteribus generis; zygosporis globosis,
35-42 μ . diam.

Hab. in mucu Algarum terrestrium nec non ad cortices arbo-
rum viventium, Java (MASSART).

ASTEROCYSTIS De Wild. Mem. belg. Micr. 1893, p. 21 (Etym.
aster et *cystis* vesica ob cellulas stellatas) nec *Astrocystis* B. et Br.
— Cellulæ stellatæ, linea circumscriptæ, centro nucleatæ, globosæ
v. ellipticæ, in cellula matricis solitariæ vel plures consociatæ,
sporangiiis perdurantibus generis *Olpidii* proxime affines.

1. **Asterocystis radicis** De Wild. l. c. tab. III, fig. 1-6, 19. — Cel- 1648
lulis stellatis, membrana asperata præditis, linea continua circum-
scriptis, centro nucleo globoso v. ellipsoideo granuloso magnam cel-
lulæ partem occupante farctis, in cellula matricis solitariis vel plu-
ribus (ad 10) aggregatis et magnitudine et forma valde variis, ple-
rumque globosis, sed etiam ellipsoideis interdumque 4-ter vel 5-ies
longioribus quam latoribus, 18-35 μ .

Hab. in radicibus Brassicæ oleracæ, B. Napi, Capsellæ Bursæ-pastoris, Thlaspeos arvensis, Plantaginis Psyllii, Veronicæ longifoliæ, Limosellæ aquaticæ et Graminum plurium in Belgio uno loco frequenter observata.

OLPIDIUM A. Braun — Syll. VII, p. 310, IX, p. 361, XI, p. 246.

1. *Olpidium radiceolum* De Wild. Cens. Chytrid. p. 16; *Olpidium* 1649
Borzii De Wild. Mém. belg. Micr. 1893, p. 19, tab. III, fig. 7-18.

— Zoosporangiis et forma et magnitudine valde variantibus, plerumque plus minusve elongato-ellipsoideis, 32-112 × 16; zoosporis plerumque per collum unum (interdum per duo v. tria), breve vel sublongum exeuntibus, numerosissimis, ellipticis, centro nucleo præditis, antice uno cilio ornatis; sporis perdurantibus non visis.

Hab. in radicibus Brassicæ oleracæ et Capsellæ Bursæ pastoris in Belgio.

2. *Olpidium Œdogoniorum* (Sorok.) De Wild. Ann. Soc. belg. Micr. 1650
1894, p. 154, tab. VI, fig. 9-10; *Olpidiopsis fusiformis* Cornu var.

Œdogoniorum Sorok. — Zoosporangiis elongatis, collo uno, rarius collis duobus membranam cellullæ matricis perforantibus, elongatis, minutis; zoosporis non visis.

Hab. in cellulis Œdogoniorum in Asia centr. et Gallia.

3. *Olpidium rostratum* De Wild. Notarisia 1895, p. 35. — Zoosporangiis 1651

ellipticis, elongatis, interdum in cellula matricis compluribus associatis, 28-40 × 6, collo brevi parum prominulo donatis, membrana levi hyalina inclusis, uno alterove apice rostro supra recurvato, aculeis 4-5 μ. longis tecto, ornatis; zoosporis sporisque perdurantibus ignotis.

Hab. in cellulis Closterii in Norvegia.

4. *Olpidium Gillii* De Wild. Journ. micr. soc. 1893, tab. 1, fig. 1-8; 1652

Ann. Soc. belg. Micr. 1896, p. 41. — Zoosporangiis ellipticis, solitariis v. 2-3 in cellula matricis consociatis, magnitudine valde variantibus, membrana levi inclusis, collo semper solitario extra cellulam matricis valde prominente; zoosporis numerosis; sporis perdurantibus nondum visis.

Hab. in cellulis Pleurosigmatis attenuati, Cocconeomatis lanceolati et Nitzschii spec. pr. London Britannia (H. GILL).

5. *Olpidium ? Mesocarpi* De Wild. Ann. Soc. belg. Micr. 1896, p. 43, 1653

tab. 1, fig. 13-16. — Zoosporangiis levibus ellipticis, plus minusve elongatis 20-28 × 10, solitariis v. interdum in cellula matricis com-

pluribus aggregatis ac filamentum latitudinem omnino occupantibus, collo nullo, zoosporas per papillam, membranam cellulae matricis perforantem, sed extra non prominulam emittentibus; zoosporis et sporis perdurantibus ignotis.

Hab. in cellulis Mesocarpi in Belgio.

6. *Olpidium Euglenæ* Dang. Le Botan. 1896, p. 247, c. fig. — Zoo- 1654
 sporangiis sphaericis, intra cellulam hypertrophicam matricis inclusis, dein erumpendo partim emergentibus et vesicam sphaericam etiam extra matricem formantibus; zoosporis globosis, longe 1-ciliatis, guttulam flavo-aurantiam includentibus.

Hab. in Euglena, Poitiers Galliae.

OLPIDIOPSIS Cornu. — Syll. VII, p. 299, IX, p. 362, XI, p. 247.

1. *Olpidiopsis appendiculata* De Wild. Notarisia 1895, p. 34. — Zoo- 1655
 sporangiis globosis v. ellipticis; zoosporis ignotis; sporis perdurantibus globosis 9-15 μ . circiter diam. (sine aculeis), membrana crassa tectis, aculeis paucis longiusculis ornatis, cellula adhaerente elongata, vermiformi, apice clavato-incrassata, 20 μ . circiter longa.

Hab. in cellulis Mesocarpi, ubi inflationes efficit, in Gallia.

2. *Olpidiopsis fibrillosa* De Wild. Notarisia 1895, p. 34. — Zoosporan- 1656
 giis ellipticis majusculis; zoosporis ignotis; sporis perdurantibus globosis v. ellipticis, 20-25 μ . circiter diam., fibris tenuibus radiantibus ubique ornatis, membrana crassa tectis, cellulis adhaerentibus globosis v. subpiriformibus. interdum catenatis, circiter 12 μ . diam.

Hab. in cellulis Spirogyrae in Gallia.

3. *Olpidiopsis Zopfii* De Wild. Notarisia 1895, p. 34. — Zoosporan- 1657
 giis globosis v. ovoideis; zoosporis ignotis; sporis perdurantibus globosis, aculeis basi dilatatis, apice acutissimis ubique ornatis, 16-22 μ . diam. (sine aculeis), membrana crassa tectis, cellulis adhaerentibus levibus, 12 μ . circiter diam.

Hab. in cellulis Spirogyrae in Gallia.

4. *Olpidiopsis major* Maurizio, Jahresber. d. Naturf. Gesellsch. Graub. 1658.
 bünd. 1895, p. 15, fig. 4-9. — Sporangii levibus, globosis ovalibus, 23 $\frac{1}{2}$ -80 μ . diam. vel 70-124 \approx 22-62, hyalinis, membrana tenui; zoosporis biciliatis, globosis v. ovalibus; sporangiis perdurantibus plerumque globosis, raro ovalibus, guttulis oleosis multis repletis, membrana crassa, lutea, undulata cinctis, 30-40 μ . diam. vel 74 $\frac{1}{2}$ -105 \approx 43 $\frac{1}{2}$ -50; cellulis adjacentibus hyalinis, membrana tenuissima, 28-31 \approx 15 $\frac{1}{2}$ -21 $\frac{1}{2}$.

Hab. in Saprolegnia, Val Campo Helvetiae.

PLASMOPHAGUS De Wild. Ann. Soc. belg. Micr. 1895, p. 219 (Etym. a *plasma* et *phago* edo). — Plasmodium cellulam matricis plerumque omnino implens, forma varium, irregulare, in juventute a protoplasmate cellulæ matricis difficile distinguendum, transverse indistincte divisum, elongationem cellularum efficiens, primitus nudum, in maturitate membrana tenui inclusum, demum in zoosporangium se mutans; zoosporangium latitudine cellularum, dein in zoosporas per papillam brevissimam non prominulam exeuntes divisum; zoosporæ ovales, piriformes v. reniformes, cilio unico ornata.

1. **Plasmophagus Œdogoniorum** De Wild. l. c. tab. VIII-IX. — Characteribus generis; zoosporangiis vulgo solitariis, rarius in eadem cellula compluribus aggregatis; zoosporis antice uniciliatis. 1659

Hab. in filamentis Œdogoniorum, Nancy Galliæ.

PLEOTRACHELUS Zopf. — Syll. VII, p. 315.

1. **Pleotrachelus radices** De Wild. Ann. Soc. belg. Micr. 1893, p. 23, 1660 tab. III, fig. 20-25, 1895, p. 67-71 tab. II, fig. 23-35. — Zoosporangiis globosis v. ovoideis, in contextu celluloso plantarum aquaticarum v. terrestrium ortis, intus granulis radiatim dispositis v. interdum nucleo rotundato centrali radiato ornatis, membrana hyalina v. pallide luteo-tincta, collis numerosis conicis v. tubulosis interdum irregularibus prædita: zoosporis ac sporis perdurantibus nondum visis.

Hab. in radicibus *Tiliaspeos arvensis*, in plantis aquaticis ac terrestribus in Belgio, Helvetia. — Tres formæ observatæ sunt: forma *major*: zoosporangiis 65-85 μ . diam., membrana colorata, collis numerosis prædita; forma *intermedia*: zoosporangiis 33-52 μ . diam., membrana subhyalina, collis subnumerosis prædita; forma *minor*: zoosporangiis 17-26 μ . diam., membrana subhyalina, collis paucis gracilibus prædita.

ENDOLPIDIUM De Wild. Ann. Soc. belg. Micr. 1894, p. 151 (Etym. *endon* intus et *Olpidium*) — Plasmodia intra cellulas algarum viventia, membrana inclusa, dein in zoosporangia se mutantia; zoosporangia collo brevi intra cavitatem cellulæ aperto nunquam membranam cellulose perforante munita, per collum zoosporas emittentia; sporæ perdurantes ac zoosporarum germinatio adhuc ignotæ.

1. **Endolpidium Hormiscæ** De Wild. l. c. tab. VI, fig. 1-8, 11. — Plas- 1661

modiis hyalinis, membrana inclusis, plerumque in cellula matricis valde deformata, inflata ac elongata solitariis, rarius binis associatis; zoosporangiis collo brevi munitis.

Hab. in cellulis *Hormiscie* zonatæ, Nancy Galliæ.

NUCLEOPHAGA Dang. *Le Botaniste* 1896, p. 201. (Etym. *nucleus* et *phago* edo). — Zoosporangia globosa intra nucleos Amœbarum parasitice nascentia. Zoosporæ sphericæ, muticæ, nucleolatae.

1. **Nucleophaga Amœbæ** Dang. l. c. fig. 1-5.

1662

Hab. in nucleo Amœbæ verrucosæ v. affinis in Gallia.

— Sporangia simplicia v. coalescendo multipla.

SYNCHYTRIUM De Bary. — *Syll.* VII, p. 288, IX, p. 357, XI, p. 247.

1. **Synchytrium andinum** Lagh. *Bull. Boiss.* 1895, p. 61. — Verrucis multicellularibus, rubro-brunneis, sæpe confluentibus; soris globosis vel ellipsoideis, 60-110 μ . diam.; sporangiis numerosis, irregularibus, e mutua pressione angulatis, 40-60 μ . diam., contentu aurantiaco; sporangiis perdurantibus solitariis, globosis, 80-120 μ . diam., membrana crassa, fusco-brunnea, levi cinctis.

1663

Hab. in foliis vivis *Ranunculi* pr. Quito in Æquatoria.

2. **Synchytrium Anemones** (D. C.) Wor.-Sacc. *Syll.* VII, p. 288. —

1664

Var. *Ranunculi* Pat. *Cat. rais. pl. cell. Tunisie*, 1897, p. 88. — Tuberculis unicellularibus, brunneis v. violaceis, quam typi, minoribus, hypophyllis, sparsis v. gregariis in maculis pallidissime violaceis; sporangiis perdurantibus rotundis v. ovoideis, variae dimensionis, 50-200 μ . diam., episporio brunneo, crasso, levi, protoplasmate hyalino.

Hab. in foliis vivis *Ranunculi chærophylli* var. flabelati in Tunisia.

3. **Synchytrium rugulosum** Diet. *Hedw.* 1895, p. 292. — Sporangiiis

1665

perdurantibus ellipticis, in cellula matricis solitariis, 170-190 μ . latis; episporio castaneo, subtiliter crispato v. rugoso, intus hyalino; gallis subrotundis, solitariis v. aggregatis, sessilibus; protoplasmate coccineo.

Hab. in foliis caulibusque *Onagraceæ* cujusdam in California.

4. ? **Synchytrium groenlandicum** Allesch. in *Allescher et P. Hen-*

1666

nings, *Pilze aus dem Umanakdistrikt.* 1897, p. 1. — Tuberculis in statu immaturo flavo-virentibus, hemisphæricis vertice leniter depressis, sæpe concavis, ca. 0,2-0,5 mm. diam.; sporis perdurantibus non visis.

Hab. in foliis vivis *Saxifragæ cernuæ* forma ramosæ, Karajak-Nunatak Groenlandiæ (VANHÖFFEN).

5. **Synchytrium Shuteriæ** P. Henn. Pilz. Ostaf. p. 30. — Maculis 1667
pallidis, rotundatis; tuberculis amphigenis, sparsis v. confluentibus, subhemisphæricis, applanatis, dein irregulariter rugosis, flavescenti-viridulis, dein subfuscescentibus, 0,3-1 mm. diam., plerumque e pluribus cellulis perdurantibus formatis; sporis globosis v. subellipsoideis, sæpe acutangulis, flavo-fuscescentibus, 10-15 × 9-13; episporio levi, 1-1 1/2 μ . crasso, subhyalino.

Hab. in foliis vivis *Shuteriæ africanæ* in Africa trop. (VOLKENS).

6. **Synchytrium decipiens** Farl.-Sacc. Syll. VII, p. 292. — Var. **citri-** 1668
num Lagh. Bull. Boiss. 1895, p. 61 (sub nom. *S. acidioides*). — Sporangiiis contentu citrino nec aurantiaco.

Hab. in foliis vivis *Desmodii* in Æquatoria.

7. **Synchytrium Johansonii** Juel, Bidrag Skand. Synch. in Bot. Notiz. 1669
1893, p. 246. — Gallulis minutis unicellularibus, interdum cellulis adjacentibus etiam affectis tuberculum parum elevatum formantibus; poris quiescentibus globosis, 48-55 μ . diam., episporio fusco et massa irregulari cellulam matricalem explente tectis, protoplasmate (ut videtur) albo completis.

Hab. in foliis *Veronicæ scutellatæ* in Jemtlandia et Smolandia.

8. **Synchytrium Niesslii** Bubák, Oesterr. Bot. Zeitschr. 1898, n. 7, 1670
p. 242. — Tuberculis oculo nudo conspicuis, simplicibus, subglobosis, sordide albidis, sed intense brunneo-limitatis, solitariis v. aggregatis ac tum folium plerumque curvantibus; cellulis epidermicis ventricoso-vel fusiformi-turgidis; sporangiis perdurantibus semper perfecte globosis, solitariis vel 2-10 in cellula matricis nidulantibus, sed etiam 10-20 in quaque cellula aggregatis et tum in series duas dispositis, nunquam mutua pressione applanatis, 50-60 μ . diam.; episporio brunneo, verrucis striiformibus parallelis præditis; protoplasmate hyalino.

Hab. in foliis *Ornithogali umbellati* pr. Hohenstadt Moraviæ (BUBÁK). — *S. punctato* Schroet. affine, a quo colore tuberculorum et forma sporangiorum perdurantium satis diversum.

9. **Synchytrium Caricis** Tracy et Earle, Proc. Californ. Acad. V, 1671
1895, p. 731. — Soris amphigenis, ellipticis v. oblongis; maculis rubro-brunneis, distinctis, sparsis; sporangiis numerosis, globosis v. ovalibus, sæpe angularibus, dilute luteis, 20-25 × 12-15.

Hab. in foliis *Caricis pyrenaicæ*, Utah, Amer. bor.

10. **Synchytrium Phegopteridis** Juel, Bidrag Skand. Synch. in Bot. 1672
Notiz. 1893, p. 246. — Gallulis prominentibus plerumque pluricellularibus, sæpius confluentibus, cellula matricali centrali globosa, 150–200 μ . diam.; sporis in cellulis matricilibus, singulis v. interdum binis, ellipsoideis, 130–150 \times 90, episporio tenui vix fusciscenti et materia alba haud crassa tectis, protoplasmate albo completis.

Hab. in foliis, præcipue in rhachide *Phegopteridis polyodioidis* in Jemtlandia et Dalecarlia.

ENTOPHLYCTIS Fischer Phycom. Deutschl. 1892, p. 114 (Etym. *entos* intus et *phlyctis* bulla). — Sporangia et sporæ perdurantes intramatricalia, filis mycelicis uno v. pluribus, intramatricilibus ramosisque prædita; vesica subsporangialis sæpius adest.

1. **Entophlyctis heliomorpha** (Dang.) Fisch. Phycom. p. 118; *Chytridium heliomorphum* Dang. Journ. de Bot. 1888, p. 143, tab. V, fig. 19–23. — Zoosporangiis globosis, basi filamentis mycelicis simplicibus v. ramosis cinctis, 10–12 μ . diam., interdum 20 μ . diam., membrana hyalina levi præditis; zoosporis per collum breve papilliforme prominulum emissis, globosis, 3 μ . diam., cilio longissimo ornatis, nucleis nitentibus farctis; sporis perdurantibus basi filamentis radiciformibus præditis, membrana crassa, duplici, levi tectis.

Hab. in cellulis *Nitellæ*, *Charæ* et *Vaucheriæ* in Gallia.

RHIZOPHIDIUM Schenk — Syll. VII. p. 298, IX, p. 362, XI, p. 248.

1. **Rhizophidium messanense** Morini, Malpighia 1896, p. 79, tab. III, 1674
f. 1–4. — Hyphis mycelialibus exilissimis in cellula nutritia expansis; zoosporangiis cylindroideis, inferne in brevissimum pedunculum attenuatis, in minutissimam vesiculam plerumque inflato, 48–54 \times 17–22, laceratione papillæ apicalis dehiscentibus; zoosporis globulosis, roseo-pallidis, 3 $\frac{1}{2}$ –4 μ . diam.; sporis quiescentibus, brunneo-rubescutibus, episporio glabro, 26–31 μ . diam., ut zoosporangia, germinantibus.

Hab. in filamentis cujusdam *Cladophoræ*, Messina Siciliae.

2. **Rhizophidium marinum** De Wild. Mém. soc. belg. Microsc. t. XVII, 1675
1893, p. 11. — Zoosporangiis rotundatis, intus granulosis, magnitudine valde variantibus, 7–15 μ . diam., basi filamentis mycelicis paucis, sæpe imperspicuis cinctis.

Hab. in *Melosira* quadam in aquario horti botan. Bruxellensis in Belgio.

3. **Rhizophidium dubium** De Wild. Ann. Soc. belg. Micr. 1895, p. 112, 1676
tab. III, fig. 26-28. — Zoosporangiis globosis, basi filamentis mycelicis dichotome ramosis, membranam cellulae matricis perforantibus præditis, demum apice apertis; zoosporis sporisque perdurantibus ignotis.

Hab. in filamentis Spirogyræ, Nancy Gallia. — A *Rhizophidio carpophilo* vix nisi matrice distinctum.

4. **Rhizophidium Pythii** De Wild. Ann. Soc. belg. Micr. 1897, p. 11 1677
(extr.) tab. 1, fig. 10-17. — Zoosporangiis globosis, basi filamentis mycelicis ramosis præditis, in cellula matricis solitariis vel 2-4 consociatis, papillis 1-2 brevibus munitis, magnitudine valde variantibus; zoosporis globosis, cilio simplici longissimo ornatis, nucleo præditis.

Hab. parasiticum in zoosporangiis Pythii complentis, Nancy Gallia.

5. **Rhizophidium asymmetricum** (Dang.) De Wild. Cens. Chytrid. p. 38; 1678
Chytridium asymmetricum Dang. Le Bot. II, p. 243, tab. XVII, fig. 1 (1891). — Sporangii junioribus sphericis, denique apice papillatis et asymmetricis, basi rhizoidibus perexiguis instructis; zoosporis sphericis 1-ciliatis.

Hab. in Confervis in fl. Sarthe Gallia.

6. **Rhizophidium Œdogonii** P. Richt. Bibl. Bot. Hf. 42, 1897, p. 12, 1679
cum fig. — Sporangii asymmetricis, ellipticis, uno latere depressis, altero convexis ideoque obtuse 3-angularibus v. globoso-tetrahedricis, quaque parte in apiculum productis, 28 μ . longis (cum apiculis 32 μ .), 14-17 μ . latis.

Hab. in Œdogonio in Groenlandia

7. **Rhizophidium subangulosum** (Al. Br.) Rabh. Fl. Eur. Alg. III, 1680
p. 201; *Chytridium subangulosum* Al. Br. Abhandl. Berl. Acad. 1855, p. 44. tab. IV, fig. 27-31. — Zoosporangiis globosis, solitariis v. aggregatis, 2-3 papillis brevibus præditis ideoque subangulosis, 20-25 μ . diam.; zoosporis globosis. 2 $\frac{1}{2}$ μ . diam., cilio perlongo ornatis.

Hab. in cellulis Oscillariæ tenuis in Germania.

8. **Rhizophidium zoophthorum** (Dang.) Fisch. Phycom. p. 94; *Chytri-* 1681
dium zoophthorum Dang. Le Bot. 1889, p. 58, t. III, f. 10, 21. — Mycelio copiose ramoso; zoosporangiis sessilibus, aggregatis, limoniformibus, apicè papilla obliqua oblonga præditis, membrana hyalina, levi inclusis, 20-25 v. 15-17; zoosporis globosis v. ovoideis

3 μ . diam., cilio longissimo donatis, nucleo oleoso faretis; sporis perdurantibus ignotis.

Hab. saprophytica in Rotiferis emortuis in Gallia.

RHIZOPHLYCTIS Fischer, Phycom. 1892, p. 119, Syll. XI, p. 249. (Ety. *rhiza* radix et *phlyctis* bulla, pustula). — Sporangia et sporæ perdurantes libera; sporangia globosa v. ellipsoidea, inermia, indivisa, filis mycelicis pluribus instructa.

1. **Rhizophlyctis operculata** De Wild. Ann. Soc. belg. Micr. 1895, 1682 p. 105, t. IV, f. 1-9. — Zoosporangiis plus minusve regulariter ovoideis, basi in filamenta radiceformia copiose ramosa productis, 50-174 \approx 33-100, collo longitudine variabili, interdum longissimo; zoosporis numerosis, centro nucleo oleoso faretis, massam compactam mucilaginosam formantibus, post exitum e zoosporangiis quiescentibus; sporis perdurantibus non visis.

Hab. in contextu plantarum submersarum, Nancy Gallia.

LATROSTIUM Zopf, Beitr. Phys. u. Morph. nied. Organ. IV, p. 43-68 (Ety. *latus* et *ostium*). — Mycelium intramatricale, copiose ramosum; sporangia extramatricalia, vertice compressa ideoque latiora quam longa, ostiolo laterali prædita; zoosporæ antice cilio unico ornatae; sporæ perdurantes extramatricales, vertice compressæ, ut sporangia latiores quam longæ, membrana crassa duplici inclusæ. *Rhizophidio* affine.

1. **Latrostium comprimens** Zopf, l. c. t. III, fig. 15-19. — Mycelio 1683 intra cellulas algarum vivente, copiose ac tenuiter ramoso; sporangiis tenue tunicatis, ellipsoideis v. ovoideis, 25-60 μ . diam. longiore; zoosporis minutissimis globosis, 2 $\frac{1}{2}$ -3 μ . diam., nucleis magnis faretis, 50-200 in quoque sporangio; sporis perdurantibus sublenticularibus, 25-50 μ . diam. longiore, membrana hyalina jodi ope cærulescente duplici tectis, exosporio crasso radiato, endosporio tenui, intus nucleis permagnis hyalinis præditis.

Hab. in oosporis, quas comprimit, *Vaucheria* in Germania, Belgio, Helvetia.

RHIZIDIOMYCES Zopf — Syll. VII, p. 316.

1. **Rhizidiomyces Spirogyræ** De Wild. Ann. Soc. belg. Micr. 1895, 1684 p. 111, t. IV, f. 14-22. — Mycelio intra cellulas algarum evoluto; zoosporangiis extra cellulas viventibus, globosis v. subovoideis, basi vesicula matricem penetrante, filamenta mycelica ramosa gerente

ornatis, apice nunquam in collum longum attenuatis, levibus, sine operculo apertis; zoosporis ignotis; vesicula globosa, subsporangiali; sporis? perdurantibus globosis v. ovoideis, membrana crassa granulosa inclusis, in zygosporis algarum evolutis.

Hab. in cellulis Spirogyræ, Nancy Galliæ.

RHIZIDIUM A. Braun — Syll. VII, p. 296, IX, p. 358, XI, p. 248.

1. **Rhizidium Chætophoræ** De Wild. Ann. Soc. belg. Micr. 1895, p. 216, 1685
t. VII, fig. 15-21. — Zoosporangiis piriformibus, raro ellipticis, basi vesiculam filamentis mycelicis paucis ramosis suffultam gerentibus, membrana levi, demum apice apertis ibique irregulariter laceratis, magnitudine valde variantibus, 20-38 \approx 15-20; zoosporis 3 μ . circiter diam.; sporis perdurantibus ignotis.

Hab. in filamentis Chætophoræ elegantis in Gallia.

2. **Rhizidium? Autrani** De Wild. Ann. Soc. belg. Micr. 1895, p. 72, 1686
t. II, f. 17-21. — Sporangii e cellulis duabus constitutis; cellula inferiori elongato-ovoidea, vulgo sursum inflata, basi in filamenta radiceiformia non producta; cellula superiori globosa, interdum subelongata, apice dein apertis.

Hab. in Cosmariis in Helvetia.

CHYTRIDIUM A. Braun. — Syll. VII, p. 304, IX, p. 358, XI, p. 250.

1. **Chytridium minus** Lacost. et Suring. in Rabenh. Fl. Eur. Alg. III, 1687
p. 277. — Cellula subglobosa v. breviter oblonga, pallide flava, processu papilliformi mediocri demum aperte coronata, caudicula solida, e basi lata breviter aucta, demum sæpius in filamentum tenuissimum desinente.

Hab. in Ulothricis filis, Conferva rhyphophila, Œdognio, Bulbochæte setigera et in Gomphonematis stiptibus in Hollandia. — Diam. cellulæ altitudini æqualis v. paulo minor, 10 $\frac{1}{2}$ -14 μ . (exceptis papilla et radicella); specimina minima 5 μ ., processus 1 $\frac{1}{3}$ -2 $\frac{1}{2}$ μ . altus, 2 $\frac{1}{2}$ -4 μ . latus.

2. **Chytridium simulans** Dang. Le Botaniste, 5 ser. Fasc. I, 1896, 1688
p. 21, c. fig. — Filamentis mycelicis cylindricis rectis, simplicibus; sporangiis sphaericis apicalibus v. intercalaribus, per papillam varie sitam dehiscentibus; zoosporis ellipsoideis 1-ciliatis,

Hab. in Pythio quodam parasitans, Poitiers Galliæ.

ASTREPTONEMA Hauptfleisch, Ber. Deutsch. Bot. Ges. 1895, p. 83,

t. VIII, fig. 1-10. (Etym. *a* priv., *streptos* tortus et *nema* filum).

— Thallus non racemosus. Oosporæ in quoque oogonio singulæ plurinucleatæ, oblongæ. Oogonia terminalia, superimposita seu catenulata.

1. **Astreptonema longisporum** Hauptff. l. c. — Una tantummodo 1689 oospora in oogonio nata, quasi explente oogonium, oosporis plurinucleatis, oblongis, 2-2,6 × 7-10; oogoniis terminalibus, semper simplici serie invicem adnexis non transfusis; sporangiis incognitis; antheridia desunt.

Hab. in tegumento Gammari Locustæ in Germania.

CHRYSOPHLYCTIS Schilberszky, Ber. d. Deutsch. Bot. Ges. 1896, p. 36 (Etym. *chrysos*, aureus et *phlyctis*, bulla). — Sporangia amyzelica, endobiotica, spherica (aureo-brunnea), in quaque cellula matricis singula v. pauca, zoosporis referta. Sporæ perdurantes quoque adsunt leves, crassiuscule tunicatæ.

1. **Chrysophlyctis endobiotica** Schilb. l. c. 1690
Hab. in tuberibus Solani tuberosi putridis in Hungaria super.

PHYSODERMA Wallr. — Syll. VII, p. 317, IX, p. 363, XI, p. 250.

1. **Physoderma Magnusianum** Krieger, Hedw. 1896, p. (144). — Maculis 1691 $\frac{1}{3}$ -1 $\frac{1}{2}$ mm. diam., in petiolis oblongis, in foliis plerumque globosis, brunneis, callosis; sporangiis perdurantibus brunneis, globosis v. oblongo-globosis, 30-34 μ . diam.

Hab. in foliis petiolisque Nasturtii amphibii pr. Königstein Saxoniae.

2. **Physoderma Acetosellæ** E. Rostr. Bot. Tidsskr. 1897, p. 38. — 1692 Sporis perdurantibus sive globosis, 15-25 μ . diam., sive ellipsoideis, 30-35 × 23-26, membrana hyalina protoplasmate brunneo farctis, intercellularibus, in eadem cellula 1-3, sporis majoribus subinde 1-2 appendiculis ovatis instructis.

Hab. in ovariis Rumicis Acetosellæ in Dania.

3. **Physoderma Calami** Krieger, Hedw. 1896, p. (144). — Maculis 1693 brunneis, subrotundis v. oblongis, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. diam., in foliis vivis non callosis, in foliis siccatis parum callosis; sporangiis perdurantibus in cellulis compluribus consociatis, brunneolis, globosis v. subglobosis, 15-22 μ . diam.

Hab. in foliis Acori Calami pr. Königstein Saxoniae.

4. **Physoderma Schrøeteri** Krieger, Hedw. 1896, p. (144). — Foliicolum 1694 aut maculas subrotundas atras $\frac{1}{3}$ -1 mm. diam. efficiens aut in series

atras, usque ad 2 mm. longas, dispositum; sporangiis perdurantibus globosis v. oblongo-globosis, in cellulis parenchymaticis solitariis vel 2-4 associatis, flavescentibus v. brunneolis, 23-36 μ . diam., membrana crassa cinctis.

Hab. in foliis et vaginis Scirpi maritimi pr. Königstein Saxoniae.

5. **Physoderma leproides** (Trab. et Sacc.) Lagerh. Myk. Stud. 1898, 1695
p. 10, tab. I et II. Ita dicendus est *Cedomyces leproides* Trab. et Sacc., Syll. XI, p. 234, *Urophlyctis leproides* (T. et S.) Magn. in Ann. of Bot. 1897, p. 92, t. VIII, f. 17-31, *Cladochytrium Alfalfæ* Lagerh. in Bull. herb. Boiss. 1895, p. 62 (nomen).

Hab. præter Betam etiam in radicibus Medicaginis sativæ in Æquatoria.

CLADOCHYTRIUM Now. — Syll. VII, p. 295, XI, p. 250.

1. **Cladochytrium Hippuridis** De Wild. Ann. Soc. belg. Micr. 1893, 1696
p. 46, t. VII, fig. 1-3. — Mycelio in matrice late effuso, copiose ramoso, hinc inde inflato; sporis perdurantibus in quaque cellula plus minusve numerosis, plerumque 2-6 consociatis, ovoideis v. ellipsoideis, 33 \approx 25, centro hyalinis, membrana levi, brunneo-colorata inclusis.

Hab. in cellulis Hippuridis vulgaris in Gallia.

2. **Cladochytrium irregulare** De Wild. Ann. Soc. belg. Micr. 1895, 1697
p. 88, t. III, f. 1-13. — Filamentis mycelicis angustissimis, ramosis, in contextu plantarum aquatilium evolutis ac in cellulis penetrantibus; vesiculis forma valde variantibus, regularibus v. irregularibus, ovoideis, ellipticis vel irregulariter sinuosis, 35 \approx 15-40, in cellula matricis solitariis vel 2-6 consociatis, septo a mycelio divisis.

Hab. in contextu plantarum aquatilium, Nancy Galliae.

3. **Cladochytrium cornutum** De Wild. Ann. Soc. belg. Micr. 1896, 1698
p. 56, t. III, f. 1-22. — Mycelio in matrice late effuso, ramoso, protoplasmatico, hinc inde fusiformiter inflato; zoosporangiis mycelii filamentis erecto dein apice irregulariter inflato insidentibus, globosis v. reniformibus, parte superiore 3-7 dentibus coroniformiter dispositis ornatis, apice apertis; zoosporis globosis, cilio simplici ornatis, nucleo excentrico donatis; sporis perdurantibus ignotis.

Hab. in contextu plantarum in aqua submersarum, Nancy Galliae.

4. **Cladochytrium Asphodeli** Debray Bull. Soc. Mycol. de France 1897, 1699

pag. 209. — Maculis nigris v. brunneis, irregularibus, sparsis v. confluentibus, amphigenis, minutissimis, sed etiam usque ad 8-15 cm. longis; sporis hemisphæricis, planis v. concavis, episporio crasso, levi, brunneo, 18-20 × 10-12.

Hab. in foliis vivis *Asphodelorum* in Tunisia et Algeria.

5. **Cladochytrium Urgineæ** Pat. et Trab. Bull. Soc. Mycol. de France, 1897, p. 210. — Maculis ovalibus v. subrotundis, 1-2 cm. longis, 1700
8-15 mm. latis, rubescentibus v. brunneis, opacis; sporis 2-3 v. pluribus, primo hyalinis, dein brunneis, hemisphæricis, 22-27 × 12-14.

Hab. in foliis *Urgineæ* maritimæ in Algeria (TRABUT).

6. **Cladochytrium Tmesipteridis** Dang. Le Botan. 1891, p. 223, t. X, 1701
fig. 1-2, t. XV, f. 15. — Mycelio toruloideò, effuso, brunneo, filamentis laxè intricatis; sporangiis sphæricis apicalibus v. intercalaribus, brunneis, sæpe grosse 1-guttulatis; oosporis globosis, bitunicatis, coloratis.

Hab. in rhizomate *Tmesipteridis* in Nova Caledonia.

7. **Cladochytrium viticolum** Prunet, Compt. rend. Ac. Sc. 1894, pp. 1702
108, 803, 1233, Zeitsch. Pfl. Krank. 1895, p. 181. — Maculas brunneas punctiformes sistens; sporangiis perdurantibus primo vere zoosporiparis, zoosporis cito germinantibus, mycelio tenuissimo e zoosporis oriente et in matricis plures partes penetrante, dein zoosporangia unicellularia gignente; sporangiis hiemali tempore iterum efformatis.

Hab. in contextu ligneo *Vitis* viniferæ in Gallia, Algeria, Tunisia, Amer. bor. — Generat morbum, qui audit *Gommose bacillaire*, *brunissure*, *mal nero* etc.

8. **Cladochytrium Mori** Prunet, Compt. rend. Ac. Sc. 1895, p. 222, 1703
Zeitsch. Pfl. Krank. 1896, p. 22. — Vix differt a *Cladochytrio viticolo* magnitudine sporangiorum et zoosporarum.

Hab. in contextu ligneo *Mori* in Gallia merid.

9. **Cladochytrium tuberculorum** Vuill. Ann. Sc. Agron. I, 1888, 1704
p. 75-77. — Filamentis mucilaginis hinc inde in zoosporangia hieme maturescentia intumescens; zoosporis uniciliatis.

Hab. in tuberculis radicalibus *Leguminosarum* in horto bot. Nancy Gallia.

PYROCTONUM Prunet, Rev. Mycol. 1897, p. 91 (Etym. *pyros* triticum cereale et *ctonos* occisio). — Mycelium in matrice late effusum, e filamentis tenuissimis compositum. Zoosporangia ex vesiculis filamen-

torum formata, primo nuda, dein membrana tenui tecta; zoosporæ primo angulosæ, dein sphericæ, cilio simplici ornata, sed denique membrana tectæ.

1. **Pyroctenum sphericum** Prunet l. c. — Mycelium ramosum, intra- 1705
cellulare, late effusum, ex hyphis gracilibus tenuissimis compositum; zoosporangiis uniguttulatis, ovoideis v. piriformibus, 15-50 μ . diam., terminalibus v. intercalaribus; zoosporis primo angulosis, dein sphericis, uniguttulatis, uniciliatis, denique membrana tectis, circiter 3 μ . diam.

Hab. in foliis culmisque Secalis Cerealis in Gallia.

Fam. 4. Saprolegniaceæ.

MYZOCYTIUM Schenk — Syll. VII, p. 279.

1. **Myzocytiium megastomum** De Wiid. Ann. Soc. belg. Micr. 1893, 1706
p. 53, tab. VI, fig. 6-10, tab. VII, fig. 19-20, 1895, p. 77. — Zoosporangiis moniliformibus, globosis v. lageniformibus, collo intra cellulam interdum longissimo, usque ad 150 μ . munitis; antheridiis et oogoniis zoosporangiis immixtis; oosporis membrana crassa, duplici, levi inclusis.

Hab. in cellulis Spirotæniæ, Closterii etc. in Gallia pluribus locis observatum.

LAGENIDIUM Schenk — Syll. VII, p. 278, IX, p. 348, XI, p. 248

1. **Lagenidium intermedium** De Wild. Ann. Soc. belg. Micr. 1895, 1707
p. 96, tab. IV, fig. 10-13. — Mycelio ramoso, crassiusculo, ramis plus minusve elongato-cylindricis, rarius torulosis; zoosporangiis paucis in quaque cellula, collo sæpe elongato interdum ante exitum e cellula matricis inflato ac paulo post constricto præditis; zoosporis ignotis; oogoniis intercalaribus; oosporis globosis, membrana crassa, levi tectis.

Hab. in Closteriis pr. Nancy Gallia.

2. **Lagenidium Closterii** De Wild. Ann. Soc. belg. Micr. 1893, p. 42, 1708
t. VI, fig. 1-5. — Mycelio ramoso, e cellulis mox cylindricis mox plus minusve inflatis irregulariter composito; zoosporangiis e cellulis inflatis oriundis, collo angusto extra cellulam valde elongato munitis; oogoniis ventricosis, plerumque e cellulis cylindricis oriundis; antheridiis ramulo laterali oogonium amplectentibus; oosporis 12. circiter diam., membrana duplici inclusis, verrucis irregularibus tectis, nucleo centrali præditis.

Hab. in cellulis *Closterii striolati* in Gallia.

3. **Lagenidium Marchalianum** De Wild. Ann. Soc. belg. Micr. 1897, 1709 p. 8 (extr.) tab. I, fig. 1-9. — Mycelio ramoso, 4-5 μ . diam. e cellulis plus minusve regulariter cylindricis, interdum irregulariter inflatis demum in zoosporangia mutantibus composito, per complures cellulas diffuso; zoosporangiis collo membranam cellulæ matricis perforante munitis; zoosporis oosporisque ignotis.

Hab. in cellulis *Oedogoniorum* in Arduennis.

4. **Lagenidium ellipticum** De Wild. Ann. Soc. belg. Micr. 1893, p. 8. 1710 tab. I. — Unicellulare, irregulariter inflatum, collo brevi munitum; zoosporis oogoniisque ignotis; oosporis ellipticis, membrana irregulari, crassa, obtuse asperata inclusis, intus granulosis, 20-30 \times 10-14.

Hab. in rhizoidibus Muscorum in Belgio.

5. **Lagenidium Zopfi** De Wild. Bull. Soc. belg. Micr. 1892, p. 139. 1711 — Mycelio ramoso, irregulari, matricem transverse penetrante; oogonis ventricosis; oosporis tunica inæquali, asperula munitis, valde refrigentibus, nucleolo carentibus 14 μ . diam.

Hab. in cellulis *Oedogoniorum*, Læken Belgii.

6. **Lagenidium papillosum** Cocc. Mem. Accad. Bol. Sez. S. N. 1894, 1712 p. 187, f. 1-3. — Affine *Lagenidio Rabenhorstii*, sed differt mycelio magis evoluto, episporio oosporarum papilloso et quia forma sexuata intra cellulas matricis solitaria occurrit.

Hab. in filamentis *Spirogyræ* cujusdam in Agro Bononiensi Ital. bor.

LAGENIDIOPSIS De Wild. Ann. Soc. belg. Micr. 1896, p. 109 (Etym. a *Lagenidium* et *opsis*, facies). — Mycelium filamentosum, unicellulare, simplex, rarius ramosum, ramis parum evolutis; zoosporæ ignotæ; oogonia plus minusve globosa, a mycelio septo non divisa; antheridia oogoniis multo minora, solitaria, ramulo instructa; oosporæ globosæ v. ellipticæ, membrana crassa incluse.

1. **Lagenidiopsis reducta** De Wild. l. c. t. VI-VII. — Characteribus 1713 generis; oogoniis membrana levi tectis; oosporis totam cavitatem oogonii non replentibus, globosis v. ellipticis, plus minusve irregularibus, 13-19 μ . circiter diam., membrana crassa, asperitatibus numerosis brevibusque prædita. intus granulosis, interdum 1 vel 2 guttulis.

Hab. in oogoniis *Characearum* pr. Genevam Helvetiæ.

MONOBLEPHARIS Cornu — Syll. VII, p. 277.

1. *Monoblepharis insignis* Thaxt. Bot. Gaz. 1895; p. 438, t. XXIX, 1714 fig. 1-7. — Hyphis erectis, rigidis, hyalinis v. pallidissime rube-scenti-brunneis, subcylindræis, raro ramosis, $1\frac{1}{2}$ - $2\frac{1}{2}$ mm. longis, 8-15 μ . crassis; antheridiis latis, subconicis usque subcylindræis, approximatæ v. leviter divergentibus, apice rotundato sæpe introrsum curvulis, subsymmetricis v. sæpe basi irregulariter protrusis, antherozoidiis numerosis (24-32), uniciliatis; oosporis in oogonio maturantibus, levibus, pallide succineis, sphaericis usque longe oblongis v. irregularibus, 30-45 \times 22-33; oogoniis solitariis v. pluribus apice hypharum superimpositis, irregularibus; zoosporangiis paucis, oogoniis similibus; zoosporis biciliatis (?), circiter 10-12 μ . diam.

Hab. ad ramenta aqua submersa in fossis et stagnis, Massachusetts, Maine Amer. bor.

2. *Monoblepharis fasciculata* Thaxt. Bot. Gaz. 1895, p. 439, t. XXIX, 1715 fig. 8-12. — Hyphis rigidis, cylindræis, simplicibus v. raro ramosis, apicibus exceptis, 1-2 mm. longis, 6 μ . crassis; antheridiis angustis, attenuatis, non divergentibus; antherozoidiis 16 in quoque antheridio, 3 μ . diam.; oogoniis ovalibus, oblongis v. ellipticis, collo minuto, prominente, plerumque antheridio brevioribus, terminalibus, solitariis vel in apicibus ramorum superimpositis; oosporis plus minus regulariter ovali-oblongis v. ellipticis, levibus, pallide succineis, in oogonio maturantibus, 22 \times 18; zoosporangiis oogoniis similibus, antheridia gerentibus; zoosporis biciliatis, 5-6 μ . diam.

Hab. ad ramenta submersa in fossis et stagnis cum præcedente, Massachusetts, Amer. bor.

GONAPODYA Fisch. Phycom. p. 327 et 382 cum icone (Etym. *gonis* geniculum et *apodya* [ex *apodyomai* exuo me]). Mycelii hyphæ æqualiter constricto-moniliformes, non septatæ, ramosæ; sporangia terminalia; zoosporæ solitariae, uniciliatæ; oogonia terminalia; oosporæ solitariae, in oogoniis maturantes. — *Myrioblepharidi* per-affinis.

1. *Gonapodya siliquæformis* (Reinsch) Thaxt. Bot. Gaz. 1895, p. 480, 1716 tab. XXXI, fig. 6-10; *Saprolegnia siliquæformis* Reinsch, Jahrb. wiss. Bot. XI, p. 293; *Gonapodya prolifera* Fisch. Phycom. p. 382; *Monoblepharis prolifera* Cornu Rem. sur quelqu. Saprolog. nouv. in Bull. Soc. Fr. 1877, p. 226; Sacc. Syll. VII, p. 277. — Hyphis firmis, 250-500 μ . longis, in segmenta elliptica v. longe clavata

circiter $25 \times 14 \mu$. metientia plus minus regulariter divisis, copiose subumbellateque ramosis; sporangiis proliferis, longe siliquæformibus, maximis, circiter $130 \times 22 \mu$., interdum usque ad 250μ . longis, infra inflatis, sessilibus; zoosporis numerosis, uniciliatis, ovalibus v. ellipticis, conspicue nucleatis; oosporiis ovalibus, hyalinis.

Hab. in fructibus putridis aqua immersis in Germania, Gallia et America boreali.

2. **Gonapodya polymorpha** Thaxt. Bot. Gaz. 1895, p. 481, t. XXXI, 1717 fig. 11-16. — Hyphis irregulariter ramosis, $200-1000 \mu$. longis, in segmenta ovalia v. irregularia, interdum obsoleta divisis; sporangiis variis, longe ovalibus, apicem versus abrupte attenuatis, solitariis vel ex uno segmento pluribus adscendentibus, proliferis; zoosporis variis, interdum biciliatis.

Hab. in ramulis aqua submersis in America boreali.

SAPROLEGNIA Nees — Syll. VII, p. 268, IX, p. 345, XI, p. 244.

1. **Saprolegnia esocina** Maurizio in Pringsh. Jahrb. XXIX, p. 82, t. I, 1718 fig. 4-17. — Filamentis $23-46\frac{1}{2} \mu$. diam., ramosis, ramis $7-16 \mu$. diam., in cæspitem rigidum demum subflaccidum aggregatis; oogoniis globosis v. oblongis, $70-82 \mu$. diam. vel $95-109 \times 60-77\frac{1}{2}$, membrana hyalina, tenui, punctis numerosis subprominulis prædita; oosporis plerumque numerosis in quoque oogonio (1-30), membrana tenui hyalina tectis, $21\frac{1}{2}-25 \mu$. diam.

Hab. ad pisces (Esocem) in Helvetia.

2. **Saprolegnia intermedia** Maurizio in Pringsh. Jahrb. XXIX, p. 97, 1719 tab. II, fig. 37-51a. — Filamentis $34-36\frac{1}{2} \mu$. diam., ramosis, ramis $6-15\frac{1}{2} \mu$. diam., in cæspitem tenuem circiter $\frac{3}{4}$ cm. longum aggregatis; zoosporis $11-15\frac{1}{2} \mu$. diam.; oogoniis globosis, piriformibus v. orculæformibus, $48-113 \mu$. diam., membrana tenuissima, hyalina, punctata prædita; oosporis plerumque 6-10 in quoque oogonio, sed interdum etiam usque ad 40, membrana crassa hyalina tectis, $19-23 \mu$. diam.; antheridiis intercellularibus.

Hab. in palude ad Wallensee Helvetiæ.

3. **Saprolegnia bodanica** Maurizio in Pringsh. Jahrb. XXIX, p. 107, 1720 tab. II, fig. 52-59. — Filamentis $31-47 \mu$. diam., ramosis, ramis $4\frac{1}{2}-15\frac{1}{2} \mu$. diam., in cæspitem ca. 2 cm. longum tenuem, latisimum aggregatis; antheridiis nullis; oogoniis globosis, rarius oblongis, $54-93 \mu$. diam. vel 108×88 , membrana tenui hyalina, punctis numerosis minutis subprominulis prædita; oosporis in quoque

oogonio numero variis (4-30), membrana crassa flava tectis, $23\frac{1}{2}$ -
31 μ . diam.

Hab. in palude ad Bodensee Helvetiæ.

ACHLYOPSIS De Wild. Ann. Soc. belg. Micr. 1896, p. 121 (Etym. ab *Achlya* et *opsis*, facies). — Mycelium filamentosum, ramosum, unicellulare, rarius septis transversalibus divisum; oogonia globosa v. elliptica, apice ramorum insidentia, septo transversali a mycelio divisa; antheridia numerosa, interdum oogonium perfecte circumdantia; oosporæ solitariae, totam oogonii cavitatem subreplentes.

1. **Achlyopsis entospora** De Wild. l. c. tab. IX, fig. 1-11. — Characteribus generis; antheridiis ramosis; oosporis globosis v. ellipticis, 21-37 μ . diam., membrana percassa inclusis, 1-4-guttulis oleosis præditis. 1722

Hab. in oogoniis Characearum pr. Genevam Helvetiæ. — Genus adhuc vere dubium.

RHIPIDIUM Cornu — Syll. VII, p. 268.

1. **Rhipidium americanum** Thaxt. Bot. Gaz. XXI, 1896, p. 327, t. XXI, fig. 1-15. — Cellula basali variæ formæ et magnitudinis, 75-400 μ . longa, hyphopodiis rhizoideis numerosis affixa, apice plus minus regulariter dichotome ramosa v. lobata, ramis v. lobis erectis v. radiantibus, in hyphas multas apice dissectis; hypharum segmentis subclavatis, 50-800 μ . longis; zoosporangiis typicè ovoideis, sursum acutatis, apice rotundatis, erectis, circiter 50 \approx 35, sed valde in magnitudine variantibus; oogoniis terminalibus, sphaericis, 40-55 μ . diam.; oosporis pachydermis, 30-45 μ . diam.; hyphis antheridialibus brevibus, gracilibus, antheridio minuto, rotundato.

Hab. in plantarum partibus aqua immersis, America bor.

ARAIOSPORA Thaxt. Bot. Gaz. XXI, 1896, p. 326 (Etym. *araios*, rarus et *spora*). — Planta e cellula basali magna formata, hyphopodiis rhizoideis affixa, apice in hyphas multas dissecta. Hyphæ repetite umbellato-ramosæ, subcylindraceæ. Zoosporangia in apicibus hypharum orta, spinosa aut inermia. Zoosporæ minute granulosa, 2-ciliatæ. Oogonia umbellata v. verticillata, globosa. Oosporæ solitariae, pachydermæ. Hyphæ antheridiales in hyphis discretis ortæ, simplices v. ramosæ.

- 1 **Araiopora spinosa** (Cornu) Thaxt. l. c., *Rhipidium spinosum* Cornu — Sacc. Syll. VII, p. 268.

Hab. in aqua lente fluenti in Gallia.

2. **Araiospora pulera** Thaxt. l. c. pag. 328, tab. XXIII, fig. 20-25. 1723
 — Cellula basali magna, subcylindracea, apice subconico, ramoso, ramis numerosis, acropleurogenis, e segmentis plus minus cylindraceis, repetite umbellato-ramosis compositis; zoosporangiis umbellatis v. verticillatis, $125 \approx 30$, subcylindraceis v. late clavatis et levibus vel late ovalibus usque piriformibus et spinis $10-35 \mu$. longis radiantibus vestitis; oogoniis umbellatis v. verticillatis, $50-60 \mu$.; oosporis sphaericis, hyalino-pachydermis, cellulis periphericis cinctis, $35-45 \mu$.

Hab. in ramis aqua submersis in Amer. bor.

PYTHIUM Pringsh. — Syll. VII, p. 270. IX, p. 347; XI, p. 244.

1. **Pythium Hydrodictyorum** De Wild. Ann. Soc. belg. Micr. 1897. 1724
 p. 22, tab. II, fig. 1-5. — Mycelio parasitico; filamentis tenuibus, irregulariter ramosis, 3μ . circiter crassis; zoosporangiis ignotis; oogoniis numerosis, monosporis; antheridiis solitariis; oosporis levibus, globosis v. rarius ovoideis, $10-17 \mu$. diam., pallide luteolis.

Hab. in cellulis Hydrodictyi utriculati, Java (MASSART).

2. **Pythium Characearum** De Wild. Ann. Soc. belg. Micr. 1896, p. 116, 1725
 tab. VIII. — Mycelio saprophyto v. in oogoniis Characearum parasitico, $3-4 \mu$. diam.; zoosporangiis zoosporisque ignotis; oogoniis in filamentis mycelico terminalibus, globosis v. ellipticis, membrana levi, plus minusve crassa; antheridiis solitariis v. 2-4 sociatis; oosporis globosis v. ellipticis, $20-30 \mu$. circiter diam., membrana levi, crassa inclusis, solitariis.

Hab. in oogoniis Charæ pr. Genevam Helvetiæ.

3. **Pythium? gibbosum** De Wild. Ann. Soc. belg. Micr. 1896, p. 119, 1726
 tab. XII, fig. 11-15. — Oogoniis globosis v. ovoideis, 21μ . circiter diam., membrana irregulariter gibbosa tectis; antheridiis nondum visis; oosporis 13μ . diam.

Hab. in oogoniis Charæ pr. Genevam Helvetiæ. — Species omnino incerta.

MYRIOBLEPHARIS Thaxt. Bot. Gaz. 1895, p. 484. (Etym. *myria* multitudo et *blepharis* cilium). — Hyphæ graciles, parce ramosæ; zoosporangia terminalia, prolifera; zoosporæ multiciliatæ, magnæ, e contentu sporangiorum divisione oriundæ. — *Pythio* subaffinis.

1. **Myrioblepharis paradoxa** Thaxt. l. c. tab. XXXI, fig. 1-5. — 1727
 Characteribus generis; hyphis gracilibus, flexuosis, 1-2 ramosis,

circiter 1 mm. longis, 4-5 μ . crassis; zoosporis late ovalibus v. oblongis, 20-30 \approx 18-20.

Hab. in ramentis aqua submersis in America boreali.

SAPROMYCES Fritsch, Oest. B. Z. 1893, p. 420; Thaxt. Bot. Gaz. 1896, p. 329, (Etym. *sapros* putris et *myces* fungus) *Nægelia* Reinsch Jahrb. Wiss. Bot. 1876, p. 289. — Syll XI, p. 245. — *Nægeliella* Schröt. Pflanzenfam. I, p. 103. — Affinis *Araiosporæ*. Zoosporangia oblonga, levia. Zoosporæ ut in *Araiospora*. Oogonia umbellatim disposita, piriformia; oosporæ solitariae. Antheridia elongata, curvata. Planta nunc androgyna, nunc heterogyna.

1. **Sapromyces androgynus** Thaxt. Bot. Gaz. XXI, 1896, p. 329, 1728 tab. XXII, fig. 16-19. — Oogoniis piriformibus, 27-30 \approx 35-50; oosporis sphericis, 20-26 μ . diam., hyalino-pachydermis; zoosporangiis circiter 75 \approx 26; hyphis antheridialibus juxta oogoniorum basim oriundis.

Hab. in ramis aqua submersis, America bor.

2. **Sapromyces Reinschii** (Schröt.) Fritsch l. c., Thaxt. l. c. *Nægeliella* 1729 Schröt. l. c. — Verticillato-ramosa; sporangiis elliptico-oblongis verticillatim quaterno-senis; sporis 6 μ . long, ellipsoideis; sporis aliis (oosporis?) globosis, crassiuscule tunicatis, 11-17 μ . diam.

Hab. in caulibus putridis Visci etc. aqua immersis in Germania, Amer. bor.

3. **Sapromyces dubius** Fritsch l. c. *Nægelia* spec. II Reinsch, Fisch. 1730 Phycom. p. 378.

Hab. in Algis viridibus in Germania. — Forte status junior præcedentis.

4. **Sapromyces elongatus** (Cornu) Thaxt. l. c. *Rhipidium elongatum* Cornu, Syll. VII, p. 268.

BLASTOCLADIA Reinsch — Syll. XI, p. 245.

1. **Blastocladia ramosa** Thaxt. Bot. Gaz. 1896, p. 50, tab. III, 1731 fig. 14-16. — Axi primario subcylindrico, 14-20 μ . diam., basi divisionibus rhizomatoideis dense fasciculatis, tenuibus, ramosis aucto, sursum copiose irregulariter v. subdichotome ramoso; sporangiis in ramulorum apicibus oriundis, late ovalibus, punctatis, 30 \approx 15; sporangiis perdurantibus terminalibus, rotundatis, basim versus gradatim angustioribus et truncatis, circiter 30 \approx 11.

Hab. ad ramos demersos in paludibus, Maine Amer. bor.

DELACROIXIA Sacc. et Syd. *Boudierella* Cost. Bull. Soc. Myc. de France 1897, p. 38, tab. IV-V, nec Sacc. (Etym. a cl. mycologo gallico GEORG. DELACROIX). — Conidia e basidiis vehementer projecta; conidia secundaria ad superficiem conidii primarii in basidiis brevibus acrogena.

1. **Delacroixia coronata** (Cost.) Sacc. et Syd. *Boudierella coronata* Cost. 1733
l. c. — Saprophytica; mycelio nullo v. obsoleto; conidiis globosis 26-45 μ .; conidiis secundariis radiantibus.

Hab. inter lamellas Agarici campestris, verisimiliter ad parva insecta, in Gallia.

PLASMOPAROPSIS De Wild. Ann. Soc. belg. Micr. 1896, p. 124 (Etym. a *Plasmopara* et *opsis*, facies). — Mycelium filamentosum, ramosum, e duabus partibus compositum; pars altera irregularis in interiore oogoniorum Characearum, copiose ramosa, altera extra oogonium rigida, erecta, dichotome ramosa; zoosporangia apicibus ramorum lateralium insidentia, vertice aperta.

1. **Plasmoparopsis rigida** De Wild. l. c. tab. X et XI, fig. 5-8. — 1734
Mycelio externo 3-4 μ . diam.; zoosporangiis in apice ramorum solitariis v. binis trinis consociatis, piriformibus, a mycelio interdum septo transversali divisus, 16-20 μ . latis, 23-32 μ . longis.

Hab. in oogoniis Characearum pr. Genevam Helvetiæ.

Fam. 5. Peronosporaceæ.

DREPANOCONIS Schroet. et P. Henn. (Etym. *drepanon* falx et *conia* pulvis) Hedw. 1896, p. 211. — Mycelium intercellulare. Sori epidermide primo tecti, dein erumpentes, pulvinato-effusi. Conidia ovoidea, oblonga, plerumque curvata, vermiformia hyalina.

1. **Drepanoconis brasiliensis** Schroet. et P. Henn. l. c. — 1735
Soris folii-vel cauliculis, bullatis, primo epidermide infusca velatis dein erumpentibus, pulvinato-effusis, cretaceis, subpulverulentis; conidiis ovoideis, clavatis vel oblongis, rectis, plerumque curvatis, vermiformibus, hyalinis, 2-6 grosse guttulis, 10-28 \times 8-16 episporio levi, hyalino.

Hab. in foliis ramisque Nectandræ oppositifoliæ duobus locis in Brasilia (ULE).

CYSTOPUS Lév. — Sacc. Syll. VII, p. 233, IX, p. 340, XI, p. 242.

1. **Cystopus Solivæ** (Schroet.) Sacc. et Syd. *Albugo Solivæ* Schroet. 1736
Hedw. 1896, p. 210. — Soris amphigenis sparsis vel aggregatis
albis vel subflavescentibus pustulatis 0,5-3 mm. diametro, cuticula
vesiculosa tectis; conidiis subglobosis, 20-22 \times 13-20; episporio hya-
lino, medio annulato-incrassato; oosporis subglobosis, atro-castaneis,
60-66 μ ., episporio minute reticulato.

Hab. in foliis Solivæ anthemidifoliæ in prov. St. Catha-
rina Brasiliæ (ULE).

PERONOSPORA Corda. — Syll. VII, p. 244, IX, p. 342, XI, p. 243.

1. **Peronospora Ficaræ** Tul.-Sacc. Syll. VII, p. 251. — ***P. glacialis** 1737
Blytt, Christiania Vid. Selsk. Forh. 1896, n. 6, p. 20. — Hyphis
conidiophoris epiphyllis (h. e. in pagina foliorum superiore); co-
nidiis niveis; oogoniis et oosporis ut in *P. Ficaræ* typica, a qua
tantum notis supra indicatis differt.

Hab. in foliis Ranunculi glacialis, Dovre, Norvegia.

2. **Peronospora megasperma** Berl. Icon. fung. Phycom. pag. 21, 1738
t. XXIV, *P. Violæ* E. et Ev. N. A. F. n. 2207, nec De By. —
Cæspitulis effusis, albescentibus; conidiophoris erectis, 300-400 \times
9-10, ter-5-ies ramosis, ramis ultimis elongatis, cylindræis, apice
truncatis; conidiis magnis, obovoideis, superne late papillatis, 80-
95 \times 40-45, hyalinis; oogoniis globulosis v. sæpius pressione po-
lyhedricis, magnis 48-54 μ . d. tunica crassa amoene lutea v. fusco-
lutea; oosporis globosis 36-40 μ . diam. pallide lutescentibus, pe-
rinio a periplasmate sat concreto lutescenti-fuscidulo v. brunneo-
fulvescente formato diu adhærente, tectis.

Hab. in foliis Violæ tricoloris var. arvensis in Amer.
bor.

3. **Peronospora leptosperma** De By.-Sacc. Syll. VII, p. 254. — Var. 1739
Siegesbeckiæ Lagh. Bull. Boiss. 1895, p. 61. — Strato albo, laxo;
conidiophoris arborum modo divisus, 200-300 μ . altis, 10 μ . crassis,
corona ramis plerumque tribus, cylindricis, rectis, erecto-patentibus,
ramulis ultimis 6-12 μ . longis, rectis, subulatis, angulo recto pa-
tentibus; conidiis ovali-globosis, 27-30 μ . diam., membrana achroa;
oosporis ignotis.

Hab. in foliis vivis Siegesbeckiæ in Æquatoria.

4. **Peronospora Alchemillæ** Oth, Bern. Mittheil. 1868, p. 65. — 1740
Hyphis quinquies dichotomis, ramulis ultimis subulatis, sæpius
inæqualibus, altero nempe longiore et subporrecto, altero laterali

breviore et recurvo; conidiis fuscidulis 13 μ . diam. v. ellipsoideis ad 19 μ . longis; oosporis ignotis.

Hab. in pag. inf. foliorum *Alchemillæ vulgaris* pr. Bern Helvetiæ. — An var. *Per. Potentillæ* De Bary?

5. *Peronospora Podagrariæ* Otth ap. Trog, Mitth. Nat. Gesell. Bern. 1741 1857, p. 45. — Hyphis diaphanis, rectis, strictis, ramulis paucis patulis brevibus, apice in lobulos patentes ternos v. quaternos divis; conidiis in quoque lobulo solitarie acrogenis, majusculis, globulosis, intus granulosis, hyalinis.

Hab. in pag. inf. foliorum *Ægopodii Podagrariæ*, Bern Helvetiæ. — An diversa a *Plasmopara nivea*?

6. *Peronospora Corellæ* Tranzsch. Hedw. 1895, p. 214. — Cæspi- 1742 tulus laxis, griseis; hyphis conidiophoris solitariis, inter duas epidermidis cellulas vel e stomatibus emergentibus, basi bulbiformiter tumidis, longissimis, 300-470 μ ., ætate membrana sordide-grisea, sursum 4-6-ies dichotomis; ramis erectis, ramulis ultimis erectis, subulatis acutisque; conidiis magnis, oblongo-ellipsoideis, basim versus angustatis, apice acutiusculis, sordide violaceis, 32-40 \times 17-20, plerumque 36 \times 18 μ .; oosporis cum episporio 32-36 μ . diam.; episporio castaneo, crasso, anguloso-plicato.

Hab. in corollis vivis *Campanulæ persicifoliæ*, Gouv. Nowgorod, Russia.

7. *Peronospora Gilii* Ell. et Ev. Contr. U. Nat. Herb. III, n. 4. 1895, 1743 p. 276. — Hypophylla; byphis laxè intricatis, griseis; fertilibus erectis, firmis, 300-400 \times 8-10, sursum 3-4 dichotomo-ramosis; ramis ramulos breves leniter curvatos 10-15 μ . longos, apicibus sæpe bifidis, gerentibus; conidiis ellipticis, levibus, hyalinis v. subhyalinis, 18-22 \times 12-15; oosporis globosis, flavo-brunneis, 30-45 μ . diam., episporio crasso, dense subreticulato, tuberculoso-aspero præditis.

Hab. in foliis *Gilii* in Amer. bor.

8. *Peronospora Plantaginis* Underw. Bull. Torr. Bot. Cl. 1897, p. 83. 1744 — Cæspitulis foliicolis, 1-3 cm. latis; hyphis conidiophoris plerumque solitariis, longe exsertis, irregulariter 5-6-ies dichotomis; ramulis ultimis brevibus, inæqualibus, recurvis, 4-12 μ . longis; conidiis anguste ovalibus v. limoniformibus, utrinque acutis, obscuris, 40-44 \times 16-18; oosporis nondum visis.

Hab. in foliis *Plantaginis aristatæ*, Alabama Amer. bor.

9. *Peronospora Seymoarii* Burr. Bull. Torr. Bot. Cl. 1897, p. 83. 1745 — Maculis sparsis, albis, foliicolis v. cauliculis; hyphis mycelicis effusis, haustoriis torulosis; hyphis conidiophoris gracilibus, 7-8-

ies dichotomis; ramis flexuosis, subulatis, apicibus brevibus; conidiis subglobosis v. ellipticis, 12-18 \times 14-27, brunneolis; oogoniis membrana crassa brunneola, usque ad 70 μ . diam.; oosporis obscure brunneis, opacis, crasse tunicatis, asperis, 27-45. μ .

Hab. in foliis et caulibus *Houstoniæ* spec., Illinois Amer. bor. (SEYMOUR).

10. *Peronospora Whippleæ* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 1746 p. 364. — Mycelio hypophyllo, effuso, sordide griseo; hyphis fertilibus 250-350 μ . altis, 3-4 ramis dichotomis præditis, in apicem simplicem v. bifidum abeuntibus et plerumque apice ramulum brevem lateralem erectum, 6-8 μ . longum gerentibus; conidiis breve ellipticis, brunneolis, levibus, 18-22 \times 12-15; oosporis ignotis.

Hab. in foliis *Whippleæ* modestæ, California (BLASDALE).

11. *Peronospora cannabina* Otth, Bern. Mittheil. 1868, p. 63, Massal. 1747 Peron. d. Canap. Ferr. 1898, c. tab. — Cæspitulis cinereo-violascentibus; hyphis inæqualiter bis ter ramosis, 100-240 \times 8-10, ramulis divaricatis subulatis; conidiis ellipsoideis, 30-36 \times 16-20, griseolis, dein brunneo-violaceis; oosporis ignotis.

Hab. in pag. inf. foliorum *Cannabis sativæ* pr. Steffisburg Helvetiæ et in agro Ferrariensi Italiæ.

12. *Peronospora Maydis* Racib. Ber. Deutsch. Bot. Ges. 1897, p. 475 1748 cum fig. — Maculas albas v. albo-flavas efficiens; mycelio hæustoriis numerosis globosis v. tuberculiformibus instructo; hyphis conidiophoris numerosis, 0,3 mm. altis, 25 μ . crassis, 1-3 dichotomo-ramosis, erectis; ramis patentibus, apice lobatis; conidiis in apicibus loborum oriundis, globosis, 15-18 μ . diam.; oogoniis in vaginis foliorum evolutis, globosis, 18-25 μ . latis, membrana persistenti, verrucis conicis tecta; oosporis globosis, 14-24 μ . latis, membrana levi.

Hab. in foliis, vaginis et culmis *Zeæ* *Maydis* in Java

13. *Peronospora Niessleana* Berl. Icon. fung. Phycom. pag. 40, tab. LXVI, f. 1, *P. Phyteumatis* Niessl nec Fuck., verisimillime est *P. parasitica* (Pers.) Tul. Matrix est *Alliaria* nec *Phyteuma* ut eruitur ex spec. orig. Niessleano in herb. Sacc.

PLASMOPARA Schröt. — Syll. VII, p. 239, IX, p. 342, XI, p. 243.

1. *Plasmopara Epilobii* (Otth) Schröt. — Syll. VII, p. 243. Ita dicenda est, nam *Peronospora Epilobii* Otth Bern. Mitth. 1868, p. 63, præcedit homonymam Rabenh. F. Eur. n. 1747 (1874). Quoad locum, adde Helvetiam (OTTH).

SCLEROSPORA Schröt. — Syll. VII, p. 238, IX, p. 341.

1. **Sclerospora Kriegeriana** P. Magn. Verh. d. Ges. Deutsch. Naturf. 1749 u. Ärzte. 67. Vers. zu Lübeck, 1895, p. 100. — Mycelio intercellulari secus fibras foliorum effuso, hinc inde distincte intumescente, haustoriis destituto; oogoniis numerosis, tunica crassa areolisque duabus instructis, 60-65 μ . diam.; oosporis 50-55 μ . diam.

Hab. in foliis languentibus Phalaridis arundinaceæ prope Königstein Saxoniae (KRIEGER). — A *Sclerospora macrospora* et *graminicola* differt oogoniis majoribus.

PYRENOMYCETÆ Fr. emend.

Syll. I, p. 1, IX, p. 364, XI, p. 252.

Fam. 1. Perisporiaceæ Fr.

Trib. 1 Erysiphææ Lév.

UNCINULA Lév. — Syll. I, p. 6, IX, p. 366, XI, p. 252.

1. **Uncinula adunca** (Wallr.) Lév.-Sacc. Syll. I, p. 7. — Var. **Epilobii** 1750 Vestergr. Bot. Notis. 1897, p. 256. — Mycelio evanido; peritheciis per appendices cauli foliisque arcte adnatis, plus minusve sparsis, orbiculari-depressis, verruculosis, 125-150 μ . diam.; appendicibus numerosissimis, simplicibus, valde uncinatis, parce septatis, hyalinis, ad 125 μ . longis; ascis 6-9 in quoque perithecio, subpiriformibus, 4-5-sporis; sporidiis ellipsoideis v. ovatis, granulis majusculis repletis, 25-34 \approx 14-18.

Hab. in caulibus foliisque vivis *Epilobii angustifolii* in regione Upsaliensi Sueciæ.

SPHÆROTHERCA Lév. — Syll. I, p. 3, IX, p. 364.

1. **Sphærotheca tomentosa** Otth, Bern. Mittheil. 1865, p. 168. D. Sacc. Contr. fl. mic. Schemn. p. 17, t. V, f. 1; *Erysiphe gigantiasca* Thüm. et Sorok. (1877), Syll. fung. I, pag. 18, *Sphærotheca gigantiasca* Bäuml. in Beitr. zur Pilzfl. des Presb. Com. n. 1110, p. 132.

Hab. in pag. inf. foliorum et caulibus *Euphorbiæ dulcis*, *E. platyphyllæ*, et *E. palustris* in Helvetia, Germania, Hungaria, Rossia. — Subiculum tomentosum, albidum. Perithecia subimmersa, appendiculis rufis a subiculi hypphis vix distinctis. Ascus unicus 120-140 \approx 65-75; sporidia octona, globulosa, 15-25 diam.

ERYSIPHELLA Peck. — Syll. I, p. 23.

3. **Erysiphella Carestiana** Sacc. Malpighia XI, 1897, pag. 282. — 1751 Peritheciis superficialibus, remote sparsis, globoso-depressis, astomis, atro-nitidis, sed non levissimis, 206 μ . diam. exappendiculatis, contextu e cellulis dilute umbrinis, 15-20 μ . diam. conflato; ascis

in quoque perithecio 10-20, ovatis, basi breviter stipitato-apiculatis, 60-70 \approx 30-36, typice bisporis, e thalamio celluloso hyalino oriundis; sporidiis elliptico-ovoideis, 30 \approx 18, utrinque obtusulis, hyalinis, plasmate dilutissime flavido.

Hab. in pileo udo Fomitis fomentarii, Riva-Valdobbia, Italia (CARESTIA). Defectur appendicularum gen. *Erysiphellam* validum probat.

MICROSPHÆRA Lév. — Syll. I, p. 10, IX, p. 368, XI, p. 252. 1752

1. **Microsphæra Coluteæ** Kom. Fungi Rossici, n. 79. — (Diagnosim non vidimus).

Hab. in foliis Coluteæ arborescentis in Rossia.

Trib. 2 Eurotiæ Sacc.

EUROTIUM Link — Syll. I, p. 95, IX, p. 371, XI, p. 254.

1. **Eurotium medium** Meissner, Bot. Zeit. 2, Abth. 1897, p. 356 c. fig. 1753

— Mycelio initio regulariter dichotome ramoso, toruloso, ætate aurantiaco, cellulis ventricosio-turgidis; hyphis conidiophoris plerumque non ramosis, 5-8 $\frac{1}{2}$ μ . latis; sterigmatibus conicis, 13 \approx 6; conidiis ovalibus globosisve, maturitate episporio verrucoso instructis, 7-12 \approx 6-10; peritheciis plerumque globosis, sulphureis, 83-125 μ . diam.; ascis globosis v. piriformibus, octosporis, 20-25 μ . diam.; sporidiis ovalibus v. lenticularibus, levibus, hyalinis, 12 \approx 8.

Hab. in fluxu mucoso Platani in Germania occid.

2. **Eurotium argentinum** Speg. Rev. Agr. y Veter. La Plata 1896, 1754

p. 228. — Peritheciis sparsis v. hinc inde densiuscule gregariis, superficialibus, matrice leniter adnatis, globosis, minutis, 50-80 μ . diam., astomis, levibus, flavidis, tenuiter membranaceis; ascis per plurimis globosis, 10-12 μ . diam., dense constipatis, tunica tenuissima hyalina mox fatiscente; sporidiis e globoso ellipsoideis, 4-5 \approx 3-4, hyalinis, levibus, eguttulatis. — Est status ascophorus *Aspergilli argentinii* Speg.

Hab. in foliis languidis v. subputrescentibus adhuc convolutis Sacchari officinarum, prov. Tucuman, Argentina.

3. **Eurotium semiimmersum** El. March. Bull. Soc. Roy. Bot. Belg. 1755

XXXIV, 1895, p. 128, tab. II, fig. 3-3a. — Peritheciis sparsis, nigricantibus, in fimo semiimmersis, e mycelio flexuoso fusco oriundis, minutis, 65-95 μ . diam., contextu cellulis polyhedricis minutis, densis cômposito; ascis 8-sporis, ovoideis, inferne acutis, 14 $\frac{1}{4}$ -

15 $\frac{1}{2}$ \approx 10,8-11,5; sporidiis ovoideis, regularibus, utrinque rotundatis, 4 $\frac{1}{2}$ -5 \approx 2,8-3,5, levibus, hyalinis.

Hab. in fimo suino putrido, socio *Ascophano* sexdecimsporo in Belgio.

ANXIOPSIS Hansen, Bot. Zeit. 1897, p. 131, tab. II, fig. 8. — (Etym. a genere *Anixia*, cui affinis). — Perithecia globosa, astoma. Asci ovoidei v. breviter clavati, mox dilabentes; sporidia ellipsoidea, sæpe angulosa, griseo-flava, verruculosa; paraphyses 0.

1. **Anxiopsis stercoraria** Hans. l. c. *Eurotium stercorarium* Hans., 1756 Sacc. Syll. I, p. 27. — Peritheciis circiter 250 μ . diam., non per-tusis, membranaceis, brunneolis; hyphis longis, ramosis; ascis ovoideis v. breviter clavatis, octosporis; sporidiis 3-5 μ .

Hab. in stercore vulpino, in laboratorio etiam in stercore cuniculorum et in aliis substratis in Dania.

ALLESCHERIA Sacc. et Syd. *Eurotiopsis* Cost. Ann. Inst. Past. XI (1897) p. 1-43, nec Karst. (1889) (Etym. a cl. mycologo bavarico A. ALLESCHER). — Perithecia globulosa, minuta, tenui-membranacea. Asci globosi. Sporidia ovata, utrinque acuta. Conidia catenulata, in sporophoris acrogena, dein ob ramulum lateralem (dein apice conidiophorum) compressa.

1 **Allescheria Gayoni** (Cost.) Sacc. et Syd. *Eurotiopsis Gayoni* Cost. 1757 l. c.

Hab. in farina amylacea aliisque substantiis organicis, Paris Gallia. — Perithecia 50-80 μ . diam. Sporidia 6 \approx 4. Conidia alba v. rosea, ovoidea, 12 \approx 10.

MYRIOCOCCUM Fr. — Syll. I, p. 29, IX, p. 373.

1. **Myriococcum spinuligerum** Penz. et Sacc. Malpighia XI, 1897, 1758 p. 388. — Peritheciis laxiuscule gregariis, globulosis, astomis, 100 μ . diam., pilosis; pilis tenerrimis, candidis, radiantibus, ramosis, 3 μ . crassis, hyalinis, spinulis calcareis, acutis, patentibus, 3 μ . longis, facile secedentibus crebre conspersis, initio totum perithecium tegentibus, tandem evanescentibus et id nudatum, rufo-fuscum demonstrantibus; perithecii contextu tenuissime parenchymatico rufescente; sporis intra perithecium conglobatis, e mutua pressione globoso-angulosis, 12-15 μ . diam., levissimis, fumoso-hyalinis, epi-sporio tenuissimo.

Hab. in ligno putrescente, udo, Java. — Genus *Myriococcum*

utpote non ascigerum hucusque repertum, ab *Eurotiis* genuinis excludendum est et probabiliter cum *Eurotiopside* Karst. inter Nectrioideas conjungendum.

CRYPTOTHECIUM Sacc. et Penz. Malpighia XI, 1897, p. 388 (Etym. *cryptos* absconditus et *thecium* pro perithecio). — Perithecia globulosa, astoma, tenui-membranacea, pallida v. læte colorata, subiculo mucedineo denso immersa pilisque vestita. Asci fusoidi, octospori, aparaphysati. Sporidia oblongo-fusoidia, continua, hyalina. — Ab *Eurotio* et aff. subiculi densi præsentia dignoscitur.

1. **Cryptothecium javanicum** Penz. et Sacc. Malp. 1897, p. 388. — Cæspitulis (subiculis) superficialibus, sparsis, 1-1½ mm. diam., ochraceo-isabellinis, pulvinate-applanatis, mucedineis; peritheciiis immersis, globoso-depressis, 150 μ. diam., astomis, pilosis; pilis simplicibus parceque ramosis, tenuissimis, ad apices sæpe hamatis, flavido-hyalinis, 2 μ. crassis, extus granulosis; perithécii contextu tenui, subroseo; ascis fusoidis, sessilibus, fasciculatis, aparaphysatis, 8-sporis; sporidiis oblique monostichis, tereti-fusoidis, rectis, utrinque obtusatis, 6-8-guttulatis, 12-14 × 2½-3, hyalinis.

Hab. in foliis putrescentibus Eleettariæ, Java.

CEPHALOTHECA Fekl. — Syll. I, p. 36, IX, p. 377.

1. **Cephalotheca Francisci** Sacc. Malp. 1898, p. 206, t. VII, f. 7. — Peritheciiis sparsis v. gregariis, superficialibus, subglobosis, vix 0,5 mm. diam. atro-brunneis, levissime asperulis, omnino astomis; hyphis subochraceis, inæqualibus, septulatis, subinde evanescentibus, basi cinctis; contextu perithécii parenchymatico, duriusculo, dilute brunneo; ascis in nuclei hyphis hyalinis 6-7 μ. crassis, septulatis, pleurogenis, ovoideis, demum liberis, globosis, 45-50 μ. diam., octosporis; sporidiis conglobatis, sphaericis, initio crasse tunicatis, hyalinis, levibus, 15-16 μ. diam., demum distincte et crebre verruculosis, coffeicoloribus 20-22 v. diam., verruculis obtusis, subhyalinis.

Hab. in caulibus Viciæ Fabæ mycelio parasitico jam necatis, Avellino, unde æstate 1896 misit optimus et comploratus nepos, professor FRANCISCUS SACCARDO. Species culta inde Patavii in capsula vitrea facile multiplicata est. — Eximius fungillus ab omnibus speciebus sporidiis majusculis, verrucosis dignoscitur.

HYALODERMA Speg. — XI, p. 437, XI, p. 270.

1. **Hyaloderma? horridum** Pat. Bull. Soc. Myc. de Fr. 1896, p. 136, 1761

tab. IX, fig. 3. — Peritheciis globosis, minutis, 40-150 μ . diam., pallidissime brunneis, setulis simplicibus, acutis, rigidis, brunneis, divergentibus, 30-50 \times 4-5, undique obsitis, apice perforatis; contextu indistincte celluloso; ascis clavatis, apice rotundatis, inferne in stipitem attenuatis, 35-40 \times 8-10, paraphysatis; paraphysibus hyalinis, filiformibus, simplicibus v. ramosis; sporidiis fuscidulis, filiformibus (?), subimmaturis visis. — Adsunt nonnulla perithecia ascis destituta, sporulis hyalinis, tricuspидatis, 15-23 \times 2-3.

Hab. in *Meliola* quadam ad folia *Gymnosporiæ*, Tonkin (Bon).

Trib. 3. Perisporiæ Sacc.

MELIOLOPSIS Sacc. — Syll. I, p. 68, IX, p. 375.

1. **Meliolopsis usambarensis** Rehm in P. Henn. Pilz. Ostaf. p. 31. 1762

— Peritheciis in plagas crustaceas longe lateque effusis confertis, globosis, sessilibus, nigerrimis, parenchymatice e cellulis latis nigro-fuscis contextis, membranaceis, 0,2-0,4 mm. diam., pilis simplicibus, strictis, rigidis, acutis, septatis, nigro-fuscis, 250-350 μ . longis, basi 18-24 μ . latis obsessis, integris, poro haud perspicuo siccis apice umbilicatis; ascis creberrimis, tenerrimis, fusiformibus, in stipitem tenuissimum elongatis, par. sporif. 18-21 \times 6-7 μ ., stipite 21 μ . longo, 8-sporis; sporidiis globosis, unicellularibus, glabris, hyalino-flavidulis, 2-2 $\frac{1}{2}$ μ . diam., distinctis.

Hab. in ramulis emortuis in Africa trop. (HOLST).

DIMEROSPORIUM Fuck. — Syll. I, p. 51, IX, p. 401, XI, p. 257.

1. **Dimerosporium Magnoliæ** Tracy et Earle, Bull. Torr. Bot. Club. 1763

1895, p. 175. — Maculis minutis, indefinitis, epiphyllis; mycelio ex hyphis obscure brunneis, irregulariter ramosis, septatis formato; conidiis clavatis, obscure tinctis, 4-5-septatis, 45-55 \times 7-8; peritheciis depresso-hemisphaericis, nigris, plerumque 5-10-consociatis, astomis, 50-100 μ . diam.; ascis numerosis, late ovalibus v. obovatis, octosporis, 45-50 \times 35-40; paraphysibus filiformibus, apicem versus coloratis; sporidiis distichis, ex hyalino obscure fuliginis, obovatis, uniseptatis, ad septum constrictis, 20-23 \times 9-10.

Hab. in foliis vivis *Magnoliæ virginianæ*, Mississipi, Amer. bor.

2. **Dimerosporium Oncobæ** P. Henn. Engl. Jahrb. XXIII, p. 537. 1764

— Mycelio epiphylllo, repente, effuso, atro, ramoso, septato: pe-

peritheciis e mycelio erumpentibus, gregariis, subglobosis, atris, 120-200 μ . diam.; ascis clavatis, obtusis, substipitatis, 8-sporis, 50-80 \times 15-18; sporidiis conglobatis, subfusoideis v. clavatis, hyalinis, medio 1-septatis, vix constrictis, 20-30 \times 4 $\frac{1}{2}$ -5.

Hab. in foliis *Oncobæ* spec. in Camerunia (ZENKER).

3. **Dimerosporium Boscia** P. Henn. Ann. del R. Istit. di Roma VI, 1765 Fasc. 2, p. 87. — Maculis amphigenis rotundatis, sæpe confluentibus, nigris; peritheciis dense aggregatis, crustaceo-membranaceis, aterrimis, c. 60 μ . diam.; ascis oblongis, ovoideis, subclavatis, obtusis, subsessilibus, 8-sporis, 25-40 \times 15-23; sporidiis conglobatis v. oblique distichis, ovoideis, medio septatis, constrictis, hyalino-fuscidulis, 12-14 \times 5-6 $\frac{1}{2}$.

Hab. in foliis *Boscia somalensis* in Somalia.

4. **Dimerosporium Salaciæ** P. Henn. Hedw. 1895, p. 105. — Epi- 1766
phyllum; mycelio effuso, repente, atro, nudo oculo inconspicuo, filis torulosis, ramosis, atris, 6-8 μ . crassis; peritheciis aggregatis, subhemisphæricis, atris, ambitu subradiato, 180-200 μ . diam.; ascis subglobosis v. late ovoideis, sessilibus, octosporis, 24-28 μ .; sporidiis conglobatis, oblongis, utrinque obtusis, medio septatis, valde constrictis, hyalinis, 21-24 \times 8-10, loculis æquilongis, 9-11 \times 8-10,

Hab. in foliis vivis *Salaciæ* spec. in prov. Goyaz Brasiliæ (ULE).

5. **Dimerosporium punctiforme** P. Henn. Hedw. 1897, p. 217. — Pe- 1767
ritheciis amphigenis minutis, sparsis, singularibus, punctiformibus, atris, globosis, 45-55 μ . diametro, basi filis repentibus, fuscis ramosis, 4-6 μ . crassis; ascis 8-sporis, ovoideis, subsessilibus, 18-28 \times 14-22; sporidiis conglobatis ovoideis vel ovoideo-subfusiformibus, 1-septatis, constrictis, hyalino-flavescentibus, 8-11 \times 5-6

Hab. in foliis *Baccharidis* spec. pr. Blumenau Brasiliæ (MOELLER).

6. **Dimerosporium baccharidicolum** P. Henn. Hedw. 1897, p. 217. — 1768
Mycelio brevi repente e filis brunneis, septatis, interdum ramosis; peritheciis globosis, atrocarbonaceis, minutis, sparsis, 100-140 μ . diametro; ascis late clavatis vel oblique ovoideis, 8-sporis, 22-30 \times 10-14; sporidiis subdistichis vel conglobatis, oblongis vel subovoideis, 1-septatis, ad septum constrictis, fuscis vel atrofuscis, utrinque obtuso-rotundatis, 8-11 \times 5-6

Hab. in foliis *Baccharidis triplinervis* in prov. St. Catharina Brasiliæ (MÖLLER).

7. **Dimerosporium annulatum** Rehm, Hedw. 1896, p. 53. — Perithe- 1769

ciis epiphyllis, foliorum vivorum superficie haud mutata insidentibus, maculas rotundas confluentesque, 2-5 μ . diam. formantibus ibique circinatim congregatis, subglobosis, glabris astomis, parenchymatice contextis, 90-120 μ . diam., basi hyphis radiantibus 10-20 obsessis; hyphis subrectis, simplicibus, septatis, fuscis, ad finem dilutioribus acutatisque, 180 \times 5; ascis ellipticis, sessilibus, apice obtusatis, 30-40 \times 8, octosporis; sporidiis subclavatis, obtusis, rectis, 2-cellularibus, interdum guttulis 4 oleosis præditis, interdum medio subconstrictis, hyalinis, 9 \times 2 $\frac{1}{2}$ -3, distichis; paraphysibus ramosis, septatis, hyalinis, 2 μ . crassis.

Hab. in foliis vivis Erigerontis maximi, Itatiaia Brasilæ (ULE).

8. **Dimerosporium Englerianum** P. Henn. Pilz. Ostaf. p. 31. — My- 1770
celio effuso, atro, crustaceo-velutino, ramos deformante, pilis septatis, ramosis, brunneo-rufescentibus; peritheciis subscutellatis v. subcupulatis, umbilicato-depressis, densis, atris, setulosis, circ. 0,3 mm. diam.; ascis cylindræo-clavatis, sæpe curvulis, paraphysatis, 8-sporis, obtusis, 100-130 \times 12-15; sporidiis oblique monostichis v. subdistichis, oblongis v. subfusoidis, uniseptatis, utrinque obtusis, medio vix constrictis, flavis, dein fuscis, septis uni-pluriguttulatis, 18-25 \times 7-10.

Hab. in ramis, quos deformat, Ericinellæ Mannii in Africa trop. (VOLKENS).

9. **Dimerosporium Elliotii** A. L. Smith, Journ. of Bot. 1895, p. 342. 1771
— Peritheciis gregariis vel sparsis, superficialibus, minutis, 160 μ . diam., atro-brunneis, globosis, undique hyphis exiguis fuliginis instructis; ascis cylindræo-clavatis, 55 \times 8-10; paraphysibus filiformibus; sporis ovoideis, 1-septatis, medio constrictis, hyalino-viridulis, 16 \times 6-8.

Hab. in foliis Ericæ arboreæ in Africa orient. (ELLIOT).

10. **Dimerosporium Forsteroniæ** P. Henn. Hedw. 1895, p. 105. — 1772
Hyphis repentibus amphigenis, ramosis, fusco-brunneis, septatis; peritheciis dense gregariis, pulvinatis v. subhemisphæricis, ca. 100 μ . diam., atris, levibus; ascis ovoideis, octosporis; sporidiis conglobatis, ellipsoideis v. subovoideis, medio uniseptatis, paulo constrictis, 17-24 \times 13-15, atris.

Hab. in foliis vivis Forsteroniæ spec. in prov. Goyaz Brasilæ (ULE).

11. **Dimerosporium Echitis** Allesch. Hedw. 1897, p. 235. — Peri- 1773
theciis epiphyllis, superficialibus, mycelio deficiente v. inconspicuo,

carbonaceis, astomis, depresso-hemisphæricis, magnitudine varia, 80-140 μ . diam., nigris; ascis ovoideis, octosporis, sessilibus, ca. 30-35 \times 20; sporidiis oblongis, uniseptatis, parum constrictis, ex hyalino chlorinis, ca. 10 \times 5.

Hab. in pagina superiore foliorum *Echitis* spec. pr. Goyaz Brasilæ (GLAZIOU).

12. *Dimerosporium hamatum* Penz. et Sacc. Malpighia XI, 1897, 1774

p. 389. — Late et sæpe circulariter effusum, pannoso-velutinum, hyphis dendroideo-ramosis radiantibus ambitu funbriatum; peritheciis globulosis, astomis, nigris, 180-200 μ . diam., subiculo omnino immersis, pilis radiantibus simplicibus, 300-400 \times 9, apice uncinatis, aterritis vestitis; ascis late clavatis, apice rotundatis, 110-120 \times 36, breve stipitatis, 8-sporis, aparaphysatis; sporidiis distichis, obovatis, apice obtusioribus, constricto-1-septatis, 30-33 \times 16-18, dilute fuliginosis.

Hab. in pagina infer. foliorum subemortuorum *Quercus* sp., Java. — Pilis hamatis, subiculo pannoso etc. species omnino distincta.

13. *Dimerosporium coronatum* Speg. Rev. Agr. y Veter. La Plata, 1775

1896, p. 342. — Peritheciis atris, superficialibus, e globoso piriformibus, minutis, 150-200 μ . diam., crasse umbonato-ostiolatis, circa ostiolum setulis 4-8 radiantibus patulis arcuatis, 40-80 \times 3-4, atris opacis vix apice pallidioribus coronatis, ceterum glabris, tenuiter membranaceis; contextu minute parenchymatico olivaceo; ascis e cylindraceo obclavatis, 60 \times 10, minute brevissimeque noduloso-stipitatis, aparaphysatis, 8-sporis; sporidiis cylindraceo-ellipticis, 12-14 \times 4, utrinque acutiuscule rotundatis, leniter inæquilateralibus, primo continuis, eguttulatis, dein 2-guttulatis, hyalinis (an demum 1-septatis?).

Hab. ad mycelium *Capnodii trichostomi* in foliis *Coffeæ*, Costa-Rica.

PARODIELLA Speg. — Syll. I, p. 717, IX, p. 409, XI, p. 260.

1. *Parodiella perisporioides* (B. et C.) Speg. - Sacc. Syll. I, p. 717. 1776

— * *P. asperula* Penz. et Sacc. Malpighia XI, 1897, p. 389. — A typo differre videtur peritheciis asperulis, medio rimula tenui subinde cruciata dehiscentibus; sporidiis 22-24 \times 8-9, ascisque 90-100 \times 15-16 paullo minoribus; peritheciis facile secedentibus.

Hab. in pag. inf. foliorum viventium *Leguminosæ*, Java.

2. *Parodiella consimilis* P. Henn. Hedw. 1895, p. 106. — Mycelio 1777

hypophyllo, effuso, dendritico, fusco-brunneo, subtomentoso, his repentibus septatis, ramosis, fusco-brunneis, 6-9 μ . crassis; peritheciis aggregatis, subglobosis v. obovatis, apice depressis v. subcupulatis, rufo-brunneis v. atro-fuscis, 120-180 μ . diam.; ascis ovatis, substipitatis, aparaphysatis. octosporis, 75-100 \times 35-40; sporidiis conglobatis, oblongis, obtusis, uniseptatis, parum constrictis, fusco-olivaceis, 30-38 \times 16-21, loculis æquilongis.

Hab. in foliis coriaceis Myrtaceæ cujusdam in prov. Minas Geraës Brasiliæ (ULE). — *P. melioloidi* (B. et C.) Wint. affinis, sed sporidiis peritheciisque diversa.

3. **Pardiella dothideoides** Pat. Bull. Soc. Myc. de Fr. 1895, p. 221. 1778

— Peritheciis epiphyllis, dense congestis, liberis v. confluentibus, maculas atras, 1-3 mm. latas efformantibus, globosis v. compressis, 250-280 μ . latis, astomis? (sæpe apice irregulariter ruptis), basi insculptis; contextu coriaceo, brunneo-atro, celluloso; ascis globosis v. globoso-ovatis, 40-50 \times 25-30, 8-sporis, ope jodii non cærulescentibus, aparaphysatis; sporidiis brunneis, utrinque obtusis, medio septatis constrictisque, 16-20 \times 6-8; mycelio radiante nullo.

Hab. in foliis Iresines in Æquatoria (v. LAGERHEIM)

ARGYNNA Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, p. 41.

(Etym. ab *Argynnide*, papilionum genere). — Perithecia superficialia, carbonacea, subglobosa, demum reticulatim dehiscentia et hinc polyhedrica. Asci (verisim. cito diffusi). Sporidia fuliginea, 1-septata, subtrapeziiformia, papilionem simulantia.

1. **Argynna polyhedron** (Schw.) Morg. l. c. tab. II, fig. 14; *Physarum* 1779

polyhedron (Schw.) N. Am. Fg. n. 2300. — Peritheciis subglobosis, gregariis, 1-1 $\frac{1}{2}$ mm. diam., nigris, opacis, basi lata sessilibus, demum reticulatim dehiscentibus et hinc polyhedricis; sporidiis fuligineis, 1-septatis, subtrapeziiformibus, 6-8 \times 4-5.

Hab. in ligno carioso Caryæ, Ohio Amer. bor.

MELIOLA Fr. em. — Syll. I, p. 60, IX, p. 413, XI, p. 260.

1. **Meliola pseudanastomosans** Rehm, Hedw. 1896, p. (150). — Ma- 1780

culis epiphyllis, orbicularibus, sparsis, 1-3 mm. diam., nigris, mycelio ex hyphis rectis, subramosis, fuscis, 5-6 μ . lat. septatis, hypophodiis alternantibus, capitatis, retroflexis, 15-18 \times 9-12 contextos; peritheciis 4-8, gregariis, sessilibus, rugulosis, glabris, fuscis, 250-280 μ . diam.; ascis ellipticis, teneris, c. 75 \times 36, 2-3-sporis; sporidiis

cylindræcis, utrinque rotundatis, 5-cellularibus, ad septa subconstrictis, primitus hyalinis, dein fuscis, 30-36 \times 9-12.

Hab. ad folia Psoraleæ in Æquatoria, Prov. Pichincha, San Jorge (LAGERHEIM). — *Meliolæ anastomosanti* proxima.

2. **Meliola Villaresiæ** P. Henn. Hedw. 1897, p. 218. — Amphigena, 1781
orbicularis, nigra, 3-5 mm. diametro; hyphis erectis vel repentibus, simplicibus, rarius ramosis, 12-15 μ . crassis, atris; hyphopodiis ramosis, fasciculatis, ampulliformibus, apice obtusis, 15-25 \times 8-12; peritheciis numerosis in centro, globosis, sessilibus vel breve stipitatis, 200-280 μ .; ascis oblongis, 2-sporis, vix stipitatis, 70-95 \times 35-45; sporidiis cylindræco-oblongis, utrinque rotundatis, atris, 3-septatis, constrictis, 60-75 \times 20-28

Hab. in foliis Villaresiæ spec. pr. Goyaz Brasilæ (GLAZIOU). — *Meliolæ corallinæ* Mont. et *M. Guignardi* Gaill. affinis, sed satis diversa.

3. **Meliola Didymopanacis** P. Henn. Hedw. 1895, p. 106. — Mycelio 1782
orbiculariter expanso, sæpe confluyente, totam paginam foliorum occupante, atro, filis repentibus, ramosis, septatis, atris, 9-16 μ . crassis; peritheciis subglobosis, atris, setulosis, 160-200 μ . diam., setis subulatis, 200-260 \times 9-11; ascis oblongis, bisporis, 42-56 \times 20-26; sporidiis fusco-brunneis, dein atris, oblongis, 4-septatis, septis constrictis, 40-53 \times 14-18.

Hab. in foliis Didymopanacis spec. in prov. Minas Geraës Brasilæ (GLAZIOU).

4. **Meliola Bambusæ** Pat.-Sacc. Syll. IX, p. 427. — Var. **Atalantiæ** 1783
Pat. Journ. de Bot. 1897, p. 348. — A typo tantum setulis longioribus gracilibusque recedit.

Hab. in foliis Atalantiæ buxifoliæ, Tonkin.

5. **Meliola Mac-Alpini** Sacc. et Syd. *M. denticulata* Mc Alp. New S. 1784
Wales Fung. pag. 700, t. XXVII (Proc. Linn. Soc. N. S. W. 1897). — Epiphylla, minuta, nigra, superficialis, sparsa, velutina; hyphis rhizinoideis repentibus, hyalinis, septatis, ramosis, 2-4 μ . cr.; hyphis brunneis crassioribus, 7-8 μ . cr., valde ramosis, subinde rugulosis, ramis sæpe oppositis, ultimis copiosis, brevibus, obtusis, 1-2-septatis; appendicibus simplicibus, castaneo-atris, crasse tunicatis, rigidis, erectis, septatis, apice rotundatis et denticulatis, usque 11 μ . cr.; peritheciis globoso-depressis, atro-brunneis, 70-84 μ . diam.; ascis non observatis; sporidiis subfusoides, 3-septatis, leviter constrictis, 19 \times 4, flavido-brunneis.

Hab. ad folia Dysoxyli sp., Byaneum N. S. W. Australiæ

(BAKER). — A *M. bidentata* præcipue differt appendicibus apice pluridentatis.

6. *Meliola sandicensis* Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 434. 1785

— Mycelio amphigeno, plerumque hypophyllo, numeroso, plagulas suborbiculares 2-4 mm. diam., linea bene definitas efficiente; hyphis opposito-ramosis, 6-7 μ . crassis; hyphopodiis capitatis, numerosis, oppositis, minutis, 12-15 \approx 6-7, breve stipitatis, cellula superiore ovoidea v. subglobosa; hyphopodiis mucronatis, parvissimis, ampulliformibus, collo brevi, erecto; setulis numerosis, e mycelio ortis, partem inferiorem perithecorum circumdantibus, 300-500 \approx 8-10, plerumque hinc inde incrassatis, primo pellucido-brunneis, demum subopacis, septatis, sursum gradatim attenuatis; peritheciis in mycelio sparsis, subglobosis, contextu celluloso, papillato-asperulis, substiolatis, demum collabentibus, 150-200 μ . diam.; ascis clavato-ellipticis, 50 \approx 25-30, sessilibus, 2-4-sporis; sporidiis oblongo-cylindræis, 4-septatis, ad septa constrictis, utrinque rotundatis, 33-40 \approx 12-15, brunneis.

Hab. in foliis Rubiaceæ cujusdam in ins. Sandwicens. (HELLER). — *M. malacotrichæ* et *amphitrichæ* affinis.

7. *Meliola acervata* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 126. 1786

— Epiphylla; peritheciis globosis, 150-200 μ . diam., contextu dense celluloso, in pustulas circiter 1 mm. diam. collectis; mycelio brunneo, ramoso; hyphopodiis capitatis alternatis, obovatis, 12-14 \approx 8-10; hyphopodiis mucronatis minoribus, ovatis, oppositis, minus numerosis, rostro gracili, recto 6-8 μ . longo præditis; ascis ovalibus, breve stipitatis, 40 \approx 20, 2-4-sporis; sporidiis oblongo-cylindræis, obtusis, 4-septatis, vix constrictis, 30-35 \approx 12.

Hab. in foliis Physalidis peruvianæ in ins. Sandwicens. (HELLER).

8. *Meliola verrucosa* Pat. Journ. de Bot. 1897, p. 347. — Maculis 1787

epiphyllis nigris, confertis, minutis, vix 1 mm. latis; mycelio foliis dense adhærente, ex hyphis brunneis 6-8 μ . crassis, serpentinis formato; hyphopodiis capitatis distantibus, ovoideis, obtusis, stipitatis, alternis, 23 \approx 10; hyphopodiis mucronatis paucis; peritheciis in centro macularum 1-3 aggregatis, nigris, 150-230 μ . diam., globulosis, pariete e cellulis obtusis prominentibus composito ideoque verrucosis; ascis ovoideis, 50 \approx 25, bisporis; sporidiis ellipticis, rectis v. curvulis, 43 \approx 20, obtusis, septis 4 transversalibus munitis; setulis nullis.

Hab. in pag. sup. foliorum Euphorbiaceæ cujusdam in Tonkin.

9. *Meliola acanthopoda* Pat. Bull. Soc. Myc. de Fr. 1895, p. 222. — 1788

Mycelio epiphylo, plagas atras, 1-2 mm. latis, orbiculares, dendriticas efficiente, ex hyphis prostratis, brunneis, 7-10 μ . latis, septatis, dendritico-ramosis; hyphopodiis capitatis, alternantibus vel suboppositis, stipitatis, inciso-lobatis v. 5-tuberculatis, 25 μ . altis, 15 μ . diam.; peritheciis globosis, 200-250 μ . diam., 1-2 centro macularum sitis, atris, rugosis, contextu grosse anguloso-celluloso, setulis paucis, brevibus, 100-120 \times 10, opacis, brunneis, septulatis, apice conicis, inferne sensim inflatis, rectis v. curvulis, e basi peritheciolorum ortis cinctis; ascis ellipsoideis, 2-3-sporis; sporidiis elongato-ovatis, utrinque rotundatis, 4-septatis constrictisque, 45-50 \times 20.

Hab. in foliis arboris ignotæ in Æquatoria (v. LAGERHEIM). —

M. microthecæ (Thüm.) affinis.

10. *Meliola subdentata* Pat. Journ. de Bot. 1897, p. 347. — Maculis 1789

sparsis, orbicularibus v. ovalibus, nigris, lanosis, foliis dense adherentibus, 4-8 mm. diam., mycelio crustaceo, ex hyphis brunneis ramosis, septatis 10 μ . crassis composito; hyphopodiis capitatis alternis, stipitatis, globulosis, circiter 20 μ . diam.; hyphopodiis mucronatis oppositis; setulis numerosis, apice acutis, incisus v. bidentatis; peritheciis globosis, nigris, paucis, 200-250 μ . diam., pariete e cellulis magnis prominentibus composito; ascis 2-3-sporis; sporidiis ovoideis, 56 \times 23, brunneis, utrinque obtusis, transverse 4-septatis, ad septa leniter constrictis.

Hab. ad folia Dracænæ in Tonkin.

11. *Meliola Arundinis* Pat. Journ. de Bot. 1897, p. 348. — Maculis 1790

sparsis nigris, 1-2 mm. latis, ovalibus; mycelio crustaceo, ex hyphis brevibus confertissimis brunneis composito; hyphopodiis capitatis rectis v. curvatis, stipitatis, 30 \times 10, cellula terminali ovoidea v. rotundata; peritheciis nigris, siccis depressis, angulosis, ostiolatis, 150-200 μ . diam.; setulis e mycelio præcipueque e basi peritheciolorum ortis, erectis, 200 μ . circiter longis, 10-12 μ . crassis, nigris, apice rubris pellucidisque ibique in ramulos duos divisus, interdum etiam ramulos 3-4 simplices v. divisos gerentibus; ramulis duobus 40 μ . circiter longis, divergentibus, utrinque bidentatis, rarius simplicibus, sæpe etiam uno simplici alteroque furcato; sporidiis cylindræis v. ovoideis, utrinque rotundatis, ad septa quattuor constrictis, 40-55 \times 20.

Hab. in foliis vivis Arundinis Donacis in Tonkin. — Ad *M. furcatam* proxime accedit.

CERATOCARPIA Roll. Bull. Soc. Myc. de Fr. 1896, p. 2, tab. I, fig. 3. (Etym. *ceras* cornu, et *carpos* fructus, quia sporidia appendicibus ornata). — Perithecia superficialia, minuta, globosa, astoma, membranacea, fusca, in subiculo conidiophoro dematiaceo insidentia. Asci octospori, ovati, aparaphysati. Sporidia muriformia, colorata, utrinque appendicibus ornata.

1. **Ceratocarpia Cactorum** Roll. l. c. — Peritheciis minutis, globosis, 1791 astomis, parenchymaticis, 130 μ . latis, olivaceo-fuscis, parce gregatis, e subiculo dematiaceo oriundis; ascis subglobosis, ovatis, breve stipitatis, 50-70 \times 30, aparaphysatis, 8-sporis; sporidiis conglobatis, oblongis, transverse 3-7 circiter constricto-septatis, cum multis septis longitudinalibus, primo hyalinis, dein melleis, tandem olivaceo-fuscis, sæpe guttatis, rostro hyalino, recto vel curvo, plus minus longo, in utraque extremitate præditis, 20-35 \times 10, rostris exceptis.

Hab. in spinis Cacti Opuntia emortui, Golfe Juan Gallia.

Trib. 4. Capnodiæ Sacc.

LIMACINIA Neger in Johow Estud. sobre la flora de las Isl. de Juan Fernandez, Santiago 1896, p. 190 c. fig. (Etym. a *leimax*, limax, quia sæpe viscida.). Est *Capnodium* peritheciis ascophoris subglobosis (nec tereti-elongatis nec ramosis), sporidiis oblongis subtriseptatis, hyalinis v. fuscis, raro murali-divisis. — Genus sistit species capnodioideas, quæ in *Sylloge fungorum* perperam Meliolæ subjunguntur. Antennariæ species quædam forte Limaciniam quoque spectant. Ad *Limaciniam* ducendæ videntur species sequentes:

* peritheciis calvis

Limacinia fernandesiana Neger. l. c.

L. melioloides (Pat. sub *Capnodio*) Sacc. Hedw. 1897, p. XX.

L. capnodioides (Thüm. sub *Meliola*) Sacc. l. c.

L. fuliginoides (Rehm sub *Capnodio*) Sacc. l. c.

L. Citri (Br. et Pass. sub *Apiosporio*) Sacc. l. c.

L. Mori (Catt. sub *Capnodio*) Sacc. l. c.

L. Abietis (Cooke sub *Apiosporio*) Sacc. l. c.

L. Penzigi (Sacc. sub *Meliola*) Sacc. l. c.

L.? *Tetraceræ* (F. Müll. et Thüm. sub *Meliola*) Sacc. l. c.

L. crassa (Pat. sub *Capnodio*) Sacc. l. c.

** peritheciis setosis

- L. Camellice* (Catt. sub *Fumagine*) Sacc. l. c.
L. mucronata (Mont. sub *Capnodio*) Sacc. l. c.
L. pelliculosa (B. et Rav. sub *Capnodio*) Sacc. l. c.
L. grandispora (E. et Mart. sub *Capnodio*) Sacc. l. c.
L. fenestrata (E. et Ell. sub *Meliola*) Sacc. l. c.

1. **Limacinia fernandesiana** Neg. l. c. — Mycelio mucilaginoso fusco-1792
 nigro, ramoso-contexto, colliculoso, crasso; conidiis fusoideis pluri-
 septatis, brunneis, acrogenis, 70-150 μ . longis; peritheciis ascopho-
 ris subglobosis, subastomis; ascis ovatis basi acutatis, octosporis;
 sporidiis distichis, ellipsoideo-oblongis, 3-septatis, non constrictis
 (hyalinis?); spermogoniis ex hyphis antennarioideis oriundis globu-
 losis, substipitatis; sporulis exiguis, ovoideis, continuis, hyalinis.

Hab. ad folia arborum in insula Juan Fernandez late diffusa.

2. **Limacinia Resinæ** Sacc. et Bres. Malpighia XI, 1897, p. 322. 1793
 — Mycelio conidiophoro *Helminthosporii Resinæ*; peritheciis sub-
 globosis in eodem mycelio interseminatis, 120-200 \approx 100-180, asto-
 mis, atris; ascis crasse ovatis, breve et abrupte stipitatis, subocto-
 sporis; sporidiis subtristichis, oblongo-ellipsoideis, utrinque rotun-
 datis, 3-septatis, non constrictis, 30-32 \approx 12, fuscis.

Hab. in resina adhærente Laricis europææ in agro Tri-
 dentino (BRESADOLA).

3. **Limacinia crassa** (Pat.) Sacc. Hedw. 1897, p. XX, *Capnodium* 1794
crassum Pat. Bull. Soc. Myc. de Fr. 1895, p. 223. — Mycelio atro,
 ex hyphis prostratis, flavo-brunneis, ramosis, articulis subglobosis,
 magnis, 16-23 μ . crassis, concatenatis composito, plagas atras, cras-
 sas, irregulares formante; peritheciis ovoideis, brunneis, circiter
 200-300 μ . altis, coriaceis, cellulis globosis, 20 μ . latis compositis;
 ascis clavatis, apice obtusis, 70-85 \approx 20-25, octosporis, aparaphysa-
 tis; sporidiis distichis, ellipsoideis, utrinque acutis, fuliginosis, trans-
 verse triseptatis, 16-26 \approx 7-10.

Hab. in foliis Melastomaceæ cujusdam in Æquatoria (v.
 LÄGERHEIM).

4. **Limacinia melioides** (Pat.) Sacc. Hedw. 1897, p. XX, *Capnodium* 1795
melioides Pat. Bull. Soc. Myc. de Fr. 1895, p. 222. — Mycelio
 atro, ex hyphis fuliginosis, repentibus, ramosis, articulatis, articulis
 elongatis v. ovoideis, grosse 1-guttulatis, 5-9 μ . longis composito,
 maculas atras, crustosas formante; peritheciis ovoideis, 110 \approx 80 μ .

contextu celluloso, coriaceo, (cellulis ovoideis, 5-9 μ . diam.); ascis clavatis, 8-sporis, aparaphysatis; sporidiis distichis, hyalinis, elongato-oblongis, transverse 3-septatis, utrinque obtusiusculis, 18-20 \approx 6-7.

Hab. in foliis Urticaceæ cujusdam in Æquatoria (v. LAGERHEIM).

5. *Limacinia Callitris* (Mc Alp.) Sacc. et Syd. *Capnodium Callitris* 1796

Mc Alp. Proc. of the Linn. Soc. of N. S. Wales, 1896, p. 722. — Nigra, late effusa, ex hyphis atro-brunneis, repentibus, intricatis ramosis, septatis, moniliformibus, usque ad 14 μ . latis composita, ramis rigidis, brevibus, plerumque simplicibus, attenuatis; conidiis uniseptatis, oblongis v. ellipticis, variis; spermogoniis elongato-fusiformibus v. subhemisphæricis, atro-brunneis, apice viridulis, 84-130 \approx 50-66; spermatis hyalinis, muco gelatinoso obvolutis, 4-4 $\frac{1}{2}$ \approx 1; pycnidiis lageniformibus, obscure brunneis, ore hyalino-fimbriatis; pycnosporis ex hyalino flavo-brunneis, ellipsoideis, 5-septatis, 22-24 \approx 9-11, cellulis terminalibus sæpe hyalinis; peritheciis simplicibus, obscuris, irregulariter reticulatis, apice plus minusve globulosis v. ovalibus ibique in maturitate papillatis, 170-280 \approx 90-156; ascis fusioideo-clavatis, sessilibus, apice rotundatis, octosporis, 79 \approx 26; sporidiis initio hyalinis, dein pallide viridibus demumque atro-brunneis, oblongis, medio constrictis, 3-septatis, plerumque septo longitudinali percursis, 17-19 \approx 8-9 $\frac{1}{2}$.

Hab. in Callitre robusta, N. S. Wales Australiæ.

6. *Limacinia Lygodesmiæ* (Ell. et Ev.) Sacc. et Syd., *Capnodium* 1797

Lygodesmiæ Ell. et Ev. Proc. Acad. Philad. 1895, p. 414. — Caulicola, crustam subtilem, sordide luteo-griseam formans, ex hyphis dense septatis, 4-6 μ . crassis laxè intricatis composita; peritheciis numerosis, globosis, ovatis v. oblongo-ellipticis, 20-90 \approx 20-40, apice obtusis, dense celluloso-olivaceo-tunicatis; ascis non visis; sporidiis oblongo-ellipticis, non numerosis, 5-8 \approx 3, hyalinis.

Hab. in caulibus vivis *Lygodesmiæ junceæ*, Colorado, Amer. bor.

CAPNODIUM Mont. — Syll. I, p. 73 IX, p. 438, XI, 270.

1. *Capnodium citricolum* Mc Alp. Proc. Linn. Soc. of New S. Wales, 1798

1896, part. IV, Sept. 30 th. p. 491, tab. XXIII-XXXIV. — Effusum, nigrum, crustaceum, sæpe totam foliorum superficiem occupans; hyphis hyalinis v. pallide viridibus repentibus, copiose ramosis, septatis, 6-8 $\frac{1}{2}$ μ . latis, ramis ascendentibus brevibus sim-

plicibus septatis, conidia hyalina v. pallide viridia continua univel biseptata sphaerica ovalia v. elliptica leniter constricta, $7\frac{1}{2}$ -24 \times 4-11 metientia, interdum moniliformia gerentibus; hyphis coloratis viridi-brunneis v. atro-brunneis, septatissimis, constrictis, parce v. copiose ramosis, rigidis, $9\frac{1}{2}$ -11 μ . latis, conidia brunnea plerumque elliptica uniseptata $7\frac{1}{2}$ -16 \times $5\frac{1}{2}$ -8 $\frac{1}{2}$ gerentibus; peritheciis, spermogoniis, antennariis, ceratopycniidiis ac pycniidiis intermixtis, opacis, atris, oblongis v. ovalibus v. difformibus, utrinque rotundatis, reticulatis, 112-250 \times 52-112; ascis cylindraceo-clavatis, subsessilibus, apice rotundatis, 4 vel 6 vel 8-sporis, 70-80 \times 19-20; sporidiis brunneis, oblongis, interdum subfusoides, typice utrinque obtusis, circa medium constrictis, 5-6-septatis, sæpe in longitudine septatis vel oblique septatis, distichis, interdum etiam tristichis, circiter 21-24 \times 8 $\frac{1}{2}$ -9 $\frac{1}{2}$; paraphysibus hyalinis, sæpe granulosis, elongato-clavatis, apice $9\frac{1}{2}$ μ . latis, ascos æquantibus.

Hab. in foliis Citri Aurantii et C. Limonium in Victoria, N. S. Wales, Queensland etc. Australiæ.

2. **Capnodium trichostomum** Speg. Rev. Agr. y Veter. La Plata, 1799 1896, p. 344. — Late effusum, nigrum, pelliculosum, substrato artiuscule adhærens, primo nudum, dein laxè breviterque setulosum, demum dense longèque hispido-lanatum; peritheciis primo simplicibus, dein sæpe ramulosis, deorsum cylindraceis, crassiusculis, 250-2000 μ . altis, 40-60 μ . crassis, subopacis, parenchymaticis, abrupto in ostiolum setiforme longissimum acutum prosenchymaticum productis; sporulis elliptico-cylindraceis, 5-12 \times 2-3 $\frac{1}{2}$, utrinque obtusiusculis, medio sæpe coarctatulis, primo continuis, hyalinis, dein chlorinis atque 1-septatis; mycelio ex articulis brevibus cylindraceis obtusis 10-15 \times 5-10, medio coarctatulis, grosse biguttulatis, olivaceis efformato.

Hab. in foliis ramisque Coffeæ arabicæ, quam maxime vexat, Costa-Rica.

3. **Capnodium Coffeæ** Pat.-Sacc. Syll. XI, p. 270 — Var. **Melastomatis** 1800 Pat. Bull. Soc. Myc. de Fr. 1895, p. 223. — Peritheciis parum ramosis, apice obtusis; cetera ut in typo.

Hab. in pag. sup. foliorum Melastomatis, Pulahua, Æquatoria.

4. **Capnodium graminum** Pat. Journ. de Bot. 1897, p. 348. — Mycelio crustaceo nigro, folia spicasque totas obtegente, ex hyphis brunneis velutinis, septatis, cylindraceis, dein moniliformibus, interdum in articulos 16 \times 8 secedentibus composito; peritheciis sparsis

v. aggregatis, erectis, rigidis, simplicibus, brunneo-fuliginis, subopacis, 160-230 μ . altis, ex hyphis transverse septatis compositis, basi in partem cylindraceam, 60 \approx 20-25 metientem, inflatis, sursum in collum elongatum gracillimum 100-130 \approx 8-10 abrupte attenuatis, apice inflatione hyalina ovoidea 30 \approx 20-23 metiente præditis; spermatis continuis, ovoideis, subhyalinis; 5 \approx 2; ascis sporidiisque nondum visis.

Hab. in inflorescentiis Cynodontis Dactyli, Tonkin.

5. **Capnodium stysanophorum** Penz. et Sacc. Malpighia XI, 1897, 1802 p. 390. — Thallo epiphylo, late effuso, adpresso, tenui-membranaceo, olivaceo-nigricante e lamellis flabellatis radiato-dendriticis, parallele-cellulosis formato; perithecorum initiis filiformibus, Stysani speciem sistentibus; stipitibus compositis, basi incrassatis, e thallo oriundis, nigricantibus, sporophoris adscendentibus, simplicibus, pallidis, densis ubique tectis, sporophoris mox in catenas conidiorum abeuntibus; conidiis globulosis v. cuboideo-globulosis, diu cohærentibus, hyalinis, 3-5 \approx 3 vel 4,2-5 μ . diam. — Stysani stipites paulatim conidia amittunt et, sporophoris conglutinatis, in perithecia subulata, recta, simplicia v. ramulosa, nigricantia abeunt, ostioli fimbriatulis pallidis; sporulæ nec sporidia visa.

Hab. in foliis vivis Panicis fumosi, Java.

Fam. 2. Sphæriaceæ Fr.

Sect. 1. Allantosporæ

MASSALONGIELLA Speg. — Syll. I, p. 89, IX, p. 442.

1. **Massalongiella ligustica** Pollacci, Atti Ist. bot. Pavia, 2 ser. V, 1803 1896, p. 6 extr. tab. III, fig. 3, 7, 8, 13. — Peritheciis glabris, sparsis, 400-600 μ . diam., lenticularibus, simplicibus, tectis, ostiolo minuto, contextu membranaceo, atro; ascis octosporis, cylindraceo subfusiformibus, pedicellatis, aparaphysatis, 100-150 \approx 10-15; sporidiis allantoideis, hyalinis, utrinque biguttulatis, 22-25 \approx 9-10.

Hab. in ramulis corticatis Piri in Italia bor.

ENCHNOA Fr. — Syll. I, p. 89, IX, p. 442, XI, p. 271.

1. **Enchnoa chætomioides** Penz. et Sacc. Malpighia XI, 1897, p. 390: 1804 — Peritheciis dense et late gregariis, innatis, dein erumpenti-superficialibus, globulosis, obtusis, atris, membranaceis, 200-350 μ . diam., tomentoso-velutinis, pilis bis ter dichotomo-ramosis, septa-

tis, fuliginis, 4-5 μ . crassis, apice pallidioribus, ob perithecorum proximitatem, stratum velutinum atro-fuscum formantibus; ostiolis initio rimulosis, tandem late circulariter apertis; ascis fusoido-clavatis, apice obtusulis, breve acute stipitatis, 24-28 \approx 5 $\frac{1}{2}$ -6 $\frac{1}{2}$, paraphysatis, 8-sporis; sporidiis distichis, allantoideis, curvatis, utrinque rotundatis, 6-7 \approx 1 $\frac{1}{2}$ -2, biguttatis, hyalinis.

Hab. in ramis putridis, Java. — A typo generis satis discrepans, ob pilos dichotome ramosos *Chætomium pannosum* in mentem revocat. Asci et sporidia fere *Eutypæ heteracanthæ*.

CALOSPHERIA Tul. — Syll. I, p. 95, IX, p. 447, XI, p. 272.

1. **Calosphæria acerina** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 134. 1805

— Peritheciis subcuticularibus, circinatis, 4-12 associatis, depressoglobosis, griseo-villosis, intus atris nitentibusque, ostiolis convergentibus, in discum minutum epidermidem elevantem demumque disrumpentem unitis, leniter prominulis; ascis clavatis, p. sp. 35-40 \approx 6; paraphysibus 80-100 μ . longis; sporidiis distichis, allantoideis, uno apice attenuatis, leniter curvulis, hyalinis, 8-12 \approx 2-2 $\frac{1}{2}$.

Hab. in ramis emortuis *Aceris*, Canada Amer. bor. (DEARNESS).

2. **Calosphæria Cratægi** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. XXXVI, 1897, 2 part. p. 10, tab. A fig. 3. — Peritheciis globulosis, non collabascantibus, $\frac{1}{3}$ mm. diam., glabris, sæpius in acervulos minutos congestis vel subsparsis, in cortice interiore nidulantibus, collis breviusculis inclinato-convergentibus vel erectis, papillatis; ascis clavatis, apice subtruncatis, deorsum sensim attenuatis, 50-70 \approx 8; paraphysibus linearibus, septatis, 3 μ . crassis; sporidiis in ascis superiore parte 2-3-seriatis, cylindricis, curvulis, hyalinis, plasmate regulariter 4-partito, 12-14 \approx 3.

Hab. ad ramulum *Cratægi* pr. Liège Belgii. — Affinis *C. ambiguæ* Berl., sed crusta stromatica nulla et ostiolo distincto diversa videtur.

3. **Calosphæria tetraspora** Schroet. Kryptog-Florä v. Schlesien. 1897, 1807

p. 453. — Peritheciis subepidermicis, 2-5 consociatis, nigris, poro minuto conico pertusis, dilute luteolo-pilosis; ascis clavatis, in stipitem brevem excurrentibus, 20-24 \approx 7,9, 4-sporis; sporidiis distichis, cylindræis, curvulis, 12-14 \approx 2-2 $\frac{1}{2}$, hyalinis.

Hab. in ramis emortuis *Sorbi Aucupariæ*, socia *Valsa leucostoma* in Silesia.

4. **Calosphæria Kriegeriana** Niessl, Hedw. 1896, p. (143). — Peri- 1808

theciis irregulariter dense stipatis, mox circinantibus, mox inordinatis, in cortice interiore nidulantibus, rarius liberatis, soros oblongos, per peridermium vix elevatum, fissum erumpentes formantibus, minutis, ca. $\frac{1}{3}$ mm. diam., atris, glabris, coriaceis, subovoideis, in collum attenuatis, crassum breve, perithecorum diametro vix æquans, cylindricum adscendenti-curvatum; ascis cuneiformi-clavatis apice obtusissimis, truncatis, octosporis, 50-70 \times 9-12; sporidiis in ascorum superiore parte farctis, cylindricis, obtusis, curvulis, unicellularibus, subhyalinis, 9-12 \times 2-3; pseudoparaphysibus longissimis, latis, septatis.

Hab. in ramis siccis Pruni spinosæ pr. Königstein Saxonix (KRIEGER).

5. **Calosphæria alpina** Sacc. Malpighia XI, 1897, pag. 295. — Peritheciis late et dense gregariis, ligno adnatis corticeque secedente nudatis, globulosis, aterrimis, plerumque solitariis, raro binis connatis, 200 μ . diam., ostiolis breve papillatis, mox secedentibus porumque orbicularem relinquentibus; ascis clavatis apice rotundatis, 30-32 \times 5, octosporis; paraphysibus bacillaribus,asco longioribus, guttulatis; sporidiis distichis v. oblique monostichis, allantoideis, parce curvatis, 6 \times 2, biguttulatis, hyalinis.

Hab. in cortice Cytisi alpini, Riva-Valdobbia, Italia (CARESTIA). — *C. minimæ* affinis.

6. **Calosphæria microtheca** (C. et E.) Sacc. Syll. I, p. 97. — Var. **Rosmarini** Roll. Bull. Soc. Myc. de Fr. 1896, p. 2, tab. II, fig. 1. — Peritheciis nigris, sub cortice in stromate dense nidulantibus, $\frac{1}{4}$ mm. latis, longo aut brevi rostro filiformi instructis; ascis clavatis, minutissimis, in stipitem brevem desinentibus, 20 \times 5, octosporis; sporidiis allantoideis, subdistichis, 5 \times 1; paraphysibus tenuibus, filiformibus, longe superantibus.

Hab. in ligno Rosmarini, Golfe Juan Gallix.

7. **Calosphæria microtheca** (Cke. et Ell.) Sacc. Syll. I, p. 97. — F. **Salicis albæ** Fautr. Rev. Mycol. 1897, p. 53. — Peritheciis nigris, sub cortice gregariis, plus minus longe rostratis; ascis piriformibus, diffuentibus, breve stipitatis, 20 \times 5; sporidiis hyalinis, allantoideis, 5 \times 1.

Hab. in ramis Salicis albæ in Gallia.

CORONOPHORA Fuck. — Syll. I, p. 103.

1. **Coronophora gregaria** (Lib.) Fekl.-Sacc. Syll. I, p. 103. — Var. **Tiliæ** Vogl. Bull. Soc. bot. Ital. 1896, p. 40. — Peritheciis den-

sissime sociatis, magnis, subglobosis, aterrims, verruculosis, apice late perforatis; ascis clavatis, in pedicellum longum attenuatis, lumine plus minus tenui 70-80 \times 16; pseudoparaphysibus filiformibus, septatis, ascis duplo longioribus; sporidiis numerosissimis, cylindræis, curvulis, pallide luteis, 7-8 \times 2.

Hab. in ramis corticatis Tiliæ, Canton Ticino in Helvetia ital.

2. **Coronophora obvallata** (Oth) Sacc. et Syd. *Calosphaeria obvallata* 1813

Oth ap. Jacz. Bull. Boiss. 1896, p. 79. — Peritheciis minutis, subglobosis, piriformibus, orbiculatim dispositis, cortice inflato tectis; ostiolis in rostrum elongatis, in discum emergentibus; ascis ellipsoideis, pedicellatis; p. sp. 45 \times 10; paraphysibus vix conspicuis; sporidiis numerosis, agglomeratis, cylindræo-obtusis, arcuatis, hyalinis, 5-6 \times 1-2.

Hab. in ramis Platani pr. Bern Helvetiæ (Oth).

3. **Coronophora occulta** (Oth) Sacc. et Syd. *Calosphaeria occulta* Oth 1814

Bern. Mittheil. 1870, p. 96. — Peritheciis subsolitariis inter corticis strata infima latentibus v. leviter immersis sed subliberis, difformibus valde depressis, atris, 1-2 mm. lat., subtiliter tuberculosis; ostiolo obsolete papillato deorsum h. e. lignum spectante; nucleo cinereo; ascis oblongis v. obovatis, sub apice late obtuso sæpius leniter angustatis, in pedicellum longum filiformem productis, myriosporis; sporidiis perexiguis, cylindræis, curvis.

Hab. in truncis Abietis excelsæ in Helvetia.

VALSA Fr. — Syll. I, p. 108, IX, p. 449, XI, p. 273.

1. **Valsa Amorphæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 133. — 1815

Peritheciis circinatis, 6-10-consociatis, cortice interiore immersis, ovato-globosis, 300-350 . diam., dense celluloso-tunicatis, inferne sæpe collabentibus, in colla firma cylindrica convergentia contractis; ostiolis obtuse conicis, levibus, atris, epidermidem perforantibus, initio interdum in discum atrum conjunctis; ascis clavato-cylindræis, 75-80 \times 10-12, obscure paraphysatis, 8-sporis, stipitatis; sporidiis subdistichis, allantoideis, sæpe initio ellipticis, hyalinis, 10-18 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in ramis emortuis Amorphæ fruticosæ, Kansas Amer. bor. (BARTHOLOMEW).

2. **Valsa opulina** Sacc.-Syll. IX, p. 451. — Forma **Lantanæ** Bres. 1816

Malpighia XI, 1897, p. 295. — Ascis octosporis, 45-60 \times 7-12; sporidiis 15-16 \times 3.

Hab. in ramis siccis Viburni Lantanæ in Italia bor.

3. **Valsa macrocarpa** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 280. — 1817
Peritheciis ovato-globosis, circiter $\frac{1}{2}$ mm. diam., 15-30 in stromate corticali associatis, e mutua pressione subangulosis; ostiolis erumpentibus, nigris, apice rotundatis, demum applanatis ac umbilicatis; disco dilute brunneo; ascis clavato-cylindræis, p. sp. 23-30 \times 5-6; sporidiis distichis, allantoideis, valde curvatis, hyalinis, 6-7 \times 1 $\frac{1}{4}$ -1 $\frac{1}{2}$.

Hab. in ramis emortuis *Quercus macrocarpæ*, Kansas Amer. bor. (BARTHOLOMEW).

4. **Valsa Celtidis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 133. — 1818
— Stromatibus corticalibus, junioribus multicellularibus et orbicularibus; peritheciis circinatis, matrice immutata corticis interioris immersis, ovatis, dense celluloso-et membranaceo-tunicatis, circiter $\frac{1}{2}$ mm. diam., in collum convergens contractis; ostiolis in discum nigrum erumpentem unitis; ascis oblongo-lanceolatis, 40-50 \times 13-15; sporidiis distichis, oblongis v. oblongo-ellipticis, lenissime curvulis, 14-18 \times 5-6, utrinque rotundatis v. obtusis; spermatis allantoideis, hyalinis. 5-6 \times 1 $\frac{1}{4}$. in cirros subnigros crassos ceraceos protrusis.

Hab. in ramis emortuis *Celtidis occidentalis*, Kansas Amer. bor. (BARTHOLOMEW).

5. **Valsa brevis** Peck, Bull. Torr. Bot. Club. 1895, p. 210. — Stro- 1819
matibus numerosis, prominentibus; peritheciis 10-20 v. pluribus in quoque stromate, in cortice interiore nidulantibus; ostiolis nigris, emergentibus, discum orbicularem v. ellipticum, erumpentem, subpulverulentum aspergentibus v. oblitterantibus; ascis 21-26 μ . longis; sporidiis allantoideis, 6 $\frac{1}{4}$ -7 $\frac{3}{4}$ μ . longis.

Hab. in cortice *Abietis balsamæ*, Labrador (WAGHORNE).

6. **Valsa acericola** Otth, Bern. Mitth. 1870 p. 98. — Pustulis gre- 1820
gariis pulvinatis ambitu leniter colliculosis; peritheciis stromate corticali immersis, circinantibus et subdecumbentibus; collis convergentibus, ostiolis incrassatis prominentibus arcte congestis et discum totaliter oblitterantibus; ascis elongato-ellipsoideis aut subfusiformibus, octosporis; sporidiis distichis elongato-ellipsoideis, curvulis, obtusis, 16-26 \times 3-4, flavidis.

Hab. in ramis *Aceris Pseudoplatani* pr. Bernam in Helvetia, socia *Cytospora*.

- Valsa Melanodiscus** Otth, Bern. Mittheil. 1870, p. 97. — Pustulis 1821
corticis pulvinatis, ambitu aliquantulum colliculosis; stromate minuto fulvo e matrice formato; peritheciis congregatis, membranaceis, globoso-subdepressis, collis convergentibus, ostiolis in disco

exserto placentiformi-dilatato, nigro-fusco sparsis; ascis fusoideo-clavatis, 8-sporis; sporidiis cylindraceo-curvulis, 8-11 \approx 1,5, hyalinis.

Hab. in ramis Alni incanæ in Helvetia.

8. **Valsa Platanoidis** Otth, Bern. Mittheil. 1868, p. 97. — Gregaria, 1823
leniter pustulata; peritheciis corticis strato supremo immersis, inordinatis. sæpe paucis, immo solitariis; collis exilibus, convergentibus, ostiolis incrassatis in disco cinereo prominulis v. sæpius eum prorsus oblitterantibus; ascis fusoideis, basi breviter rostratis; sporidiis octonis, cylindraceis, obtusissimis, curvulis rectisve, 16-22 \approx 4-6, hyalinis.

Hab. in ramis Aceris platanoidis pr. Bernam Helvetiæ, socia *Cytospora*.

9. **Valsa socialis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 132. — 1823
Stromatibus circinatis v. gregariis, corticalibus, linea nulla circumscriptis, minutis, 1-2 mm. epidermidem in pustulas minutas orbiculariter dispositas elevantibus; peritheciis cortice immutato immersis, 1-6 in quoque stromate, $\frac{1}{2}$ mm. diam., in colla tenuia abrupte contractis; ostiolis minutis nigris, initio disco pallide albo tectis, demum erumpentibus sed non exsertis; ascis subcylindraceis, p. sp. circiter 60 \approx 6; sporidiis subdistichis, allantoideis, obtusis, modice curvulis, hyalinis, 12-16 \approx 2 $\frac{1}{2}$ -3.

Hab. in ramis corticatis Salicis cordatæ, Kansas Amer. bor. (BARTHOLOMEW).

10. **Valsa leucopsis** Ell. et Ev. Proc. Acad. Philad. 1895, p. 425. — 1824
Stromatibus depresso-conicis, $\frac{3}{4}$ -1 mm. diam., orbicularibus, apice erumpentibus et niveis; peritheciis 6-12 in quoque stromate, circinatis, circiter 150 μ . diam., sursum in colla gracilia abrupte contractis, disco niveo; ostiolis punctiformibus, erumpentibus, nigris; ascis clavato-cylindraceis, 22-27 \approx 5-6; sporidiis sursum in asco distichis, allantoideis, hyalinis, leniter curvulis, 5-6 $\frac{1}{2}$ \approx 1-1 $\frac{1}{2}$.

Hab. in cortice Fraxini viridis (?), Nebraska, Amer. bor.

11. **Valsa albopuncta** Ell. et Ev. Field Columb. Mus. IX, 1896, 1825
p. 133. — Stromatibus minutis, $\frac{1}{2}$ -7 $\frac{1}{2}$ mm. diam., subseriatim dispositis, epidermide inclusis nec in corticem interiorem penetrantibus, omnino albis, nulla linea distincta circumscriptis; peritheciis 3-6 in quoque stromate, pallide ardesiacis, 110-130 μ . diam., in collum tenue attenuatis; ostiolis minutis, subglobosis, ardesiacis, tandem circum marginem disci minuti nivei pulverulenti erumpentibus; ascis clavato-cylindraceis, 50 \approx 6, breviter stipitatis, apice

obtusis, paraphysatis?; sporidiis distichis, allantoideis, hyalinis, modice curvulis, $6-9 \approx 1\frac{1}{2}-2$.

Hab. in ramis emortuis Liriodendri Tulipiferi in W. Virginia Amer. bor. (NUTTALL).

EUTYPELLA (Nits.) Sacc. — Syll. I, p. 145, IX, p. 460, XI, p. 274.

1. **Eutypella Sarcobati** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 462. 1826

— Stromatibus corticalibus, orbicularibus, $1\frac{1}{2}$ mm. diam., linea nigra angusta cinctis, superficiem ligni nigrificantibus; peritheciis 3-8, ligno immersis, globosis, $\frac{1}{2}$ mm. diam., coriaceo-tunicatis, intus nigris et nitentibus, supra in colla tenuia abrupte contractis; ostioliis erumpentibus, connatis, conicis, 4-sulcatis; ascis (p. sp.) clavato-cylindraceis, $25-30 \approx 4-5$; sporidiis subdistichis, allantoideis, curvulis, hyalinis, $4-5 \approx 1-1\frac{1}{4}$.

Hab. in caulibus emortuis Sarcobati vermiculati, Colorado Amer. bor.

2. **Eutypella herbicola** Ell. et Ev. Proc. Acad. Philad. 1895, p. 426. 1827

— Stromatibus elongatis, 5-6 cm. longis, 2-3 mm. latis, extus schistaceis, linea nigra caulem penetrante circumscriptis; peritheciis globosis, 300-450 μ . diam., non profunde innatis, solitariis v. 3-10 valsoideo-consociatis; ostioliis erumpentibus, tuberculoso-globosis v. breve cylindraceis, apice incrassatis, quadrisulcatis, ascis p. sp. fusoido-clavatis, $30-35 \approx 5-6$, stipite gracili; paraphysibus obscuris v. nullis; sporidiis allantoideis, luteolis, leniter incurvis, obtusis, $6-8 \approx 1\frac{3}{4}-2$.

Hab. in caulibus emortuis Asteris cordifolii, Ohio Amer. bor. (MORGAN).

3. **Eutypella Rosæ** Otth, Bern. Mittheil. 1870, p. 97 (*Valsa*). — 1828

— Laxe gregaria; peritheciis in orbem congestis, stromate parco albido obsolete nigrolimitato ad lignum demersis, subglobosis; collis tenuibus fasciculatis, sursum incrassatis, ostioliis nigris nitidulis in discum erumpentem leniter prominulis stipatis; ascis pusillis, clavatis, octosporis; sporidiis exiguis, $10 \approx 2$, hyalinis.

Hab. in ramis emortuis Rosæ caninæ in Helvetia.

4. **Eutypella Mahoniæ** P. Brun. Act. Soc. Linn. Bordeaux, 1890, 1829

p. 55 extr. — Stromate valsoideo, cortice immerso, conico; peritheciis 6-8 consociatis, globosis, in collum breve elongatis, ostiolo brevi v. plus minusve elongato donatis, crassis, sulcatis; ascis cylindraceo-clavatis, $55-60 \approx 5-6$; sporidiis distichis, cylindraceis, curvatis, $12-14 \approx 2\frac{1}{2}-3$, subhyalinis.

Hab. in ramis emortuis Mahoniæ Aquifolii in Gallia (FLAGOLET).

5. **Eutypella Tiliæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 280. — 1830

Stromate corticali, nulla linea circumscripto; peritheciis circinatis, ovato-globosis, $\frac{1}{2}$ mm. diam., cortice interiore immersis, collis convergentibus ac in fasciculum erumpentem ex ostiolis ovato-conicis quadrisulcatis compositum terminatis; ascis clavato-cylindraceis, cum stipite gracili 40 μ . longis, p. sp. 22-35 \times 3, paraphysatis, octosporis; sporidiis in asco superne distichis, allantoideis, hyalinis, 4-4 $\frac{1}{2}$ \times 1.

Hab. in cortice emortuo Tiliæ americanæ, Canada Amer. bor. (MACOUN).

6. **Eutypella Populi** Ell. et Ev. Americ. Natur. 1897, p. 342. — Stro- 1831

matibus orbicularibus, convexis, 1-2 mm. diam., ligno insidentibus, epidermidem in pustulas elevantibus, sed non circumscriptis; peritheciis 12-30 in uno stromate, confertis, ovato-globosis, circiter $\frac{1}{4}$ mm. diam.; ostiolis breve cylindraceo-conicis, fasciculatim erumpentibus, distincte quadrisulcatis; ascis ca. 20 \times 4; sporidiis subdistichis, allantoideis, leniter curvulis, brunneolis, 4-5 \times 1-1 $\frac{1}{4}$.

Hab. in ramis emortuis Populi in Canada (MACOUN).

7. **Eutypella Fici** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 133. — 1832

Peritheciis 4-6 subcircinatis associatis, depresso-globosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., cortice interiori immutato immersis, in ligno non penetrantibus nec linea nigra circumscriptis, superficiem corticis æqualiter nigrificantibus; ostiolis breve cylindraceis, apicibus subacutis 4-sulcatis, epidermidem fasciculatim perforantibus; ascis clavatis, p. sp. 15-20 \times 3 $\frac{1}{2}$ -4; sporidiis subdistichis, flavis, allantoideis, curvulis, 3-3 $\frac{1}{2}$ \times 1.

Hab. in ramis emortuis Fici, Louisiana Amer. bor. (LANGLOIS).

— An varietas *Eutypellæ capillatæ*?

8. **Eutypella alpina** Ell. et Ev. Proc. Acad. Philad. 1895, p. 425. — 1833

Stromatibus ligno immersis, depresso-conicis, orbicularibus v. ellipticis, 3-4 mm. diam., intus albis, extus subcarbonaceis, nigris, linea nigra lignum penetrante circumscriptis; peritheciis 20-30 in quoque stromate, monostichis, confertis, ovato-globosis, $\frac{1}{3}$ mm. diam., in colla gracilia contractis; ostiolis fasciculatis, firmis, subglobosis, quadrisulcatis, erumpentibus; ascis p. sp. 22-24 \times 4-5, longe stipitatis; paraphysibus firmis, guttatis, ascos superantibus; sporidiis subdistichis, allantoideis, luteolis, modice curvatis, 7-10 \times 1 $\frac{1}{2}$ -2.

Hab. in truncis emortuis Alni in canæ, Colorado, Amer. bor.
(BAKER.)

EUTYPA Tul. — Syll. I, p. 162, IX, p. 466, XI, p. 275.

Eutypa bambusina Penz. et Sacc. Malpighia XI, 1897, p. 501. — 1834
Stromate corticali longe protracto, leviter matricem infuscante; acervulis longitudinaliter dispositis, erumpentibus, elongatis, peridermio arcte fisso, atrato cinctis, 1-2,5 mm. long. vix 0,7 mm. cr.; peritheciis in quoque acervulo numerosis, minutis, intus et extus nigris, 100-150 μ . diam., ostiolis vix exstantibus, rotundatis, levibus (non sulcatis); ascis jam resorptis; sporidiis allantoideis, subhyalinis, 2-guttatis.

Hab. in culmis emortuis Bambusæ, in Horto bot. Bogoriensi ins. Java. — Ab affini *E. arundinacea* Sacc., F. ital., t. 158, ostiolis integris, sporidiis conspicue minoribus differt.

2. **Eutypa lata** (Pers.) Tul.-Sacc. Syll. I, p. 170. — Var. **Macrochloæ** 1835
Pat. Cat. rais. pl. cell. Tunisie 1897, p. 101. — Stromatibus epidermidem nigreficantibus; peritheciis minutis ovoideis, e pressione mutua angularibus; ostiolis cylindræis, brevibus, erectis, epidermidem perforantibus et nervos æquantibus; ascis longe stipitatis; sporidiis distichis, cylindræis, curvatis, luteolo-fuliginæis, 8-10 \times 2

Hab. in culmis emortuis Macrochloæ tenacissimæ in Tunisia.

3. **Eutypa æmula** Penz. et Sacc. Malpighia XI, 1897, p. 500. — 1836
Stromate corticali late effuso, vix conspicuo; acervulis pulvinatis, erumpentibus, suborbicularibus v. ovatis, sæpe confluentibus, depressis, nigris, 0,5-1 mm. lat., ob ostiola vix, rarius breviter emergentia rugulosis, ostiolis obsolete rimulosis; peritheciis globosis, in quoque acervulo 8-12, matrice stromatica alba vestitis, 0,4-0,3 mm. diam.; ascis cylindræo-clavatis octosporis, 28-30 \times 5-6, p. sporif.; stipite 15-20 μ . long.; sporidiis subdistichis, allantoideis, 6-7 \times 2 dilutissime melleis.

Hab. in ramis emortuis arboris cujusdam, Tjibodas ins. Java. — Formæ eutypelloidæ *Eutypæ ludibundæ* Sacc. omnino æmula, sed ostiola subintegra et sporidia conspicue minora. Interdum in ligno adest linea stromatica nigra plures acervulos amplectens, nec singulos acervulos, ut in *Eutypella*.

CRYPTOSPHÆRIA Grev. — Syll. I, p. 182, IX, p. 470.

1. **Cryptosphæria sárosiensis** Hazsl. Math. es term. Közlem. XXV, 1837

2, Budapest 1892, p. 213, t. XIV, fig. 57. — Peritheciis gregariis sed inordinate dispositis, globosis, solummodo ostiolis epidermidem perforantibus; ascis clavatis intermixtis paraphysibus filiformibus; sporidiis distichis, 10-12 μ . longis.

Hab. in ramis tenuissimis Corni sanguineæ et C. albæ in Hungaria. — Perithecia in parte suprema ramorum non habent ascos, sed acrosporas, ab ascosporis nec forma nec magnitudine diversas.

2. **Cryptosphæria juglandina** Ell. et Holw. Bull. Lab. Nat. Hist. 1838
Jowa, 1895, p. 41. — Stromatibus effusis, continuis v. interruptis, 2-4 cm. longis, corticulis, epidermidem pallidiorem elevantibus; peritheciis numerosis, ovato-globosis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., confertis; ostiolis obtusis, erumpentibus, plerumque 4-6 consociatis, epidermidem perforantibus; ascis clavatis, longe stipitatis, 110 μ . longis p. sp. 60 \approx 10, octosporis, obscure paraphysatis; sporidiis irregulariter confertis, allantoideis, luteo-brunneis, continuis, modice curvulis, obtusis, 15-20 \approx 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in ramis emortuis Juglandis cinereæ, Jowa, Amer. bor. (HOLWAY).

CRYPTOVALSA Ces. et De Not. — Syll. I, p. 187, IX, p. 471, XI, p. 276,

1. **Cryptovalsa Coryli** Vogl. Bull. Soc. bot. Ital. 1896, p. 40. — 1839
Stromate longe lateque effuso, ligni superficiem infuscante; peritheciis monostichis, stipitatis, immersis, sphaericis, cortice rimoso tectis, collo cylindrico, ostiolo crassiusculo, cylindraceo, vertice rotundato, late pertuso; ascis clavatis, apice rotundatis, longissime stipitatis, polysporis, 50-60 \approx 15, stipite 40 μ . longo; sporidiis conglobatis, minutissimis, eguttulatis, curvulis, luteis, 6-8 \approx 2.

Hab. in ramis corticatis Coryli Avellanæ, Canton Ticino in Helvetia italica.

DIATRYPE Fr. — Syll. I, p. 191, IX, p. 472, XI, p. 276.

1. **Diatrype linearis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 134. — 1840
Stromatibus angustis, 2-6 mm. longis, 1 mm. latis, superficie ligni immersis, erumpentibus sed tantum leniter prominulis, apice subapplanatis, ubique fibris ligni limitatis, utrinque acutis; peritheciis 6-15 in quoque stromate immersis, globosis, crasse coriaceo-tunicatis, 400-500 μ . diam., intus albidis, supra ostiolis papilliformibus vel subconicis vix prominulis asperatis; ascis p. sp. 60 \approx 7, in stipitem

filiformem attenuatis, paraphysatis, 8-sporis, cum stipite 120 μ . longis; sporidiis sursum in asco subdistichis, allantoideis, brunneolis, leniter curvulis, 7-10 \approx 2-2 $\frac{1}{2}$.

Hab. in ligno Eucalypti Globuli in California. — Aspectu externo stromata *Glonium lineare* optime simulant.

2. *Diatrype Saccardoï* Syd. in litt. *Diatrype parvula* Penz. et Sacc. 1841
Malpighia XI, 1897, p. 501, nec Berl. — Stromatibus gregariis, erumpentibus, cortice cinctis, parvulis (1-1,5 mm. diam., 0,5 mm. alt.), extus atris, intus candidis; peritheciis monostichis, 10-15 in quoque stromate, erectis, oblongis, 0,1-0,2 mm. latis, ostiolis vix prominentibus, punctiformibus vel verruciformibus, pariete perithecii extus candido, intus nigrescente; ascis clavatis, stipitatis, octosporis, part. sporif. 20-22 \approx 5-6; sporidiis allantoideis, hyalino-flavidis, utrinque obtusis, curvulis, 6-8 \approx 2, biguttulatis.

Hab. in ramulis Podocarpi (?), Tjibodas, ins. Java. — Affinis *D. laurinae* Rehm, sed videtur differre sporidiis paullo angustioribus, flavidis, ascis quoque angustioribus, matrice etc.

3. *Diatrype trifida* Ell. et Macbr. Bull. Labor. Nat. Hist. Univ. 1842
Jowa IV. 1896, p. 71. — Stromatibus placoideis, 2 $\frac{1}{2}$ -3 cm., duris, carbonaceis, e ligni superficie parum prominentibus; peritheciis oblongo-ovatis, 1-1 $\frac{1}{2}$ mm. diam.; ostiolis emergentibus, brevibus, conico-cylindraceutis; ascis 15-20 \approx 3-3 $\frac{1}{2}$, stipite filiformi donatis; sporidiis partim distichis, allantoideis, hyalinis, 3 \approx 1.

Hab. in ligno vetusto pr. Tehuantepec, Mexico (СМИТН).

4. *Diatrype (Pachytrype) princeps* Penz. et Sacc. Malpighia XI, 1897, 1843
p. 501. — Stromatibus erumpentibus, majusculis, pulvinatis, 8-9 mm. lat., intus duris, compactis, atro-virentibus; peritheciis globulosis, minutis, vix $\frac{1}{2}$ mm. d., tenui-membranaceis, poly-(4-5)-stichis, ostiolis filiformibus, dense fasciculatis, levibus, nigris, 0,7 mm. long. ascis jam fere elapsis; sporidiis distichis allantoideis, leniter curvis, 5-6 \approx 1, perfecte hyalinis.

Hab. ad ramos emortuos in Pangerango, ins. Java. — Ob stroma compactum et toto habitu a *Diatrype* recedit et forte genus novum (*Pachytrype*) sistit; sed exemplaria non omnino perfecta.

DIATRYPELLA Ces. et De Not. — Syll. I, p. 200, IX, p. 477, XI, p. 277.

1. *Diatrypella Fraxini* Ell. et Ev. Proc. Acad. Philad. 1895, p. 426. 1844
— Stromatibus corticalibus, convexis, 2-3 mm. diam., linea nulla circumscriptis; peritheciis 8-12 in quoque stromate, globosis, 250-

300 . diam.; ostiolis in discum brunneo-nigrum erumpentem conjunctis, subprominentibus, dein 4-fissis; ascis clavatis, 110×12 , longe stipitatis, polysporis, paraphysatis; sporidiis confertis, allantoideis, luteo-hyalinis, curvulis, $6-8 \times 1\frac{3}{4}-2$.

Hab. in ramis emortuis Fraxini viridis, Kansas, Amer. bor. (BARTHOLOMEW).

2. **Diatrypella obscurata** (Schw.) Ellis Proc. Acad. Philad. 1895, 1845 p. 27, *Sphaeria obscurata* Schw. in herb. — Stromate subcuticulari, 2-6 mm. diam., nigro, extus aspero, intus albido, in lignum penetrante, superficiem nigrificante, linea nigra circumscripto; peritheciis magnis, $\frac{3}{4}$ mm., solitariis v. 2-6 consociatis; ascis clavatis, $75-80 \times 12-15$, p. sp. circiter 50 . polysporis; sporidiis irregulariter confertis, in cumulo luteis, solitariis hyalinis, allantoideis, modice curvulis, utrinque nucleo magno præditis, $5-6 \times 1\frac{1}{4}$.

Hab. in ramis arboris cujusdam, Bethlehem, Pa. Amer. bor.

Sect. 2. Phæosporæ.

CERATOSTOMA (Fr.) Sacc. — Syll. I, p. 215, IX, p. 481, XI, p. 278.

1. **Ceratostoma robustum** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. XXXVI, 1897, 2 part. p. 10, tab. A. fig. 1. — Peritheciis superficialibus, globosis, basi hyphis repentibus fuscis obductis, ceterum glabris, atris, opacis, $\frac{1}{4}$ mm. diam., collo rigido, crasso, $400-500 \times 120$, subæquali, apice retuso; ascis paraphysatis, teretibus, 80×8 , octosporis; sporidiis monostichis, fuscis, reniformibus, plerumque biguttatis, $12-15 \times 5-7$, aliquando (extra ascos) subtiliter medio septatis.

Hab. in ligno fagineo adhuc duro pr. Liège Belgii.

2. **Ceratostoma albo-maculans** Ell. et Ev. Proc. Acad. Philad. 1895, 1847 p. 418. — Peritheciis totis innatis, magnis, 1 mm. diam., membranaceo-coriaceis, 1-3-consociatis; ostiolis erumpentibus, maculas albo-luteolas subellipticas 1-2 mm. diam. formantibus, ovato-conicis, nigris, levibus; ascis cylindræis, p. sp. $75-80 \times 7$, paraphysatis; sporidiis monostichis, inæquilateraliter ellipticis, obtusis, 1-2-guttulatis, olivaceis, $11-14 \times 5-6$.

Hab. in ligno putri, Ohio, Amer. bor. (MORGAN). — *C. Avocettæ* maculis albis proximum, sed differt peritheciis dimidio majoribus et etiam sporidiis majoribus.

3. **Ceratostoma melaspermum** Ell. et Ev. Proc. Acad. Philad. 1895, 1848

p. 417. — Peritheciis gregariis, innatis, depresso-globosis, membranaceis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., rostro atro erumpenti circiter 1 mm. longo donatis, obtusis, apice in discum minutum horizontalem circularem expansis, basi late tomentoso-pilosis e pilis dilute luteis; ascis cylindraceis, breve stipitatis, 65-75 \times 6-7, paraphysibus gracilibus; sporidiis monostichis, navicularibus, biguttulatis, 12-15 \times 5-6. hyalinis, dein opacis et subatris.

Hab. in ligno putrido, Ohio Amer. bor. (MORGAN)

4. **Ceratostoma biparasiticum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 1849 p. 127. — Peritheciis ovatis, 80-100 μ . diam. evolutis in subiculo mucedineo albo ex hyphis laxè intricatis hyalinis circiter 3 μ . crassis, partem inferiorem stipitis *Isariæ* formantibus conidiaque subglobosa hyalina 2 \times 1 $\frac{1}{2}$ μ . metientia gerentibus composito; rostro perithecorum griseolo-brunneo, fibroso, ca. 1 mm. longo, 35-40 μ . crasso; ascis clavato-lanceolatis, p. sp. 20 \times 6, breve stipitatis, octosporis, paraphysatis (?); sporidiis fasciculatis, oblongo-cylindraceis, olivaceis, 6-12 \times 1 $\frac{1}{2}$.

Hab. parasiticum in stipite *Isariæ* farinosæ, Ohio Amer. bor. (LLOYD).

CHÆTOMIUM Kunze — Syll. I, p. 220, IX, p. 484, XI, p. 279.

1. **Chætomium varium** Delacr. Bull. Soc. Mycol. de France, XIII, 1850 1897, p. 124, tab. X, fig. F. — Peritheciis variis, interdum subrotundis, aliis elongatis v. basi truncatis, atris, astomis, densiuscule aggregatis, circiter 200 \times 150 μ ., mycelio brunneo, septato, ramoso, usque 6 μ . lato; setis brunneolis, apice obtusatis, plerumque continuis, 250-300 μ ., simplicibus; ascis aparaphysatis, breviuscule clavatis, cito dilabentibus, 45 \times 11; sporidiis ovoideis, utrinque obtuse attenuatis, episporio crassiore, uni-vel sæpius biguttulatis, in asco hyalinis, sed liberis maturisque dilute brunneis, 9 \times 6.

Hab. in culmo graminis cujusdam in regione fluminis Guanaparo Venezuelæ (GEAY). — *Ch. lanoso* Peck et *Ch. comato* (Tode) Fr. affine.

2. **Chætomium Bartholomæi** Sacc. et Syd. *Chætomium setosum* Ell. 1851 et Ev. Americ. Natur. 1897, p. 340, nec Wint. — Peritheciis primo ovatis v. ovato-conicis v. etiam cylindraceo-conicis, dein obovatis, superne applanatis, basi contractis ideoque pseudostipitatis, 400-500 μ . altis, pilis erectis levibus atris, 150-200 μ . longis et basi 5-6 μ . crassis, apice acutis non ramosis vestitis; mycelio ex hyphis reticulatis asperis, circa basim pilis brunneis anbundulatis brevibus

obsito; ascis subellipticis, 10-12 \times 6-7; sporidiis ellipticis, brunneis. 4-5 \times 3-4 et 2-2 $\frac{1}{2}$ μ . crassis.

Hab. in fœno putrido in Kansas, Amer. bor. (BARTHOLOMEW).

— Pilis simplicibus glabris peritheciorum a *Ch. melioloide* diversum.

- 3 **Chætomium contortum** Peck, 49 Rep. Stat. Bot., N. York. 1896, 1852
p. 24. — Peritheciis subglobosis, circiter 1 mm. latis, fragilibus, nigris, subiculo ex hyphis gracilibus coloratis septatis composito ac setis levibus nigris, 5-6-ies spiraliter irregulariterque contortis 13-15 μ . crassis tecto; ascis fugacibus; sporidiis limoniformibus, uninucleatis, subhyalinis, 13 \times 8-10 $\frac{1}{2}$.

Hab. in bulbis Lili longiflori, New York Amer. bor.

— E vicinia *Chætomii streptotrichis*, *Ch. spiralis*, *Ch. crispatis* etc., sed cum nullo horum apte conjungendum

4. **Chætomium Montemartini** Cav. Fung. Longob. V, n. 228. — Pe- 1853
ritheciis superficialibus, sparsis, globoso-conicis, ostiolatis, in bysso fugaci insidentibus, brevissime pilosis, dein scabriusculis, castaneo-brunneis; ascis piriformibus mox diffluentibus, aparaphysatis, 20-22 \times 10-12; sporidiis ellipticis, inæquilateralibus, utrinque obtusis, castaneis, 8-9 \times 4 $\frac{1}{2}$ -5, primitus in glomerulum coacervatis.

Hab. ad seminum tegmina, in capsula germinatoria servata, Opuntia vulgaris in Italia bor.

- 5 **Chætomium Zopfii** Em. Boul. Rev. gén. Bot. 1897, p. 25, t. 1- 1854
III. — Peritheciis superficialibus, minutis, subglobosis, membranaceis, nigris in collum breve productis, ostiolo obtuso pilis rigidis, nigris in cymam biparam divisis cymisque uniparis terminatis, extremitatibus clavatis hyalinis; ascis breve pedicellatis, cylindricis, 48 \times 8; sporidiis octonis, monostichis, e fronte suborbicularibus 7,5 μ . diam., e latere lenticularibus, 4,5 μ . cr.

Hab. in cortice udo Piscidiæ erythrinæ in Galliam importato; inde in variis substantiis cultum. — Status conidiophori sunt *Dicyma ampullifera* Boul. sp. n. l. c. conidiis globoso-ovoideis brunneis echinulatis, 7,5 \times 4,5 et *Sporotrichi* sp. (conidiis globoso-ovoideis, hyalinis, levibus, 6 \times 4). «Tota species fere perfecte congruit cum *Ascotricha chartarum* Berk., Syll. I, p. 37, seu *Chætomio chartarum* (Berk.) Wint. Deutschl. Pilze II, p. 157 cum iconibus».

6. **Chætomium Ellisianum** Sacc. et Syd. Sic nominandum est *Chæto-* 1855
mium pusillum Ell. et Ev. in Syll. IX, p. 484. quum exstet antèrius *Ch. pusillum* Fr. in Syll. I, p. 222.

SORDARIA Ces. et De Not. — Syll. I, p. 230; IX, p. 487.

1. **Sordaria elephantina** P. Henn. Fungi camerun. I, in Engl. Jahrb. 1856 XXII, 1895, p. 97. — Peritheciis dense gregariis, obpiriformibus v. ovatis, plus minus setulosis, atris, 600-800 μ .; ascis subclavatis, substipitatis; sporidiis subdistichis v. oblique monostichis, oblongis v. ellipsoideis, rufo-fuscis v. atris, 19-23 \times 10-12, basi hyalino-appendiculatis.

Hab. in fimo elephantino, Kamerun (JUNGNER).

2. **Sordaria amphisphaerioides** Ell. et Ev. Americ. Natur. 1897, 1857 p. 340. — Peritheciis sparsis v. 2-3 consociatis, plerumque circiter $\frac{3}{4}$ mm. diam., membranaceis, globosis v. leniter depresso-globosis, matrice intus haud immutata immersis, collo brevissimo; ostiolo depresso-globoso, subdiscoideo, centro perforato et erumpente (ut in genere *Clypeosphaeria*); ascis cylindraceutis, 220-230 \times 20, brevissime stipitatis; sporidiis monostichis, ellipticis v. oblongo-ellipticis, luteolis, dein opacis, 27-30 \times 19-21, non appendiculatis; paraphysibus cylindraceutis, continuis, ascos superantibus, circiter 4 μ . crassis.

Hab. in fimo vaccino in Kansas Amer. bor. (BARTHOLOMEW).

3. **Sordaria arachnoidea** (Niessl) Sacc. et Syd. *Podospora arachnoidea* 1858 Niessl, Hedw. 1896, p. (143). — Peritheciis sparsis v. gregariis, semiimmersis, ovoideis in collum conicum crassum attenuatis, 0,6-0,8 mm. diam., villo arachnoideo albido tectis, postremo subnudis atris rugulosis; ascis elongate cylindraceutis, pedicellatis, varia longitudine, 150-200 \times 15-18, octosporis, paraphysibus tubulis articulatis; sporidiis laxè distichis, rhomboideo-lanceolatis, utrinque obtuse retusis, fusco-nigris, 16-18 \times 8-10, basi appendicula hyalina, subcylindrica, plerumque curvata, duplo longiore quam sporidia, apice appendicula subfiliformi, varia longitudine mox evanescente.

Hab. ad fimum in calidariis in Saxonia (KRIEGER).

4. **Sordaria ostiolata** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 458. 1859 — Peritheciis sparsis, immersis, dein semiemergentibus, glabris, ovatis, brunneis, 200-250 μ . diam., ostiolo nigro, conico v. breve cylindraceuto, erumpente; ascis cylindraceutis, breve stipitatis, paraphysatis, 80-190 \times 12, 8-sporis; sporidiis monostichis, ellipticis, 12-15 \times 8-10.

Hab. in fimo cuniculorum, Kansas Amer. bor. (BARTHOLOMEW).

5. **Sordaria violacea** Ell. et Ev. Americ. Natur. 1897, p. 340. — 1860 Peritheciis semiemergentibus, 2-4 confluentibus, 700-800 μ . diam., depresso-globosis, plus minusve asperulis, contextu grosse parenchymatico-celluloso, violaceo; ostiolo hemisphaerico-papilliformi v.

subdiscoideo-depresso; ascis clavato-oblongis, utrinque rotundatis, sessilibus, octosporis; paraphysibus numerosis, indistinctis; sporidiis oblongo-ellipticis, dein opacis, 30-45 \times 19-21.

Hab. in fimo equino, Kansas Amer. bor. (BARTHOLOMEW).

6. **Sordaria ustorum** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. 1861
XXXVI, 1897, 2 part. p. 11, tab. A. f. 3. — Peritheciis ovoideis, plane v. semi-immersis, hyphis fuscidulis mycelii, 3 μ . crassis, partim obsitis, 300-400 μ . latis, ostiolo papillato, coriaceis, fusco-atris; ascis cylindraceutis, stipitatis, 8-sporis, apice retusis, 160 (p. sp. 120) \times 12-14; sporidiis monostichis, ellipsoideis, basi truncatis, ibique hyalinis, 3 μ . long. appendiculatis, primo pallide fuligineis simulateque punctulatis, demum atro-opacis, sine app. 17 \times 10-12.

Hab. in terra carbonacea pr. Liège Belgii.

7. **Sordaria clavata** Pat. Bull. Soc. Myc. de Fr. 1895, p. 226. — 1862
Peritheciis sparsis vel dense gregariis, superficialibus, elongato-conoideis, atris, glabris, 800-900 \times 300-350 μ ., coriaceis, hyphis paucis repentibus, crustosis, basi cinctis; ascis cylindraceutis, longe stipitatis, 300 \times 15-20, octosporis, paraphysatis, filiformibus, obvallatis; sporidiis brunneis, ellipticis, apice acutatis, inferne truncatis, 17-20 \times 10, basi cauda hyalina auctis.

Hab. in detritis putridis in Æquatoria (v. LAGERHEIM).

8. **Sordaria minor** (E. et E.) Sacc. et Syd. *Podospora minor* Ell. et 1863
Ev. Americ. Natur. 1897, p. 341. — Peritheciis laxè gregariis, erumpentibus, superficialibus, ovato-conicis, 500 \times 400 μ ., pilis brunneis laxè vestitis, ostiolo atro obtuso firmo breve cylindraceuto excepto; ascis cylindraceutis, 150 \times 20; sporidiis oblique monostichis, ovato-ellipticis vel nucleiformibus, 25-35 \times 15-22, basi appendicula cylindraceuta, obtusa, brunneola, 12-15 \times 4 munitis, apice appendicula breviorè, decidua.

Hab. in culmis vetustis Zeae Maydis in Kansas Amer. bor. (BARTHOLOMEW).

9. **Sordaria tjobodiana** Penz. et Sacc. Malpighia XI, 1897, p. 395. 1864
— Peritheciis sparsis, raro binis coalitis, subglobosis, conicò-papillatis, glabris, 0,7-1 mm. diam., carbonaceo-coriaceis, nigris; ascis cylindraceutis, apice rotundatis, paraphysatis, 8-sporis, 95-110 \times 12, stipite 56-60 \times 4-5; sporidiis monostichis, ellipsoideis, 12-15 \times 9, fuligineis, 2-guttulatis, utrinque brevissime apiculatis et subinde strato hyalino angustissimo obvolutis.

Hab. in foliis siccis coriaceis, Tjobodas, Java. — A *Sordariis* phytogenis satis distincta

10. *Sordaria botryosa* Penz. et Sacc. Malpighia, XI, 1897, p. 395. 1865

— Peritheciis hinc inde dense botryoso-aggregatis stromateque carnosulo-pulvinato suffultis, $\frac{1}{4}$ mm. latis, globoso-conoideis, prominulis, papillatis, glabris; contextu carnosulo; ascis tereti-clavatis, longe stipitatis, 180-200 \times 9-11, paraphysatis, 8-sporis; sporidiis initio vermicularibus, hyalinis, 47-50 \times 3 $\frac{1}{2}$, utrinque ciliatis, demum ovato-ellipsoideis, 15-18 \times 11-12, fuligineis, infra cauda gracili hyalina æquilonga auctis.

Hab. ad ramos putres, Java. — Peritheciis congestis, fere *Botryosphæriæ*, a typo recedit; a *Coprolepa* peritheciis exsertis et sporidiis muco carentibus quoque distat.

PODOSORDARIA Ell. at Holw. Bot. Gaz. 1896, p. 37 (Etym. *pous* pes, et *Sordaria*, cui affinis). — Perithecia in stroma stipitatum unita, cetera ut in *Sordaria*.

1. *Podosordaria mexicana* Ell. et Holw. l. c. — Stromate breve sti- 1866
pitato irregulariter obconico, 1-1 $\frac{1}{2}$ mm. diam., supra parum mamillato, dilute hepatico; contextu carnosulo; peritheciis apicibus emergentibus, 3-10 in quoque stromate aggregatis, ovatis, globosis, 400-500 μ . diam.; ostiolis nigris, papilliformibus; ascis cylindræcis, obscure paraphysatis, breve stipitatis, octosporis, 115-150 \times 15-20; sporidiis monostichis v. supra inasco distichis, ellipticis, primo subhyalinis, dein subnigrescentibus, opacis, 25-34 \times 12-14.

Hab. in fimo vaccino, Cuernavaca, Mexico (HOLWAY). — « An *Poroniæ* spec.? ».

ROSELLINIA De Not. — Syll. I, p. 252; IX, p. 495, XI, p. 280.

- 1 *Rosellinia Bigeloviæ* Ell. et Ev. Americ. Natur. 1897, p. 341. — 1867
Peritheciis erumpenti-superficialibus, sparsis v. gregariis et cæspitosis, ovato-globosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolo distincto, acute papilliformi; ascis cylindræcis, circiter 50 \times 5; sporidiis monostichis, oblongo ellipticis, brunneis 6-8 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$; paraphysibus numerosis, filiformibus.

Hab. in truncis emortuis Bigeloviæ graveolentis in Colorado Amer. bor.

2. *Rosellinia muriculata* Ell. et Ev. Proc. Acad. Philad. 1895, p. 416. 1868
— Peritheciis superficialibus, ovatis, deorsum leviter contractis, 200-220 \times 180-200, tomento tenui albo mox evanido conspersis, dein nigris et muriculato-asperulis, ostiolo minuto papilliformi; ascis cylindræcis, 75 \times 6-7, p. sp. 55-60 μ ., breve stipitatis, para-

physatis, octosporis; sporidiis oblique monostichis, oblongo-ellipticis, pallide brunneis, 8-10 \times 4-5.

Hab. in cortice interiore Populi moniliferæ, Kansas, Amer. bor. (BARTHOLOMEW).

3. **Rosellinia radiciperda** Masee, Kew Bull. n. 109, 1896, p. 1, c. 1869 tab. — Peritheciis superficialibus, dense gregariis, globosis, papillatis, carbonaceis, nigris, majusculis, 2 mm. diam., subiculo conidiophoro, hirsuto, rigidulo insidentibus; ascis cylindricis, prælongis, apice obtusis, stipitatis, obturaculo cylindræo præditis, octosporis, paraphysibus filiformibus, guttulatis obvallatis; sporidiis monostichis, breve fusideo-navicularibus, inæquilateris, 30-40 \times 8-10 (ex icone), fuligineis 1-2-guttulatis.

Hab. in radicibus et basi truncorum Piri Mali cui valde noxia, in Nova Zelandia (HOOPER et COLENZO). — Status conidiophorus hyphis fasciculatis, sursum ramosis, conidiis ovoideis, dilute fuscis, 9-10 \times 5 (ex icone). Charactere *Dematophoræ*, quæ ut demonstravit cl. Berlese, nil est nisi *Rosellinia*.

4. **Rosellinia Linderæ** Peck, 49 Rep. Stat. Bot. N. York, 1896, 1870 p. 24. — Peritheciis numerosis, gregariis, nudis, basi ligno leniter immersis, 1 mm. latis, impolitis v. rugulosis, obtusis, supra perforatis, opacis, nigris; ascis gracillimis, longe pedicellatis, p. sp. 63-73 \times 4-5; sporidiis monostichis, oblongo-ellipticis, coloratis, 10 $\frac{1}{2}$ -13 \times 4, sæpe 1 vel 2-nucleatis.

Hab. in ramulis Linderæ Benzoin, New York Amer. bor.

5. **Rosellinia confertissima** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 1871 p. 126. — Peritheciis superficialibus, dense gregariis, globosis, 350-500 μ . diam., grumulosis, farinoso-pubescentibus, dein subglabris, tenuiter tunicatis; ostiolo prominulo, mammiformi; sporidiis ellipticis, 8-10 \times 4, continuis, brunneis.

Hab. in ligno vetusto, Ohio Amer. bor. (MORGAN).

6. **Rosellinia flexipila** Sacc. Malpighia, XI, 1897, p. 284. — Peritheciis laxè gregariis v. subsparsis, ligno denigrato superficialibus globoso-conoideis, carbonaceis, totis nigris, intus nitidis, 0,3-0,5 mm. diam., pilis flexuosis filiformibus fuligineis non v. obsolete septatis, 150 \times 6 laxè vestitis, ostiolo obtuse conico; ascis anguste cylindraceis, 120-140 \times 7, breviter stipitatis, octosporis; paraphysibus filiformibus; sporidiis monostichis, oblongis, utrinque obtusulis, rectis, 18 \times 5 $\frac{1}{2}$ -6, fuligineis, 1-2-guttulatis.

Hab. in ramis putridis decorticatis, Riva-Valdobbia, Italia (CARESTIA). — Ex subg. *Coniochætæ*.

7. **Rosellinia poliosa** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 439. — 1873
Peritheciis hemisphærico-prominentibus, $1\frac{3}{4}$ -2 mm. diam., tomento tenui cinereo (an semper?) vestitis; ostiolo papilliformi; ascis cylindraceis, 150-200 \times 13-16, paraphysatis?, octosporis; sporidiis late oblongo-fusoideis, brunneis, demum subopacis in juventute utrinque pallidioribus, 25-35 \times 12-15.

Hab. in ligno emortuo, Mexico (EGELING).

8. **Rosellinia compressa** Ell. et Dearn. Proc. of the Canad Inst. 1897, 1874
p. 89. — Peritheciis sparsis v. sæpe 4-5 v. pluribus congregatis, interdum 2-3 subconfluentibus, superficialibus, depresso-globosis, circ. $\frac{1}{2}$ mm. diam., membranaceis, pilis nigris spiriformibus 20-39 μ . longis parce vestitis; ostiolo minuto papillato; ascis cylindraceis, 75 \times 10-11, obscure paraphysatis; sporidiis monostichis, ellipsoideis, obtusis, valde compressis, 12-16 \times 8-10, e latere 3 μ . cr.

Hab. in ramis Ulmi decorticatis, Granton Ost. Canada Am. bor.

9. **Rosellinia subcompressa** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 1875
p. 277. — Peritheciis gregariis superficialibus, $\frac{1}{4}$ mm. diam., basi ligno leviter immersis, ostiolo papilliformi; ascis cylindraceis, breve stipitatis, paraphysatis, octosporis; sporidiis monostichis ellipticis, compressis, 6-9 \times 5-6, circiter $3\frac{1}{2}$ μ . crassis.

Hab. in ligno vetusto decorticato Gossypii, S. Dakota Amer. bor.

10. **Rosellinia obtusispora** Penz. et Sacc. Malpighia XI, 1897, p. 394. 1876
— Peritheciis laxè gregariis, basi insculpta subsuperficialibus, carbonaceis, subglobosis, 1 mm. diam., apice obtusis et minutissime papillatis, nigris, subnitidis; ascis (jam resorptis); sporidiis ellipsoideis, utrinque obtusis et subinde fere truncatis, 21-23 \times 8-10, fuliginis.

Hab. in cortice ramorum putrescentium, Java. — Perithecia, peridermio partim consumpto, non raro in colliculis corticalibus orta et tunc elevata videntur. Habitus fere *R. subiculatæ*, sed subiculum nullum (v. elapsum?) et sporidia diversa.

11. **Rosellinia Rehmiana** P. Henn. Hedw. 1897, p. 229. — Peritheciis 1877
dense gregariis, interdum glomeratis vel confluentibus, superficialibus, carbonaceo-atris, opacis, levibus, glabris, spheroidis, 0,7-0,9 . diametro, ostiolo longe rostrato usque ad 7 mm. longo vel papilliformi; ascis cylindraceis subclavatis 8-sporis, breve stipitatis; sporidiis oblique monostichis, oblongatis inæquilateralibus, subcurvulis, continuis, utrinque rotundatis, 2 guttulatis, flavobrunneis dein fuscis, 6-9 \times $3\frac{1}{2}$ - $4\frac{1}{2}$.

Hab. in ligno pr. Blumenau Brasiliæ (MOELLER).

12. **Rosellinia seriata** Hazsl. Math. es term. Közlem. XXV, 2, Bu-1878
dapest. 1892, p. 51, t. III, fig. 9. — Peritheciis in series densas,
parallelas in superficie ligni dispositis globosis, ostiolo papillæformi
excepto, setis simplicibus apice pellucidis tectis; ascis obovatis,
breviter pedicellatis, 8-sporis; sporidiis aggregatis, ovalibus, in
utroque apice subacutis, $20 \times 10-14$.

Hab. in ligno putrido in Hungaria.

13. **Rosellinia metallica** Hazsl. Math. es term. Közlem. XXV, 2, 1879
Budapest, 1892, p. 49, tab. II, fig. 8. — Peritheciis dispersis, sed
gregariis, globosis, aterrimis, splendidis, minutis, iis *Melanommatis*
Pulvis-pyræ similibus vel illis minoribus, ostiolo papilliformi; ascis
cylindricis, breviter stipitatis, 8-sporis; sporidiis monostichis, ovatis
v. ovalibus, $14 \times 6-7$.

Hab. ad truncos in Hungaria.

14. **Rosellinia gomzeensis** Mout. Compt. rend. Bull. Soc. Roy. Bot. 1880
Belg. XXXVI, 1897, 2 part. p. 12. — Sparsa plus minus im-
mersa; peritheciis e globoso ovatis, $\frac{1}{3}$ mm., ostiolo obtuso con-
fluente sæpius 3-4-sulcato, rugosiusculis, glabris; ascis cylindræcis
8-sporis, 90×7 ; sporidiis monostichis, oblongis, fuliginoso-fuscis,
pellucidis, rectis, $11-14 \times 3\frac{1}{2}-4$.

Hab. in ligno putrido Pini, loco dicto Gomzé pr. Liège Belgii.

15. **Rosellinia calospora** Mout. Compt. rend. Bull. Soc. Roy. Bot. 1881
Belg. XXXVI, 1897, 2 part. p. 12, tab. A. fig. 4. — Peritheciis
sparsis, emergentibus, globosis, breve papillatis, glabris, $\frac{3}{10}$ mm.
diam., contextu coriaceo brunneo; ascis cylindræcis in stipitem
(30-40 μ . longum) attenuatis, p. sp. 150×15 , sursum truncatis;
paraphysisibus paucis articulatis; sporidiis monostichis, ellipticis,
fuscis, demum atro-opacis, $20-24 \times 15$, episporio elongate et regu-
lariter foveolato.

Hab. in ligni scobe paulo carbonata pr. Liège Belgii.

16. **Rosellinia Pulvis-pyræ** Penz. et Sacc. Malpighia XI, 1897, p. 394. 1882
— Peritheciis dense et late gregariis, globoso-conoideis, opace
nigris, glabris, 0,2, mm. diam., tenuiter carbonaceis; ascis (jam
resorptis); sporidiis ovoideis, $18-21 \times 9-12$, fuliginæis, cauda hyalina.
teretiuscula, 8-10 . . longa basi sæpe auctis.

Hab. in ramis decorticatis putridis, Java. — Affinis videtur
R. millegranæ et *R. pulveracæ*, sed sporidia apiculata et majora.

17. **Rosellinia tricharga** Hazsl. Math. es term. Közlem. XXV, 2, 1883
Budapest, 1892, p. 48, tab. III, fig. 11. — Peritheciis in mycelio

nigro tomentiformi, ostiolo fuscæscente, nudo, circa ostiolum setosis, versum basim pilis longioribus crispatis tectis; ascis cylindricis; sporidiis uniseriatis, 8-9 \times 7-8.

Hab. in ligno emortuo in Hungaria. — Hæc species et tres seqq. a cl. Hazslinsky ducuntur ad sect. *Mazospora* Hazsl.: Sporidia subglobosa in punctis oppositis appendicula hyalina semiglobosa ornata. Perithecia stant vel in mycelio nigro tomentiformi vel in mycelio latitante.

18. *Rosellinia campopila* Hazsl. l. c. p. 48, fig. 10. — Peritheciis 1884
in superficie ligni nudis, pilosis, prout *Rosellinia malacotricha*, a qua specie nonnisi appendiculis differt; sporidia sunt vel globosa vel ovalia posterioraque 10 \times 8.

Hab. ad lignum nudum in Hungaria.

19. *Rosellinia trachypila* Hazsl. l. c. p. 49 fig. 12. — Peritheciis 1885
globosis, per totam superficiem, excepto ostiolo, pilis flexuosis tectis, sed circa ostiolum setis rigidis asperis coronatis; sporidiis subglobosis, 12-16 \times 10-12.

Hab. in ramis emortuis in Hungaria.

20. *Rosellinia macra* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 126. 1886
— Peritheciis gregariis, superficialibus, convexo-applanatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., haud lævigatis, ostiolo papilliformi, minuto; ascis non visis; sporidiis oblongo-ellipticis, brunneis, subacutis, 20-30 \times 10-12, nonnullis medio stria pallidiore, sed vero non septatis.

Hab. in foliis plantarum monocotyledonearum in Florida Amer. bor. (MORGAN). — Perithecia pæne ut in *Microthyrio*.

21. *Rosellinia elæicola* P. Henn. Fungi camerun. I, in Engl. Jahrb. 1887
XXII, 1895, p. 77. — Peritheciis gregariis, sparsis, singularibus, sæpe confluentibus, subglobosis v. ovoideis, irregularibus, vertice papillatis v. cornutis, atro-carbonaceis, rugulosis, intus pallidis, circiter 1 mm. diam.; ascis cylindræis, stipitatis, octosporis, 105-130 \times 11-16; sporidiis oblongis, navicularibus, inæquilateralibus, oblique monostichis, atris, obtusiusculis, 13-17 \times 7-9.

Hab. in foliorum vaginis putridis *Elæis guineensis*, Kamerun (JUNGNER).

22. *Rosellinia marginato-clypeata* Penz. et Sacc. Malpighia XI, 1897, 1888
p. 393. — Peritheciis laxè gregariis, innato-erumpentibus, globosis, 0,3 mm. diam., papillatis, carbonaceis, nigris, circumcirca peridermio nigrificato parum elevato arcte adhærente cinctis; ascis (jam fere resorptis); sporidiis ovato-fusoideis, utrinque acutiusculis,

sæpe inæquilateris, 15-18 \times 7-8, fuligineis (senio rimose longitrorsum dehiscensibus).

Hab. in petiolis emortuis Palmarum, Java. — Perithecia cum pseudostromate ambiente 1,3 mm. lata.

23. **Rosellinia formosa** Penz. et Sacc. Malpighia XI, 1897, p. 393. 1889

— Peritheciis laxè gregariis, depresso globosis, eximie tornatis, basi applanata, superficialibus, levibus, atro-nitidulis, 0,7-1 mm. latis, 0,5 mm. altis, ostiolo brevi acuto; ascis cylindræcis, demum angustato-stipitatis, 60-75 \times 5-6 $\frac{1}{2}$, apice rotundatis, octosporis; paraphysibus filiformibus, guttulatis; sporidiis monostichis, oblongo-ellipsoideis, 7-8 $\frac{1}{2}$ \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$, guttulatis, fuligineis.

Hab. in caulibus Eleltariæ putrefactis, Java. — Var. **flavozonata** Penz. et Sacc. l. c. p. 394. — Perithecia, asci sporidiaque fere ut in specie, sed inter et circa perithecia adhæret byssus tenuissima, flavida, ex hyphis subhyalinis, vix 0,7 μ . crassis, membranula anhistâ junctis formata; asci 60 \times 5; stipes 40-45 \times 2; sporidia 9-10 \times 5 $\frac{1}{2}$, fuliginea. An byssus speciei vere pertinens? — *Hab.* in culmis putridis Bambusæ, Java.

24. **Rosellinia decipiens** Penz. et Sacc. Malpighia, XI, 1897, p. 393. — 1890

Peritheciis laxè gregariis, superficialibus, levibus, nigris, globosis, papillatis, 0,7-0,8 mm. diam.; ascis cylindræcis, brevè stipitatis, 150-200 \times 15-18, apice obtusulis, obturaculo manifesto, octosporis; paraphysibus non visis; sporidiis oblique monostichis, oblongo-fusoides, leviter inæquilateris, 45-50 \times 9 (rarius 45 \times 11), utrinque acutis, fuligineis.

Hab. in vaginis putridis Bambusæ in silva virginea M. Salak, Java. — Habitus fere *R. mammiformis*, sed sporidia duplo majora.

25. **Rosellinia geasteroides** Ell. et Ev. Proc. Acad. Philad. 1895. 1891

p. 415. — Peritheciis gregariis, superficialibus, depresso-globosis, $\frac{3}{4}$ mm. diam., ostiolo distincto, papilliformi donatis, duplicato-tunicatis, peridiolo exteriorè membranaceo, mox 5-reflexo-lobato et *Geasteris* speciem minutam simulante; ascis cylindræcis, 100-110 \times 6, p. sp. 75-80 μ ., paraphysatis, octosporis; sporidiis monostichis, inæquilateraliter ellipticis, mox opacis, 10-12 \times 5.

Hab. in culmis dejectis Arundinariæ, Louisiana, Amer. bor. (LANGLOIS). — «Certe e typo *Astrocystis*».

26. **Rosellinia Chusqueæ** Pat. Bull. Soc. Myc. de Fr. 1895, p. 224. 1892

— Subiculo crustaceo, brunneo-atro, ex hyphis brunneis. repentibus, septatis, ramosis, 5-6 μ . crassis composito; peritheciis gla-

bris, mammiformibus, apice papillatis, obscure brunneis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. latis, gregariis v. sparsis; ascis cylindraceutis, $130 \approx 10$, coto-sporis, filiformi-paraphysatis; sporidiis monostichis, brunneis, ovatis, inæquilateralibus, sæpe guttulatis, $30 \approx 7-9$, halone mucoso, hyalino cinctis.

Hab. in truncis emortuis Chusqueæ in Æquatoria (v. LAGERHEIM).

27. **Rosellinia samoensis** P. Henn. Engl. Jahrb. XXIII, 1896, p. 287. 1893

— Peritheciis gregariis vel sparsis, interdum confluentibus, superficialibus, hemisphaericis v. subpulvinatis, atris, carbonaceis, subnitentibus, apice conico papillatis, subiculo effuso, atro, intus pallidis $1-1\frac{1}{2}$ mm. diam.; ascis cylindraceutis, $70-95 \approx 7-8\frac{1}{2}$ (p. sporif.), apice obtusis, breviter stipitatis, 8-sporis; sporidiis cymbiformibus v. oblongo-ellipsoideis, utrinque obtusiusculis, atro-castaneis, $1-2$ -guttulatis, $15-17 \approx 6-8$.

Hab. ad culmum Gramineæ cujusdam in ins. Upolu ins. SAMOENS. (REINECKE).

28. **Rosellinia groedensis** Zopf, Nov. Act. LXX, 1897, p. 104 cum 1894

fig. 1-13, Hedw. 1896, p. 350. — Peritheciis globoso-ellipsoideis, plerumque gibbosis, atris, superficialibus v. basi immersis, $0,3-0,5$ mm. crassis, $0,3-0,6$ mm. altis, plerumque gregariis, e mycelio obscuro oriundis; ascis cylindraceutis, stipitatis, octosporis, jodo non cærulescentibus; sporidiis variæ magnitudinis, ellipticis, fusiformibus, citriformibus v. ovoideis, unicellularibus, latere parum depressis, obscuris, $16-24 \approx 10-12\frac{1}{2}$; paraphysibus gracilibus, minute et majuscule pluriguttulatis, ascos superantibus, in periphyses transeuntibus.

Hab. in thallo Pertusariæ sulphurellæ var. variolosæ in Alpibus (ARNOLD).

29. **Rosellinia alpestris** Zopf, Nov. Acta LXX, 1897, p. 185, cum 1895

fig. 82-85, Hedw. 1896, p. 314. — Peritheciis solitariis v. gregariis, innatis, piriformibus v. ovoideis, nigris, $0,1-0,3$ mm. latis; ascis brevissime stipitatis, oblongo-ovoides, $45-50 \approx 22-25$, octosporis, jodo rubescentibus; sporidiis unicellularibus, ellipsoideis v. ovoideis, brunneis, guttulatis, $11\frac{1}{2}-16 \approx 7\frac{1}{2}-10$; paraphysibus filiformibus, parce ramosis, $0,8-1,5 \mu$. crassis.

Hab. in thallo Acarosporæ glaucocarpæ in Alpibus.

30. **Rosellinia subterranea** Sacc. et Syd. Sic dicenda est *Rosellinia* 1896

sepulta (Boud.) Sacc. in Syll. IX, p. 497, quum exstet anterior *R. sepulta* (B. et C.) Sacc. in Syll. I, p. 256.

PLEOSPOROPSIS Oerst. in Naturhist. Foren. Vidensk. Meddel. 1865, p. 128, nec Syll. fung. III, p. 693 (= *Æcidium*). (Etym. *Pleospora* cui, sec. auct., affinis). — A. gen. *Rosellinia* vix tantum differre videtur ostioliis nullis v. obsoletis et præcipue formis metageneticis. An satis?

1. **Pleosporopsis strobilorum** Oersted, in Naturhist. Foren. Vidensk. 1897 Meddel. 1865, p. 28, tab. V et VI. — Peritheciis subglobosis, circ. $\frac{1}{4}$ mm. diam, levibus, glabris, sparsis, discretis v. passim coalitis, duris, nigris; ascis lineari-cylindræcis, 160-170 \times 6-7, apice truncatis bidenticulatis, 8-sporis; sporidiis ovoideis, rectis, continuis, 12-13 \times 5-6, monostichis, episporio levi, crasso, atro, longitrorsum dehiscente.

Hab. in squamis strobilorum Pini montanæ in silvis Daniæ Adsunt status macro-et microconidicus (*Stemphylii* et *Cladosporii* spp.) et pycnidicus (*Sporonema*?), de quibus cfr. l. c.

ANTHOSTOMELLA Sacc. — Syll. I, p. 278, IX, p. 505, XI, p. 231.

1. **Anthostomella Lambottiana** Fautr. Rev. Mycol. 1895, p. 167. — 1898 Peritheciis gregariis, subsuperficialibus, nigris, rugulosis, plerumque ostiolo conico-elongato munitis; ascis cylindræcis, 70-80 \times 10-11, paraphysatis; sporidiis monostichis, obliquis, ovalibus, brunneis, majuscule et nitido-biguttulatis, simplicibus, 10-11 \times 6-7.

Hab. in trunco decorticato Persicæ vulgaris in Gallia.

2. **Anthostomella aziaca** Sacc. et Flag. Bull. Soc. Myc. de Fr. 1896, 1899 p. 65, tab. V, fig. 3. — Peritheciis laxè gregariis, sub-cutaneis, subglobosis, atris, vix 0,5 mm. diam., ostiolo breviter conoideo erumpente, epidermide ambiente fere immutata; ascis cylindricis, apice rotundatis lumineque crenulato, 100 \times 8-9 μ ., breve crasse stipitatis, parce pseudoparaphysatis, 8-sporis; sporidiis monostichis, ovoideis, 15-16 \times 8-9, fuligineis, initio muco tenui obductis.

Hab. in caulibus emortuis Hellebori fœtidi pr. Rigny Galliæ. — Affinis, sed sat diversa, ab *A. Tomico*.

3. **Anthostomella phæosticta** (Berk.) Sacc.-Syll. I, p. 279. — ***A. Iridis** 1900 Fautr. Rev. Mycol. 1896, p. 68. — Peritheciis minutis, rotundatis, dein depressis, numerosissimis, interdum confluentibus, matricem nigrificantibus, subcutaneis, ostiolo brevi emergentibus; ascis cylindræcis, deorsum attenuatis, 60 \times 6, paraphysatis; sporidiis monostichis, simplicibus rectis, ovalibus, obscuris, 8-10 \times 4-5.

Hab. in foliis Iridis fœtidissimæ in Gallia. — A typo differt sporidiis rectis et crassioribus.

4. **Anthostomella Puyæ** P. Henn. et Lind. Hedw. 1897, p. 226. — 1901
 Maculis epiphyllis, inflatis, oblongis confluentibusque, pallidis; peritheciis matrici immersis, sparsis, plerumque singularibus, ca. 0,8 mm. diametro, subsphæroideis, epidermide nigrificata tectis, ostiolis haud prominulis; ascis cylindraceo-clavatis, plus minus stipitatis, apice obtuso-rotundatis, 8-sporis, rectis vel curvulis, p. sporif. 160-190 \times 16-21; paraphysibus linearibus articulatis, multiguttulatis, hyalinis, 3-3½ μ . crassis; sporidiis oblique monostichis, oblongis, utrinque rotundatis, primo sæpe basi hyalino-appendiculatis, brunneis, 22-30 \times 14-17, episporio minute verrucoso.
Hab. in foliis Puyæ giganteæ et coarctatæ pr. Concepcion in Chile (NEGER).
5. **Anthostomella obtusispora** Penz. et Sacc. Malpighia, XI, 1897, 1902 p. 392. — Peritheciis laxè gregariis, immersis, globosis, nigris, membranaceis, 0,3-0,5 mm. diam., ostiolis longiusculis, sed vix punctiformi-erumpentibus; ascis cylindraceis, apice rotundatis, 160 \times 12-14 part. sporif.; paraphysibus non visis; sporidiis monostichis, ellipsoideis, utrinque obtusatis, 20-22 \times 10-11, opace fuligineis.
Hab. in petiolis Palmarum emortuis, Java. — Affinis videtur *A. melanosticta* Ell. et Ev.
6. **Anthostomella grandispora** Penz. et Sacc. Malpighia, XI, 1897, 1903 p. 392. — Peritheciis laxè gregariis, immersis et vix ostiolo minuto erumpentibus, globoso-depressis, 0,3 mm. diam., nigris, membranaceis; ascis crasse clavatis, breve stipitatis, circiter 100 \times 24 (jam fere resorptis); paraphysibus non visis; sporidiis distichis, oblongo-ellipsoideis, utrinque rotundatis, 32 \times 9, lenissime inæquilateris, crasse 1-guttatis, atro-fuligineis.
Hab. in foliis putrescentibus Kentiæ sp., socia *Pestalozzia funerea*, Java.
7. **Anthostomella albo-cincta** Ell. et Ev. Proc. Acad. Philad. 1895, 1904 p. 424. — Peritheciis plerumque sparsis, innatis, linea nulla cinctis, globosis, 500-600 μ . diam., crasse coriaceo-tunicatis; ostiolis erumpentibus, globosis, sæpe collabentibus, epidermide albescente leviter elevata cinctis; ascis cylindraceis, stipitatis, p. sp. 80-100 \times 6-7; paraphysibus evanescentibus; sporidiis monostichis, plerumque excedentibus, subfusoides-oblongis, vix curvulis, 13-16 \times 3½-4, brunneis, appendicula hyalina minuta subglobosa basi ornatis.
Hab. in culmis Arundinariæ, Louisiana, Amer. bor. (LANGLOIS). — Ab *Anthostomella stegophora* differt peritheciis non seriatis et sporidiis oblongis appendiculatis, ab *A. Bambusæ* stromatibus nullis.

TYMPANOPSIS Starb. — Syll. XI, p. 283.

1. **Tyimpanopsis cœlosphærioides** Penz. et Sacc. *Malpighia* XI, 1897. 1905
p. 394. — Peritheciis gregariis v. hinc inde in soros subaggregatis, superficialibus, carbonaceo-molliusculis, e globoso mox collabescendo concavo-patellaribus, minutissime rugulosis, nigris, 0,5-0,8 mm. diam., ostiolo vix manifesto, contextu grosse celluloso, fuligineo; ascis tereti-clavatis, apice rotundatis, breve stipitatis, 75-90 \approx 15-18, aparaphysatis, 8-sporis; sporidiis mono- v. distichis, ellipsoideis, 18-20 \approx 10-12, fuligineis.

Hab. in corticibus, Java. — Secunda pulcri generis Starbäckiani species.

ANTHOSTOMA Nits. — Syll. I, p. 293, IX, p. 514, XI, p. 283.

1. **Anthostoma** (*Eu-Anthostoma*) **tjibodense** Penz. et Sacc. *Malpighia*. 1906
XI, 1897, pag. 502. — Stromate corticali, maculas atro-fuligineas sinuosas, 1-2 cm. long. in matricis superficie sublevigata efformante; peritheciis gregariis, omnino immersis, globosis, nigris, 0,5 mm. diam., ostiolis punctiformibus, non emergentibus; ascis cylindræis, apice rotundatis, breve stipitatis, 80-90 \approx 6-7, octosporis; paraphysibus guttulatis; sporidiis oblique monostichis, oblongo-ellipsoideis, utrinque obtusulis, 12-14 \approx 5-6, fuligineis, 2-3-nucleatis.

Hab. in rhachide emortua *Plectocomiæ*, Tjibodas, ins. Java. — Affine videtur *Ant. capnoidi* (Berk.) Sacc.

2. **Anthostoma** (*Eu-Anthostoma*) **simplex** (Otth) Sacc. Hedw. 1896, 1907
p. 25, *Quaternaria simplex* (Otth) Nke. in Otth Bern. Mittheil. 1870, p. 95. — Sparsum v. gregarium; peritheciis majusculis subglobosis, tenuibus, singulis, cortice immersis crustaque albido-flavescenti obductis, ostiolo brevi truncatulo non excedente; nucleo gelatinoso nigricante; ascis cylindricis, deorsum breviter attenuatis, octosporis; sporidiis monostichis, ellipsoideis, obtusis, continuis, brunneis, demum nigro-fuscis, 26-30 \approx 14, strato tenui hyalino involutis; paraphysibus crassiusculis, guttulatis.

Hab. in ramis emortuis *Tiliæ* in Helvetia.

3. **Anthostoma** (*Fuckelia*) **tetrastagum** Delacr. Bull. Soc. Mycol. de France, XIII, 1897, p. 124, tab. X, fig. G. — Stromatibus in cortice inquinato immersis; peritheciis paucis, vix papillatis, 320-350 μ .; mycelio fusco-melleo, tenui; ascis cylindræis, ad basim attenuatis, 105 \approx 10, octosporis; sporidiis elongatis, utrinque attenuatis, rectis v. paulum curvulis, fuligineis, continuis, quadriguttulatis, 18 \approx 6, in asco inordinatis; paraphysibus paucis.

Hab. in cortice *Quercus* pr. Riguy-sur-Arroux, Saône-et-Loire Gallie.

4. **Anthostoma** (*Fuckelia*) **Verrucula** Penz. et Sacc. *Malpighia* XI, 1909
1897, pag. 502. — Stromatibus gregariis, erumpenti-superficialibus, globoso-conicis, 2 mm. diam., nigricantibus, rugulosis, fragmentis minutis corticalibus sæpe oblinitis, intus albis; peritheciis mono-distichis paucis, globosis, 0.4 mm. diam., nigris, ostiolis non emergentibus; ascis cylindræis, apice rotundatis, stipitatis, 100-120 \approx 8-9, cum stipite 135 μ . l., filiformi-paraphysatis, octosporis; sporidiis monostichis, oblongo-amygdaloideis, utrinque acutulis, 17-18 \approx 8-9, biguttatis, fuliginæis.

Hab. in ramis emortuis, Tjibodas, ins. Java. — Stromatis et sporidiorum notis ab *A. turgido* et *gastrino* prædistinctum.

5. **Anthostoma** (*Fuckelia*) **valsarioides** Penz. et Sacc. *Malpighia* XI, 1910
1897, pag. 502. — Stromatibus erumpentibus, corticolis, gregariis, sæpe confluentibus, 2-3 mm. diam., pulvinatis, nigris, inæqualibus; peritheciis mono-distichis, globulosis, 0.3 mm. d., nigris, extus albo-furfuræis, ostiolis brevissime emergentibus, subrotundis, minutis; ascis cylindræo-clavatis, apice obtusis, breve stipitatis, 60-66 \approx 9, p. sporif., octosporis; sporidiis distichis, cylindræis, curvulis, utrinque rotundatis, 19-21 \approx 5, olivaceo-fuliginæis, plasmate 2-4-partito.

Hab. in ramis corticatis, Tjibodas ins. Java. — Sporidiis spurie seu simulate septatis *Valsariam* in mentem revocat.

6. **Anthostoma** (*Fuckelia*) **Ailanthi** (Oth) Nke. in Oth, Bern. Mittheil. 1911
1870, p. 101 (*Phæosperma*). — Stromate corticali vix pustulato, strato nigricante late ambiente limitato; peritheciis stipatis, subglobosis, in corpus subglobosum quasi connatis, immersis; collis fasciculatis, ostiolis incrassatis in discum nigrum erumpentem constipatis; ascis cylindræis, breviter deorsum tenuatis, 8-sporis; sporidiis monostichis, ellipsoideis, fumosis, 12-14 \approx 4.

Hab. in ramis corticatis *Ailanthi* in Helvetia.

7. **Anthostoma** **Berlesii** Sacc. et Syd. Sic nominandum est *Antho-* 1912
stoma anceps Berl. et F. Sacc. in Sacc. Syll. IX, p. 522, quum
exstet antèrius *A. anceps* Sacc. et Roum. Syll. I, p. 299.

XYLARIA Hill. — Syll. I, p. 309, IX, p. 523, XI, p. 283.

1. **Xylaria** **holobapha** Berk.-Syll. IX, p. 523. — Var. **camptospora** 1913
Penz. et Sacc. Malp. 1897, pag. 496. — Distinguitur sporidiis

(oblique monostichis v. subdistichis) fusoides, angustioribus, fortius curvatis, 28-30 \times 5-6, fuligineis.

Hab. ad ligna, Tjibodas, ins. Java.

2. **Xylaria torrubioides** Penz. et Sacc. Malpighia XI, 1897, pag. 496. 1914

— Gregaria; stromatibus erectis, cylindræis, sursum attenuato-acutis, sæpe curvulis, rarius furcatis, griseo-cinereis, 15-20 mm. long., 1-1,5 mm. diam., stipite sterili brevissimo, clava fertili vix tenuiore; peritheciis semiimmersis, ostiolo conico prominente, nigris, carbonaceis, 180-200 μ . diam.; ascis cylindræis, 18-20 \times 3-3,5; sporidiis monostichis, minutissimis, 2,5-3 \times 2-2,5, globoso-ellipticis, atrobrunneis.

Hab. in nidis Termitidum in Horto bot. Bogoriensi in Java.

— Videtur affinis *Xyl. Gardneri* Berk. var. *minori* (Syll. fung. I, p. 312), sed est adhuc tenuior.

3. **Xylaria leucosticta** Penz. et Sacc. Malpighia XI, 1897, pag. 496. 1915

— Stromatibus sparsis, erectis, cylindræis, 6-10 centim. long., 10-14 mm. diam., dichotomis vel parce ramosis, interdum ramis iterum divisis, cylindræis, æqualibus, atris, apice obtuso, rotundato, pallidioribus; stromatis superficie æqualiter conspersa punctulis albis, quæ sub lente e drusis crystallinis (oxalat. calcic.) formata sese demonstrant.

Hab. in truncis emortuis, Tjibodas, ins. Java. — Perithecia in speciminibus haud matura visa: sed species punctorum alborum præsentia satis ab affinibus (*Xyl. diceræ* Lév., *X. variabilis* Curr.) distincta.

4. **Xylaria globosa** (Spr. et Fr.) Mont.-Syll. I, p. 373 (sub Hypo- 1916

xylo). — Var. *minor* Sacc. et Penz. Malpighia 1897, pag. 497.

— Stromatibus minutis, 2-3 mm. diam.; peritheciis paucis majusculis, omnino immersis; ascis cylindræis, 150-160 \times 7-8, paraphysatis; sporidiis anguste phaseoliformibus, 24 \times 8, fuligineis.

Hab. ad cortices emortuos in Java. — Var. **vestita** P. et S. l. c.: stromatibus globosis, basi stipitiforimi subsessilibus, 3 mm. d., *Graphii socii* P. et S. (Cfr.) stipitibus rigidis, radiantibus hirtis; ascis cylindræis, 170-180 \times 10, paraphysatis; sporidiis phaseoliformibus, 21-24 \times 8-9, olivaceo-fuligineis. Ad ramos corticatos putres in Java.

5. **Xylaria pilæformis** B. et C. U. S. Expl. Exped. p. 201, fig. 8. 1917

Cfr. Syll. I, p. 373. — f. *minor* Penz. et Sacc. Malpighia XI, 1897, pag. 497. — Stromatibus globoso-depressis, 6-7 mm. lat., rugulosis, fusco-nigris, basi punctiformi affixis, subtus radiatim

rimosis, intus albis; peritheciis monostichis, nigris, vix 0,5 mm. diam., omnino immersis; ascis cylindricis paraphysatis, 100-115 \times 9; sporidiis breviter phaseoliformibus, 15-16 \times 6,5-8, fuliginis.

Hab. cum typo in ins. Java. — A *X. globosa* præcipue sporidiis multo brevioribus differt.

6. *Xylaria humilis* Penz. et Sacc. Malpighia XI, 1897, p. 497. — 1918
Stromatibus gregariis, minutis, 2-3 mm. diam., superficialibus, basi stipitiformi latente instructis, inæqualiter globosis, minute verrucosis, nigricantibus, intus albis; peritheciis monostichis, 0,3 mm. diam., nigris, omnino immersis; ascis jam elapsis; sporidiis plano-convexis, 15-16 \times 6, fuliginis.

Hab. ad ramos corticatos, putres, Tjibodas, ins. Java. — Forma in Bambusa? M. Salak, sterilis videtur eadem (vel potius *X. Clavulus* B. et C.?). A *X. pilæformi* differt stromatibus minoribus, subtus non radiatim rimosis.

7. *Xylaria heloidea* Penz. et Sacc. Malpighia XI, 1897, pag. 498. 1919
— Stipitata, capitata, gregaria, minuta; peritheciis paucis (4-8) capitulum subglobosum vix 2 mm. diam. formantibus, globoso-papillatis, protuberantibus, nigris, 0,7 mm. diam., stipite filiformi tenuissime striato, 7-9 mm. alto, 0,3 mm. cr., glaberrimo; ascis cylindræis, apice rotundatis, breviter stipitatis, 90-100 \times 8-9, paraphysatis, octosporis; sporidiis oblique monostichis, breviter fusoides, inæquilateris, 15-17 \times 6, fuliginis.

Hab. in leguminibus dejectis putridis in Horto bot. Bogoriensi, ins. Java. — Pulchella species, ex affinitate *X. pilæcipitis* et *stilboideæ*. Stromata sterilia, apice albo-roseo (conidiis non visis), sæpe elongantur.

8. *Xylaria polysticha* Penz. et Sacc. Malpighia XI, 1897, pag. 498. 1920
— Stromatibus sparsis, erectis vel curvulis, 4,5-5,5 centim. altis, stipite clavam æquante, cylindrico, atro, glabro, 50 mm. diam.; clava fertili paullo crassiore (55-60 mm. diam.) carnosocoriacea, oblique inserta, oblonga, apice obtuse rotundato, brunnea; contextu interiori brunneolo vel albido; peritheciis plus minus profunde immersis, 3-4-stichis, sphaericis, 400-500 mm. diam., ostiolo plus minus longo, tenui (85-95 μ . d.) recto, omnino immerso præditis; ascis 31-37 \times 4-5; sporidiis uniseriatis, minutulis, atro-brunneis, ellipticis, 4,5-5 \times 3,5.

Hab. ad truncos in ins. Java. — Peraffinis videtur *X. spathulata* B. et Br., cujus sporidia ex Cooke Grev. XI, p. 83 sunt equidem 6 \times 3 (nec 10 . l. ut habent B. et Br.); sed sec. iconem

Cookei, Grev. XI, t. 168, fig. 91, perithecia in *X. spathulata* sunt monosticha, nec 3-4-sticha, ut in specie javanica.

9. *Xylaria axifera* Mont.-Syll. I, p. 343. — Var. *perexigua* Penz. 1921 et Sacc. Malpighia XI, 1897, pag 499. — Stipitibus capillaribus 4 mm. altis, clavula cum mucrone vix $1\frac{1}{2}$ mm. excedente; ascis immaturis.

Hab. in foliis coriaceis, Tjibodas, ins. Java.

10. *Xylaria ocephala* Penz. et Sacc. Malpighia XI, 1897, pag. 500. 1922 — Gregaria, stipitata, capitata; stipite simplici, rarissime furcato, cylindrico, basi vix incrassata insilitio, nigro, fusco-puberulo; capitulo globoso v. subellipsoideo, 1,5-2 mm. diam., ostiolis punctato-asperulo, glabro, atro-fusco, mucrone apicali brevissimo v. nullo; ascis cylindræis, apice rotundatis, breve stipitatis, paraphysatis, 75-80 \times 6, octosporis; sporidiis monostichis, ovato-coffeiformibus, 9 \times 3-4, fuliginæis.

Hab. in ramulis dejectis, præsertim in filiceto Horti botan. Bogoriensis, ins. Java. — Affinis *X. aristate*, sed dignoscitur mucrone apicali nullo v. obsoleto, sporidiis paullo minoribus.

11. *Xylaria Readeri* F. Müll. Grev. 1893, p. 17. — Nigra; capitulo 1923 globoso v. late elliptico, 5-8 mm. longo, apice in mucronem brevem producto; stipite 7-10 cm. longo, pro parte majore in terra infosso, deorsum dense velutino, simplici, erecto, e rhizomate albedo, horizontali oriundo; peritheciis paucis, magnis, prominentibus; ascis cylindræis, breve pedicellatis, octosporis; sporidiis monostichis, subcylindræis, leniter curvulis, utrinque obtusis, 14-15 \times 5-6, pallide purpureo-brunneis.

Hab. in terra sabulosa, Victoria Australiæ (F. READER).

12. *Xylaria nutans* P. Henn. Fungi camerun. I, in Engl. Jahrb. 1924 XXII, 1895, p. 79. — Stromatibus clavatis, clavulis plerumque nutantibus, clavatis v. subglobosis, intus carnosis, farctis, pallidis, in medio longitudinaliter atro-strigosis, extus atro-griseis, reticulatis, transverse sulcato-impressis, apice subacuminatis v. submamillatis, 1-2 cm. longis, 5-7 mm. crassis; stipitibus teretibus, curvatis, farctis, atris, glabris, ca. 1-2 cm. longis, 2-3 mm. crassis; peritheciis subglobosis, monostichis, sub cortice nidulantibus et ostiolis minimis conoideis vix prominulis; ascis cylindræo-clavatis, 8-sporis, 90-110 \times 5-7 (pars sporif.), longe pedicellatis hyalinis; sporidiis monostichis, oblongis, naviculariformibus, utrinque obtusis, primo 1-2-guttulatis, fusco-brunneis, dein atris, 15-18 \times 5-6.

Hab. in truncis emortuis, Kamerun (ZENKER et STAUDT).

13. *Xylaria Telfairii* (Berk.) Sacc. Syll. I, p. 320. — Var. **camerunensis** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 79. — Stromatibus cæspitosis, stipitatis, clavatis, obtusis, circ. 4 cm. longis, 1 cm. latis, cortice tenui, griseo-flavescente tectis, ostiolis punctiformibus, verrucoso-obtusis, pallide nigricantibus, intus spongioso-carnosis, pallide flavis; stipite brevi, basi incrassato-discoideo; peritheciis ovoideis, carbonaceo-nigris, 0,5 mm. diam.; ascis octosporis, cylindræis, breviter stipitatis, apice obtusis; sporidiis oblique monostichis, naviculiformibus, oblongis, inæquilateralibus, obtusis, primo 2-guttulatis, brunneis, dein atris, 14-20 \approx 7-9. 1925

Hab. in truncis putridis, Kamerun (ZENKER et STAUDT).

14. *Xylaria verruculosa* P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 78. — Stromatibus gregariis, fasciculatis, clavatis, atris, stipitatis, usque ad 3 cm. latis; clavulis oblongis v. clavatis, apice obtusis, tuberculato-verrucosis, $\frac{1}{2}$ -2 cm. latis, 3-9 mm. crassis; stipite gracili, usque ad 2 cm. alto; peritheciis immersis, globosis, papillatis, circ. 0,5 mm. diam.; ascis cylindræo-clavatis, stipitatis, octosporis; sporidiis oblongis, inæquilateralibus, curvatis, fuscis, dein atris, plerumque 15-25 \approx 7-9. 1926

Hab. in truncis, Kamerun (JUNGNER).

15. *Xylaria Trabuti* Pat. Bull. Soc. Mycol. de France, 1897, p. 211, tab. XII, fig. 4. — Stromatibus cæspitosis, erectis, raro solitariis, simplicibus v. ramosis, 1-2 cm. altis, nodulosis, versus apicem regulariter incrassatis, rotundato-obtusis, stromatibus ramosis, 1-2 sulcatis et compressis; clavula albida, dein glauco-viridula; stipite glabro, plus minusve aureo-notato; conidiis ovoideis, glaucis, 3-5 \approx 2-3; peritheciis non visis. 1927

Hab. in cotyledonibus *Latania*e in Algeria. — *X. carpophilæ* affinis.

16. *Xylaria bidentata* Pat. Bull. Soc. Myc. de France, 1895, p. 87. — Simplex v. bifida, solitaria v. binæ consociatæ, brunneæ, hispidæ, 4 mm. diam.; stipite nigro, glabro, cylindræo v. compresso, 1-2 mm. lato, 1-2 cm. longo; clavula nigra, cylindræa, rugosa, plicata, 2-3 mm. lata, 5-7 cm. longa, gradatim attenuata, compressa, integra v. plerumque bidentata, dentibus circiter 1 cm. longis; peritheciis globulosis, immersis, ostiolis parum prominentibus; sporidiis brunneis, ellipticis, inæquilateralibus, 10-12 \approx 5. 1928

Hab. ad ligna putrescentia in regione congoana gallica (DYBOWSKI).

HYPOXYLON Bull. — Syll. I, p. 352, IX, p. 543, XI, p. 285.

1. **Hypoxylon moriforme** P. Henn. Engl. Jahrb. XXIII, 1896, p. 287. 1929

Stromatibus hemisphaericis, sparsis, basi applanatis, cortice affixis, tuberculoso-rugosis, moriformibus, atris, carbonaceis, subnitentibus, 2-3 mm. diam., ostiolis punctiformibus, subpapillatis, minutis, annulato-marginatis; peritheciis subglobosis; ascis cylindraceutis, obtusis, 8-sporis; sporidiis monostichis, ellipsoideis, utrinque obtusis, atro-brunneis, dein atris, $6-7 \approx 3\frac{1}{2}-4\frac{1}{2}$.

Hab. in cortice in ins. Upolu ins. samoens. (REINECKE).

2. **Hypoxylon fibuliforme** Ell. et Ev. Bull. Labor. Nat. Hist. Univ. 1930

IV, 1896, p. 71. — Stromate lenticulari, 2-5 mm. diam., atro, sessili, ostiolis papilliformibus asperato; peritheciis elongatis, subcylindraceutis, $1-1\frac{1}{4} \approx \frac{1}{3}$ mm., usque ad medium stromatis subpenetrantibus; ascis cylindraceutis, p. sp. $60 \approx 5$; sporidiis ellipticis, fuscis, uniseriatis, $6-7 \approx 3-3\frac{1}{2}$.

Hab. in ligno emortuo in Nicaragua (SMITH).

3. **Hypoxylon rubellum** Penz. et Sacc. Malpighia XI, 1897, p. 491. 1931

— Peritheciis globulosis, vix 0,5 mm. diam., non v. obtuse papillatis, in caespitulos pulvinato-hemisphaericos, 2-3 mm. diam., densiuscule collectis, botryosis, lateritiis, initio rubro-furfuraceutis; ascis cylindraceutis, apice rotundatis, $120 \approx 10-12$, octosporis; sporidiis oblique monostichis, $20-24 \approx 8-9$, elliptico-fusoideis, utrinque acutulis, 1-nucleatis, fuliginis.

Hab. in culmis putridis, Tjibodas, ins. Java. — Affine *H. argillaceo* (Pers.) Berk., a quo differt acervulis multo minoribus, furfure rubro, ascis brevioribus etc.

4. **Hypoxylon microstroma** Penz. et Sacc. Malpighia XI, 1897, p. 491. 1932

— Peritheciis paucis (2-6), globulosis, $\frac{1}{4}-\frac{1}{5}$ mm. d., tenui-carbonaceis, obtuse papillatis, nigris, in stromata minuta sphaeroidea, dense gregaria, basi coarctatâ sessilia, atra, rugulosa, 1 mm. lata congestis; ascis (jam elapsis); sporidiis oblongo-ellipsoideis, utrinque obtusulis, 2-guttatis, $8-9 \approx 4-5$, dilute fuliginis.

Hab. in superficie late nigrificata lignorum, Tjibodas, ins. Java. — Affine videtur *H. paucillo* Ces., cujus sporidia ignota et quod recedit peritheciis intus albidis, stromate nitente etc.

5. **Hypoxylon ochraceum** P. Henn. Hedw. 1897, p. 228. — Stroma 1933

tibus per corticem erumpentibus, dein superficialibus, subpulvinatis, orbicularibus vel oblongis, saepe confluentibus, sublateritiis, dein ochraceis, tuberculatis, pruinosis, 2-4 mm. diametro; peritheciis subglobosis; ascis clavatis, 8-sporis, 8-9 μ . crassis, apice

obtusis; sporidiis fuscis, dein atris, oblongis, biguttulatis, 15-18
 × 7-9.

Hab. in ramis emortuis pr. Blumenau Brasiliæ (MOELLER).

6. **Hypoxylon ferrugineum** Otth, Bern. Mittheil. 1868, p. 41. — 1931
 Pavinatum immarginatum, globoso-depressum v. irregulariter plus
 minus elongatum, superficiale, extus ferrugineum, grumosum, in-
 tus obscurius; peritheciis prominulis, ostioliis minutissime papillatis;
 ascis cylindricis, 8-sporis, pedicellatis; sporidiis monostichis, late
 fusoidis, inæquilateralibus, 13 × 7, nigricantibus; paraphysibus fi-
 liformibus tenerrimis.

Hab. in ramis emortuis Tiliæ, Bern Helvetiæ.

7. **Hypoxylon lucidum** Ell. et Ev. Bull. Labor. Nat. Hist. Univ. IV, 1936
 1896, p. 72. — Effusum subpulvinatum, 2 v. 3 cm. longum, 1 1/2
 cm. latum, atrum, nitidum; peritheciis oblongo-cylindræis, 1 1/2
 × 3/4 mm. dense dispositis, ostioliis conico-hemisphæricis, subul-
 catis, stromatis superficiem asperantibus; ascis cylindræis, bre-
 viter stipitatis, paraphysatis, 75-85 × 7-8, octosporis; sporidiis obli-
 que monostichis, inæquilateraliter oblongo-ellipticis, dein opacis,
 12-14 × 6-7.

Hab. in ligno emortuo in Nicaragua (SMITH).

8. **Hypoxylon microcarpum** Penz. et Sacc. Malpighia XI, 1897, 1936
 p. 492. — Peritheciis in plagulas versiformes, 1-2 centim. long., ap-
 planatas, aterrimas densissime congestis, minutis, vix 0,25 mm.
 d., globosis, areola minuta sed distincta, centro obtuse papillatâ
 præditis; ascis cylindræis, 80 × 5-6; sporidiis monostichis, ovato-
 ellipsoideis, inæquilateralis, 7-9 × 4, fuliginis.

Hab. in corticibus superficie atratis emortuis, Tjibodas, ins.
 Java. — Ab affini *H. effuso* Nits. differt peritheciis conspicue
 minoribus et sporidiis paullo majoribus. Species *Hypoxyli* areolato-
 impressæ seriem constituunt, quæ a majori *H. discophoro* per *mar-*
ginatum, *annulatum*, *chalybæum*, *polyspermum*, *Michelianum*, *sub-*
effusum, *Archeri*, *effusum* pervenit ad pusillum hoc *H. microcar-*
pum. Observandum quod *H. effusum* apud Sacc. Myc. Malac. p. 20
 sit *H. subeffusum* Speg. (sec. exempl. orig.), nec species quam sæpe
 in Europa legimus. *H. marginatum* in H. W. Ravenel F. Amer.
 exsicc. n. 346 et 347 est nostrum *H. microcarpum*.

9. **Hypoxylon discophorum** Penz. et Sacc. Malpighia XI, 1897, p. 492. 1937
 — Peritheciis in acervulos pulvinatos 5-15 mm. latos, basi coar-
 ctatâ superficiales densissime congestis, globoso-depressis, magnis,
 usque 2 mm. diam., nigris, carbonaceis, pachydermis, areola plana

marginata circulari, nitidula, usque 1 mm. diam., medio obtusule papillata instructis; ascis (jam elapsis); sporidiis ellipsoideis, e latere reniformibus, 9-11 \times 5,5-6, e latere 4 μ . cr., fuliginis.

Hab. in corticibus emortuis, Tjibodas, ins. Java. — Species eximia, *H. chalybeo* B. et Br. (= *Rosellinia nitens* Ces. ex p.) affinis, sed perithecio areolaeque duplo latioribus mox distinguenda.

10. **Hypoxylon vernicosum** Ell. et Ev. Americ. Natur. 1897, p. 426. — 1938

Stromatibus pulvinatis, 2-3 \times 1 cm., 3-4 mm. crassis, nigris, extus vernicosis, depressione annulari ut in *Hypoxyl. marginato* cinctis, ostiolis papilliformibus; peritheciis cylindraccis, $\frac{1}{3}$ mm. diam., strato stromatico profunde immersis; ascis cylindraccis, 75-80 \times 4, breve stipitatis, octosporis; sporidiis oblongo-ellipticis, 6-7 \times 3-3 $\frac{1}{2}$.

Hab. in ligno emortuo in Ohio, Amer. bor. (MORGAN). — Omnino *Hypoxylon marginatum* in memoriam revocat, a quo stromatibus vernicosis et peritheciis cylindraccis diversum.

11. **Hypoxylon Eriodendri** P. Henn. Fungi camerun. I, in Engl. 1939

Jahrb. XXII, 1895, p. 78. — Stromatibus irregulare formatis, pulvinatis, subtuberculatis, ex brunneo atris, subcarbonaceis, extus rimoso-rugulosis, corticatis, intus pallidioribus; peritheciis ovoideis v. oblongis, circiter 1 $\frac{1}{2}$ -2 \times 1-1 $\frac{1}{2}$ mm. diam., ostiolo verrucoso, nigro; ascis cylindraccis, octosporis?; sporidiis oblique monostichis, oblongis v. ellipsoideis, plus minus inæquilateralibus, apicibus obtusis, rarius obtusiusculis, 35-70 \times 20-32.

Hab. in ramis emortuis *Eriodendri anfractuosi*, Kamerun (JUNGNER).

12. **Hypoxylon californicum** Ell. et Ev. Proc. Acad. Philad. 1895, p. 426. 1940

— Stromatibus interrupte effusis, continuis 2-4 cm. longis v. suborbicularibus, $\frac{1}{2}$ -1 cm. diam., circiter 1 mm. crassis, abrupte marginatis, ferrugineis; peritheciis monostichis, ovatis, $\frac{1}{2}$ - $\frac{1}{3}$ mm., apice subprominentibus, ostiolo minuto, papilliformi, demum perforato; ascis cylindraccis, longiuscule stipitatis, octosporis, p. sp. 90-110 \times 7-8; paraphysibus numerosis; sporidiis monostichis, oblongo-navicularibus, 14-18 \times 6-7, primitus luteolis, crasse 1-guttulatis, demum opacis.

Hab. in ramis *Adenostyli fasciculati*, California (Mc CLATCHIE). — *H. rubiginoso* proximum, sed sporidiis majoribus diversum.

13. **Hypoxylon bambusicolum** Speg.-Sacc. Syll. IX, pag. 1032 (sub 1941

Auerswaldia). — Var. *Chusqueæ* Pat. Bull. Soc. Myc. de Fr. 1895, p. 223. — Crustaceo-effusum, tenue, atrum, 0,5 cm. diam. suborbiculare, convexum, pruina alba sæpe conspersum; peritheciis

stromate immersis, globosis, minutis, papillato-ostiolatis; ascis octosporis, 150×12 ; sporidiis ellipticis, navicularibus, 2-guttulatis, brunneis, $25-30 \times 10$.

Hab. in truncis emortuis Chusqueæ in Æquat. (v. LAGERHEIM).

KRETZSCHMARIA Fr. — Syll. IX, p. 565, XI, p. 287.

1. **Kretzschmaria gomphoidea** Penz. et Sacc. Malpighia XI, 1897, 1942
p. 493. — Stromatibus in hypostromate effuso superficiali scoriaceo nigro densissime confertis, obconico-claviformibus, apice dilatato convexo-planis, breve sensim stipitatis, 3-4 mm. lat. et alt. (cum stipite), verruculosus, opace nigris, carbonaceis, intus albidis; peritheciis 10-20 in disco stromatis immersis, monostichis, 0,4-0,5 mm. d., ostiolis punctiformi-prominulis; ascis cylindræis, apice rotundatis, longiuscule stipitatis, $60 \times 5-6$ p. sp., octosporis, paraphysatis; sporidiis oblique v. recte monostichis, ellipsoideis, inæquilateralis, $8-10 \times 5-6$, fuligineis.

Hab. in corticibus emortuis, Tjibodas, ins. Java. — Ab affinibus *K. Clavo* et *K. angolensi* differt peritheciis in quoque stromate magis numerosis, a *K. Clavo* præterea sporidiis multo minoribus (nec 40×10). Stromata, e mutua pressione interdum subangulosa, clavulos bene imitantur.

2. **Kretzschmaria spinifera** Ell. et Macbr. Bull. Labor. Nat. Hist. 1943
Univ. Jowa IV, 1896, p. 71. — Stromatibus oblongo-ovatis, 3-6 mm. longis latisque, 4-6 mm. altis, superficialibus, confertis, e mutua pressione subangulosis, non confluentibus, asperulis, atris, carbonaceis, supra rotundatis, *Hypoxylon coherenti* valde affinibus; peritheciis 1-3 in quoque stromate, $1\frac{1}{2}$ mm. diam., globosis; ostiolis initio papillosis, dein elongatis, breve cylindræis; ascis non visis; sporidiis latis, naviculari-fusoideis, continuis, opacis, compressis, $25-35 \times 10-12$, plerumque medio angustatis.

Hab. in ligno vetusto, Mexico (SMITH). — *K. cænope* (Mont.) affinis, at differt ostiolis prolongatis et sporidiis maioribus. Stromata quoque sessilia occurrunt, basi crusta substromatica connexa.

3. **Kretzschmaria sessilis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 223. 1944
— Stromatibus dense gregariis, crusta atra late effusa insidentibus, subglobosis, sessilibus, 2-3 mm. latis, atris, rugosis, fragilibus, intus albis; peritheciis paucis, globosis, fusco-atris, prominulis; sporidiis inæquilateralibus, continuis, fusco-brunneis, $11-13 \times 5-6$, ellipticis, utrinque obtusis.

Hab. in truncis putridis in Æquatoria (v. LAGERHEIM).

PENZIGIA Sacc. — Syll. IX, p. 567.

1. **Penzigia macrospora** Penz. et Sacc. Malpighia XI, 1897, p. 494. — Stromatibus hemisphærico-depressis, breve stipitatis vel puncto centrali stipitiforimi affixis, integris v. sæpius varie lobatis et superne undulatis, carbonaceis, extus pellicula flavido-alba tectis, intus sub cortice nigro albidis, compactis, 4-10 mm. diam., stipite 1-2 mm. long., latente; peritheciis monostichis, globulosis, nigris, 0,7 mm. diam., ostiolo punctiformi, nigro non emergente; ascis cylindraceis, apice rotundatis, breve crasseque stipitatis, 180-200 \approx 26-28, octosporis; sporidiis monostichis, crasse ellipsoideis, utrinque obtusulis, 30-35 \times 18-20, atro-fuligineis.

Hab. in corticibus emortuis, Tjibodas, ins. Java. — Eximia species, forma et magnitudine stromatis sporidiorumque facile dignoscenda. Perithecia in quoque stromate 60-80 et plura.

NUMMULARIA Tul. — Syll. I, p. 395, IX, p. 569, XI, p. 288.

1. **Nummularia uni-apiculata** Penz. et Sacc. Malpighia XI, 1897 p. 494. — Stromatibus subcutaneo-erumpentibus, applanatis, 3-5 cm. long. (*Diatrypen* · *Stigma* imitantibus), intus et extus nigris, ob ostiola minutissima, crebriuscula, vix emergentia punctulatis, ambitu peridermio rupto cinctis; peritheciis monostichis, globosis, $\frac{1}{4}$ mm. diam.; ascis cylindraceis, apice rotundatis, 100-110 \approx 7-8, breviter stipitatis, octosporis; paraphysibus filiformibus, guttulatis; sporidiis monostichis, oblongo-ellipsoideis, apice obtusulis, fuligineis, 2-nucleatis, basi apiculo subtriangulari, hyalino, 3 \approx 3, auctis, 13-15 \approx 6 (cum apic.).

Hab. in corticibus emortuis, Tjibodas, ins. Java. — *Numm. subapiculatæ* Ell. et Ev. N. Am. Pyr., p. 625 affinis, differt peritheciis multo minoribus, non compressis, sporidiis basi tantum apiculatis etc.

2. **Nummularia minutula** Penz. et Sacc. Malpighia XI, 1897, p. 495. — Stromatibus plano-pulvinatis, suborbicularibus, carbonaceis, matrici adnatis et basi circum circa zonula stromatica angusta cinctis, intus et extus atro-nitidis, 1-1,5 mm. diam., superficie levissimis (ostiolis non conspicuis); peritheciis ovoideis, perexiguis, 100-150 μ . diam., monostichis, in quoque stromate numerosis (20-30); ascis jam resorptis; sporidiis fuscoideo-ellipticis, obtusulis, 10 \approx 5, rectis, fuligineis.

Hab. in culmis emortuis *Bambusæ*, Tjibodas, ins. Java. — Affinis *N. pusille* Sacc. et *Hypoxyla microsporo* Ces. Et re vera

utrique generi proxima, sed stromatibus disciformibus, limbitatis, levibus *Nummulariæ* affinior videtur.

3. *Nummularia albosticta* Ell. et Morg. Bull. Torr. Bot. Cl. 1897. 1948
p. 135. — Stromate effuso, tenui, 1 mm. crasso, 3-4 \approx 1 cm., plerumque margine tenui, erecto, schistaceo, lævi, sed ostiolis minutis, papilliformibus, albidis adperso; peritheciis oblongis, 1 \approx $\frac{1}{4}$ - $\frac{1}{3}$ mm., confertis; ascis cylindræis, 130 \approx 8-9, stipitatis, paraphysatis; sporidiis uniseriatis, oblongo-ellipticis, subacutis, primo padidis, denique brunneis, 14-16 \approx 7-8.

Hab. in ligno vetusto Caryæ in Ohio Amer. bor. (MORGAN).

Nummularia Mœlleriana P. Henn. Hedw. 1897, p. 228. — Stro- 1949
matibus ramicolis, explanatis, vix elevatis, cinereis, 10-15 mm. longis; peritheciis immersis, sphaeroideis, atris; ascis cylindræo-clavatis, obtusis, plus minus stipitatis, p. sporif. 30-40 \approx 3-4; sporidiis oblique monostichis, ellipsoideis, interdum inæquilaterali-bus, utrinque obtusis, 4 $\frac{1}{2}$ -5 \approx 3 $\frac{1}{2}$ -4, brunneo-atris.

Hab. in ramis pr. Blumenau Brasiliæ (MOELLER).

5. *Nummularia ustulinoides* P. Henn. Hedw. 1897, p. 227. — Stro- 1950
matibus late effusis, convexis, carbonaceo-nigris, opacis, ad 5 cm. diametro, 1 cm. crassis, ostiolis verruciformibus; peritheciis immer-sis oblongis; ascis cylindræis, 8-sporis, pedicellatis; sporidiis oblique monostichis, ellipsoideis vel ovoideis, utrinque obtusis, fusco-brun-neis, dein atris, 4 $\frac{1}{2}$ -5 $\frac{1}{2}$ \approx 3.

Hab. ad truncos pr. Blumenau Brasiliæ (MOELLER).

6. *Nummularia hyalospora* Pat. Bull. Soc. bot. Fr. 1898, p. 56, 1951
t. VII, f. 5. — Stromate atro, orbiculari v. longe elliptico, erum-pente, 2-10 cm. longo, applanato, vix sub lente punctulato, 1-2 mm. cr. margine sterili, contextu atro, carbonaceo; peritheciis erectis, densissime stipatis, ostiolo minuto donatis; sporidiis octonis, ellipsoideis, utrinque attenuatis, hyalinis v. pallidissime fuliginosis-intus guttulatis, 30 \approx 8.

Hab. ad ramos corticatos in Mexico (MAURY). — Ab affini *N. Bullardi* sporidiis multo majoribus et vix coloratis digno-scitur.

Nummularia cinnabarina P. Henn. Hedw. 1897, p. 227. — Stro- 1952
matibus suborbicularibus vel effusis, superficialibus, pulvinatis, planis, 2-3 $\frac{1}{2}$ cm. diametro, cinnabarinis, farinosis, intus subatris, margine tenuibus, concoloribus, ostiolis verruciformibus, dein atris, nitentibus; peritheciis subglobosis; ascis cylindræis, 8-sporis, pedi-cellatis p. sporif. 50-60 \approx 5-6, pedicello hyalino, 30-45 \approx 4-5; sporidiis

monostichis, ellipsoideis vel ovoideis, fusco-brunneis, dein atris, 2-guttulatis, 8-10 \times 4-5.

Hab. ad cortices arborum pr. Blumenau Brasiliæ (MÖLLER). — *Nummulariæ lateritiæ* Ell. et Ev. proxima.

PYRENOXYXA Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, p. 42.

(Etym. *Pyrenomycetes* habitu *Myromycetis*). — Stromata superficialia, pulvinata, carbonacea, superne cellulas stipatas, cylmuraceas monostichas tenui-membranaceas, late inæqualiter apertas ferentia. Asci (jam resorpti?). Sporidia allantoideo-navicularia, continua, brunnea.

1. **Pyrenomyxa invocans** Morg. l. c. t. II, fig. 15. — Stromatibus 1953 pulvinatis, plus minus elongatis, irregularibus, 2-3 cm. longis, cm. crassis, intus nigris, extus ochraceis, superne cellulas magnas, confluentes, gregarias, compressas, tenui-membranaceas, margine crenulatas ferentibus; sporidiis brunneis, allantoideo-navicularibus, tenuibus, 12-15 \times 4-6.

Hab. in ligno indurato Caryæ, Ohio Amer. bor. — An forma abnormis?

Sect. 3. Hyalosporæ.

CERATOSTOMELLA Sacc. — Syll. I, p. 408, IX, p. 573, XI, p. 289

1. **Ceratostomella polyrrhyncha** Penz. et Sacc. Malpighia XI, 1897, 1954 p. 408. — Peritheciis laxè gregariis, superficialibus, globosis, 100-200 μ diam., nigris, glabris, demum sæpe collabascendo supra umbilicatis, ostioli subternis in quoque perithecio, filiformibus, sursum divergentibus, perithecio triplo longioribus; ascis fusoido-oblongis, sessilibus, apice rotundatis, 60-65 \times 10-12, aparaphysatis, octosporis; sporidiis distichis v. oblique monostichis, oblongo-ellipsoideis, rectis v. curvulis, intus granulosus v. binucleatis, 15-18 \times 5-6, hyalinis.

Hab. in cortice putrescente Elettariæ, Tjibodas, Java. — Perithecii contextus parenchymaticus, castaneo-fuliginæus, ostioli prosenchymaticus, nigricans. A *C. multirostrata* differt ostioli longioribus, peritheciis minoribus, ascis sporidiisque majoribus.

2. **Ceratostomella excelsior** Mout. Compt. rend. Bull. Soc. Roy. 1955 Bot. Belg. XXXVI, 1897, 2 part. p. 12. — Peritheciis immersis, globosis, $\frac{1}{3}$ mm. atris, glabris, collo cylindrico, rigido, glabro, recto v. plus minus flexuoso, 0,6-1 mm. \times 80 μ ; ascis oblongo-cylindraceis, apice truncatis, filiforme stipitatis, 8-sporis, 70 (p. sp. 55) \times 10;

sporidiis biseriatis, oblongis, obtusis, rectis v. leniter curvulis, 2-4 (vulgo 3)-guttulatis, 14-17 \times 4.

Hab. in ligno putrescente Fraxini pr. Liège Belgii.

LÆSTADIA Auesrw. *) — Syll. I, p. 420, IX, p. 577, XI, p. 289.

1. **Læstadiá rubicola** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 129. 1956

— Peritheciis dense sparsis, subcuticularibus, depresso-hemisphæricis, collapsis, ostiolo papilliformi apice late perforatis; ascis clavato-cylindræcis, stipitatis, p. sp. 60 \times 7-8, utrinque angustatis acutisque; paraphysibus obscuris, ascis brevioribus; sporidiis biseriatis, oblongo-ellipticis, hyalinis, biguttulatis, utrinque obtuso-rotundatis, 12-14 \times 5-6.

Hab. in caulibus emortuis Rubi strigosi in Canada (DEARNESS).

2. **Læstadiá Calycotomes** Roll. Bull. Soc. Myc. de Fr. 1896, p. 3, 1957

tab. II, fig. 3. — Peritheciis corticulis, nigris, numerosis, amphigenis, globosis, membranaceis, epidermide velatis, dein erumpentibus, ore irregulari pertusis, nucleo albo donatis, circiter $\frac{1}{4}$ mm. latis; ascis aparaphysatis, fasciculatis, clavato-subfusiformibus, breve stipitatis, crassis, præcipue ad verticem, 8-sporis, 80-100 \times 20; sporidiis hyalinis, irregulariter ellipticis, subdistichis, varie guttatis, 17-22 \times 6-7.

Hab. in ramulis siccis Calycotomes spinosæ. Golfe Juan Galliæ.

3. **Læstadiá Cæsalpinix** Pat. Ann. Jard. Buitenzorg 1897, p. 121. 1958

— Maculis epiphyllis minutis, pallidis; peritheciis gregariis, globosis, atris, 200 μ . diam., poro pertusis; ascis fusiformibus utrinque attenuatis, 80-100 \times 13-18, octosporis, aparaphysatis; sporidiis monostichis, ovoideis, simplicibus, hyalinis, 10-12 \times 8.

Hab. in foliis Cæsalpinix spec. in insula Java.

4. **Læstadiá astragalina** Rehm in Ascomycetes exs. fasc. XXIV, 1959

n. 1246, Hedw. 1898, p. (144). — Peritheciis in maculis foliorum fusciculis exsiccatisque gregariis, sessilibus, semiglobosis, dimidiatis, poro pertusis, mollibus, parenchymatice rubro-fusco contextis, 200 μ . diam; ascis clavatis, octosporis, 66 \times 16, aparaphysatis; sporidiis distichis, oblongis, obtusis, unicellularibus, guttulas oleosas duas minutissimas continentibus, hyalinis, 12-15 \times 7.

*) Quod ad nomen *Læstadiæ* pertinet cfr. Syll. fung. XI, p. 289 (nota). Rationibus datis etiam nomen *Guignardia* Viala et Rav. (1892) superfluum evadit.

Hab. ad folia *Astragali Ciceris* pr. Jena Germaniæ (STARFZ).

5. *Læstadia illiciicola* Tracy et Earle, Bull. Torr. Bot. Club. 1895, 1960
p. 176. — Maculis amphigenis magnis, irregularibus, subbrunneis, subaridis, definite limitatis, plerumque apicem foliorum involventibus; peritheciis numerosissimis, sparsis, erumpentibus, nigris, membranaceis, suborbicularibus v. lenticularibus, obscure ostiolatis, demum collabentibus; ascis aparaphysatis, clavatis, stipitatis, apice incrassatis, 40-50 × 10-12; sporidiis ovoideis v. fusiformibus, continuis, hyalinis, granulosis, circiter 15 × 5.

Hab. in foliis vivis *Illicii floridani*, Mississippi, Amer. bor. 1961

6. *Læstadia tunetana* Pat. Enum. Champ. Tunisie, 1892, pag. 12.
— Peritheciis minutis, 160-200 μ . diam., globosis, subepidermicis, dein prominentibus, seriatim dispositis; ostiolo papilliformi; ascis claviformibus, apice obtusis, basi in stipitem brevem attenuatis, 90-100 × 15-20, octosporis; paraphysibus nullis; sporidiis distichis, hyalinis, simplicibus, ovali-elongatis, 20-22 × 5-7.

Hab. in caulibus siccis *Umbelliferarum* in Tunisia.

7. *Læstadia Staphyleæ* Hazsl. Math. es term. Közlem. Budapest. 1962
1892, p. 118. — Peritheciis subcutaneo-erumpentibus, subcarbonaceis, superficie tuberculatis v. valde asperatis; ascis ovato-oblongis, aparaphysatis; sporidiis ovoideis 8-10 μ . longis.

Hab. in ramulis junioribus *Staphyleæ pinnatæ*, quos destruit, in hortis *Eperies Hungaria*.

8. *Læstadia allantospora* Hazsl. Math. es term. Közlem. XXV, 2, 1963
Budapest 1892, p. 116, t. VII, f. 28. — Peritheciis gregariis, in epidermide nidulantibus, conico-hemisphæricis emergentibus, poro terminali dehiscentibus, nudis; ascis cylindricis, subsessilibus, 40 × 10 intermixtis, ascis clavatis in basim brevem attenuatis, omnibus 8-sporis; sporidiis biseriatis, allantoideis i. e. cylindricis, curvatis, obtusis, hyalinis, 12-16 × 3-4.

Hab. in caulibus emortuis *Scabiosæ ochroleucæ* in Hungaria.

9. *Læstadia Scrophulariæ* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 1964
p. 129. — Peritheciis sparsis, subcuticularibus, 100-130 μ . diam. per epidermidem leviter elevatam conspicuis; ascis clavato-cylindraceis, 35-40 (p. sp. 25-30) × 6-7; sporidiis distichis, oblongis, obtusis, nucleatis, continuis, hyalinis, 9-12 × 3-3 1/2.

Hab. in caulibus emortuis *Scrophulariæ*, Canada Amer. bor. (DEARNESS).

10. *Læstadia coffeicola* Speg. Rev. Agr. y Veter. La Plata, 1896, 1965
p. 343. — Maculis amphigenis, orbicularibus, majusculis, 5-15,
mm. diam., eximie limitatis ex arescente albis; peritheciis epiphyllis,
parenchymate immersis, globoso-depressis, 80-100 μ . diam., irre-
gulariter sparsis, parum perspicuis, glabris, atris, membranaceis,
contextu sinuoso-parenchymatico; ascis cylindraceutis v. subclavulatis
45 \times 10, aparaphysatis, deorsum breviter attenuato-pedicellatis, 8-
sporis; sporidiis distichis, obovatis, leniter inæquilateralibus, utrin-
que obtusiusculis, 10-14 \times 4-6, continuis, hyalinis.
Hab. in foliis languidis *Coffeæ arabicæ*, Costa-Rica.
11. *Læstadia Cerberæ* F. Tassi, Atti R. Acc. dei fisioer. Siena, IV 1966
ser. VIII, 1896, (Microm. III, pag. 3) et Rev. Mycol. 1896,
p. 157, tab. CLXVI, fig. 1. — Peritheciis epiphyllis sparsis, epi-
dermide velatis, globoso-depressis, apice anguste pertusis, 100-125
diam., contextu fuligineo; ascis cylindraceuto-clavatis, breve attena-
to-stipitatis, apice rotundatis, 40-50 \times 10-16, aparaphysatis, octo-
sporis; sporidiis distichis vel inordinatis, continuis, ovato-oblongis,
endoplasmate granuloso farctis, hyalinis, 10-11 \times 4-4,5.
Hab. in foliis petiolisque exsiccatis *Cerberæ veneniferæ*
in India occid.
12. *Læstadia Cephalariæ* (Awd.) Sacc. Syll. I p. 425. — var. *Alter-* 1967
nantheræ Sacc. Fl. mycol. Lus. p. 68. — Peritheciis 100-150 μ
diam., poro pertusis, emergentibus atro-nitidulis; ascis clavulatis,
45-60 \times 10-11; sporidiis distichis, oblongo-ellipsoideis, subinde inæ-
quilateris, 12-15 \times 5-6, guttulatis, hyalinis.
Hab. in foliis languidis *Alternantheræ sessilis*. S. Tho-
mé Afric. occid. (MOLLER).
13. *Læstadia lupulina* Hazsl. Math. es term. Közlem. XXV, 2, Bu- 1968
dapest, 1892, p. 116, tab. VII, fig. 29. — Peritheciis minutissimis,
globosis, dense aggregatis, zonas lineares in superficie caulium for-
mantibus, solummodo ascis farctis; ascis obovato-clavatis, crassitu-
dine maxima quadruplo longioribus; sporidiis ovalibus, 6 \times 4.
Hab. in caulibus emortuis *Humuli Lupuli* in Hungaria.
14. *Læstadia carpinea* (Fr.) Sacc. Syll. I, p. 426. — var. *salicina* 1969
Sacc. Malpighia XI, 1897, p. 45. — Peritheciis depressis; sporidiis
15-16 \times 5-6.
Hab. in foliis *Salicis Lapponium* et *S. herbacææ*, Val-
sesia in Italia boreali.
15. *Læstadia linearis* Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, 1970
p. 158. — Maculis pallidis, 1-2 cm. diam., linea nigra circumda-

tis; peritheciis in maculis sparsis vel 2-3 confluentibus, parenchymate immersis, globulosis, 300 μ ., atris, nitidis, coriaceis, ostioliis hysteroideis, linearibus vel 3-radiatis; ascis aparaphysatis, claviformibus, 72-108 \times 14-18, sessilibus, 8-sporis; sporidiis hyalino-
viridulis, fusioideis, guttulatis, unicellularibus, 28-32 \times 7 $\frac{1}{2}$, di-vel
tristichis.

Hab. in foliis coriaceis siccis, Costa-Rica.

16. **Læstadia Traversi** Cav. Fung. Longob. V, n. 231. — Peritheciis 1971
dense gregariis sub epidermide nidulantibus, dein erumpentibus, depressis, patellaribus, ostiolo prominulo, cirro albo prædito; ascis cylindraceo-clavatis, 50 \times 10-12; sporidiis ellipticis, hyalinis, nonostichis, 10 \times 4; paraphysibus nullis.

Hab. in foliis *Vanillæ planifoliæ* in Italia.

- 17 **Læstadia Rehmii** Sacc. et Syd. Sic nominanda est *Læstadia Gentianeæ* Rehm in Syll. XI, p. 290, quum exstet præcedens *L. Gentianeæ* Br. et Har. in Syll. IX, p. 577.
18. **Læstadia Boyeri** Sacc. et Syd. Ita nuncupanda *L. Spartii* (Boy. et Jacz. [1894]) Sacc. Syll. XI, p. 290, extante homonyma *Passerinii* [1891].

PHOMATOSPORA Sacc. — Syll. I, p. 432, IX, p. 589, XI, p. 291.

1. **Phomatospora Maireana** Fautr. et Lamb. Rev. Mycol. 1897, p. 142. 1972
— Peritheciis minutis, numerosis, gregariis, tectis, membranaceis papillatis; ascis cylindraceis curvulis, deorsum attenuatis, aparaphysatis, 60 \times 10; sporidiis hyalinis, simplicibus, ovalibus, monostichis, obliquis, 13-16 \times 6.

Hab. in caulibus siccis *Laserpitii gallici* in Gallia.

2. **Phomatospora Libanotidis** Fautr. et Lamb. Rev. Mycol. 1897, 1973
p. 142. — Peritheciis numerosis minutis, laxè gregariis, epidermide tectis, nigris, sphaericis, membranaceis, areolatis, breve papillatis; ascis aparaphysatis, cylindraceis, rectis v. curvulis, basi attenuatis, apice rotundatis, 50 \times 12; sporidiis hyalinis, simplicibus, fusioideis, obtusiusculis, 16 \times 3-4.

Hab. in caulibus siccis *Libanotidis montanæ* in Gallia.

3. **Phomatospora Napaniæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena, 1974
4 ser. VII¹ 1896, p. 5 et Rev. Mycol. 1896, p. 157, tab. CLXVI, fig. 2. — Peritheciis sparsis v. subgregariis, primo epidermide tectis, prominulis, dein denudatis, sphaeroideis, siccitate collabentibus, nigris, pertusis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., contextu membranaceo, atrofuligineo; ascis cylindraceis, 36-40 \times 4-5, apice obtuse rotundatis.

basi breviter attenuatis, aparaphysatis; sporidiis monostichis, ellipsoideis, phomatoideis, continuis, 2-guttulatis, hyalinis $4-4\frac{1}{2} \approx 2\frac{1}{2}$. Spermagonium: Peritheciis ascophoris similibus, sed 100-150 μ . diam.; spermatis ovatis v. ovato-oblongis, $2 \approx 1$, 2-nucleatis, hyalinis.

Hab. in bracteis emortuis *Mapaniae humilis* in horto botanico Senensi Italiae. — Affinis *P. Berkeleyi* Sacc., sed differt præcipue ascis breviter attenuato-stipitatis ad basim, sed minore longitudine et latitudine.

PHYSALOSPORA Niessl — Syll. I, p. 433, IX, p. 591, XI, p. 291.

1. *Physalospora latitans* Sacc. Fl. mycol. Lus. p. 67. — Peritheciis amphigenis, gregariis, immersis, globulosis, nigris, $\frac{1}{4}$ mm. diam., latentibus, dein epidermidem lenissime pustulatum elevantibus, ostiolo depresso; ascis cylindræis subsessilibus, 110-120 \approx 9, octosporis, apice obtuse conico intus bi-foveolato; paraphysibus brevibus, inæqualibus; sporidiis oblique monostichis, oblongo-ellipsoideis, sæpius inæquilateris, utrinque obtusulis, 18-21 \approx 8-8 $\frac{1}{2}$, hyalinis, nubiloso-guttulatis. 1975

Hab. in foliis emortuis *Eucalypti colosseæ*, Coimbra Lusitaniæ (MOLLER). — Peritheci contextus laxiusculus, fusco-olivaceus. Ascii lumen apice truncatum. A speciebus notis abunde diversa.

2. *Physalospora suberumpens* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 130. — Peritheciis gregariis, primo epidermide pustulato-elevata tectis, dein semierumpentibus, intus albis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., apice erumpente conico-hemisphærico, ostiolo distincte papilliformi v. conico-papilliformi ornatis; ascis latis, clavato-cylindræis, 80-100 \approx 18-20; sporidiis irregulariter confertis, ellipticis v. ovato-ellipticis, hyalinis, 18-21 \approx 9-11. 1976

Hab. in cortice *Eucalypti Globuli* in California (Mc CLATCHIE).

3. *Physalospora ampelina* Hazsl. Math. es term. Közlem. XXV, 2, Budapest, 1892, p. 121, tab. VII, fig. 30. — Peritheciis hemisphæricis, ostiolo rotundo perforatis, sub epidermide nidulantibus, demum epidermidem perforantibus, eolummodo ascis fasciculatim junctis et paucis paraphysibus filiformibus farctis; ascis ovato-oblongis, 8-sporis; sporidiis ovalibus 8 \approx 4-6.

Hab. in ramis emortuis *Vitis viniferæ* in Hungaria.

4. *Physalospora carpogena* Atk. Bull. Cornell Univ. III, n. 1, 1897, 1978

p. 8. — Peritheciis nigris, erumpentibus, non papillatis, 80-100 μ . diam.; ascis clavatis v. cylindraceutis, 40-50 \times 10-12, paraphysatis; sporidiis distichis, clavatis v. late fusoideis, inæquilateralibus, hyalinis, 12-14 \times 3 $\frac{1}{2}$ -4.

Hab. in fructibus Rubi villosi, Auburn, Alabama Amer. bor.

5. **Physalospora perversa** Rehm in Rabenhorst-Pazschke, Fungi 1979 europ. n. 4162. — Peritheciis innatis, gregariis, pagina folii superiore dilute flavide maculata et ab iis nigro-punctata, pagina inferiore haud decolorata, semiglobose prominentibus, papilla subconoidea plerumque instructis et poro minutissimo pertusis, nigris, glabris, demum radiatim rugulosis, subcarbonaceis, 400-500 μ . diam.; ascis cylindraceutis apice rotundatis, 90 \times 15, octosporis; sporidiis plerumque monostichis, oblongis, obtusis, unicellularibus, hyalinis, 12-14 \times 6-8; paraphysibus ramosis, hyalinis.

Hab. in foliis vivis Araliacearum spec. cujusd., San Francisco, Estado St. Catharina Brasiliæ (ULE). — Jodii ope asci non tinguntur.

6. **Physalospora Citharexyli** Rehm in Rabenhorst-Pazschke, Fungi 1980 europ. n. 4161. — Peritheciis gregariis, innatis in pagina superiore foliorum maculas efficientibus irregulariter subrotundas $\frac{1}{2}$ -1 $\frac{1}{2}$ cm. latas, primitus fuscidulas, dein exalbatas et siccas, ipsis peritheciis nigro-punctatas, in pagina inferiore dilute fuscidulis prominentibus, ostioli papilliformibus instructis, globosis, atris, glabris, 200-250 μ . diam., ascis oblongis, sessilibus, apice rotundatis, 75 \times 12, octosporis; sporidiis distichis, ellipticis, unicellularibus, hyalinis 15 \times 6; paraphysibus filiformibus, hyalinis, ca 3 μ . crassis.

Hab. in foliis vivis Citharexyli spec., Sao Francisco, Estado Sta. Catharina Brasiliæ (ULE).

7. **Physalospora Everhartii** Sacc. et Syd. *Physalospora Corni* Ell. et 1981 Ev. Proc. Acad. Philad. 1895, p. 421. — Peritheciis dense sparsis, globosis, circiter 200 μ . diam., intus albis, epidermide in pustulas elevata, nigrificata et ostiolo papilliformi pertusa tectis; ascis clavato-cylindraceutis, 70-90 \times 11-13, breve stipitatis, paraphysatis; sporidiis distichis, naviculari-fusoideis, continuis, hyalinis, lenissime curvulis, 20-26 \times 4-5, passim 20-26 \times 6-8.

Hab. in ramis emortuis Corni, Colorado, Amer. bor. — Teste ipso auctore, a *Ph. Corni* Sacc. vix differt sporidiis paullo majoribus. Specimina a cl. Macoun in Canada lecta præbent sporidia latoria (6-8 μ .) et ascos obscure paraphysatos (Cfr. Bull. Torr. Bot. Cl. 1898, p. 514).

8. **Physalospora Molluginis** (Otth) Sacc. Hedw. 1896, p. XXVII. 1982
Stigmatea Molluginis Otth, Bern. Mittheil. 1868, p. 57. — Hypophylla et caulicola; peritheciis compluribus aggregatis, tenuibus, mollibus, depressis, innatis, epidermide atrata et pustulata tectis, demum collapsis; ostiolo inconspicuo; nucleo cinereo, lentiformi; ascis clavatis, erectis, convergentibus, octosporis; sporidiis hyalinis, minutis, oblongis, $10 \approx 2,5$, utrinque attenuatis, 2-guttatis; paraphysibus linearibus ascos æquantibus
Hab. in foliis caulibusque Galii Molluginis p. Bernam in Helvetia.
9. **Physalospora betulina** Ell. et Ev. Americ. Natur. 1897, p. 341. 1983
 — Peritheciis subgregariis, cortice immersis, sed apicibus epidermidem in pustulas elevantibus, ovato-globosis, 400-500 μ . diam., intus dilute tinctis; ostiolo inconspicuo; ascis clavato-cylindraceutis, $110 \approx 12$, paraphysibus numerosissimis; sporidiis monostichis, ellipticis v. obovatis, hyalinis, majusculè 1 vel 2 nucleatis, $18-22 \approx 10-12$.
Hab. in cortice Betulæ Newfoundland Amer. bor. (WAGHORNE).
10. **Physalospora camptospora** Sacc. Bull. Soc. Roy. Bot. Belg. XXXV, 1984
 1896, p. 127, tab. III, fig. 1. — Peritheciis laxè gregariis v. hinc inde confertis, subcutaneo-erumpentibus, prominulis, globoso-inæqualibus, 200-300 μ . diam., ostiolo obtuso sæpe irregulari pertusis, contextu minute celluloso fuligineo; ascis cylindraceutis, brevè stipitatis, spurie paraphysatis, apice obtusis, lumine initio obsolete bifoveolato, octosporis; sporidiis distichis, cylindraceuto-oblongis, plus minus arcuatis, utrinque rotundatis, $20-24 \approx 4-5$, continuis, færetis, hyalinis, plasmate sæpe imperfectè bipartito.
Hab. in foliis emortuis Orchidearum epiphytarum in Brasilia (P. BIXOR). — Affinis *P. fusisporæ* aliisque sed sporidiis curvis etc. diversa.
11. **Physalospora Wildemaniana** Sacc. Bull. Soc. Roy. Bot. Belg. 1935
 XXXV, 1896, p. 128, tab. III, fig. 2. — Peritheciis hypophyllis, hinc inde dense gregariis, epidermide tectis, globoso-lenticularibus, 0,3 mm. diam., nigris, ostiolo impresso pertusis, dein concavis, contextus cellulis amplis sinuosis subradiatim dispositis; ascis teretifusoideis, 50-60 \approx 8-9, subsessilibus, apice obtusulis, octosporis; paraphysibus flexuosis, paucis evanidis; sporidiis oblique monostichis v. distichis, brevè fusoideis, utrinque acutulis, subrectis, $15-16 \approx 5$, hyalinis.
Hab. in foliis emortuis Orchidearum epiphytarum in Brasilia. — Affinis *Ph. falluciosæ* aliisque sed satis distincta videtur

12. **Physalospora tucumanensis** Speg. Rev. Agr. y Veter. La Plata, 1936 1896, p. 228. — Maculis nullis v. toto folio arescenti-pallescente; peritheciis hypophyllis, laxè gregariis, sæpius seriatis, globosis, parvulis, 110-130 μ . diam., glabris, immersis, epidermide tectis eisque subadnatis, ostiolo vix papillato-coriaceis, contextu subopaco parenchymatico olivaceo donatis; ascis subelavatis, antice rotundatis, postice breviter cuneato-pedicellatis, 80-90 \times 18, octosporis, paraphysibus filiformibus obvallatis; sporidiis oblique distichis, ellipsoideis, sæpius tenuiter inæquilateralibus, in juventute sæpe grosse 1-guttulatis, utrinque obtusiusculis, 18-22 \times 8-10, continuis, hyalinis, levibus.

Hab. in vaginis vetustis vel foliis languidis Sacchari officinarum, prov. Tucuman, Argentina

UROSPORELLA Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 99

Etym. ab *Urospora*, cui affinis). — Characteribus *Urospore*, sed sporidiis utrinque flagello longo, gracili, ciliiformi, flexuoso ornatis.

1. **Urosporella americana** Atk. l. c. p. 10. — Peritheciis immersis. 1987
nigris, prominulis, epidermidem valde elevantibus, globosis, plerumque ostiolo brevissimo minuto papillato ornatis, apice erumpentibus, 250-300 μ . diam.; ascis cylindræis, stipitatis, 70-80 \times 7-9. apapaphysatis; sporidiis octonis, ellipticis, inæquilateralibus, hyalinis, utrinque flagello gracillimo; hyalino, flexuoso, ciliiformi munitis, 12 \times 5-7, ciliis 7-10 \times 1/2.

Hab. in caulibus plantæ herbacæ cujusdam. Auburn, Alabama Amer. bor.

DITOPPELLA De Not. — Syll. I, p. 450, IX, p. 602

1. **Ditopella Popul** Schroet. Kryptog.-Flora v. Schlesien. 1897, p. 387. 1988
— Peritheciis gregariis, immersis, subconfertis, globosis, circiter 0,4 mm. latis, epiphyllis, erumpentibus, poro cylindræo-acuto usque 4 mm. longo, pertusis, nigris; ascis fusiformibus, 110 \times 11, polysporis; sporidiis polystichis fusiformi-bacillaribus, utrinque attenuatis, obtusis, 20-25 \times 3 1/2-4 1/2, unicellularibus, hyalinis.

Hab. in foliis putrescentibus Populi incanæ in Silesia.

TRICHOSPHERIA Fuck. — Syll. I, p. 452. IX, p. 602, XI, p. 293.

1. **Trichosphæria affinis** Penz. et Sacc. Malpighia XI, 1897, p. 391. 1989
— Peritheciis laxè gregariis, superficialibus, globoso-conoideis, 0,3-0,4 mm. diam., tenuiter carbonaceis, nigris, hirtis; setulis ra-

riusculis, rigidulis, rectis, acutis, septatis, fuligineo-atris, 150-250 \times 8; ascis cylindræis, brevè stipitatis, apice rotundatis, 74 \times 6-7, octosporis; paraphysibus filiformibus, guttulis; sporidiis monostichis, ellipsoideis, 10-12 \times 6, crasse biguttatis, hyalinis.

Hab. in petiolis emortuis Palmarum, Java. — Affinis videtur *T. nobili* Sacc. et *T. Ansellæ* E. March.

2. **Trichosphæria proxima** Penz. et Sacc. Malpighia XI, 1897, p. 391. 1990

— Peritheciis gregariis, globoso-conoideis, nigris, carbonaceis, 0,7 mm. diam., hirtis; setulis crebris, filiformibus, rectiusculis, septatis, atro-fuligineis, 350-400 \times 7-8; ascis cylindræis, brevè stipitatis, apice rotundatis, 86-90 \times 8-9, octosporis; paraphysibus filiformibus, brevibus (resorptis?); sporidiis ellipsoideis, 12 \times 7, oblique monostichis, intus granulosis, hyalinis.

Hab. ad ramos putres, Java.

3. **Trichosphæria Sacchari** Masee Sacc. Syll. XI, p. 294. — Sec.

Masee stat. conid. est *Melanconii* species, quæ sec. Prillieux et Delacroix est *Coniothyrium melasporum* (Berk.) Sacc. cfr. Bull. Soc. Myc. 1895, p. 80, tab. X; sed reapse peritheciium abesse videtur, hinc species aptius *Mel. melasporum* esset dicenda.

WALLROTHIELLA Sacc. — Syll. I, p. 455, IX, p. 605, XI, p. 294.

1. **Wallrothiella conferta** Sacc. et Flag. Bull. Soc. Myc. de Fr. 1896, 1991

p. 64, tab. V, fig. 1. — Confertissima, maculas piceas latas formans; peritheciis superficialibus, globosis, papillatis, 130-150 μ . diam., nigris, nitidulis, glabris, carbonaceis; ascis cylindricis, subsessilibus, apice rotundatis, 40 \times 3-4, pseudoparaphysatis; sporidiis oblongo-ellipsoideis, oblique monostichis, 6-7 \times 2 $\frac{1}{2}$, obsolete 2-guttatis, hyalinis.

Hab. in ligno emortuo decorticato Tamaricis anglicæ pr. Rigny Galliæ (FLAGEOLET). — A *W. minima* differt peritheciis omnino glabris, nitidis, a *W. parvula* ascis cylindricis, sporidiis monostichis.

BOTRYOSPHERIA Ces. et De Not. — Syll. I, p. 456, IX, p. 605, XI, p. 295.

1. **Botryosphæria Dothidea** (Moug. et Fr.) Ces. et De Not.-Sacc. Syll. I, 1992

p. 460. — Var. *pluriguttata* Brun. Bull. Soc. Sc. Nat. Nantes 1893, p. 217. — Sporidiis amygdaloideis, apice rotundatis, interdum leniter constrictis, hyalinis, 4-10 guttulis monostiche dispositis donatis, non granulosis, 20-22 \times 7-10.

Hab. in ramis emortuis *Rosæ caninæ* et *R. arvensis*,
Saintes Galliæ.

2. **Botryosphæria palmigena** (Berk. et Cke.) Bomm. et Rouss. Bull. 1993
Soc. bot. Belg. 1896, p. 158; *Hypoxyton palmigena* B. et C. Cu-
ban Fg. n. 32, Sacc. Syll. I, p. 389 — Stromatibus epiphyllis,
superficialibus, subglobosis, nigris; ascis biformibus, aliis subcylind-
raceis, 100×18 , 8-sporis, aliis oblongis, 63-30, 4-5-sporis; spori-
diis oblique monostichis v. distichis, hyalinis, nubiosis, late fusoi-
deis, biguttulatis, $25,2 \times 14,4$; paraphysibus flexuosis, numerosis,
simplicibus, granulosis.

Hab. in foliis *Chamædoreæ* in Costa-Rica.

3. **Botryosphæria phyllachoroidea** Penz. et Sacc. Malpighia XI, 1897, 1994
p. 530. — Peritheciis epiphyllis, subsuperficialibus, in soros dense
et late gregarios minutos collectis, globoso-conicis, obtuse papilla-
tis, nigris, levibus, glabris, 100μ . lat.; ascis oblongo-fusoides,
 $45 \times 10-11$, sessilibus, obtusis, octosporis, filiformi-paraphysatis,
muco copioso obductis; sporidiis 1-2-stichis, subinde horizontaliter
positis, ovoideis, $10 \times 6,5$, hyalinis.

Hab. in pag. sup. foliorum coriaceorum adhuc viventium in
Horto Bot. Bogoriensi, ins. Java. — Habitus *Phyllachoræ*.

CRYPTOSPORELLA Sacc. — Syll. I, p. 466, IX, p. 609.

1. **Cryptosporella (Flageoletia) leptasca** (P. et C.) Sacc. — Syll. I, p. 469. 1995

***C. tenuis** Sacc. Bull. Soc. Myc. de Fr. 1896, p. 64, tab. V, fig. 2.
— Ascis anguste cylindricis, parte sporif. $70-75 \times 5$, apice rotunda-
tis, pseudoparaphysatis, stipite filiformi, $40-45 \times 0,5$; sporidiis re-
ctis, monostichis, ellipsoideis, $7-8 \times 3\frac{1}{2}$, hyalinis, grosse guttatis
initio, ut videtur, isthmo plasmatico inter se connexis.

Hab. in ramis corticatis *Coryli Avellanæ* pr. Rigny Gal-
liæ (FLAGEOLET). — A typo præcipue differt ascis longe stipitatis.
— Subgenus *Plageoletia* (præclaro collectori mycologo dicatum)
sistit species *Cryptosporellæ* ascis cylindricis, longe stipitatis, spo-
ridiis monostichis, minutis.

Sect. 4. Hyalodidymæ.

SPHÆRELLA Ces. et De Not. — Syll. I, p. 476, IX, p. 611, XI, p. 295.

1. **Sphærella fusispora** Fckl.-Syll. IX, p. 611. — var. **groenlandica** 1996
Allesch. in Allescher et P. Hennings, Pilze aus dem Umanakdi-

strikt, 1897, p. 7. — Sporidiis distichis, dein monostichis, oblongis, septatis, loculo superiore ampliore, hyalinis, ca. 20-24 \times 4-5.

Hab. in foliis languescens Ranunculi nivalis pr. Sermiarsut Groenlandiæ (VANHÖFFEN).

2. **Sphaerella Allescheri** Sacc.-Syll. IX, p. 612. — forma **arctica** 1997
Allesch. in Allescher et P. Hennings, Pilze aus dem Umanakdistrikt, 1897, p. 6. — Peritheciis sparsis, interdum dense gregariis et tum maculas nigras efformantibus, ceteris ut in forma typica: ascis immaturis subcylindraceis, breve stipitatis, ca. 50-60 \times 8, aparrhaphysatis; sporulis maturis non visis.

Hab. in caulibus siccis Thalictri alvini pr. Storö Groenlandiæ (VANHÖFFEN).

3. **Sphaerella Vesicariæ-arcticæ** P. Henn. in Allescher et P. Hennings, Pilze aus dem Umanakdistrikt, 1897, p. 6. — Peritheciis caulicolis et amphigenis, sparsis gregariisque, subglobosis, atris; ascis oblongis, subclavatis vel subfusoides, 60-75 \times 17-21, apice obtusis, 8-sporis; sporidiis subdistichis vel conglobatis, clavatis, utrinque obtusis, medio 1-septatis, haud constrictis, rectis, hyalinis, 20-25 \times 7-8.

Hab. in foliis caulibusque Vesicariæ arcticæ pr. Karajak-Nunatak Groenlandiæ (VANHÖFFEN).

4. **Sphaerella karajacensis** Allesch. in Allescher et P. Hennings, Pilze aus dem Umanakdistrikt 1897, p. 7. — Peritheciis amphigenis epidermide tectis, dein protuberantibus, sparsis, globosis, poro per tuis, atris; ascis oblonge clavatis, breviter stipitatis, 8-sporis. ca. 50-60 \times 18-22; sporidiis conglobatis, subclavatis, utrinque rotundatis, 1-septatis, rectis, guttulis, hyalinis, denique fuscidulis, ca. 16-20 \times 5-6.

Hab. in foliis emortuis Papaveris nudicaulis, sæpe socia *Sphaerella arthopyrenoide* pr. Karajak-Umanak Groenlandiæ (VANHÖFFEN).

5. **Sphaerella Chelidonii** Fautr. et Lamb. Rev. Mycol. 1895, p. 170. 2000
— Peritheciis gregariis, sæpe lineariter dispositis, nigris, minutis, 100-120 μ . diam.; ascis minutis, rosulatis, 40 \times 8; sporidiis monostichis v. cumulatis, uniseptatis, subacutis, 10 \times 3.

Hab. in caulibus siccis Chelidonii majoris in Gallia.

6. **Sphaerella stenospora** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 461. 2001
— Peritheciis erumpentibus, numerosis, dense sparsis, 100-150 diam., supra perforatis; ascis oblongis, 45-55 \times 10-15, breviter stipitatis, sæpe uno latere basim versus incrassatis; sporidiis disti-

chis, oblongo-fusoideis, uniseptatis, non vix constrictis, 14-16 \times 3-4.

Hab. in caulibus emortuis Sphæraļceæ, Colorado Amer. bor.

— *Sph. spinarum proxima.*

7. **Sphærella Orobi** Hazsl. Math. es term. Közlem. XXV, 2. Buda- 2002
pest 1892, p. 105, t. VI, fig. 23. — Mycelio nigro per contextum supremum foliorum vaganti, maculas nigricantes in utraque superficie foliorum formante; peritheciis epidermide emergentibus, globosis, apiculatis; ascis obovatis, ima basi fasciculatis absque paraphysibus, 25 \times 12; sporidiis aggregatis, fusiformibus, curvatis, hyalinis, uniseptatis, 8-12 \times 3-4.

Hab. in foliis emortuis Orobi verni in Hungaria.

8. **Sphærella rubina** Peck, 48 Rep. 1896, p. 16. — Peritheciis mi- 2003
nutis, 170-200 μ . diam., solito gregariis, subinde greges latos efformantibus, submembranaceis, obscure papillatis, pertusis, subglobosis v. depressis, initio epidermide velatis, demum, hac secedente, superficialibus, nigris; ascis cylindraceutis, subsessilibus, 70-80 \times 10-12; sporidiis monostichis, oblongis, obtusis, 1-septatis, medio plerumque constrictis, hyalinis, 15 \times 6-7, cellula sup. paullo latiore.

Hab. in truncis Rubi Idæi etc. culti, Menands Amer. bor. — A *Didymella applanata* præcipue paraphysibus nullis dignoscitur.

9. **Sphærella idæina** Hazsl. Math. es term. Közlem. XXV, 2 Buda- 2004
pest 1892, t. V, fig. 21, p. 104. — Peritheciis sparsis, hemisphæricis prominentibus, ostiolo papillæformi præditis, solummodo fasciculo ascorum farctis; ascis clavatis, sessilibus, 8-sporis; sporidiis biserialis, hyalinis, bilocularibus, oblongis v. oblongo-cylindricis, loculis inæqualibus, quorum alter vel angustior vel latior, alter est longior, sed occurrunt etiam sporidia fusiformia, curvata, 14-16 μ . longa; longissima sporidia sunt fusiformia, curvata; crassities sporiorum est variabilis.

Hab. in foliis Rubi Idæi in Hungaria.

10. **Sphærella innumerella** Karst.-Sacc. Syll. I, p. 506. — Var. **Rubi** 2005
Hazsl. Math. es term. Közlem. XXV, 2, Budapest 1892, p. 104. — Peritheciis maculis minutis rotundatis elevatis insidentibus, hemisphæricæ elevatis, ostiolo prominulo hemisphærico præditis; ascis oblongo-cylindricis v. clavatis, sessilibus, 6-sporis, 60 μ . longis; sporidiis hyalinis diblastis, ovatis 18 μ . longis, cuneiformibus 20 longis vel fusiformibus curvatis, obtusis 26 μ . longis, ad septum non constrictis, loculis æqualibus.

Hab. in foliis Rubi fruticosi in Hungaria.

11. **Sphærella Zizyphi** Pat. Cat. rais pl. cell. Tunisie, 1897, p. 104. 2006

— Peritheciis sparsis, erumpentibus, globosis v. elongatis, $\frac{1}{2}$ mm. longis, atris, tenuiter parenchymatico-tunicatis; ascis numerosis, ovoideis, 8-sporis, $50 \approx 23$; sporidiis distichis, hyalinis, ovatis, 1-septatis, non constrictis, $15 \approx 6$.

Hab. in ramulis Zizyphi in Tunisia.

12. **Sphærella mazzantioides** Sacc. Bull. Soc. Myc. de Fr. 1896, 2007
pag. 65, tab. V, fig. 5. — Peritheciis ramicolis, hinc inde dense aggregatis maculasque nigras, mazzantioideas, 0,5 mm. diam. formantibus, globuloso-depressis, centro pertusis, $90-110 \mu$. diam.; ascis rosulatis, aparaphysatis, fusoides, sessilibus, $40-41 \approx 9-11$, octosporis; sporidiis distichis, fusideo-clavulatis, hyalinis, $14-15 \approx 3$ rectiusculis, uniseptatis, non vel vix constrictis.

Hab. in sarmentis semivivis Vitis viniferæ pr. Rigny Galliæ. — Pulchella species, *Sph. Manganottianæ* affinis, sed perithecia tam conferta, ut *Mazzantia* vel *Phyllachora* videatur.

13. **Sphærella dolichospora** Sacc. et Fautr. Rev. Mycol. 1897, p. 143. 2008
— Peritheciis minutissimis, confertis, maculas oblongas formantibus; ascis tumidis, $60 \approx 15$; sporidiis hyalinis, curvulis, utrinque leviter obtusis, uniseptatis, non constrictis, $30-32 \approx 4$.

Hab. in caulibus Laserpitii gallici in Gallia.

14. **Sphærella longispora** Penz. et Sacc. Malpighia XI, 1897, p. 397. 2009
— Maculis variis, internerviis, subochraceis; peritheciis epiphyllis, gregariis, innato-prominulis, subglobosis, $100-150 \mu$. diam., pertusis; ascis fusoides, utrinque acutatis, sessilibus, $50 \approx 10$, aparaphysatis, 8-sporis; sporidiis di-tristichis, tereti-fusoides, leniter curvatis, utrinque obtusulis, 1-septatis, non constrictis, hyalinis, $25-28 \approx 4$.

Hab. in foliis languidis Araliaceæ? cujusdam, Java.

15. **Sphærella Bardanæ** Hazsl. Math. es term. Közlem. XXV, 2 Bu- 2010
dapest, 1892, p. 108, t. VI, f. 25. — Peritheciis globosis, gregariis, punctiformibus, nigris, maculis griseo-nigris insidentibus; ascis cylindricis, breve crassiuscule stipitatis, octosporis, aparaphysatis; sporidiis monostichis, $12 \approx 6$, 1-septatis, hyalinis, loculo altero majore, leniter constrictis.

Hab. in caulibus Lappæ in Hungaria. — Inter *Sph. Compositarum* et *Sph. caulicolam* fere media.

16. **Sphærella Pascuorum** Fautr. Rev. Mycol. 1896, p. 71. — Peri- 2011
theciis minutis; ascis ventricosis, $20-30 \approx 8-10$; sporidiis cumulatis, fusoides, uniseptatis, pluriguttulatis, $10-12 \approx 2\frac{1}{2}-3$.

Hab. in pedunculis Leucanthemi vulgaris in Gallia.

17. *Sphærella ambigua* Fautr. et Lamb. Rev. Mycol. 1895, p. 170. 2012
 — Peritheciis minutissimis, numerosis, tectis, ostiolo emergentibus; ascis cylindræis, 30 \times 8; sporidiis incrassatis, diu simplicibus, denique 1-septatis, 3-4-guttatis, 10 \times 3.
Hab. in caulibus siccis Cichorii Intybi in Gallia.
18. *Sphærella vagans* Ell. et Ev. Proc. Acad. Philad. 1895, p. 421. 2013
 — Peritheciis sparsis, subcuticularibus, dein superficialibus, depresso-globosis v. subellipticis, perforatis, 250-300 μ . diam.; ascis cylindræis, subsessilibus, p. sp. 55-60 \times 7-8; sporidiis distichis, ovatis, uniseptatis, ad septum constrictis, hyalinis, 12-16 \times 5-7.
Hab. in caulibus emortuis Valerianæ silvaticæ et Castilleiæ miniatæ, sociæ *Leptosphæria concinna*, Colorado, Amer. bor.
19. *Sphærella Cruciatæ* Lamb. et Fautr. Rev. Mycol. 1895, p. 170. 2014
 — Peritheciis epidermide tectis eamque nigrificantibus, majusculis, circiter $\frac{1}{2}$ mm. diam., rotundatis, pertusis; ascis cylindræis, 80-100 \times 8-10; sporidiis submonostichis, hyalinis, uniseptatis, leniter curvulis, acutiusculis, 16-20 \times 4.
Hab. in caulibus siccis Galii Cruciatæ in Gallia.
20. *Sphærella Menthæ* Lamb. et Fautr. Rev. Mycol. 1895, p. 170. 2015
 — Peritheciis numerosis, rotundatis, vix tectis, contextu crasso; ascis 40 \times 10; sporidiis uniseptatis, 10-14 \times 4, rarius 18 \times 5.
Hab. in caulibus siccis Menthæ silvestris in Gallia.
21. *Sphærella staticicola* Pat. Cat. rais. pl. cell. Tunisie, 1897, 2016
 p. 104. — Peritheciis gregariis, minutis, globosis, levibus, apice perforatis, 100 μ . diam., contextu brunneo, celluloso; ascis aparyphysis, deorsum inflatis, sursum attenuatis, 40-50 \times 15-20 sporidiis hyalinis, ovoideis, medio septatis constrictisque, 11-13 \times 3-4 uno loculo conspicue crassiore.
Hab. in pedunculis siccis Statices in Tunisia.
22. *Sphærella syringicola* Oth, Bern. Mittheil. 1870, p. 110. — Epi- 2017
 phylla; peritheciis minutis, nigris, paucis, in macula exarida cinerea sparsis, margine tumidulo cinctis, epidermide velatis, ostiolo demum revelato, umbilicato et poro pervio; ascis clavatis, octosporis; sporidiis hyalinis, oblongis, bilocularibus, anasomeris, leniter constrictis, obtusis. 13 \times 6; paraphysibus nullis.
Hab. in foliis vivis Syringæ vulgaris, Stettisburg in Helvetia.
23. *Sphærella Andromedæ* Tracy et Earle, Bull. Torr. Bot. Club. 2018
 1895, p. 176. — Hypophylla; maculis nullis; peritheciis numerosis, sparsis, sæpe paginam inferiorem foliorum occupantibus, nigris,

erumpentibus, ostiolatis, demum collabentibus; ascis obovatis, apice paululum incrassatis; sporidiis ovalibus, hyalinis, uniseptatis, cellulis subæqualibus, $7-8 \approx 2\frac{1}{2}-3$.

Hab. in foliis vivis *Andromedæ nitidæ*, Mississippi, Amer. bor.

24. **Sphærella Bonæ-noctis** Sacc. Fl. mycol. Lus. p. 58. — Maculis 2019
amphigenis, orbicularibus, 2-3 mm. diam., initio olivaceis, dein centro albidis; peritheciis paucis lenticularibus fulvo-umbrinis, laxe cellulosis, poro ampliusculo pertusis, 90-120 μ . diam.; ascis ovato-oblongis, curvulis, sessilibus, apice obtusulis, $40-45 \approx 18$, aparaphysatis, octosporis; sporidiis oblongis, medio constricto-uniseptatis, utrinque obtusulis, $22-25 \approx 7-8$, quadriguttatis, hyalinis.

Hab. in foliis subviviis *Ipomœæ Bonæ-noctis*, S. Thomè (MOLLER).

25. **Sphærella Nicotianæ** Ell. et Ev. Proc. Acad. Philad. 1895, p. 420. 2020
— Peritheciis maculis pallidis plerumque insidentibus, subcuticularibus, globosis, 80-100 μ . diam., perforatis, ostiolo papilliformi; ascis oblongo-obovatis, sessilibus, aparaphysatis, $36-45 \approx 15-20$; sporidiis in asco confertis, oblongo-obovatis, uniseptatis, hyalinis, obtusis, vix constrictis, $11-13 \approx 5-6$.

Hab. in cortice *Nicotianæ*, California (BLASDALE).

26. **Sphærella Linariæ** Vestergr. Bihang K. Svenska V. A. Handl. 2021
XXII, Afd. III, n. 6, 1896, p. 15. — Peritheciis sparsis, epidermide initio velatis, mox totis prorumpentibus, globosis, rugosiusculis, papillatis, 120-140 μ . diam., textura parenchymatica tenuiore præditis, membranaceis, atris; hyphis in superficie matricis repentibus, cellulis plus minusve globosis, ca. 7-12 μ . diam., brunneis compositis, sæpe anastomosantibus et nodos formantibus; ascis cylindræis v. clavulatis, $47-53 \approx 9-11$, brevissime pedicellatis, apice rotundatis, aparaphysatis; sporidiis octonis, distichis, cylindræis, $13-22 \approx 3-5$, rectis v. subcurvulis, prope medium uniseptatis, vix constrictis, utrinque rotundatis, hyalinis.

Hab. in foliis et caulibus exsiccatis *Linariæ vulgaris* in Gotlandia Sueciæ.

27. **Sphærella crebra** Fautr. et Lamb. Rev. Mycol. 1896, p. 144. 2022
— Peritheciis numerosissimis, subconfertis, punctiformibus, leviter immersis, nigris, rotundatis, poro pertusis, 120-150 μ . diam.; ascis aparaphysatis, rosulatis, leniter curvulis, $50-60 \approx 8-10$; sporidiis oblongis, uniseptatis, ad septum leniter constrictis, loculis inæqualibus, $16-18 \approx 5-6$.

Hab. in caulibus siccis *Linariæ vulgaris* in Gallia.

28. **Sphærella Phyteumatis** Jacz. Bull. Soc. Mycol. de France 1896, 2023
p. 113. — Peritheciis immersis, globosis, nigris, poro pertusis; ascis numerosis, sessilibus, $45 \times 5-7$, apice incrassatis; sporidiis hyalinis, fusiformibus, rectis v. arcuatis, bicellularibus, $12-15 \times 2-5$.

Hab. in caulibus siccis *Phyteumatis spicati* in Helvetia.

29. **Sphærella Humuli** Hazsl. Math. es term. Közlem. XXV, 2 Bu- 2024
dapest, 1892, p. 107, t. VI, f. 24. — Peritheciis seriatis, non dispersis, in epidermidem cinerescente nidulantibus, minutis sed majoribus quam perithecia associata *Læstadiæ*, globosis sed parum applanatis ita ut diam. verticalis $\frac{1}{6}$ minor quam horizontalis; ostiolo rotundo, non emergenti; ascis fasciculatis, absque paraphysibus, ovatis v. lanceolatis, in utraque parte rotundatis, ob sporas evolutas tota superficie tumulosis, 8-sporis; sporidiis hyalinis, ovatis, raro ovalibus, 1-septatis, ad septum (in forma ovali) medio constrictis, $14-16 \times 7-8$.

Hab. in sarmentis emortuis *Humuli Lupuli* in Hungaria.

30. **Sphærella quercina** Jacz. Bull. Soc. Myc. de France 1896, p. 104. 2025
— Peritheciis globulosis, hypophyllis, minutis, sparsis, nigris, ostiolo perforatis; ascis sessilibus numerosis, $80-90 \times 10-11$, apice incrassatis; sporidiis hyalinis, bicellularibus, non constrictis, distichis, fusiformibus, oblongis, utrinque obtusis, rectis v. arcuatis, 20×5 .

Hab. in foliis exsiccatis *Quercus* in Helvetia. — Status ascosphorus *Aposphaeriæ quercinae* Jacz.

31. **Sphærella laricina** R. Hart. Forstl. naturwiss. Zeitschr. München 2026
1895, p. 445 et Sitzungsber. Akad. München. Math.-phys. Cl. 1897, p. 279. — Maculis brunneis; peritheciis globosis, per epidermidem erumpentibus, solitariis vel pluribus conjunctis, atro-brunneis, $100-150 \mu$. diam., ostiolo parum conspicuo; ascis stipitatis clavatis, $50-60 \mu$. longis, octosporis; sporidiis distichis primitus continuis, dein 1-septatis, oblongis, utrinque attenuatis, hyalinis, $15-17 \times 2\frac{1}{2}-3$.

Hab. in acubus deciduis, *Laricis europææ* quam maxime vexat, in Germania. — Status conidiophorus verisimiliter *Leptostromatis* species: acervulis disciformibus, tenuibus, dein in pustulas pseudo-parenchymatosas atro-brunneas incrassatis, $100-300 \mu$. diam., epidermidem rumpentibus, intus cavis; conidiis variis, aliis in interiore pustularum evolutis, minutissimis, 3×1 , aliis in exterioribus pustularum numerosissimis, bacillaribus 30μ . longis, initio

- continuis, maturis 1-3-septatis; basidiis brevibus, gracilibus, subulatis.
32. **Sphærella creberrima** Penz. et Sacc. Malpighia XI, 1897, p. 397. 2027
 — Maculis subcircularibus variisque, fusco-marginatis; peritheciis epiphyllis, creberrimis, innato-prominulis, punctiformibus, 75-90 μ . diam., poro pertusis; ascis oblongo-clavatis, breve stipitatis, apice rotundatis, 36 \times 9, aparaphysatis, octosporis; sporidiis di-tristichis, fusoides v. subclavatis, 12-14 \times 3-4, 1-septatis, non constrictis, hyalinis.
Hab. in foliis adhuc vivis plantæ dicotyledoneæ, Tjibodas Javæ.
33. **Sphærella frigida** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 461. — 2028
 Peritheciis globosis, subastomis, nigris, membranaceis, 100-110 μ . diam., membrana alba insidentibus; ascis clavato-cylindræis, 35-40 \times 8-10, subsessilibus, aparaphysatis, octosporis; sporidiis distichis, fusoides-oblongis, uniseptatis, leniter constrictis, rectis v. lenissime curvulis, obtusis, 12-15 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$, fumoso-hyalinis.
Hab. in ramis et ligno aëri diu exposito, Colorado Amer. bor.
34. **Sphærella hyphiseda** Fautr. et Lamb. Rev. Mycol. 1897, p. 143. 2029
 — Peritheciis gregariis, minutissimis, numerosis, plerumque sterilibus, applanatis, astomis, contextu areolato, hyphis brunneis conjunctis; ascis subobpiriformibus v. ventricosis; sporidiis subglobosis, oblongis, rotundatis, hyalinis, uniseptatis, 18-22 \times 4-4 $\frac{1}{2}$.
Hab. in caulibus siccis Ornithogali pyrenaici in Gallia.
35. **Sphærella millepunctata** F. Tassi, Bull. del Lab. Bot. d. R. Univ. 2030
 Siena 1893, fasc. I, pag. 6, tab. IX, fig. 1. — Peritheciis dense gregariis, punctiformibus, nitidis, sphæroideis, atris, prominulis, 80-100 μ . diam., contextu fuligineo; ascis subclavatis, apice membrana crassa ornatis, basi attenuatis, aparaphysatis, 8-sporis; sporidiis distichis, vetustate inordinate conglobatis, ellipsoideis, 1-septatis, non constrictis, hyalinis, sæpius granuloso-nebulosis; peritheciis spermogonicis, ascophoris commixtis; 50-70 μ .; spermatis ovatis v. ovato-oblongis, hyalinis v. chlorinis, 4-4 $\frac{1}{2}$ \times 2.
Hab. in foliis siccis vetustis Anigozanthi flavidi in horto bot. Senensi, Italia.
36. **Sphærella Hystrix** Fautr. Rev. Mycol. 1895, p. 170. — Peri- 2031
 theciis sparsis v. laxè gregariis, amphigenis, immersis, poro 20 μ . diam. pertusis; ascis ventricosis, difformibus; sporidiis ad septum constrictis, 22 \times 8.
Hab. in foliis Asprellæ Hystricis in Gallia.
37. **Sphærella Arundinaræ** Atk. Bull. Cornell Univ. III, n 1, 1897, 2032

p. 9. — Maculis magnis, irregularibus; peritheciis mycelio ramoso brunneo insidentibus, minutis, sed prominulis, globosis, membranaceis, non papillatis, 60-80 μ . diam.; ascis ovatis, 30-40 \times 12-14, aparaphysatis; sporidiis confertis, lanceolatis v. ovatis, 1-septatis, 11-13 \times 3-4.

Hab. in foliis Arundinariæ tectæ, Auburn, Alabama Amer. bor.

38. **Sphærella Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 2033

p. 30. — Maculis nullis v. pallescentibus indeterminatis; peritheciis hypophyllis dense gregariis seriatis, globosis, 130-180 μ . diam., glabris, immersis, epidermide tectis eaque plus minusve arcte adnatis, ostiolo vix papillato epidermidem perforante sed non vel vix exserto ornatis, membranaceo-coriaceis, contextu subopaco parenchymatico, fusco-olivaceo; ascis cylindræis non vel vix obclavulatis, 70 \times 12, antice obtusissime rotundatis crasseque tunicatis, postice non vel vix subattenuatis, abrupte minuteque noduloso-pedicellatis, octosporis, aparaphysatis; sporidiis rectis v. oblique distichis, ellipsoideis, 16-20 \times 5-6, medio 1-septatis, non vel leniter constrictis, loculis subæquilongis, supero vix nonnihil crassiore obtusioreque, hyalinis, levibus.

Hab. in foliis apicalibus adhuc convolutis frigore hiemali necatis Sacchari officinarum, La Plata, Argentina.

39. **Sphærella Wakkeri** Sacc. et Syd. *Sphærella Sacchari* Wakk. De 2034

Ziekten van het Suikerriet op. Java, Leiden 1898, pag. 196, nec Speg. — Peritheciis immersis, sparsis, 64 μ . diam., sphæroideis, atro-fuscis, pariete cellulis teneris ostiolo rotundo rostello destituto; sporidiis hyalinis, fusoides, utrinque acutis medio 1-septatis, 16 \times 4.

Hab. in foliis siccis Sacchari officinarum in Java.

40. **Sphærella subcrassa** Sacc. et Syd. Sic dicenda est *Sphærella*

maculans Pass. in Syll. IX, p. 646, quum exstet anterior *Sph. maculans* Sacc. et Roum. in Syll. I, p. 505.

41. **Sphærella effusa** Sacc. et Syd. Sic dicenda est *Sphærella adusta*

Fekl. in Syll. IX, p. 625, quum exstet anterior *Sph. adusta* Niessl in Syll. I, p. 511.

42. **Sphærella pucciniophila** Sacc. et Syd. Sic dicenda est *Sphærella*

parasitica Fautr. in Syll. IX, p. 618, quum exstet anterior *Sph. parasitica* Wint. in Syll. IX, p. 658.

43. **Sphærella asterinæformis** Sacc. et Syd. Sic dicenda est *Sphærella*

asterinoides Pat. in Syll. XI, p. 297, quum exstet anterior *Sph. asterinoides* Ell. et Ev. in Syll. IX; p. 619.

44. *Sphærella thalictricola* Sacc. et Syd. Sic dicenda est *Sphærella septorioides* Peck in Syll. IX, p. 612, quum exstet anterior *Sph. septorioides* (Desm.) Niessl in Syll. I, p. 482.

APIOSPORA Sacc. — Syll. I, p. 539. IX, p. 659, XI, p. 301.

1. *Apiospora rhodophila* Sacc. Malpighia XI, 1897, pag. 286. — 2035

Peritheciis laxe gregariis subcutaneis, dein partim erumpentibus, globoso-depressis, brevissime papillatis, 0,3-0,5 mm. diam., atris; ascis cylindraceutis v. clavatis, breve crasseque stipitatis, 80-120 × 15-16, octosporis; paraphysibus filiformibus inæqualibus; sporidiis oblique monostichis v. distichis, ovato-fusoideis, sursum crassioribus, 18-22 × 7-8, prope basim uniseptatis, non constrictis, hyalinofaretis, loculo imo vix 5 μ . longo.

Hab. in ramis spinisque Rosæ alpinæ, Riva-Valdobbia in Italia boreali (CARESTIA).

2. *Apiospora Rosæ* Oud. Révis. des Champ. II, 1897, p. 465. — Pe- 2036

peritheciis laxe gregariis, tectis, membranaceis, demum per epidermidem erumpentibus, ostiolo papilliformi, $\frac{1}{4}$ mm. diam., nigris, globosis, depressis; ascis paraphysatis, octosporis, oblongis, utrinque interdum attenuatis, 190 × 21; sporidiis distichis, hyalinis, piriformibus, apice latis, basi angustatis, bilocularibus, basim versus uniseptatis, 16-17 × 9-12.

Hab. in ramis Rosæ cavinæ in Hollandia. — «Forte eadem ac præcedens vel varietas».

3. *Apiospora camptospora* Penz. et Sacc. Malpighia XI, 1897, p. 398. 2037

— Peritheciis plerumque in lineolas seriatis v. paucis varie congregatis, epidermide rimosâ v. stellatim rupta cinctis, globulosis, vix papillatis, nigris, 180-200 μ . diam.; ascis crasse cylindraceutis, apice rotundatis, brevissime stipitatis, 75-80 × 15-17; paraphysibus guttulatis; sporidiis distichis v. oblique monostichis, cylindraceuto-oblongis, deorsum curvatis, utrinque obtusulis, infra medium. 1-septatis, non constrictis, 35-38 × 9, faretis, hyalinis.

Hab. in foliis emortuis Sacchari officinarum pr. Buitenzorg, Java.

STIGMATEA Fr. — Syll. I, p. 541, IX, p. 660.

1. *Stigmatea brasiliiana* P. Henn. Hedw. 1897, p. 230. — Maculis 2038

pallidis, fusco-marginatis, rotundatis, 5-7 mm. diametro; peritheciis sparsis, innato-prominulis, minutis, punctiformibus, atris; ascis subclavatis, substipitatis, 8-sporis, 25-36 × 9-13; sporidiis subdisti-

chis, oblonge subclavatis vel subfusoides, 1-septatis, haud constrictis, hyalinis, subflavescentibus, 9-13 \times 3-4.

Hab. in foliis Myrtaceæ? pr. Rio de Janeiro Brasiliæ (GLAZIOU).

2. **Stigmatea Ulei** Bres. et Sacc. sp. n. — Peritheciis epiphyllis, late gregariis, e basi insculpta promiulis, nigricantibus, nitidulis, astomis, 0,2-0,3 mm. diam., contextu partis superioris peritheciî densissimo, opaco, inferioris prosenchymatico, fuligineo; ascis radiantibus, cylindræo-clavulatis, apice rotundatis, deorsum obtuse tenuatis, 36-42 \times 6, paraphysibusasco longioribus, 1-1,5 μ . cr.; sporidiis distichis, anguste oblongis, utrinque acutiusculis, 9-10 \times 2,5, hyalinis.

Hab. in folii Gesneriaceæ cujusdam in Serra dos Orgaos Brasilia (ULE).

DIDYMELLA Sacc. — Syll. I, p. 545, IX, p. 661, XI, p. 301.

1. **Didymella effusa** (Niessl) Sacc. Syll. I, p. 552. — var. **Aronici** Sacc. Malpighia XI, 1897, p. 286. — Peritheciis laxè gregariis; ascis 75-85 \times 10-12; sporidiis fusoides, curvatis, uniseptatis, 22-24 \times 5, apice acutis, hyalinis, septis leniter constrictis.

Hab. in caulibus Aronici scorpioidis, socia Phoma, Riva-Valsesia, Italia (CARESTIA).

2. **Didymella purpurea** Lamb. et Fautr. Rev. Mycol. 1896, p. 142. — Peritheciis confertis, mediocribus, rotundatis, tectis, dein erumpentibus, papilla perforatis; ascis elongato-clavatis; paraphysibus ascos superantibus; sporidiis sursum distichis, hyalinis, ovoideis, uniseptatis, constrictis, 11-13 \times 5-6.

Hab. in caulibus siccis Digitalis purpureæ in Gallia. — *D. tosteæ* affinis.

3. **Didymella Ricini** Ell. et Ev. Proc. Acad. Philad. 1895, p. 421. — Peritheciis gregariis, minutis, 110-150 μ ., subcuticularibus, epidermidem in pustulas nigras applanatas elevantibus et *Vermiculariæ* speciem simulantibus, solitariis v. 2-3 consociatis; ostioliis inconspicuis; ascis oblongo-clavatis, brevissime stipitatis, 45-55 \times 8-10; sporidiis distichis, oblongis, obscure guttatis, demum uniseptatis, non constrictis, curvulis, obtusis, hyalinis. 13-18 \times 4-4 $\frac{1}{2}$.

Hab. in petiolis Ricini communis, Louisiana, Amer. bor. (LANGLOIS).

4. **Didymella tillaginea** Fautr. et Lamb. Rev. Mycol. 1896, p. 142. — Peritheciis sparsis, tectis, emergentibus, minutis, globosis, atris,

nitidis; ascis ventricosis, piriformibus, $40 \approx 20$ et ultra ($60 \approx 12$); sporidiis initio cumulatis, dein distichis, cylindræis obtusis, utrinque rotundatis, uniseptatis, loculis inæqualibus, constrictis, 4-guttulatis. $17-20 \approx 6$.

Hab. in ramulis *Tiliæ*, socia *Sphæruculina tiliari*, in Gallia.

5. *Didymella prunicola* Fautr. et Lamb. Rev. Mycol. 1896, p. 68. — 2044
Peritheciis gregariis, per corticis rimas erumpentibus, majusculis, nigris, ostiolis parum prominentibus; paraphysibus filiformibus; ascis cylindræis, $140 \approx 11-12$; sporidiis monostichis inclinatis, hyalinis, uniseptatis, $18-20 \approx 9-10$.

Hab. in ramis *Pruni spinosæ* in Gallia.

6. *Didymella ailanthina* Togn. Seconda contr. Micol. Tosc. p. 5. — 2045
Peritheciis crebre sparsis, corticolis, 225μ . diam., ostiolo obtuso; ascis cylindræis, breve stipitatis, paraphysatis, $80-90 \approx 11$; sporidiis hyalinis, bi-quadriguttatis, 1-septatis, medio constrictis, $16-18 \approx 7-9$.

Hab. in cortice *Ailanthi glandulosæ* in Etruria.

7. *Didymella piceana* Delacr. Bull. Soc. Mycol. de France XIII, 2046
p. 126 cum icone. — Peritheciis atris, immersis, collo vix prominente, 200μ . diam.; ascis cylindræis, summo rotundatis, tetrasporis, $75 \approx 10-12$; sporidiis uniseptatis, septo constrictis, bi-vel sæpius quadriguttulatis, hyalinis, ovato-attenuatis, $18 \approx 6$; paraphysibus continuis, 2 $v.$ crassis.

Hab. in squamis ramorum *Piceæ excelsæ*, foliis delapsis in Gallia.

8. *Didymella maculosa* Penz. et Sacc. Malpighia XI, 1897, p. 398. 2047
— Maculis ovato-oblongis, subfuligineis; peritheciis in quaque macula paucis, innato-erumpentibus, globoso-depressis, conico-papillatis, demum latiuscule pertusis, membranaceo-carbonaceis, glabris, $0.5-0.6$ mm. diam.; ascis tereti-clavatis, breviter stipitatis, apice rotundatis, copiose paraphysatis, 8-sporis, $140-150 \approx 14-15$; sporidiis tereti-fusoideis, curvulis, utrinque obtusulis, $40-45 \approx 8$, medio 1-septatis, vix constrictis, pluriguttatis $v.$ farctis, hyalinis.

Hab. in culmis crassioribus (*Bambusæ*?) emortuis, socia *Oxydothide* in horto bot. Bogoriensi, Java. — Peritheciis subcarbonaceis semiemergentibus ad *Melanopsammam* accedit.

MASSARINULA Genean de Lamarl. Rév. gén. de Bot. 1894, p. 321. — (Etyrn. a *Massaria*, cui affinis). — Perithecia globosa, tecta, ostiolo prædita; asci paraphysati octospori; sporidia bilocularia, hyalina, mucro hyalino obvoluta.

1. **Massarinula quercina** Gen. de Lamarl. l. c. c. fig. — Peritheciis 2048
subcutaneis sparsis v. 2-3-gregatis, minute papillatis, vix erumpentibus; ascis oblongo-cylindraceis, brevissime stipitatis apice rotundatis, 53×13 , octosporis; sporidiis hyalinis, constricto-didymis, 4-guttatis, $13-15 \times 5-5,5$, strato mucoso hyalino 2-3 μ . cr. obvolutis.

Hab. in ramulis emortuis *Quercus pedunculatæ* pr. silvam Fontainebleau Galliæ.

2. **Massarinula italica** Sacc. Malp. 1898 p. 207, t. VII, f. 3. — Peri- 2049
theeciis laxè gregariis, cortice omnino immersis, globulosis, 0,5 mm. diam., ostiolo vix peridermium perforante, nucleo (maturo?) albido; ascis cylindraceo-clavatis, breve crasse stipitatis, apice rotundatis, octosporis, $200-250 \times 30-45$; paraphysibus filiformibus; sporidiis distichis, oblongo-fusoideis, constricto 1-septatis, strato hyalino tenui initio obvolutis, 50×20 , hyalinis, granulosis v. plasmate varie constricto.

Hab. in ramulis emortuis *Quercus Ilicis*, in horto bot. Patavino, Nov. 1897. — Secunda pulchelli generis species, omnino distincta.

3. **Massarinu Marsilii** Sacc. sp. n. — Peritheciis hinc inde irregula- 2050
riter gregariis, peridermio leviter pustulato innatis, globosis, 500-600 diam., nigris, intus albidis, ostiolo vix papillato, minuto erumpente, contextu parenchymatico, crasso, duriusculo, atro; ascis tereti-clavatis, obtusis, breve crasse stipitatis, $120-140 \times 24$, octosporis; paraphysibus tortuosis, inæqualibus, guttulatis; sporidiis distichis, ovato-oblongis, utrinque rotundatis, 1-septatis, vix constrictis, strato mucoso hyalino angusto obvolutis, $30-33 \times 12-14$ (cum muc), totis hyalinis, faretis.

Hab. in ramis emortuis *Populi albæ* (jam a professori Jo. MARSILIO circ. 1760 satæ) in horto bot. Patavino. — Ab affini *M. italica* differt ascis sporidiisque multo minoribus, perithecii pariete crassiori, matrice etc.

PHARCIDIA Korb. — Syll. IX, p. 676, ΔΔ, p. 303.

1. **Pharcidia epipolytropon** (Mudd) Jacz. Bull. Soc. Myc. de Fr. 1896, 2051
p. 90. — Peritheciis nigris, minutis, ostiolo papilliformi; sporidiis hyalinis, bicellularibus, ad septum constrictis, conglobatis, plerumque quaternis, 15×3 .

Hab. in thallo *Lecanoræ polytropæ*, Helvetia.

2. **Pharcidia Guineti** Müll. Arg. Bull. Soc. Myc. de Fr. 1896, p. 88. 2052

-- Peritheciis subemergentibus, globulosis, sparsis, nigris; ascis cylindricis, 80×16 , apice incrassatis; pseudoparaphysibus articulatis; sporidiis hyalinis, ovoidec-oblongis, bicellularibus, constrictis, loculis inæqualibus, $18-22 \times 7-8$.

Hab. in apotheciis *Amphilomatis elegantis* pr. Genève Helvetiæ.

3. **Pharcidia Gyrophoræ** Zopf, Nov. Act. LXX, 1897, p. 117 cum fig. 17-21. — Peritheciis minutis, breviter piriformibus, $0,1-0,16$ mm. altis, $0,08-0,13$ mm. latis, pertusis; ascis paucis, late clavatis v. late fusiformibus, vix stipitatis, apice lato rotundato, $39-50 \times 14-20$, plerumque octosporis, raro 4-sporis; sporidiis bicellularibus, loculo superiore latiore, luteolis, demum olivaceis, majuscule biguttulatis, $13-17 \frac{1}{2} \times 7-8$; paraphysibus nullis.

Hab. in thallo *Gyrophoræ cylindricæ* in Tirolia (ARNOLD).

LIZONIA De Not. Ces. — Syll. I, p. 574, IX, p. 679.

1. **Lizonia Lagerheimii** Rehm, Hedw. 1896, p. 149. — Peritheciis aggregatis in pagina superiore, demum arescente et brunnescente foliorum primitus lineariter ad nervos, sessilibus, glabris, sphaeroides, nigris, poro minutissimo pertusis, c. 250μ . lat.; perithecio molli, flavido-fuscido, parenchymatico; ascis ellipticis vel clavatis, apice valde incrassatis, late sessilibus, $70-100 \times 15-20$, 4-8 sporis; sporidiis fusiformibus, raro subclavatis, rectis 2-cellularibus, interdum medio subconstrictis, hyalinis, $30-36 \times 6-7$, distichis; paraphysibus ramosis, septatis.

Hab. ad folia *Alchemillæ*, in provincia Pichincha Æquatoris (LAGERHEIM).

2. **Lizonia opposita** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, p. 158. — Peritheciis amphigenis, globulosis, rugulosis, $75-97 \mu$., in macula ferruginosa orbiculari dense gregariis; ostiolo nullo; ascis octosporis, ovoideis v. piriformibus, sessilibus v. breviter pedicellatis, $36-61 \times 28$, aparaphysatis; sporidiis conglomeratis, hyalinis, oblongis, obtusis, 1-septatis, $25,2 \times 10,8$, loculo superiore latiore quam inferiore.

Hab. in foliis languidis ignotis, Costa Rica.

MELCHIORIA Penz. et Sacc. Malpighia XI, 1897, p. 399. (Ætym. a cl. botanico MELCHIOR TREV.) — Perithecia in caespitulos superficiales botryose aggregata, sed discreta, globulosa, papillata, nigra, carbonacea, stromate albo molliusculo interposito. Asci oblongo-

fusoidei, octospori, obsolete paraphysati. Speridia fusoidea, 1-septata, hyalina.

1. **Melchioria leucomelana** Penz. et Sacc. l. c. — Cœspitulis gregariis 2056
 1-2 mm. diam., pulcre albo-nigris; peritheciis in quoque cœspitulo 8-14, globosis, acute papillatis, nigris, 0,4 mm. diam., discretis, materia stromatica alba plus minus copiosa laxè connexis; ascis crasse fusoideis, utrinque imprimis basi acutatis, 90-120 × 24-30, octosporis; paraphysibus (spuriis?) paucis, brevibus; sporidiis tristichis, fusiformibus, utrinque obtusulis, curvis, medio 1-septatis, non constrictis, 50-61 × 9, hyalinis, initio (ut videtur) mucò exiguò hyalino obductis.

Hab. in caulibus emortuis, fracidis *Elettariæ*, Tjibodas, Java. — Stroma album ex cellulis minutis lunulatis, guttulatis, 6-7 × 2 constat. Fungillus eximius, cum nullis comparandus! Asci et paraphyses aqua immersi fluxiles fiunt et deliquescunt.

PTERIDIOSPORA Penz. et Sacc. *Malpighia* XI, 1897, p. 399. (Etyim. *pteridion* parva ala, et *spora*). — Perithecia subsuperficialia, globoso-conica, carbonacea, nigricantia, ostiolo papillato. Asci paraphysati, octospori. Sporidia oblonga, bilocularia, hyalina, membranâ hyalina mucosa deorsum in alam spathulataam productâ obvoluta. Fabrica sporidiorum a *Melanopsamma* statim genus distinguitur.

1. **Pteridospora javanica** Penz. et Sacc. l. c. — Peritheciis gregariis, 2057
 basi insculpta applanata subsuperficialibus, globoso-conoideis, glabris, nigricantibus, 0,5-0,7 mm. diam., acutiuscule papillatis; ascis cylindræis, apice truncatis, breve stipitatis, 180 × 15; paraphysibus filiformibus, tortuosis; sporidiis oblique monostichis v. partim distichis, oblongo-fusoideis, 30 × 6-7, inæqualiter bilocularibus, loculo superiore crassiore, longiore et obtusiore, hyalinis, ad septum valde constrictis, strato tenui mucoso obductis alaque spathulata, 12-15 × 12, hyalina basi auctis.

Hab. in culmis emortuis *Bambusæ*, Tjibodas, Java.

MELANOPSAMMA Niessi — Syll. I, p. 575, IX, p. 682, XI, p. 303.

1. **Melanopsamma Martianoffiana** Sacc. *Malpighia* 1896, p. 270, tab. V, 2058
 fig. 1. — Peritheciis gregariis v. hinc inde subaggregatis, erumpenti-superficialibus, globulosis, papillatis, atris, nitidulis, vix rugulosis, 250 μ . diam., contextu subcoriaceo, brunneo, parenchymatico; ascis crasse clavatis, brevissime attenuato-stipitatis, 100-120 ×

18, octosporis, apice rotundatis; paraphysibus crassiusculis, gutturalis, (spuriis?); sporidiis distichis, ellipsoideo-oblongis, rectis, curvulisve, 20-24 \times 8-9, utrinque obtusulis, 1-septatis, non v. vix constrictis, dilutissime olivaceis.

Hab. in ramulis *Spirææ chamædryfoliæ* in silvis Sibiria.
— Affinis *M. Siringæ* Karst.

2. **Melanopsamma caulicola** Rehm in Rabenhorst-Pazschke, Fungi 2059

europ. n. 4160. — Peritheciis stromatice arcte confertis in strias longitudinales dispositis aut stipitem ambientibus, subglobosis, glabris, vix scabriusculis, atris, poro inconspicuo pertusis, subcarbonaceis, parenchymatice contextis, ca. 300 μ : diam., in mycelio ex hyphis rectangulariter ramosis contexto, tenuissimo sessilibus; ascis cylindrico-clavatis, apice rotundatis, ca. 70 \times 12, octosporis, sporidiis plerumque monostichis, fusiformibus, rectis, bicellularibus, ad septum haud constrictis, hyalimis, ca. 18 \times 5-6; paraphysibus filiformibus, hyalinis, 2 . . crassis.

Hab. in caulibus emortuis *Salviæ* spec., Serra Geral Brasiliæ (ULÉ). — Ceteris speciebus hujus generis valde affinis, sed prima *Melanopsammæ* species in caulibus observata.

3. **Melanopsamma alpina** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 458. 2060

— Peritheciis erumpenti-superficialibus, gregariis, depresso-globosis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., tenue tunicatis, subfragilibus, ostiolo obscuro v. papilliformi præditis; ascis clavato-cylindræis, 75-85 \times 8-10, paraphysatis, 8-sporis; sporidiis monostichis v. subdistichis, fusoido-navicularibus, 3-4-nucleatis, hyalinis, medio constricto-uniseptatis, 15-20 \times 3 $\frac{1}{2}$ -4.

Hab. in cortice pineo, Colorado Amer. bor.

4. **Melanopsamma patellata** Penz. et Sacc. Malpighia XI, 1897, p. 398. 2061

— Peritheciis gregariis, superficialibus, globoso-depressis, mox col-labascendo plano-patellaribus, 0,4-0,5 mm. diam., nigris, glabris, inter setulas nigras rigidulas crebras interseminatis, contextu olivaceo-fuligineo. molliusculo, circa ostiolum prosenchymatico; ascis (jam rescriptis); sporidiis distichis, oblongo-fusoideis, utrinque rotundatis, curvulis, 1-septatis, vix constrictis, 2-nucleatis, 14-15 \times 8-9, hyalinis.

Hab. in cūlmis emortuis *Bambusæ*, Java.

5. **Melanopsamma Ellisii** Sacc. et Syd. Sic nominanda est *Melano-* 2062

psamma borealis Ell. et Ev. in Syll. XI, p. 305, quum exstet anterior *M. borealis* (Karst.) Sacc. in Syll. I, p. 578.

BERTIA De Not. — Syll. I, p. 481, IX, p. 687, XI, p. 305.

1. *Bertia quercicola* Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. 2063
XXXVI, 1897, part. 2, p. 13. — Peritheciis gregariis, liberis, sub-
globosis, $\frac{1}{2}$ mm., atris, opacis, rugoso-tuberculosis, rigidis, glabris,
ostiolo non distincto; ascis teretibus, apice rotundatis, 120-140 \times 10,
octosporis, paraphysibus longioribus sursum ramulosis numerosis;
sporidiis distichis, fusiformibus, rectis, hyalinis, medio septato-con-
strictis, quaque cellula grosse biguttata, demum tenuiter septata,
28-35 \times 6-7.

Hab. in ligno vetusto *Quercus*, pr. Liège Belgii. — *A. B. macrospora* Sacc. præsertim dimensionibus minoribus distinguenda.

VENTURIA Ces. et De Not. — Syll. I, p. 586, IX, p. 687, XI, p. 305.

1. *Venturia nervincola* Rehm, Hedw. 1895, p. (162). — Peritheciis 2064
gregariis, sessilibus, ovatis v. ellipticis, parenchymatice contextis,
viridulis, mollibus, basi nonnullis hyphis fuscidulis, apice pilis 6-8
erectis, septatis, fuscis, 60 μ . longis, 3 μ . latis instructis, 90-180
 \times 90; ascis ovato-rotundis, crassis, 40-50 \times 30, octosporis; sporidiis
oblongis, interdum subcuneiformibus, medio vix constrictis, hya-
linis, demum subfuscidulis, 21-24 \times 10; paraphysibus non visis.

Hab. ad nervos paginæ inferioris foliorum vivorum *Melastomatis* cujusdam in Æquatoria (LAGERHEIM).

2. *Venturia Fraxini* Aderh. Hedw. 1897, pag. 83, tab. IV, fig. 6, 2065
Sphaerella ditricha Awd. in litt. (Rbh. Fg. Europ. N. 943), *Sph.*
inequalis Cke. p. p. (Journ. of Bot. IV, p. 248). — Peritheciis
gregariis, globosis, nigris, hypophyllis, 100-160 μ . diam., setis
longissimis, 4 vel pluribus, divergentibus v. reflexis; ascis saccatis,
deorsum latioribus, 40-50 \times 8-10, octosporis; sporidiis flavido-viri-
dibus, glanduliformibus, 11-14 \times 5-8, sursum monostichis, deorsum
distichis, loculo superiore brevior, plerumque indistincte subacu-
minato.

Hab. in foliis emortuis *Fraxini excelsioris* in Germania.
— Status conidiif. est *Fusicladium Fraxini* Aderh. Sporidiis vix
a *Venturia inequali* (Cke.) distinguenda.

3. *Venturia Tremulæ* Aderh. Hedw. 1897, pag. 81, tab. IV, fig. 3, 2066
Sphaerella inequalis Schroet. nec Winter. — Peritheciis sparsis,
plerumque in pagina inferiore foliorum erumpentibus, globosis,
collo brevi, 100-160 μ . diam.; ostiolo plerumque setis longissimis
(100 μ .), nigro-brunneis prædito; ascis saccatis, arcuatis, 50-60 \times
10-14, octosporis; sporidiis sursum in asco monostichis, deorsum

di-vel tristichis. 14-18 \times 6-9, flavido-viridibus, piriformibus v. ovoideis, inæqualiter bicellularibus, septis valde constrictis, loculo superiore majore, interdum subgloboso. 8-10 \times 9, loculo inferiore conoideo, retundato, plerumque 4-6 \times 4-5.

Hab. in foliis vivis Populi Tremulæ in Germania. — Status conidiif. est *Fusicladium Tremulæ* Fr.

4. *Venturia? sterilis* Speg. Rev. Agr. y Veter. 1896, pag. 230. — 2057

Maculis nullis; peritheciis hypophyllis rarius amphigenis, sparsis v. plus minusve gregariis, sæpe subiculo albo mucedineo evanescente (an heterogeneo?) insidentibus, superficialibus minutis globosis, 80-120 μ . diam., astomis? sed superne subpapillulatis carnosulis sordide fusco-ochroleucis (ob immaturitatem?) atro-villosis, pilis simplicibus teretibus mollibus patulis sursum attenuatis, 100-250 \times 3-5, basi non v. vix incrassatis apice acutiusculis non v. 1-3-septatis, deorsum olivaceis pellucidis, sursum pallidioribus v. subhyalinis, laxè imperpicueque papillosis; ascis et sporidiis non visis.

Hab. in foliis junioribus adhuc convolutis languidis v. emortuis Sacchari officinarum, prov. Tucuman, Argentina.

LENTOMITA Niessl — Syll. I, p. 584, IX, p. 698.

1. *Lentomita longirostrata* Atk. Bull. Cornell Univ. III, n. 1, 1897, 2068

p. 7. — Peritheciis immersis, epidermidem non elevantibus, membranaceis, 300-350 μ . diam., in rostrum longum erumpens, vulgo perithecium æquans productis; ascis fuscoideocylindraceis, gracilibus, apice subincrassatis, stipitatis, 30-40 \times 7-9; paraphysisibus filiformibus, granulosis; sporidiis octonis, distichis, oblongo-fuscoideis, medio 1-septatis, non constrictis, 12-14 \times 3.

Hab. in caulibus Ambrosiæ artemisiæfoliæ, Alabama Amer. bor.

GIBBERA Fr. — Syll. I, p. 599, IX, p. 699, XI, p. 306.

1. *Gibbera camerunensis* P. Henn. Fungi camerun. I, in Engl. 2069

Jahrb. XXII, 1895, p. 77. — Stromate atro, effuso, tenui; peritheciis superficialibus, aggregatis, ovoideis v. mammiformibus, verrucosis, rugulosis, atro-carbonaceis, apice obtusiusculis, circiter 1 mm. diam.; ascis non visis; sporidiis oblongis, uniseptatis, ad septum non constrictis, interdum curvulis, guttulatis, flavo-fuscis, 10-14 \times 4-7.

Hab. in lignis putridis, Kamerun (JUNGNER).

MELANCONIS Tul. — Syll. I, p. 602, IX, p. 700.

1. **Melanconis? betulina** Otth, Bern. Mittheil. 1868, p. 43. — Stro- 2070
mata cortici adnato, pulvinato, transversim elongato, ambitu rotundato-sublibero, fusco-brunneo intus pallidiore, grumoso-indurato; disco lanceolato v. elliptico, erumpente; peritheciis demersis, approximatis, subglobois, membranaceis, fuscis, collis longioribus stroma perforantibus; ostiolis prominulis v. demum rostellatis, nigris; ascis ellipsoideo-clavatis, diaphanis, octosporis; sporidiis distichis v. imbricatis, fumosis, oblongis, obtusissimis, sæpe leniter curvatis, bilocularibus, subconstrictis, primo 2-guttatis, demum intus grumosis, 16-16 × 6; paraphysibus teneris.

Hab. in ramis *Betulæ pubescentis*, Bremgartenwald Helvetiæ.

2. **Melanconis Hicoriæ** Atk. Bull. Cornell Univ. III, n. 1, 1897, 2071
p. 7. — Stromate minuto; peritheciis monostichis, disco minuto, obscuro; ascis cylindraceo-ellipticis, 70-90 × 10-12, paraphysatis; sporidiis distichis, oblongo-cylindraceis, 1-septatis, non constrictis, 15-20 × 4-5, uno loculo interdum angustiore et septo v. plasmate diviso, utrinque appendicula brevi, erecta, 2 × 1/2 . metiente præditis.

Hab. in ramis *Caryæ albæ*, Auburn, Alabama Amer. bor. — *M. Alni* proxima, sed differt sporidiis appendiculisque minoribus.

2. **Melanconis Fagi** Oud. Révis. des Champ. II, 1897, pag. 466. — 2072
Ascis 93 × 18 2/3; sporidiis 23 1/2-28 × 7-9: omnia cetera ut in *Melanconi antarctica* Speg.

Hab. in ramis *Fagi silvaticæ* in Hollandia.

DIAPORTHE Nits. — Syll. I, p. 606, IX, p. 702, XI, p. 307.

1. **Diaporthe (Chorostate) pycnostoma** Otth, Bern. Mittheil. 1870, p. 99. 2073
— Peritheciis 15-20 in stromate mere corticali pustulato, haud nigrolimitato demersis, subtus strato tenui corticali a ligno discretis, in orbem congestis, ambitu subdecumbentibus; collis convergentibus; ostiolis sat minutis in discum convexum erumpentem arctissime congestis; ascis elongato-subellipsoideis, octosporis; sporidiis ellipsoideis, obtusis, medio subconstrictis at vix conspicue septatis, 4-guttulatis, hyalinis, 16 × 6.

Hab. in ramis corticatis *Berberidis vulgaris* in Helvetia.

A. *Diaporthe detrusa* notis datis diversa.

2. **Diaporthe (C.) Padi** Otth, Bern. Mittheil. 1870, p. 99. — Laxe 2074
gregaria; peritheciis globoso-depressis, paucis subcircinantibus, in-

vicem haud contiguas, passim subsolitariis sub corticis pustula ad lignum demersa v. eo leviter insculpta; collis exilibus convergentibus; ostioliis in disco nigro nitidulo, nunc convexulo, nunc concavo inordinatim plus v. minus distincte prominulis; ascis subfusiformibus basi breviter rostratis, eximie diaphanis, octosporis; sporidiis intricatis v. inordinatis, ellipsoideis v. fere fusiformibus, septo vulgo parum conspicuo bilocularibus. leniter constrictis, 2-4-guttulatis, 14-16 \times 5, hyalinis.

Hab. in ramis corticatis Pruni Padi in Helvetia.

3. *Diaporthe* (C.) *Woroninæ* Jacz. Bull. Soc. Imp. des Natur. de 2075
Moscou 1896, n. I, p. 72. — Stromatibus sparsis, numerosis, hemisphaericis, epidermidem elevantibus, ostioliis solis erumpentibus; peritheciis numerosis, 12-20 in quoque stromate immersis, subglobosis; ostioliis fasciculatis, cylindraceis, nigris, emergentibus, apice rotundatis; ascis subcylindraceis, 80 \times 12, octosporis; sporidiis 1-septatis constrictisque, ellipsoideis, 4-guttulatis, 17 $\frac{1}{2}$ -18 \times 6-6 $\frac{1}{2}$.

Hab. in ramis emortuis Sorbi Aucupariæ, Smolensk Rossia.

4. *Diaporthe* (C.) *Aucupariæ* Hazsl. Math. es term. Közlem. XXV, 2076
2 Budapest, 1892, p. 193, t. XIII, fig. 50. — Pseudostromatica; nidulis usque ad superficiem ligni denigratis, conicis, corticem perforantibus, regulariter 5 perithecia tenentibus; ascis oblongo-clavatis, 70 \times 8, sessilibus, 8-sporis; sporidiis distichis, hyalinis, oblongo-fusiformibus, apice rotundatis. bilocularibus, demum 4-locularibus ad septa constrictis.

Hab. in ramis Sorbi Aucupariæ in Hungaria.

5. *Diaporthe* (C.) *robusta* Peck, 48 Rep. 1896, p. 16. — Pustulis nu- 2077
merosis, erumpentibus, linea nigra circumscriptis, crustaque nigra tectis; ostioliis modo obscuris, modo prominentibus et distinctis; ascis subfusioideis, 70-85 \times 15; sporidiis varie confertis v. biseriatis, oblongo-ellipsoideis, obtusis, medio valde constrictis, 13-18 \times 6 $\frac{1}{2}$ -7 $\frac{1}{6}$, cellulis plerumque 1-nucleatis.

Hab. in cortice Aceris saccharini et *A. dasycarpi*, Gansevoort et Alcove Amer. bor. — Affinis *D. acerinae*, sed, præcipue, fructificatione majore mox dignoscitur.

6. *Diaporthe* (C.) *marchica* Rehm in Sydow, Mycotheca Marchica 2078
n. 553. — Stromatibus gregariis, per peridermium erumpentibus, ab eoque cinctis, ellipticis v. conico-truncatis, 1 mm. alt. pustulatim elevatis; disco subplano, atro, ostioliis conicis, brevibus, haud sulcatis plerumque circinatim obsessis, 1-2 mm. diam.; peritheciis 8 monostichis, sub epidermide immutata gregarie nidulantibus, fusce-

scentibus, globosis, cortice interiore longe lateque fusco atrato; ascis ellipticis, teneris, 8-sporis, $40 \approx 6-7$; sporidiis distichis, ellipticis, plerumque rectis, 4-cellularibus, quaque cellula nucleo uno magno prædita, medio haud constrictis, hyalinis, $12-14 \approx 3$.

Hab. in ramis Symphoricarpi racemosæ pr. Berolinum Germaniæ (Sydow).

7. *Diaporthe (C.) astrostoma* Hazsl. Math. es term. Közlem. XXV, 2079
2 Budapest 1892, p. 203, tab. XIV, fig. 56. — Stromatibus aggregatis; peritheciis sub cortice nigricata evolutis, 2-10 in quoque stromate hemisphæricæ associatis, ovatis, ostiolis longis in cylindrum sulcatum concretis, corticem perforantibus, supra corticem in forma cylindrica emersis ac in apice cylindri stellatim secedentibus, longis, infundibuliformibus; ascis clavatis, 8-sporis; sporidiis fusiformibus, curvatis, bilocularibus, $12-16 \approx 2$.

Hab. in ramis corticatis Coryli Avellanæ in Hungaria.

8. *Diaporthe (C.) hyperopta* Nits. in Otth, Bern. Mittheil. 1868, p. 47. 2080
— Peritheciis in stromate flavo a corticis strato supremo formato et peridermii pustula tecto circinatim immersis, collis horizontaliter convergentibus; ostiolis in disco flavo v. demum sordide virenti erumpenti sparsis, prominulis; ascis elongatis subfusiformibus, octosporis; sporidiis distichis v. imbricatis, elongato-fusoideis, passim obtusis, inæqualiter didymis, $18-20 \approx 4-5$, hyalinis v. dilutissime fucatis; paraphysisibus nullis.

Hab. in ramis siccis Carpini pr. Bern Helvetiæ. — Var. *tetraspora* Otth, l. c. minor, ascisque tetrasporis. Cum specie.

9. *Diaporthe (C.) flavo-virens* Otth, Bern. Mittheil. 1878, p. 47. — 2081
Peridermii pustulis deplanatis ambitu colliculosis et fuscidulis; peritheciis subglobosis stromate flavo-virenti circinatim immersis, collis horizontaliter convergentibus; ostiolis in disco pariter flavo-virenti intra ejus marginem circinantibus vix prominulis; ascis subfusiformibus octosporis; sporidiis pallidis fusoideis, bilocularibus in utroque loculo 1-guttulatis, $21-23 \approx 6$; paraphysisibus nullis.

Hab. in ramis siccis Coryli, Bern, Helvetia.

10. *Diaporthe (Chorostate) Bonafidii* Sacc. sp. n. — Peritheciis in soros 2082
minutos gregarios subvalseos, quaterno-senis, cortice immutato minute pustulato immersis, globosis, 300 μ . diam., ostiolis conoideis vix convergentibus, erumpentibus; contextu olivaceo-fuligineo; ascis cylindræo-fusoideis, $90-100 \approx 15$, fluxilibus, octosporis, lumine apice emarginato-truncato; sporidiis monostichis v. subdistichis oblongo-fusoideis, sæpe leniter curvis, uniseptatis, non constrictis, $24 \approx 8-9$,

grosse 2- rarius 4-guttatis, hyalinis, utrinque appendiculis curvis circ. $5 \approx 2$ auctis.

Hab. in ramis emortuis Ulmi majoris in horto bot. Pata-vino (a BONAFIDIO anno 1543, primum concepto et propugnato). — Proxima *D. affini* Sacc. a qua differt præcipue stromate haud lutescente furturæo, ostiolis brevibus ceterisque.

11. **Diaporthe** (*C.*) **pinicola** Hazsl. Math. es term. Közlem. XXV, 2083
2 Budapest 1892, p. 200, tab. XIV, fig. 55. — Stromatibus val-seis e peritheciis paucis formatis; peritheciis sub cortice in strato supremo ligni evolutis, globosis, corticem nigricantibus et hemi-sphærice elevantibus; ostiolis cylindricis brevibus perforantibus; ascis fusiformibus, sessilibus, 8-sporis; sporidiis cylindricis, quadri-ocularibus (?), 12-14 μ . longis.

Hab. in corticibus Pini silvestris in Hungaria.

12. **Diaporthe** (*C.*) **Taxi** Oud. et Destrée, Révis. des Champ. tant 2084
supér. qu'infér. trouvés dans les Pays-Bas 1897, p. 251. — Stro-matibus irregulariter sparsis, 1 mm. diam., orbicularibus, nigris. depressis, epidermidem perforantibus, centro disco pallido; perithe-ciis 3-5 in quoque stromate, minutissimis, membranaceis; ascis cylindræis, apice rotundatis, basin versus attenuatis, vix stipitatis, 116 μ . longis; paraphysibus nullis; sporidiis monostichis, hyalinis, ellipticis, bilocularibus, apice rotundatis, angustis, medio constrictis, 18-21 \approx 9, guttulatis.

Hab. in ramis Taxi baccatæ in Hollandia.

13. **Diaporthe** (*Euporthe*) **cornicola** Ell. et Holw. Bull. Lab. Not. 2085
Hist. Jowa 1895, p. 43. — Peritheciis sparsis v. 2-4 valsoideo-aggregatis, globosis, intus albidis v. griseis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., corticilis, basi in lignum penetrantibus; ostiolis breviter cylin-dræis vix emergentibus, epidermidem leviter elevantibus; ascis oblongo-fusoideis, p. sp. 40-45 \approx 8, octosporis; sporidiis oblongis, hyalinis, 4-nucleatis, uniseptatis constrictisque, obtusis, 10-14 \approx 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in ramis majusculis emortuis Corni paniculatæ, De-cora Jowa, Amer. bor. (HOLWAY).

14. **Diaporthe** (*E.*) **Elæagni** Rehm n. sp. in litt. — Stromatibus 2086
ramos corticatos lato ambientibus et vix infusantibus, intra lignum linea nigra haud limitatis; peritheciis gregariis globulosis, ligno infossis, circiter $\frac{1}{2}$ mm. latis; ostiolis cylindræis, obtusis, 6-8 in disco rotundo v. oblongo conjunctis, corticem perforantibus et usque $\frac{1}{2}$ mm. longis excedentibus; ascis fusiformibus, octosporis,

50 × 9; sporidiis fusiformibus, medio constrictis, bicellularibus, quaque cellula biguttulata, hyalinis, distichis, 12-14 × 3 1/2.

Hab. in ramis corticatis *Elæagni argenteæ* ad Berolinum Germaniæ (SYDOW).

15. *Diaporthe (E.) Arctii* (Lasch) Nke.-Syll. I, p. 653. — Var. *Artemisiæ* Rehm, Hedw. 1896, p. (148). — A forma typica recedit stromatibus nulla linea nigra circumscriptis, ascis fusoides, 50 × 9, octosporis; sporidiis fusoides, acutis, plerumque rectis, demum 4-cellularibus, 12-14 × 3-3 1/2.

Hab. in caulibus siccis *Artemisiæ vulgaris* p. Berolinum Germaniæ (SYDOW).

16. *Diaporthe (E.) Phœnicis* Pat. Cat. rais. pl. cell. Tunisie 1897, p. 105. — Stromate látissime effuso, tenui, atro, ambiente; peritheciis solitariis vel 2-3 gregariis, ligno immersis, globosis, 1/4-1/3 mm. latis; ostioliis atris, cylindræis, 1/3 mm. longis; ascis fusoides, aparaphysatis, 60-70 × 8-10; sporidiis octonis, fusiformibus, rectis, hyalinis, medio 1-septatis, non constrictis, 4-guttulatis, 13-15 × 3-4.

Hab. in petiolis putridis *Phœnicis dactyliferæ* in Tunisia.

17. *Diaporthe (E.) radicina* Ell. et Ev. Americ. Natur. 1897, p. 342. — Peritheciis in parvos greges dispositis, matrice immersis, superficiem nigrificantibus, circiter 1/4 mm. diam.; ostioliis erumpentibus, breve cylindræis, levibus, obtusis; ascis cylindræo-fusoides, 40-45 × 5-6; sporidiis mono- vel distichis, oblongis, 3-4 nucleatis, vix constrictis, 10-12 × 3-4.

Hab. ad basim culmorum *Phlei pratensis* pr. Newfield Amer. bor.

18. *Diaporthe (E.) Bambusæ* Pat. Journ. de Bot. 1897, p. 368. — Peritheciis omnino ligno decolorato infossis, nulla linea nigra circumscriptis, solitariis, globosis v. ovalibus, 350 × 250 µ., sensim in collum breve papilliforme in centro disci stromatici nigri v. rubro-brunnei situm attenuatis; ascis cylindræis, apice obtusis, octosporis, 130 × 10; sporidiis distichis, elongato-ellipticis, sæpe utrinque acutatis, medio 1-septatis, non constrictis, eguttatis, 23 × 5, hyalinis, area hyalina fugaci cinctis.

Hab. in culmis siccis *Bambusæ*, Tonkin.

19. *Diaporthe (Tetrastaga) lirellæformis* Pat. Bull. Soc. Mycol. de France 1897, p. 212. — Peritheciis subcutaneis, globosis v. ellipticis, trinis v. quaternis consociatis, minutis, ostiolo prominente; ascis aparaphysatis, 80 × 6-8; sporidiis hyalinis, rectis v. curvulis, fusoides. utrinque acutis, uniseptatis, medio constrictis. 4-guttulatis.

Hab. in caulibus siccis Phacæ bæticiæ in Algeria.

20. **Diaporthe** (*T.*) **Camelliæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 2092 ser. VIII, 1896, Microm. III, p. 31 et Rev. Mycol. 1896, p. 158, tab. CLXVI, fig. 3. — Peritheciis sparsis v. subgregariis, prominulis, cortice immutato immersis, basi strato stromatico nigro exiguo limitatis, globosis, nigris, ostiolo conoideo pertusis, circit. $\frac{1}{3}$ mm. diam.; ascis clavatis, basi longe attenuato-stipitatis, octosporis, 50-70 \times 9-10; sporidiis subdistichis, cylindræo-fusoideis, obtusiusculis, constrictis, 1-septatis, 4-guttulatis, 12-14 \times 4-4 $\frac{1}{2}$, utrinque appendiculatis.

Hab. in ramulis corticatis Camelliæ japonicæ, in horto botanico Senensi Italiae.

21. **Diaporthe** (*T.*) **Hydrangeæ** Ell. et Ev. Field. Columb. Mus. IX, 2093 1896, p. 140. — Peritheciis sparsis, ovato-globosis, 350-380 μ . diam., substrato omnino innatis, sed superficiem non mutantibus, ostiolis firmis, erumpentibus, breviter cylindræis v. conico-cylindræis, apice papilliformibus; ascis oblongo-cylindræis, 50-60 \times 8, octosporis, obscure paraphysatis; sporidiis biseriatis, oblongo-ellipticis, hyalinis, uniseptatis, leniter constrictis, 12-15 \times 3-4, utrinque subacutis.

Hab. in caulibus mortuis Hydrangeæ arborescentis in W. Virginia Amer. bor. (NUTTALL).

22. **Diaporthe** (*T.*) **Flageoletiana** Sacc. Bull. Soc. Myc. de Fr. 1896, 2094 p. 65, tab. V, fig. 6. — Peritheciis gregariis v. sparsis, cortice immutato immersis, linea stromatica nulla limitatis, globosis, 0,5 mm. diam., ostiolo exiguo vix erumpente; ascis fusoideis, 45 \times 6, paraphysatis, apice bifoveolatis, 8-sporis; sporidiis fusoideis, utrinque acutiusculis, 12-14 \times 3, tenuiter uniseptatis, vix constrictis, plasmate bipartito, hyalinis.

Hab. in ramis corticatis emortuis Calycanthi floridi pr. Rigny Gallicæ. — Affinis *D. oligocarpæ*, sed differt linea stromatica nulla etc.

23. **Diaporthe** (*T.*) **macrostalagmia** F. Tassi, Atti d. R. Accad. dei 2095 Fisiocr. Siena, ser. IV, vol. VIII, 1897, p. 3, fig. 1. — Stromate late effuso, ramos ramulosque longe et late ambiente, strato extimo nigricante; peritheciis minutis, globosis vel sæpe basi applanatis vel angulosis, irregulariter sparsis gregariisve, peridermio immutato sed subprominulo tectis, tarde vetusto cortice erumpentibus lignoque nigricato insidentibus; ostiolis abbreviatis; ascis cylindricis v. subcylindricis, paraphysatis, intus apice 1-foveolatis,

basi attenuato-stipitatis, membrana plus minusve crassiuscula instructis, 65-70 \times 12-14, octosporis; sporidiis distichis, fusoides, medio constricto-1-septatis, 16-18 \times 4-5 $\frac{1}{2}$, exappendiculatis, guttulis magnis binis in singulis loculis ornatis.

Hab. in ramis ramulisve Escallonix montevidensis, in horto bot. Senensi Italia bor.

24. *Diaporthe* (*T.*) *aorista* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2096 p. 132. — Peritheciis sparsis v. gregariis sæpe binis trinis subconfluentibus, interdum subseriatim dispositis cortice immutato leniter immersis, nulla linea nigra circumscriptis, epidermidem non decoloratam leniter elevantibus, globosis, minutis, 300-350 μ .; ostioliis exsertis, asperulis, conico-cylindræis, brevibus; ascis oblongo-cylindræis, p. sp. 35-45 \times 8; sporidiis distichis, oblongis, 1-septatis, leniter constrictis, 2-4-nucleatis, obtusis, hyalinis, 11-13 \times 4-4 $\frac{1}{2}$.

Hab. in caulibus emortuis Solidaginis spec., New York Amer. bor.

25. *Diaporthe* (*T.*) *ligustrina* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2097 p. 132. — Peritheciis dense sparsis cortice immutato immersis, $\frac{1}{3}$ mm. diam.; ostioliis subconicis, tuberculiformibus v. subglobosis, sæpe in rimis corticis longitudinalibus seriatim dispositis, distincte erumpentibus ideoque perithecia superficialia simulantibus; ascis clavato-oblongis, 50-60 \times 8-10; sporidiis subdistichis, initio fusoides, maturis autem utrinque obtuso-rotundatis medioque constrictis, 10 \times 4 vel 9-11 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in ramis corticatis Ligustri in America boreali.

26. *Diaporthe* (*T.*) *Mühlenbeckiæ* F. Tassi, Atti R. Acc. dei Fisiocr. 2098 Siena, 4 ser. VIII, 1896, (Microm. III, p. 3), et Rev. Mycol. 1896, p. 158, tab. CLXVI, fig. 4. — Stromate effuso, plerumque substrato nigricante ambiente; peritheciis mediocribus, globulosis v. basi paullo applanatis, nigris, pertusis, $\frac{1}{3}$ - $\frac{1}{4}$ mm. diam.; ascis subcylindræis, membrana statim deliquescente, octosporis, 50-60 \times 7-8; sporidiis distichis, fusoides, bicellularibus, medio constrictis, 4-guttulatis, hyalinis, 10-12 \times 2-2 $\frac{1}{2}$; spermogoniis phomatoideis; spermatis ellipsoideis, continuis, primum breviter stipitatis, 2-3 \times 1 $\frac{1}{2}$ -2.

Hab. in ramulis emortuis Muehlenbeckiæ complexæ in horto botanico Senensi Italiæ. — Ad staturum spermogonicum qui invenitur una cum statu ascophoro, pertinet probabiliter *Phoma Muehlenbeckiæ* Cke. et Mass.

27. *Diaporthe* (*T.*) *Othii* Nits. in Oth, Bern. Mittheil. 1868, p. 45. 2099 — Peritheciis subglobosis, membranaceis inter corticis fibras nidu-

lantibus, sæpe ad lignum usque demersis, collis convergentibus, ostiolis subincrassatis, confertis, per peridermium erumpentibus, prominulis, nucleo cinereo, gelatinoso; ascis eximie diaphanis subfusiformibus. octosporis; sporidiis distichis aut subimbricatis, 18 \times 5-6, paraphysibus non distinctis; linea nigra interiore vulgo plura specimina circumscribenti, in peridermio neutiquam conspicua.

Hab. in ramis emortuis Ulmi, Bern, Helvetia. — Affinis dicitur *D. controversæ*.

28. *Diaporthe* (*T.*) *cupulata* Berl. et Destrée, Supplém. au Catal. des Champ. des environs de la Haye, 1897, p. 7. — Stromate nullo manifesto; peritheciis crebre sparsis v. subgregariis, cupulatis, ostiolo minuto peridermio circa ostiolum nigricante adhærentibus; ascis longiuscule stipitatis, clavatis, parte sporif. 45-50 \times 10-12, octosporis; sporidiis cylindraceo-fusoideis, rectis v. curvulis, ad medium pseudouniseptatis, vix constrictis, 4-guttatis, 18-20 \times 4-5, ex hyalino viridulis. 2100

Hab. in ramulis siccis Populi balsamiferæ in Hollandia. — Peritheciis eximie cupulatis *Ditopellam fusisporam* in mentem revocat.

29. *Diaporthe* (*T.*) *javanica* Penz. et Sacc. Malpighia XI, 1897, p. 503. — Effusa, maculas sinuosas fuscas in matricis superficie efformans, intus nigro-circumscripta; peritheciis immersis, gregariis, globulosis, atris, 0,3 mm. d., ostiolis punctiformibus, vix emergentibus; ascis fusoideis, sessilibus, 30-35 \times 6, octosporis, aparaphysatis; sporidiis distichis v. oblique monostichis, oblongis, utrinque obtusulis, 10-12 \times 4-5, medio constrictis obsoleteque septatis, 4-guttatis, hyalinis. 2101

Hab. in caule emortuo Elettariæ, Tjibodas, ins. Java. — Affinis *D. gloriosæ* S. et Sp., sed præsens potius *Tetrastaga*, quam *Eaporthe*.

30. *Diaporthe Tecomæ* Sacc. et Syd. Sic nominanda est *Diaporthe interrupta* Niessl in Syll. IX, p. 718, quum exstet anterior *D. interrupta* (Mont.) Sacc. in Syll. I, p. 617.
31. *Diaporthe Drimydis* Sacc. et Syd. Sic nominanda est *Diaporthe Winteri* Speg. in Syll. IX, p. 720, quum exstet anterior *D. Winteri* J. Kze. in Syll. I, p. 658.

ENDOTHIA Fr. — Syll. I, p. 600, IX, 700.

1. *Endothia Nitschkei* Otth, Bern. Mittheil. 1868, p. 48. — Peritheciis 8-10 in cortice immersis, discretis; collis erecto-conniventibus, 2102

stroma spermogonicum grumosum fulvo-ferrugineum, tuberculi-forme erumpens perfodientibus, ostiolis sparsis, atris, exsertis, subcylindricis, nucleo cinereo-gelatinoso; ascis clavatis, octosporis; sporidiis oblongis, obtusis, bilocularibus ad septum vix conspicuum quandoque leniter constrictis, 12-16 \times 4-5; paraphysibus nullis; spermogoniis sinuosis, membranaceis, fuscis, periphericis; sporulis (spermatiiis) cylindræis, vix curvulis, 5 \times 1, hyalinis, demum cirrose expulsis.

Hab. in ramis emortuis Tiliæ grandifoliæ pr. Bern, Helvetia.

Sect. 5. Phæodidymæ.

TICHOTHECIUM Flot. — Syll. IX, p. 723.

1. **Tichothecium Vermiculariæ** (Linds.) Jacz. Bull. Soc. Myc. de Fr. 2103 1896, p. 93. *Microthelia vermicularia* Linds. N. Z. Lich. and Fungi p. 441. — Peritheciis immersis, punctiformibus, nigris, non papillatis; ascis ovoideis, sessilibus, irregularibus; sporidiis octonis, ovoideis, oblongis, brunneis, bicellularibus, ad septum valde constrictis, 8-11 \times 3-4.

Hab. in thallo *Thamnotiæ vermiculariæ* in Helvetia.

DIDYMOSPHERIA Fuck. — Syll. I, p. 701, IX, p. 728, XI, p. 312.

1. **Didymosphæria Thalictri** E. et D. Proc. of the Canad. Inst. 1897, 2104 p. 89. — Peritheciis gregariis depresso globosis, 200-250 μ . diam., per epidermidem atratam ostiolo papillato deciduo vix pertusam conspicuis; ascis oblongis, breve papillatis, paraphysatis, 8-sporis; sporidiis distichis, fusoideo-oblongis, subhyalinis, 4-nucleatis, demum 1-septatis, constrictulis, subinæquilateris v. leviter curvis, pallide brunneis, 13-15 \times 3 $\frac{1}{2}$.

Hab. in caulibus emortuis *Thalictri polygami*, London Canada Amer. bor.

2. **Didymosphæria epidermidis** (Fr.) Fkl.-Sacc. Syll. I, p. 709. — 2105
Var. **macrospora** Eliasson, Fungi Upsalienses in Bih. K. Sv. Vet.-Akad. Handl. Bd. XXII, Afd. III, n. 12, 1897, p. 10. — Ascis 70-85 \times 12-13; sporidiis 23-30 \times 6-9.

Hab. in ramis vivis *Berberidis vulgaris* in Suecia.

3. **Didymosphæria Staphylæ** Hazsl. Math. es term. Közlem. XXV, 2106 2, Budapest, 1892, p. 126, tab. VIII, fig. 34. — Peritheciis dense aggregatis, globosis, rostratis, rostro sæpe diametrum perithecii

superante, epidermidem perforantibus, solummodo ascis repletis; ascis clavatis breviter stipitatis, 8-sporis; sporidiis distichis, hyalinis, ovalibus, ad septum constrictis, oculis sæpe secedentibus, $20 \approx 8$.

Hab. in ramulis *Staphyleæ pinnatæ*, in Hungaria.

4. *Didymosphæria Cerasorum* (Fr.) Sacc.-Syll. I, p. 705. — *D. pa- 2107
dina Sacc. Bull. Soc. Myc. de Fr. 1896, p. 66, tab. V, fig. 4. — Peritheciis obtusis, vix 0,5 mm. diam., nigris, subcutaneo-erumpentibus; sporidiis fuliginis, monostichis, elliptico-fusoidis, obtusiusculis. $24-26 \approx 9-11$, ad septum non vel vix constrictis; ascis $140 \approx 12$.

Hab. in ramis *Pruni Padi* pr. Rigny Galliæ (FLAGEOLET). —

A typo recedit præsertim sporidiis paullo majoribus et obtusioribus.

5. *Didymosphæria Aucupariæ* (Plowr.) Oud. Révis. des Champ. II, 1897, 2108
p. 466, *Sphærella Aucupariæ* Plowr. in Sphær. brit. II, n. 92. — Ascis cylindraceis, basi paulum dilatatis, octosporis; sporidiis monostichis v. apice monostichis et inferne sine ordine dispositis, ellipticis, utrinque rotundatis, griseolis, $9-10 \approx 4\frac{2}{3}-5$, apicem versus uniseptatis; paraphysibus filiformibus, numerosis.

Hab. in foliis *Sorbi Aucupariæ* in Hollandia et Anglia.

6. *Didymosphæria myrticola* Casali, Malpighia 1897, p. 85. — Peri- 2109
theciis sparsis, globoso-depressis, vix prominulis, coriaceis, papillatis, $190 \approx 200 \mu$., ostiolo minutissimo; ascis cylindraceis, paraphysatis, octosporis; sporidiis monostichis, ovatis, utrinque obtusis, olivaceis v. fuliginis, 2-guttulatis, $7-9 \approx 4-6$.

Hab. in ramis emortuis *Myrti communis* in Italia centr.

7. *Didymosphæria major* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 130. 2110
— Gregaria, superficie atrata ligni tecta, pustulas formans, quæ ostiolo papilliformi perforantur; peritheciis ligno immutato immersis, ca. 300μ . diam.; ascis cylindraceis, $90-105 \approx 10-12$, breviter stipitatis, paraphysatis, octosporis; sporidiis monostichis, plerumque obliquis, oblongo-ellipticis, uniseptatis, non vel vix constrictis, pallide fuscis, obtusis, $12-18 \approx 7-8$.

Hab. in ligno decorticato *Rhois glabræ* in Kansas Amer. bor. (BARTHOLOMEW). — A *Didymosphæria rhoina* Ell. et Ev. differt ascis et sporidiis majoribus.

8. *Didymosphæria rhoina* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 130. 2111
— Peritheciis gregariis tectis, ovato-globosis, $350-450 \mu$. diam., ostiolo conico-papilliformi erumpente ornatis; ascis cylindraceis, breviter stipitatis, paraphysatis, $60-70 \approx 6$; sporidiis monostichis, ellipticis, pallide brunneis, vix constrictis, $7-8 \approx 4-5$.

Hab. in ligno vetusto decorticatoque *Rhois glabræ*, Kansas Amer. bor. (BARTHOLOMEW).

9. *Didymosphæria Thapsi* Vestergr. Bihang: K. Svenska V. A. Handl. 2112 XXII, Afd. III, n. 6, 1896, p. 13. — Peritheciis epiphyllis, plus minusve immersis, sparsis, rugosiusculis, sphæroideis, textura parenchymatica, ostiolo papillæformi præditis, ca. 150 μ . diam., membranaceis, nigris; hyphis brunneis, ramosis, plerumque cellulis elongatis, ad perithecia autem subisodiametricis, 4-5 μ . crassis compositis; ascis cylindraceutis v. clavulatis, vertice incrassato, rotundato præditis, brevissime pedicellatis, 53-65 \times 7-9; paraphysibus filiformibus, ascos superantibus; sporidiis octonis, typice distichis, fusoides, rectis v. curvatis, prope medium constrictè uniseptatis, loculis subconicis, loculo superiore deorsum crassiore, 16-20 \times 3-4, 4-guttulatis, fuliginis.

Hab. in pagina superiore foliorum languidorum *Verbasci Thapsi* in Gotlandia Sueciæ.

10. *Didymosphæria Tecomæ* Cke.-Sacc. Syll. XI, p. 313. — Var. 2113 *monosticha* F. Tassi, Bull. del Lab. Bot. de R. Univ. Siena, 1898, fasc. I, p. 6, tab. IX, fig. 3. — Peritheciis innatis, subglobosis, atris, sparsis, 80-100 μ . diam., papillatis; ascis clavatis, 80-90 \times 6-8, octosporis, paraphysibus æquilongis ramulosis fultis; sporidiis ovoideis, fuliginis, rectis, imbricatis v. oblique uniseriatis.

Hab. in ramis putrescentibus *Tecomæ radicans* in horto bot. Senensi, Italia centr.

11. *Didymosphæria Celtidis* Ell. et Ev. Proc. Acad. Philad. 1895, 2114 p. 421. — Peritheciis dense sparsis, globosis, minutis, circiter 300 μ . diam., epidermide in pustulas elevata et ostiolo papilliformi pertusa tectis; ascis ventricoso-oblongis, sessilibus, 55-60 \times 18-25, obscure paraphysatis, octosporis; sporidiis confertis, distichis, obovatis, uniseptatis leniter constrictis, brunneis, 20 \times 10, interdum etiam ellipticis et 20-25 \times 10-12 metientibus.

Hab. in ramis emortuis *Celtidis occidentalis*, Kansas, Amer. bor. (BARTHOLOMEW). — Ascis mox evanidis, ideoque species *Diplodiam* in mentem revocat.

12. *Didymosphæria decolorans* Rehm in *Ascomycetes* exs. fasc. XXIV 2115 n. 1239, Hedw. 1898, p. (143). — Peritheciis in maculis corticis ellipticis usque ad 5 cm. longis et 1 1/2 cm. latis, flavo-fuscis epidermidi tenuissimæ immersis, dein per eam rimose fissam gregarie prurumpentibus, dimidiatis, nigris, glabris, poro minutissimo pertusis, senilibus deformatis, 300-400 μ . diam.; ascis cylindraceutis, apice

rotundatis, $60 \times 7-8$, octosporis; sporidiis monostichis, ellipticis, rotundatis, bicellularibus, utraque cellula guttula oleosa magna prædita, haud medio constrictis, fuscidulis, $7-10 \times 3\frac{1}{2}-4\frac{1}{2}$; paraphysibus filiformibus, hyalinis.

Hab. in ramis Salicis capreae exsiccatis, Oberammergau reg. subalpinæ Bavariæ (SCHNABL).

13. **Didymosphæria impar** Penz. et Sacc. Malpighia XI, 1897, p. 396. 2116

— Peritheciis gregariis, amphigenis, innatis, globoso-depressis, $110-130 \mu$. diam., poro pertusis, atris, membranaceis; ascis oblongo-clavatis, brevissime noduloso-stipitatis, $60-65 \times 15$; paraphysibus articulatis (spuriis?); sporidiis distichis v. oblique monostichis, oblongo-clavatis, constricto-1-septatis, loculo superiore crassiore obtusiore, $22-24 \times 7-8$, fuliginis, mucro tenuissimo hyalino (constanter?) obductis.

Hab. in foliis morientibus Curculiginis latifoliae, Java,

14. **Didymosphæria sphærophora** Ell. et Ev. Bull. Torr. Bot. Club. 2117

1895, p. 439. — Peritheciis sparsis, innatis, 1 mm. diam., demum plus minus distincte collabentibus, apice erumpentibus; ostioliis latis, papilliformibus; ascis cylindracois, stipitatis, paraphysatis, 8-sporis, p. sp. $100-110 \times 10-12$; sporidiis monostichis, oblongis, uniseptatis, obscure brunneis, constrictis, plus minus asperis, $16-20 \times 6-8$, utrinque appendicula depresso-globosa, luteolo-hyalina, præditis.

Hab. ad folia Agaves spec., Mexico (EGELING).

15. **Didymosphæria Festucae** Wegelin, Mitth. d. Thurgauer Naturf. 2118

Ges. Heft XII, 1896, p. 2, extr. tab. II, fig. 1-3. — Peritheciis in maculis nigris immersis, $250-400 \times 200-300$, ellipticis, nigris, ostiolo vix prominulo; paraphysibus numerosis, filiformibus; ascis cylindraco-clavatis, 8-sporis, subsessilibus, in juventute $100-110 \times 15-17$, in maturitate $145 \times 17-18$; sporidiis distichis, clavato-fusiformibus, attenuatis, inæqualiter bicellularibus, ad septum non constrictis, melleis, $35-46 \times 8-11$, plasmate granuloso repletis.

Hab. in vaginis foliorum Festucae, Helvetia.

16. **Didymosphæria Bambusae** Roll. Bull. Soc. Myc. de Fr. 1896, p. 4, 2119

tab. I, fig. 9. — Peritheciis nigris, sparsis, erumpentibus aut epidermide velatis, lenticulari-subglobosis v. depressis, ostiolatis, circ. $\frac{1}{2}$ mm. latis; ascis cylindraco-clavatis, attenuato-stipitatis, $80-100 \times 10$, octosporis; sporidiis monostichis, ovoideo-oblongis, medio 1-septatis, non vel constrictis, loculis uni-vel pluri-guttatis, brunneo-fuliginosis, $15-20 \times 5$; paraphysibus angustis, numerosis, ramulosis.

Hab. ad corticem *Bambusæ*, Golfe Juan Galliæ. — A *D. donacina* præcipue differt stipitibus ascorum brevibus, sporidiis monostichis majoribus.

17. **Didymosphæria fuispora** Penz. et Sacc. *Malpighia* XI, 1897, 2120 p. 395. — Peritheciis gregariis, innatis, semierumpentibus, globoso-conicis, 0,3 mm. diam., nigris, glabris, matrice infusca cinctis; ascis fusoides, breviter stipitatis, apice acutulis, 60-75 \times 14-16, filiformi-paraphysatis, 8-sporis; sporidiis mono-v. distichis, fusoides, utrinque acutiusculis, curvulis, 25-30 \times 6 $\frac{1}{2}$ -8, uniseptatis, non v. vix constrictis, 2-4-guttatis, fuligineis.

Hab. in culmis *Bambusæ*, Java.

18. **Didymosphæria minutella** Penz. et Sacc. *Malpighia* XI, 1897, 2121 p. 396. — Peritheciis seriatis, innatis, peridermio conspicue longe et nitide atrato, tumidulo tectis, globoso-depressis, 0,2 mm. latis, ostiolo vix manifesto; ascis cylindræis, subsessilibus, apice rotundatis, filiformi-paraphysatis, 8-sporis, 50-60 \times 5; sporidiis monostichis, obovatis, 1-septatis, non constrictis, 8-10 \times 3, olivaceo-fuligineis.

Hab. in culmis emortuis *Bambusæ*, Java. — Videtur affinis *D. graminicolæ* Ell. et Ev. et *D. minutæ* Niessl.

MASSARIELLA Speg. — Syll. I, p. 716, IX, p. 739, XI, p. 314.

1. **Massariella Spartii** Casali, *Malpighia* 1897, p. 86. — Peritheciis 2122 sparsis, globosis, immersis, ostiolo brevi, cuticulam perforante, vix prominulo; ascis clavatis, paraphysatis, 100 \times 10; sporidiis monostichis, ellipsoideis, utrinque rotundatis, biseptatis, flavescensibus, mucro hyalino obvolutis, 12-14 \times 8.

Hab. in ramulis viridibus *Spartii juncei* pr. Romam Italiæ.

2. **Massariella Lycii** Hazsl. *Math. es term. Közlem.* XXV, 2 Buda- 2123 pest, 1892, p. 172, t. XII, f. 48. — Peritheciis sparsis, innatis, globosis, ostiolis peridermium perforantibus; ascis cylindræis, 140-180 \times 30-35, breviter stipitatis longeque paraphysatis, 8-sporis; sporidiis mono- vel distichis ovatis, utrinque attenuatis, 1-septatis constrictisque, dilute flavido-brunneis, 30-45 \times 10.

Hab. in ramis *Lycii barbari*, in Hungaria.

AMPHISPHERIA Ces. et De Not. — Syll. I, p. 718, IX, p. 741, XI. p. 315.

1. **Amphisphæria separans** Ell. et Ev. *Bull. Torr. Bot. Cl.* 1897, 2124 p. 130. — Peritheciis subgregariis ovato-conicis, griseolo-brunneis,

$\frac{1}{2}$ mm. circiter diam., 1 mm. altis, basi ligno leniter immersis; ostiolo breve cylindraceo, nigro, aspero, obtuso; ascis cylindraceis, $110 \approx 12$, octosporis, paraphysatis; sporidiis ellipticis utrinque attenuatis, sed obtusis, brunneis, 1-septatis, ad septum profunde constrictis ibique facile secedentibus, 20-23 \approx 9-11.

Hab. in ligno vetusto Gossypii, Kansas Amer bor.

2. **Amphisphæria melantera** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2125 p. 278; Bull. Torr. Bot. Cl. 1898, p. 513. — Peritheciis erumpenti-superficialibus ovato-globosis, nigris, 400 μ . diam., sed magnitudine valde ludentibus, sæpe depressis, interdum distincte collapsis, sparsis, ostiolo obscuro demum perforato; ascis oblongo-cylindraceis, subsessilibus, 100-110 \approx 20-22, paraphysibus copiosis filiformibus obvallatis; sporidiis distichis, oblongis, uniseptatis, ad septum profunde constrictis ibique facile secedentibus, loculo inferiore plerumque angustiore, brunneis, 20-35 \approx 12-15.

Hab. in cortice Quercus undulatae, Colorado Amer. bor.

3. **Amphisphæria salicicola** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 2126 p. 13. — Peritheciis subcastaneo-erumpentibus, dense gregariis v. caespitosis in macula pallida, globoso-depressis, nitido-atris, $\frac{1}{10}$ - $\frac{1}{8}$ mm. diam.; ascis cylindraceis, octosporis, 60-80 \approx 7-8; sporidiis oblique monostichis, ovoideis v. oblongis, 1-septatis, biguttulatis, utrinque obtusis v. rotundatis, 8-10 \approx 4-5, viride brunneis; paraphysibus filiformibus, quam ascis, longioribus, ca. 1 μ . crassis.

Hab. in ramulis Salicis Capreae, in Bavaria super. (SCHNABL).

4. **Amphisphæria callicarpa** Penz. et Sacc. Malpighia XI, 1897, p. 397. 2127 — Peritheciis laxè gregariis, ligno atrato basi applanata superficialibus, 1-1,3 mm. latis, alte semiglobosis, exquisite tornatis, acute papillatis, levibus, nigris, contextu crasse pachydermatico; ascis clavatis, longe tenuiter stipitatis (immaturis visis); sporidiis fusoidis, utrinque acutiusculis, 15-16 \approx 3-4, constricto-1-septatis, rectis, fuliginis.

Hab. in ligno putrescente, Java. — Præcipue peritheciis duplo majoribus, regulariter tornatis ab *A. macropoda* Sacc. statim distinguenda.

5. **Amphisphæria obscura** Sacc. Malpighia XI, 1897, pag. 288. — 2128 Peritheciis sparsis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., basi adnata superficialibus, globoso-hemisphæricis, nigris, papillatis, tenui-carbonaceis, glabris; ascis cylindraceis, octosporis, breve nodoso-stipitatis, 120-140 \approx 12, apice rotundatis; paraphysibus filiformibus, tortuosis; sporidiis monostichis v. partim distichis, ovato-clavatis, constricto-unisept-

tatis, 18-22 \times 6-8, rectis curvulisve, olivaceo-fuliginis, strato mucoso, hyalino, 1 μ . crasso obvolutis, loculo superiore crassiore obtusiore.

Hab. in ramis putridis, Valsesia, Italia (CARESTIA).

6. **Amphisphæria nobilis** (Schw.) Ellis, Proc. Acad. Philad. 1895, p. 26, 2129
Sphæria nobilis Schw. in herb. — Peritheciis superficialibus, ovato-globosis, nigris, 350-400 μ . diam., glabris, ostiolo acuto papilliformi; ascis clavato-cylindræis, breve stipitatis, paraphysatis, 75-80 \times 12-15, octosporis; sporidiis confertis, biseriatis, oblongo-fusoideis, leniter curvulis, obtusis, brunneis, uniseptatis, vix constrictis, omnibus cellulis nucleo magno præditis, 18-22 \times 6-7.

Hab. ad ligna putrida, Salem, Amer. bor.

7. **Amphisphæria pilosella** Ell. et Ev. Proc. Acad. Philad. 1895, p. 418. 2130
 — Peritheciis gregariis, superficialibus, subcarbonaceis, minutis, 200-250 μ . diam., subglobosis, supra subcollabentibus, primo pilis brevibus, pallidis, gracilibus vestitis; ostiolo papilliformi, minuto sed distincto; ascis cylindræis, 65-70 \times 6, in stipitem 25-30 μ . longum attenuatis, p. sp. 55-60 μ ., indistincte paraphysatis, 6-8-sporis; sporidiis monostichis, oblongo-ellipticis, uniseptatis, non constrictis, pallide brunneis, 7-10 \times 3 $\frac{1}{2}$ -4.

Hab. in ligno dejecto arborum, Ohio, Amer. bor. (MORGAN).

— *A. oronoensi* affinis, differt peritheciis majoribus, pilosis, subcollabentibus et sporidiis submajoribus.

8. **Amphisphæria Papilla** (Schw.) Ellis, Proc. Acad. Philad. 1895, 2131
 p. 23, *Sphæria Papilla* Schw. Syn. Car. n. 159. — Peritheciis conico-hemisphæricis, basi ligno leviter immersis, $\frac{3}{4}$ -1 mm. diam., ostiolo distincto conico-papilliformi; ascis cylindræis, breve stipitatis, paraphysatis, p. sp. 100-120 \times 12-15, brunneis, uniseptatis, leniter constrictis, 25-32 \times 8-12.

Hab. in ligno putrido, Bethlehem, Amer. bor.

9. **Amphisphæria rhodella** Pat. Bull. Soc. Myc. de Fr. 1895, p. 225. 2132
 — Peritheciis atris, superficialibus, laxe gregariis, globosis, glabris, $\frac{1}{2}$ mm. diam., ostiolo punctiformi rubescente donatis; ascis cylindræis, 100 \times 10, 8-sporis, filiformi-paraphysatis; sporidiis distichis, elongatis, fusoides, medio 1-septatis constrictisque, fuliginis, 1-2-guttulatis, 40-43 \times 10.

Hab. in cortice vetusto in Æquatoria (v. LAGERHEIM). — *A. australi* Speg. affinis.

10. **Amphisphæria confertissima** Ell. et Ev. Proc. Acad. Philad. 1895, 2133
 p. 418. — Peritheciis superficialibus, subglobosis, 210-220 μ . diam.,

leviter papillato-asperulis, nigris confertissimis, in maculis oblongis $\frac{1}{2}$ -1 cm. longis et 2-3 mm. latis sæpe confluentibus sitis; ostiolo papilliformi, nigro; ascis cylindræis, breve stipitatis, p. sp. 55-60 \approx 8, paraphysatis, octosporis; sporidiis oblique monostichis, ovato-ellipticis, brunneis, uniseptatis, constrictis, 9-11 \approx 5-6.

Hab. in ligno aeri diu exposito, Ohio, Amer. bor. (MORGAN). — *A. Spegazziniana* proxima, sed differt sporidiis.

11. **Amphisphæria Phœnicis** Pat. Enum. Champ. Tunisie, 1892, p. 12, 2134
tab. II, fig. 7. — Peritheciis superficialibus, nigris, gregariis v. sparsis, subglobosis, apice papillatis, $\frac{1}{3}$ - $\frac{3}{4}$ mm. diam., intus albis; ascis octosporis; sporidiis distichis, brunneis, fuliginosis, fusoides, uniseptatis, ad septum constrictis, utrinque obtusis, rectis v. vix curvulis, quoque loculo uniguttulato, 26-32 \approx 9-10.

Hab. ad petiolos putridos Phœnicis dactyliferæ in Tunisia.

12. **Amphisphæria Junci** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 106. 2135
— Peritheciis sparsis, atris, basi insculptis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. latis, conoideis, apice ostiolo pertusis, contextu atro, carbonaceo; ascis octosporis; sporidiis atris, cohærentibus, citrififormibus, utrinque mucronatis, medio septatis constrictisque, opacis, magnis, 65-78 \approx 30-40.

Hab. in rhizomatibus Junci acuti in Tunisia.

DELITSCHIA Auersw. — Syll. I, p. 732, IX, p. 747, XI, p. 317.

1. **Delitschia insignis** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. 2136
XXXVI, 1897, 2 part. p. 13, t. A. f. 8. — Peritheciis immersis, globosis, glabris, coriaceis, $\frac{1}{7}$ - $\frac{2}{5}$ mm., ostiolo cylindrico, nigro, robusto, longiuseculo; ascis primo teretibus, apice rotundatis, dein fusoides-cylindræis, pedicellatis, 8-sporis, p. s. 180-200 \approx 30, stipite 30-50 μ . longo; paraphysibus filiformibus, septatis, asco longioribus; sporidiis biseriatis, oblongis, apicibus obtuse rotundatis, olivaceofuscis, medio constricto-septatis, quaque cellula ovato-elliptica, nunquam ad quartam partem inferiorem tenuiter (spuriæ?) septata, sine zona mucosa sed utroque fine caudam hyalinam, flexilem, gerentibus, 40-60 \approx 15.

Hab. ad fimum vaccinum pr. Liège Belgii.

NEOPECKIA Sacc. (1893). — Syll. IX, p. 749, XI, 317.

1. **Neopeckia pumila** Penz. et Sacc. Malpighia XI, 1897, p. 396. — 2137
Subiculo late effuso, velutino, atro, e setulis subsimplicibus, septatis, fuliginis formato; peritheciis globoso-conoideis, breve papillatis, subiculo interspersis, 200-300 μ . diam., adultis subcalvis et late

apertis, contextu dense atro-fuligineo; ascis cylindraceutis, breve stipitatis, apice rotundatis et bi-foveolatis, obsolete paraphysatis, 8-sporis, 100-110 \times 8-9; sporidiis monostichis, elliptico-fusoideis, utrinque acutulis, diu continuis, dein 1-septatis, non constrictis, fuliginosis, 16-18 \times 6.

Hab. in culmis (vel caulibus?) crassioribus in horto bot. Bogoriensi, Java.

BHYNCHOSTOMA Karst. — Syll. I, p. 730, IX, p. 750, XI, p. 317.

1. **Rhynchostoma Biolleyana** Bonm. et Rouss. Bull. Soc. bot. Belg. 2138 1896, p. 159. — Peritheciis sparsis, superficialibus, atris, globosis v. subglobosis, rostro filiformi longissimo, flexuoso, contextu fibroso, 126-135 μ . longis; ascis cylindraceutis, sessilibus, 8-sporis, membrana tenuissima, fugaci, 43-64 \times 7,2; paraphysibus guttulatis ad basin dilatatis; ascis longioribus (90 μ .); sporidiis monostichis v. subdistichis, fuliginosis, cylindraceutis, initio continuis, tarde uniseptatis, 14.4 \times 3,6.

Hab. in foliis caulibusque *Diplostephii rupestris*, Costa-Rica.

2. **Rhynchostoma rhytidosporum** Peuz. et Sacc. Malpighia XI, 1897, 2139 p. 408. — Peritheciis laxe gregariis, innato-erumpentibus, 0,5-0,7 mm. diam., globoso-conicis, in ostiolum cylindricum rigidum rectum, 1 $\frac{1}{2}$ -2 mm. long., $\frac{1}{4}$ mm. crass., sensim abeuntibus, aterritis, æque ac ostiolo; ascis fusoideis, subsessilibus, utrinque acutiusculis, 150-160 \times 15, octosporis, copiose filiformi-paraphysatis; sporidiis distichis v. subtristichis, fusoideis, curvulis, utrinque acutis, 80-85 \times 7, olivaceo-fuliginosis, longitrorsum tenuiter striatis.

Hab. in ramis putridis, Tjibodas, Java.

GAILLARDIELLA Pat. Bull. Soc. Myc. de Fr. 1895, p. 226 (Etyml. a cl. mycologo M. GAILLARD). — Perithecia superficialia, cupuliformia, membranacea, ostiolata, rugosa, glabra, contextu cellulis angulosis magnis composito. Asci octospori. Sporidia brunnea, didyma. — Ad Hypocreaceas quoque vergit, teste auctore.

1. **Gaillardiella pezoides** Pat. l. c. — Peritheciis atris, superficialibus, 2140 cupulatis, 1 mm. diam., ostiolo papillato donatis, hyphis repentibus, brunneis, 10 μ . diam., septatis, radiantibus cinctis; excipulo e cellulis polygonis, magnis, 25-35 μ . latis, fuliginosis, pellucidis, coriaceo-membranaceis contexto, extus ad instar *Meliolæ* tuberculato, nucleo albo; ascis 8-sporis, clavatis, longe stipitatis, 90-100 \times 7-8;

sporidiis distichis, rufo-brunneis, ovoideis, medio 1-septatis, non vel vix constrictis, $10 \approx 5$.

Hab. in fragmentis ligni putridis dejectis in Æquatoria (v. LAGERHEIM).

OTTHIA Nits. — Syll. I, p. 735, IX, p. 752, XI, p. 317.

1. **Othia hungarica** Sacc. et Syd. *Othia Syringæ* Hazsl. Math. es 2141 term. Közlem. XXV, 2 Budapest. 1892, p. 88, tab. V, fig. 19. nec (Fr.) Niessl. — Peritheciis parvis, subglobosis, epidermidem perforantibus et cæspites minimos formantibus, ostiolo rotunde perforatis; ascis cylindricis, tenuibus, $120-130 \mu$. longis, stipitatis; sporidiis longitudinaliter monostichis, fusco-nigris, oblongis, ad septum leniter constrictis, $20 \approx 8-10$.

Hab. in ramis emortuis Syringæ vulgaris in Hungaria. — Ob perithecia minima, ob cæspites minulos, ob ascorum et sporidiorum formam distincta species.

MELANCONIELLA Sacc. — Syll. I, p. 740, IX, p. 753.

1. **Melanconiella appendiculata** (Oth) Sacc. Hedw. 1896, p. 29, *Dia-* 2142 *porthe appendiculata* Oth, Bern. Mittheil. 1870, p. 100. — Peritheciis paucis subconfertis, depressis, stromate corticali, pustulato immersis, collis erecto-conniventibus; ostioli crassiusculis in disco erumpenti nigro-fusco; ascis oblongato-ellipsoideis, basi brevissime rostratis, octosporis; sporidiis majusculis, constricto-1-septatis, umbrinis, $38 \approx 16$, utrinque breviter obtuseque hyalino-appendiculatis.

Hab. in ramis corticatis Aceris platanoidis in Helvetia. — Certe affinis *M. acrocysti* (Peck).

VALSARIA Ces. et De Not. — Syll. I, p. 741, IX, p. 755, XI, p. 318.

1. **Valsaria Rehmii** Sacc. et Syd. *Valsaria pustulans* Rehm, Hedw. 2143 1895, p. (165) nec (Ell. et Ev.) Sacc. — Stromatibus gregariis, cortici sæpe seriatim immersis emergentibus et epidermide horizontaliter aut stellatim fissa emergentibus, hemisphæricis v. irregulariter globosis, fusco-nigris, apice demum papillulis exiguis pertusis obsessis, 2-4 mm. diam.; peritheciis in quoque stromate 6-12, 1-vel 2-stichis, globosis; ascis fusiformibus, apice rotundatis, $130-170 \approx 25$, octosporis; sporidiis oblongis, obtusis, rectis, bicellularibus, quaque cellula nucleo oleoso magno instructis, medio haud constrictis, primitus hyalinis, dein fuscis, demum subscabridis, utroque apice breviter late appendiculatis, $25-30 \approx 12$, distichis; paraphysibus tenerrimis, septatis, ca. 6μ . crassis, hyalinis.

Hab. ad truncos siccos *Aceris campestris* in montibus pr. Zürich Helvetiæ (v. TAVEL).

2. **Valsaria massarioides** Penz. et Sacc. *Malpighia* XI, 1897, p. 503. 2144

— Peritheciis hinc inde in acervulos subvalseos paucis congestis, subcorticalibus, dein erumpentibus, globosis, 0.5 mm. diam., nigris, ostiolis brevibus, cylindræis, subconvergentibus; linea nigra stromatica tortuosa infra acervulos per lignum excurrente; ascis cylindræis, brevissime stipitatis, paraphysatis, octosporis, apice obtusis, 150-180 × 20-24; sporidiis subdistichis, elliptico-oblongis, constricto didymis, loculo superiore lenissime crassiore, initio pallidis et fere granulosis, bi-nucleatis, dein fuliginæis, biguttatis, 30-43 × 12-14.

Hab. in ramis emortuis corticatis, Tjibodas ins. Java. — Ob perithecia laxè congesta ad *Massariellam* nutat et ubi sporidia mucò obvoluta essent, ad *Massariovalsam* pertineret; ergo anceps.

3. **Valsaria Xanthoxyli** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 280. 2145

— Stromatibus pulvinatis, 2-6 mm. diam., brunneo-nigris, subcarbonacæis; peritheciis minutis, ovato-oblongis, $1 \times \frac{1}{4}$ - $\frac{1}{3}$ mm., membranaceis, superficie corticis immutati insidentibus; ostiolis tuberculiformi-conicis, demum late perforatis vel umbilicatis; ascis cylindræis, p. sp. 75-80 × 8-10, paraphysibus copiosis obvallatis; sporidiis monostichis, ellipticis, uniseptato-constrictis, brunneis, 12-14 × 6-7.

Hab. in ramis *Xanthoxyli Clavæ-Herculis*, Louisiana Amer. bor. (LANGLOIS).

4. **Valsaria allantospora** Ell. et Ev. Syll. XI, p. 318. Huc ducenda est *V. coloradensis* Ell. et Ev. in Americ. Natur. 1897, p. 342.

Sect. 6. Phæophragmiæ.

MASSARIA De Not. — Syll. II, p. 2, IX, p. 759, XI, p. 319.

1. **Massaria Berberidis** Oud. Rév. des Champ. II, p. 285. — Peri- 2146

theciis sparsis, membranaceis, epidermide tectis, globoso-depressis, nigris, glabris, $\frac{1}{3}$ mm. diam., papillatis; ascis cylindræis v. fusiformibus, rectis v. curvulis, brevè stipitatis, apice rotundatis, basi contractis, octosporis, 55-60 × 9-10, paraphysibus filiformibus; sporidiis distichis, exactè cylindræis, non attenuatis, utrinque rotundatis, melleis, dein olivaceis, trilocularibus, 22-25 × $4\frac{1}{2}$ -5.

Hab. in ramis *Berberidis vulgaris*, socia *Massariella Rosa* in Hollandia (DESTREE).

2. **Massaria Magnoliæ** Ell. et Ev. Field Columb. Mus. IX, 1896, p. 141. 2147
 — Peritheciis sarsis, immersis, depresso-globosis; $\frac{3}{4}$ - $1\frac{1}{4}$ mm. diam., ostiolo subconico erumpente ornatis, ascis late oblongis, 150-200 \times 55-65, octosporis, stipite brevissimo, noduloso, paraphysatis; sporidiis dense distichis, ex hyalino brunneis, distincte 1-septatis, interdum 2-4-septatis, uno septo constricto, 65-80 \times 20-25.
Hab. in cortice Magnoliæ acuminatæ, W. Virginia Amer. bor.
3. **Massaria Sorbi** Hazsl. Math. es term. Közlem. XXV, 2, Budapest, 2148
 1892, p. 176, tab. XII, fig. 49 h. — Peritheciis hemisphæricis, emergentibus ex mycelio stromatiformi, fusco et perforantibus epidermidem denique secedentem, ostiolo punctiformi; ascis cylindricis; sporidiis monostichis, nigro-fuscis, oblongis v. oblongo-fusiformibus, quadrilocularibus, loculis mediis vix brevioribus, 60 \times 16-20.
Hab. in corticibus Sorbi Aucupariæ in Hungaria.

REBENTISCHIA Karst. — Syll. II, p. 12.

1. **Rebentischia ulmicola** Fautr. et Lamb. Rev. Mycol. 1897, p. 54. 2149
 — Peritheciis superficialibus membranaceis, collabascentibus, subglobosis, nigris nitentibusque; ascis clavato-elongatis; sporidiis oblique monostichis, fuliginosis, 4-septatis, 3-guttulatis, cauda hyalina donatis, 20-22 \times 8.
Hab. in cortice vetusto Ulmi campestris in Gallia.

LEPTOSPHERIA Ces. et De Not. — Syll. II, p. 13, IX, p. 762, XI, p. 321.

1. **Leptosphæria raphidophora** Hazsl. Math. es term. Közlem. XXV, 2150
 2, Budapest. 1892, p. 147, tab. IX, fig. 38. — Peritheciis gregariis, globosis, apice impressis, sed ostiolo clavato papilliformi; ascis cylindricis, basi clavatis, 66 \times 17, fasciculatim aggregatis; sporidiis fusiformibus, angustis, apicibus obtusis, 48 \times 4-5, novem septis transversalibus loculatis.
Hab. in scapo Anemones narcissifloræ in Carpatho centrali.
2. **Leptosphæria Arabidis** Allesch. Ber. Bayr. Bot. Ges. V, 1897; 2151
 p. 14. — Peritheciis sparsis, epidermide tectis, dein erumpentibus, nigris; ascis clavatis, octosporis; sporidiis fusiformibus; subcurvis, 3-5-septatis, guttulatis, 40-50 \times 4-5, flavis, dein fuscis.
Hab. in caulibus emortuis Arabidis alpinæ in Bavaria super.

3. *Leptosphaeria Chelidonii* Fautr. Rev. Mycol. 1895, p. 163. — Peritheciis sparsis, tectis, matricem nigrificantibus; ascis clavatis, 60-80 \times 8-10, paraphysatis; sporidiis acicularibus olivaceis, 3-septatis, rectis v. leniter curvulis, 25-30 \times 3-4.
Hab. in caulibus siccis *Chelidonii majoris* in Gallia.
4. *Leptosphaeria Vanhoeffeniana* Allesch. in Allescher et P. Hennings, 2153
 Pilze aus dem Umanakdistrikt. 1897. p. 8. — Peritheciis sparsis, epidermide tectis, dein erumpentibus, minutis, contextu parenchymatico, atro-olivaceo; ascis obovatis, deorsum in pedicellum brevissimum abruptum attenuatis, ca. 45-60 \times 10-12; sporidiis di-vel tristichis, cylindraceo-fusoideis, utrinque obtusiusculis, plerumque leniter curvulis, 3-septatis, olivaceo-viridibus, 25-30 \times 3-4.
Hab. in foliis emortuis *Melandryi* apetalii et *Saxifragae nivalis*, socia *Sphaerella sibirica* in Groenlandia (VANHOEFFEN).
5. *Leptosphaeria curta* Sacc. et Flag. Bull. Soc. Myc. de Fr. 1896, 2154
 p. 66 tab. V, fig. 8. — Peritheciis subcutaneis vix erumpentibus, hinc inde approximatis, $\frac{1}{4}$ mm. diam., subgriseis, globosis vix papillatis; ascis clavatis, breve crasse stipitatis, 50-60 \times 7-8, parca paraphysatis, 8-sporis; sporidiis distichis, fusoideis, rectis curvulisve, 3-septatis, ad septa praesertim medium constrictis, 15 \times 4, 4-guttatis, fuligineo-olivaceis.
Hab. in ramis emortuis *Rhois typhinae*, Rigny Galliae. — Videretur *L. Coniothyrium* ascis curtis sporidiisque distichis. A *Clypeosphaeria Hendersonia* recedit defectu maculae stromaticae, sporidiis pallidioribus.
6. *Leptosphaeria rhoia* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 131. 2155
 — Peritheciis gregariis, superficie ligni immersis, ea elevata tectis, globosis v. breviter ellipticis, 200-250 μ . diam.; ostiolo papilliformi, erumpente; ascis clavato-cylindraceis, 60-70 \times 8-10, breviter stipitatis, paraphysatis; sporidiis biseriatis, fusoideis, leniter curvulis, 3-5-septatis, ad septa constrictis, flavo-brunneis, 16-22 (plerumque 20) \times 5-6 $\frac{1}{2}$.
Hab. in ligno decorticato *Rhois glabrae*, Kansas Amer. bor. (BARTHOLOMEW).
7. *Leptosphaeria meridionalis* D. Sacc. Myc. ital. n. 302 (1898). — 2155
 Peritheciis gregariis, cortice innatis dein erumpentibus, prominulis, globosis, obtuse papillatis, 300 μ . diam., nigris; ascis cylindraceis, apice obtuse rotundatis, brevissime stipitatis, 190-200 \times 18-21, octo-sporis, filiformi-paraphveatis; sporidiis rectiuscule monostichis, ob-

longis, utrinque rotundatis, constricto-3-septatis, rectis, 4-nucleatis, olivaceo-fuligineis, $45 \approx 15$.

Hab. in ramulis Tamaricis gallicæ, Trinitapoli (Foggia) ubi leg. prof. HADR. FIORI. — Contextus peritheciis minute parenchymaticus, fuliginosus; sporidia initio hyalina intusque minutissime granulosa. A *Lept. agminali*, cui affinis, differt sporidiis utrinque obtusioribus, monostichis, saturatius coloratis, distincte guttullatis, paulo majoribus.

8. **Leptosphæria microspora** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2157 p. 461. — Peritheciis sparsis v. late gregariis, subcuticularibus, depresso-globosis, $150-250 \mu$. diam., subcollabentibus, ostiolo papilliformi ornatis; ascis clavato-cylindraceis, sessilibus, paraphysatis, $55-60 \approx 7-8$; sporidiis subdistichis, anguste ellipticis, 1-3-septatis, leniter constrictis, $10-12 \approx 3-3 \frac{1}{4}$.

Hab. in caulibus siccis Lespedezæ capitatae, Canada Amer. bor. (DEARNESS). — Ad *Didymospheriam* accedit.

9. **Leptosphæria monticola** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 461. 2158 — Peritheciis epidermide in pustulas elevata ostiolo papilliformi conico v. breve cylindraceo perforata tectis, $300-400 \mu$. diam., membranaceis, nigris; ascis oblongo-clavatis, plerumque curvulis, paraphysatis, 8-sporis; sporidiis fasciculatis, cylindrico-fusoideis, 5-7-septatis, vix constrictis, loculo secundo modice inflato, $45-55 \approx 7$.

Hab. in foliis et petiolis emortuis Trifolii Kingii, Colorado Amer. bor.

10. **Leptosphæria Phaseolorum** Ell. et Ev. Americ. Natur. 1897, p. 341. 2159 — Peritheciis sparsis, ovato-globosis, circiter $\frac{1}{4}$ mm. diam., epidermide elevata et ostiolo conico v. conico-cylindraceo perforata tectis; ascis clavato-cylindraceis, breve stipitatis, paraphysatis; sporidiis distichis, oblongo-fusoideis, subobtusis, leniter curvulis v. subinaequilateralibus, 3-5-septatis, ad septa constrictis, fuscescentibus, $16-22 \approx 5-6$.

Hab. in caulibus siccis Phaseoli vulgaris pr. Newfield Amer. bor.

11. **Leptosphæria ternata** Hazsl. Math. es term. Közlem. XXV, 2, 2169 Budapest, 1892, p. 150, tab. IX, fig. 39. — Peritheciis globosis, sub epidermide nidulantibus, solummodo apice epidermidem perforantibus; ascis clavatis in stipitem brevem attenuatis, $100-120 \mu$. longis, 3- vel 6-sporis; sporidiis fusiformibus, 40μ . longis, utrinque obtusis, 6-ocularibus, fuscidulis, sed loculo tertio et quarto obscurioribus.

Hab. in ramis Piri Mali in Hungaria.

12. **Leptosphæria rimicola** (Otth) Sacc. Hedw. 1896, p. 29, *Clado-* 2161
sphæria (Erumpentes) *rimicola* Otth, Bern. Mittheil. 1870, p. 106.
— Peritheciis cortici leniter insculptis, subglobosis, nunc orbiculatim collectis, ostioliis convergentibus, nunc transversim oblongeque cæspitosis magisque revelatis; ascis clavato-cylindræis, octosporis; sporidiis oblongis, constricto-3-septatis, obtusis, fumoso-brunneis, distichis, 19-22 \times 5-7; paraphysibus filiformibus ascos æquantibus.

Hab. in ramis dejectis Pruni avium in Helvetia.

13. **Leptosphæria superficialis** Hazsl. Math. es term. Közlem. XXV, 2, 2162
Budapest. 1892, p. 146, t. IX, fig. 36. — Peritheciis gregariis ex epidermide atrata erumpenti-subsuperficialibus, conoideis, distincte papillatis, nigris; ascis oblongo-cylindræis, in stipitem brevem abrupte attenuatis; sporidiis fusiformibus 6-septatis, oblique monostichis vel subdistichis, 26 μ . longis, omnibus loculis 1-guttatis.

Hab. in caulibus *Potentillæ argenteæ* in Hungaria.

14. **Leptosphæria Montis-Bardi** Fautr. et Lamb. Rev. Mycol. 1896, 2163
p. 69, tab. CLIX, fig. 3. — Peritheciis cum eis *Heterosphæriæ Patellæ* mixtis; ascis clavatis, 100-110 \times 10-12; sporidiis luteis, fusoides, curvulis, 6-septatis, guttulatis, guttula tertia majore, rotundata, 45 \times 6-7.

Hab. in caulibus *Seseleos montani* in Gallia.

15. **Leptosphæria ettalensis** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 2164
p. 13. — Peritheciis tectis, dein erumpentibus, sparsis gregariisve, globoso-depressis, papillatis et pertusis, contextu parenchymatico, fusco-nigro, ad 200 μ . diam.; ascis cylindræo-clavatis, ad 100 μ . longis, octosporis; sporidiis distichis v. oblique monostichis, cylindræis, rectis, 6-septatis, cellula quarta (media) subincrassata, utrinque obtuso-rotundatis, flavido-brunneis, 18-24 \times 4-5.

Hab. in caulibus emortuis *Laserpitii latifolii* in declivibus viæ ettalensis Baviaræ super.

16. **Leptosphæria valesiaca** Wegelin, Mitth. d. Thurgau. Naturf. Ges. 2165
XII, 1896, p. 6 extr. tab. II, fig. 4-5. — Peritheciis sparsis, sæpe aggregatis, epidermide tectis, erumpentibus, demum superficialibus, hemisphæricis, papillula vix prominula, carbonaceis, opacis, 400-500 μ . diam.; ascis cylindræis, subsessilibus, 8-sporis, 125-136 \times 10-12, paraphysibus numerosis ramosis obvallatis; sporidiis ellipticis v. ovoideis, utrinque rotundatis, 4-cellularibus, loculo secundo majore, ad septa (ad medium maxime) constrictis, aureo-brunneis, 16-23 \times 8-10.

Hab. in caulibus siccis Artemisiae campestris, Helvetia.

17. *Leptosphaeria rothomagensis* Sacc. — Syll. II, p. 17. — Var. *Artemisiae* Pat. Enum. Champ. Tunisie, 1892, p. 13. — Peritheciis minutis, $\frac{1}{4}$ mm. diam., sparsis, subepidermicis, globosis; ostiolo conico, erumpente; ascis apice obtusis, basi in stipitem elongatum attenuatis, 120-150 \times 15-20; paraphysibus linearibus, ascos aequantibus; sporidiis distichis, 3-septatis, cylindraceis, oblongis, utrinque obtusis, ad septa constrictis, luteo-brunneis, rectis curvulisve, 28-30 \times 10-12.

Hab. in caulibus emortuis Artemisiae Herbæ-albæ, Tunisia. — A typo differt præcipue sporidiis majoribus.

18. *Leptosphaeria Galii* (Oth.) Sacc. Hedw. 1896, p. 29, *Pleospora Galii* Oth. Bern. Mittheil. 1868, p. 56. — Peritheciis minutis, globoso-subdepressis, epidermide pustulata tectis, ostiolo minuto conico erumpente, tandem iisdem peritheciis emergentibus; ascis cylindricis, deorsum breviter attenuatis, octosporis; sporidiis monostichis, oblongis, obtusissimis, 4-locularibus, ex olivaceo brunnescentibus, loculis externis pallidioribus, 14 \times 5, paraphysibus tenerimis parum distinctis.

Hab. in caulibus Galii Molluginis, Bern Helvetiæ. — Pyrenidium adest, sistens *Phoma* sporulis fuscoides, hyalinis

19. *Leptosphaeria Menthæ* Fautr. et Lamb. Rev. Mycol. 1895, p. 169. — Peritheciis grossis, eis *Pleospora herbarum* similibus; ascis cylindraceis, basin versus attenuatis, 80-100 \times 10; sporidiis olivaceis v. luteis, elongatis, 28-30 \times 4-5, 6-7-septatis, medio constrictis ibique saepe uno loculo sphaerico munitis.

Hab. in caulibus siccis Menthæ silvestris in Gallia.

20. *Leptosphaeria Fiumana* Hazsl. Math. es term. Közlem. XXV, 2, Budapest, 1892, p. 143, tab. VIII, fig. 35. — Peritheciis globosis, peristomio spectabili ovato instructis et ascis oblongo-clavatis, breviter stipitatis paraphysibusque filiformibus longis farctis; sporidiis utrinque rotundatis, rectis v. curvatis, cylindricis, fusiformibus v. clavatis, primum sporidiolis 4 instructis, demum triseptatis, fuscidulis, 30-34 μ . longis; sporidiolorum crassitie secundum latitudinem loculorum variante.

Hab. in caulibus Labiatae cujusdam pr. Fiume Hungariæ.

21. *Leptosphaeria concinna* Ell. et Ev. Proc. Acad. Philad. 1895, p. 423. — Peritheciis sparsis, subcuticularibus, subgloosis, 200-300 μ . diam., demum semimergentibus, sed plus minusve cuticula nigro-facta tectis, ostiolo papilliformi; ascis clavato-cylindraceis, 70-80

7-10, paraphysatis, breve stipitatis; sporidiis sursum in asco distichis, fusoides, pallide luteis, 5-septatis, leniter curvulis, 1 v. 2 cellulis medio leviter tumidis, 20-27 \approx 3-4.

Hab. in caulibus emortuis Castilleiae miniatae, Colorado, Amer. bor.

22. **Leptosphaeria lethalis** Ell. et Ev. Proc. Acad. Philad. 1895, p. 423. 2171

— Peritheciis erumpenti-superficialibus, gregariis, subglobosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolo papilliformi ornatis; ascis clavato-cylindraceis, 50-60 \approx 7-8, octosporis; paraphysibus numerosissimis; sporidiis fusoides, leniter curvulis, 3-septatis, medio lenissime constrictis, 50-60 \approx 3 $\frac{1}{2}$ -4.

Hab. in caulibus emortuis Pentastemonis conferti, Idaho, Amer. bor. (PIPER).

23. **Leptosphaeria primulara** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 2172

p. 14. — Peritheciis gregariis sparsisve, epidermide tectis, dein erumpentibus, globoso-depressis, papillatis, contextu parenchymatico, atro, circiter 120-150 μ . diam.; ascis cylindraceo-clavatis, breve stipitatis, octosporis, 80-100 \approx 8-10; sporidiis distichis, fusiformibus; leniter curvatis, utrinque obtusis, 4-septatis, loculo penultimo incrassato, circiter 25-35 \approx 4-4 $\frac{1}{2}$, olivaceis.

Hab. in caulibus exsiccatis Primulae elatioris in Franconia super. bavar. (ROHNFELDER). — A. L. *primulaecola* (Wirt.) Sacc. certe diversa.

24. **Leptosphaeria Wegeliniana** Sacc. et Syd. *Leptosphaeria Rumicis* 2173

Wegel. Mitth. d. Thurgau. Naturf. Ges. XII, 1896, p. 8 extr. tab. II, fig. 8-9, nec Fautr. — Peritheciis sparsis, epidermide tectis, dein erumpentibus, globoso-vel depresso-globoso-papillatis, nigris, $\frac{1}{4}$ mm. diam.; ascis clavatis, brevissime stipitatis, 8-sporis, 125-140 \approx 20-21, paraphysibus numerosis gracilibus filiformibus obvallatis; sporidiis oblique distichis, clavato-fusiformibus, plerumque curvulis, utrinque attenuato-rotundatis, 11-13-cellularibus, quaque cellula 1-guttulata, cellula quarta v. quinta maxima, ad omnia septa constrictis, in asco luteis, solitariis castaneis, 40-52 \approx 8-10.

Hab. in caulibus siccis Rumicis, Helvetia.

25. **Leptosphaeria massariella** Sacc. et Speg.-Syll. II, p. 30. — Var. 2174

disticha D. Sacc. Malp. 1898, p. 208, tab. VII, fig. 5. — Peritheciis globulosis, subcutaneis, intus albis, ostiolo obtuso saepe ruguloso; ascis tereti-fusoides, 130-150 \approx 12-14, filiformi-paraphysatis, octosporis; sporidiis distichis, oblongis, plerumque inaequilateralibus,

basi acutangulis, 3-septatis, medio-constrictis. 20-22 \times 8-9, olivaceis, minute guttulatis.

Hab. in ramis emortuis Mori albæ, Vittorio (Treviso) Ital. bor. — A typo differt sporidiis distichis, minus obtusis, peritheciis (initio?) intus albis.

26. **Leptosphæria Piperis** P. Henn. Pilz. Ostaftr. p. 33. — Peritheciis ²¹⁷⁵ epiphyllis in maculis pallescentibus v. fuscescentibus, circulariter dispositis, gregariis, hemisphæricis, punctiformibus, atris, levibus, subnitentibus, circit. 0,1-0,1 $\frac{1}{2}$ mm. diam.; ascis subcylindræo-clavatis, obtusis, 8-sporis, 60-75 \times 17-20, paraphysatis; sporidiis cylindræo-clavatis v. subfusoides, 3-septatis, e subhyalino fuscescentibus, 32-42 \times 6-8.

Hab. in foliis Piperis capensis in Africa trop. (VOLKENS).

27. **Leptosphæria juniperina** Hazsl. Math. es term. Közlem. XXV, ²¹⁷⁶ 2. Budapest, 1892, p. 150. — Peritheciis hemisphæricis, emergentibus, ostiolo papilliformi instructis; ascis clavatis; sporidiis distichis, oblongo-fusiformibus, fuscescentibus, ad medium septum constrictis, symmetricè divisis, 4-guttulis æqualibus, monostichis instructis, 24-26 \times 7-8.

Hab. in foliis aggregatis Juniperi nani in alpe Retylzat Hungariæ.

28. **Leptosphæria iridigena** Fautr. Rev. Mycol. 1895, pag. 168, ²¹⁷⁷ tab. CLVII, fig. 3. — Peritheciis sparsis, globulosis, subepidermicis, pertusis; ascis amplis, rosulatis, inæqualiter tumidis v. paulum reniformibus, brevissime stipitatis, 80-90 \times 15-19; sporidiis bacillaribus, luteis, 5-septatis, rectis, non constrictis nec guttulatis, 40-45 \times 5-6.

Hab. in foliis siccis Iridis Pseudacori in Gallia.

29. **Leptosphæria iridicola** Lamb. et Fautr. Rev. Mycol. 1895, p. 168, ²¹⁷⁸ tab. CLVII, fig. 4. — Peritheciis minutis, circiter $\frac{1}{3}$ mm., tectis, dein prominentibus, rotundatis, pertusis; ascis clavatis, curvulis, 80-85 \times 12-14; sporidiis cumulatis v. subdistichis, cylindræis, obtusis, rectis, luteis, 4-septatis, guttulatis, 23-24 \times 5-6.

Hab. in foliis gelu tactis Iridis fœtidissimæ in Gallia.

30. **Leptosphæria densa** Bres. Hedw. 1896, p. 199. — Maculis nullis; ²¹⁷⁹ peritheciis dense gregariis, punctiformibus, globoso-lenticularibus, 100-120 μ ., ex hyphis mycelialibus, luteis, 3 μ . latis oriundis; ascis cylindræo-subclavatis, 70-75 \times 12-15; sporidiis flavis, conglomeratis, 7-septatis, loculo tertio crassiore, ad septa media subconstrictis, 34-36 \times 4-5.

Hab. ad folia Acori Calami pr. Königstein Saxoniae (KRIEGER).

31. **Leptosphæria Briosiana** Pollacci, Atti Ist. bot. Favina, 2 ser. V, 2180
1896, p. 8 extr. tab. III, fig. 4, 10, 11, 15. — Peritheciis maculicolis, globulosis, tectis, seriatim dispositis, $125 \times 80 \mu$., nigris, ostiolo brevi; ascis paraphysatis, cylindraco-clavatis, breve stiptatis, 63μ . longis; sporidiis fusoidis, obtusiusculis, $15-18 \times 6-8$, typice 5-6-septatis, non vel vix constrictis, loculo medio crassiore, olivaceo-fuscis.

Hab. in foliis vivis Jubææ spectabilis in hort. bot. Genuæ Italiæ bor.

32. **Leptosphæria crastophila** Sacc.—Syll. II, p. 61. — Forma **Tofieldiæ** Sacc. Malpighia XI, 1897, p. 51. — Ascis $50 \times 15-16$; sporidiis 15×5 , olivaceis, 3-septatis, non constrictis.

Hab. in caulibus foliisque Tofieldiæ calyculatæ in Italia.

33. **Leptosphæria consociata** Rehm, Hedw. 1896, p. (149). — Peritheciis pagina superiore foliorum flavide maculata immersis, dein papilla brevissima prorumpentibus, globosis, singularibus v. binis rarissime trinis consociatis, nigris, glabris, $\frac{1}{3}$ mm. latis; ascis ellipticis, sessilibus, $90-100 \times 21$, octosporis; sporidiis fusiformibus, rectis v. subcurvatis, dilute flavidulis, 6-cellularibus, ad septa non constrictis, $30-36 \times 6-7$, distichis; paraphysibus filiformibus hyalinis, 3μ . latis; perithecio molli, viridi-fusco, parenchymatico.

Hab. ad folia Chusqueæ pr. San Jorge, prov. Pichincha Æquatoriæ (LAGERHEIM).

34. **Leptosphæria stellata** Pat. Bull. Soc. Myc. de Fr. 1895, p. 225. 2183
— Peritheciis sparsis, atris, majoribus, 1 mm. altis, conicis, glabris, crasse tunicatis, durissimis, contextu indistincto; ascis cylindracois, apice obtusis, $230-250 \times 12-18$, octosporis, filiformi-paraphysatis; sporidiis subdistichis, longe fusiformibus, utrinque acutis, transverse 5-septatis, melleo-fuligineis, $70-75 \times 10$.

Hab. in truncis emortuis Chusqueæ in Æquatoria (v. LAGERHEIM).

35. **Leptosphæria tucumanensis** Speg. Rev. Agr. y Veter. La Plata, 2184
1896, p. 232. — Maculis nullis; peritheciis laxissime gregariis v. subsparis, epidermide tectis eaque arcte adnatis, prominulis, parvis, $120-150 \mu$. diam., lenticulari-convexis, ostiolo minuto papillato epidermidem perforante non v. vix exserto donatis, coriaceis, nigris, contextu atro indistincto; ascis cylindracois v. subclavatis, apice obtuse rotundatis, basi modice attenuatis abrupte minuteque pedicellatis, 60×8 , octosporis, aparaphysatis (?); sporidiis suboblique

distichis, fusoideis, 18-20 \times 3-4, utrinque obtusiuscule acutatis, 6-vel sæpius 7-septatis, loculis secundo tertioque superis leniter incrassatis, ad septa constrictis, rectis v. vix curvulis, chlorinis.

Hab. in culmis ægrotantibus adhuc vivis Sacchari officinarum pr. S. Pablo, Argentina.

36. **Leptosphaeria Spogazzinii** Sacc. et Syd. *Leptosphaeria Sacchari* 2185

Speg. Rev. Agr. y Veter. La Plata 1896, p. 232, nec v. Breda. — Maculis nullis vel matrice vix pallescente; peritheciis amphigenis v. sæpius hypophyllis, sparsis v. laxe gregariis, sæpius subseriatis, globulosis, minimis, 120-140 μ . diam., parenchymate immergis, ostiolo latiusculo 30 μ . diam.; vix papillato atque peridermium perforante donatis, glabris, membranaceo-coriacellis, contextu parenchymatico pellucido fuligineo; ascis cylindraceutis, 70-80 \times 9-10, antice obtuse rotundatis crassiusculeque tunicatis, postice brevissime cuneato-pedicellatis, octosporis, paraphysibus quandoque nullis, quandoque numerosis obvallatis; sporidiis oblique distichis fusoideis rectis v. leniter inæquilateralibus, 25 \times 5-6, utrinque acutis, 3-septatis, ad septa constrictulis, pallide olivaceis, loculis centralibus sæpius minute biguttulatis.

Hab. in vaginis foliisque languidis v. arescentibus Sacchari officinarum prov. Tucuman, Argentina.

37. **Leptosphaeria Elymi** Atk. Bull. Cornell Univ. III, n. 1. 1897, p. 7. 2186

— Peritheciis gregariis v. laxe aggregatis, paucis, tectis, applanatis, ostiolo brevissimo erumpente ornatis, minutis, 70-100 μ .; ascis cylindraceuto-oblongis, breve stipitatis, 35-50 \times 10-14, paraphysibus filiformibus obvallatis; sporidiis confertis, bi-vel tristichis, melleis, fusoideo-inæquilateralibus, 5-septatis, 18-24 \times 3-3 $\frac{1}{2}$.

Hab. in foliis Elymi, Auburn, Alabama Amer. bor.

38. **Leptosphaeria Baldingeræ** Fautr. et Lamb. Rev. Mycol. 1897, 2187

p. 53. — Peritheciis gregariis, majusculis, nigris, rugulosis, basi hyphis brunneis vestitis; ascis late clavatis, subsessilibus, brevissime stipitatis, 100-110 \times 15-18; paraphysibus filiformibus ascos superantibus; sporidiis oblique dispositis, fusoideis, curvatis, fuliginosis, 8-10-septatis, ad septa constrictis, loculis ocellatis, loculo medio incrassato, 40-45 \times 10-12.

Hab. in vaginis Baldingeræ arundinaceæ in Gallia.

38. **Leptosphaeria Arrhonatheri** Hazsl. Math. es term. Közlem. XXV, 2188

2, Budapest 1892, p. 132. — Peritheciis sub epidermide nidulantibus, globosis, glabris, nitidis, nigris, membranaceis; membrana elastica ex cellulis cubicis verticaliter et horizontaliter seriatim

junctis constructa; paraphysibus filiformibus; ascis cylindricis, breviter stipitatis, 8-sporis, 80-100 \approx 8-10; sporidiis distichis fusiformibus, fuscis, quadrilocularibus, 24-26 \approx 4-6.

Hab. in culmis *Arrhenatheri avenacei* in Hungaria.

39. *Leptosphæria Bambusæ* Roll. Bull. Soc. Myc. de Fr. 1896, p. 4. 2189
t. 1, f. 11. — Peritheciis gregariis, nigris, rostro sat crasso præditis, rotundis, erumpentibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis; ascis clavato-cylindricis, breviter stipitatis, 80-90 \approx 10-15; sporidiis melleis, subdistichis, fusiformibus, 5-septatis, ad septa constrictis, rectis vel curvis, loculis sæpe guttatis, 20-25 \approx 5; paraphysibus numerosis, filiformibus.

Hab. ad corticem *Bambusæ*, Golfe Juan Galliæ.

40. *Leptosphæria stromatoidea* Hazsl. Math. es term. Közlem. XXV, 2190
2, Budapest 1892, p. 135. — Peritheciis ex maculis epidermidis cinereis gregatim emergentibus, sæpissime in series approximatis, et mycelio intertexto junctis, in formam stromatis linearis per epidermidem ruptam emeritis; ascis angustis, fusiformibus, plerumque breviter stipitatis, paraphysibus simplicibus ascos superantibus obvallatis; sporidiis cylindrico-fusiformibus, utrinque acutis, fuscis, 18-20 \approx 2-2 $\frac{1}{2}$.

Hab. in culmis *Festucæ* spec. in Hungaria.

41. *Leptosphæria lichenicola* Zopf, Nov. Act. LXX, 1897, p. 160, 2191
Hedw. 1896, p. 358. — Peritheciis numerosis, minutissimis, punctiformibus, immersis, globosis, ellipsoideis v. breviter ovoideis; ascis cylindracois, vix clavatis, breve stipitatis, vertice late rotundatis, 52-70 \approx 10 $\frac{1}{2}$ -14, 6-8-sporis; sporidiis anguste clavatis v. fusiformibus, hyalinis, utrinque rotundatis, 5-7 locularibus, ad septa constrictis, strato mucoso obvolutis, plerumque guttulatis, 20-24 \approx 5 $\frac{1}{2}$ -6; paraphysibus paucis, irregulariter ramosis.

Hab. in thallo et apotheciis *Solorinæ crocæ* in Tirolia.

42. *Leptosphæria Richoni* Sacc. et Syd. — Ita vocanda *L. Stellarie* Rich. (1889), Syll. IX, p. 769, extante *L. Stellarie* Rostr. (1888), Syll. IX, p. 783.

POCOSPHERIA Sacc. — Syll. II, p. 32 (ut subgenus), Berl. Ic. fung. I, p. 89, XI, p. 325.

1. *Pocosphæria Chusqueæ* Pat. Bull. Soc. Myc. de Fr. 1895, p. 224. — Ita vocanda *Protoventuria Chusqueæ* Pat. Sacc. Syll. XI, p. 315, nam sporidia matura sunt 9-septata.

CLYPEOSPHÆRIA Fuck. — Syll. II, p. 90, IX, p. 798, XI, p. 326.

1. **Clypeosphæria euphorbiicola** P. Henn. Pilz. Ostaf. p. 32. — 2192
Peritheciis sparsis, sub epidermide nidulantibus, dein subsuperficialibus, carbonaceis, atris, dein pertusis. circiter 1 mm.; ascis cylindraceo-clavatis, 8-sporis, 200-260 × 20-26; paraphysibus filiformibus; sporidiis monostichis, oblongis, 3-septatis, septis non constrictis, grosse 1-guttulatis, fusco-brunneis, apice obtusis v. subpapillato-rotundatis, 30-40 × 16-23.

Hab. in cortice Euphorbiacearum in Africa trop. (VOLKENS).

CHÆTOSPHÆRIA Tul. — Syll. II, p. 92, IX, p. 799, XI, p. 326.

1. **Chætosphæria pusilla** Penz. et Sacc. Malpighia XI, 1897, p. 400. 2193
— Peritheciis subgregariis, superficialibus, minutis, nigris, globosis, vix papillatis, 0,2 mm. diam., setulosis; setulis filiformibus, subflexuosis, septatis, fuligineis, 150-160 × 5-6; ascis (jam resorptis; sporidiis distichis, fusoideis, subinde clavulatis, 5-septatis, ad septum medium lenissime constrictis, 15-16 × 3, ex hyalino stramineis, rectis curvulisve.

Hab. in superficie atrata ligni putridi in horto bot. Bogoriensi, Java, socia *Helminthosporii* specie, statum ejus conidiophorum forte sistente, conidiis clavatis, sub-7-septatis, 35-45 × 10-12, fuligineis, hyphis setulas *Chætosphæriæ* imitantibus.

2. **Chætosphæria latitans** Sacc. Malpighia XI, 1897, p. 289. — 2194
Subiculo late effuso, breviter velutino nigro, e setulis simplicibus crebris formato; peritheciis minutissimis, aterrimis, globulosis, in subiculo parce sparsis, 100-120 μ. diam., sursum calvis, deorsum setulis fuligineis septatis, 4-5 μ. crassis vestitis; ostiolo minutissimo; paraphysibus non visis; sporidiis oblongo-fusoideis, curvulis, 3-septatis, non v. vix constrictis, dilute fuligineis, guttulatis, 15-16 × 5.

Hab. in cortice Fagi silvaticæ, Valsesia in Italia (CARESTIA).

3. **Chætosphæria brevispinosa** Atk. Bull. Cornell Univ. III, n. 1, 2195
1897, p. 6. — Peritheciis numerosis, sparsis v. gregariis, mycelio effuso tenui crustaceo, atro-brunneo, ex hyphis brunneis septatis non setosis composito insidentibus v. involutis, crustaceis, nigris, ovatis v. piriformibus, 100-120 μ. diam., deorsum setis brevibus septatis nigris, 20-35 × 5-7 metientibus tectis, apice levibus; ascis minutis, clavatis, 20-25 × 10-15 p. spor.; sporidiis confertis, inæquilateralibus, ellipticis v. clavatis, 3-septatis, ad septa constrictis, 10-14 × 3-4.

Hab. in vaginis foliorum *Arundinariæ tectæ*, Auburn, Alabama Amer. bor.

4. **Chætosphæria Silva-nigra** Penz. et Sacc. *Malpighia* XI, 1897, 2196 p. 400. — Subiculo late effuso, dense velutino, fuligineo-nigro; hyphis intricatis, adscendentibus, repetito vage ramosis, 5 μ . crassis, aterrimis, obscure septatis, ramulis ultimis brevibus, curvulis, patulis; peritheciis interseminatis, villo omnino absconditis, raro tandem subnudatis, globosis, 200-250 μ . diam., in ostiolum tereticonicum, 80-100 μ . long. attenuatis; ascis fusoides, apicè obtusis, subsessilibus, 45-55 \times 9-10, apapophysatis (?), 8-sporis; sporidiis distichis, fusoides, rectiusculis, 18 \times 4, utrinque acutiusculis, 3-septatis, non constrictis, subhyalinis, acervatis stramineis.

Hab. intra et extra culmos emortuos *Bambusæ*, Java.

MELANOMMA Nits. et Fuck. — Syll. II, p. 98, IX, p. 801, XI, p. 327.

1. **Melanomma Pulvis-pyrius** (Pers.) Fckl.-Sacc. Syll. II, p. 98. — 2197 f. *Ulmi* Lamb. Rev. Mycol. 1897, p. 54. — Peritheciis superficialibus, ovoideis, papillatis; ascis late clavatis; sporidiis cumulatis v. subdistichis, olivaceis, transverse 3-7-septatis, in longitudine uniseptatis, ovalibus, 19-22 \times 6-8.

Hab. in cortice emortuo *Ulmi* in Gallia.

2. **Melanomma subcongruum** Ell. et Ev. Proc. Acad. Philad. 1895, 2198 p. 417. — Peritheciis gregariis v. erumpenti-superficialibus basi plus minusve cortice immersis, ovatis, intus schistaceis atque muriculato-asperis, $\frac{1}{2}$ - $\frac{3}{4}$ interdum etiam 1 mm. diam., ostiolo conico perforato nigro nitenteque donatis; ascis clavato-cylindræis, 150-190 \times 12-14, p. spor. 114-120 μ . longa, octosporis, paraphysibus numerosis filiformibus obvallatis; sporidiis oblique monostichis, oblongis, deorsum paululum attenuatis, obtusis, leniter curvulis, 3-5-septatis, ad septa leniter constrictis, pallide brunneis.

Hab. in cortice *Populi moniliferæ*, Kansas Amer. bor. (BARTHOLOMEW). — *M. medio* et *juniperino* affine, sed differt peritheciis nullo majoribus, ascis longioribus et sporidiis 3-5-septatis.

3. **Melanommaccupulatum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 128. 2199 — Peritheciis sparsis v. gregariis superficialibus, brunneo-nigris, membranaceis, pilis brevibus, 20-40 \times 2 metientibus, continuis, subundulatis, brunneis vestitis, tandem supra collabascentibus ideoque cupulatis, ostiolo papilliformi donatis, sæpe subiculo tomentoso olivaceo-nigro ex hyphis ramosis brunneis septatissimis formato insidentibus; ascis clavato-cylindræis, 45-60 \times 8; paraphysibus in-

distinctis; sporidiis distichis, oblongo-fusoideis, pallide brunneis, 3-septatis, non constrictis, $10-12 \times 3\frac{1}{2}-4$.

Hab. in ligno decorticato Salicis, Washington Amer. bor. (SUKSOORF). — *M. pilosello* valde affine.

4. **Melanomma conicum** P. Henn. Hedw. 1897, p. 229. — Peritheciis 2200
sparsis vel subaggregatis, ligno erumpentibus, dein superficialibus, conicis, acute papillatis, carbonaceo-nigris, opacis, subrugulosis, ca. 1 cm. diametro, intus pallidis; ascis clavatis, 8-sporis, apice obtuso-rotundatis; sporidiis oblique distichis, fusiformibus, rectis vel subcurvulis, utrinque acutiusculis, 3-5-septatis, septo medio constrictis, pluriguttulatis, fuscis vel atrofuscis, $35-50 \times 10-11$.

Hab. in ligno decorticato pr. Blumenau Brasilie (MOELLER).

5. **Melanomma exile** (Schw.) Ellis, Proc. Acad. Philad. 1895, p. 22. — 2201
Peritheciis sparsis, erumpenti-superficialibus, nigris, minutis, $120-150 \mu$. diam, demum leviter collapsis, ostiolo conico-papilliformi; asonibem visis; sporidiis numerosis, oblongo-ellipticis, $13-16 \times 5-6$, 3 septatis brunneis, interdum in longitudine 1 vel 2-septatis; subiculo arachnoideo, albido.

Hab. ad truncos in America bor.

6. **Melanomma boreale** Ell. et Ev. Proc. Acad. Philad. 1895, p. 416. 2202
— Peritheciis erumpenti-superficialibus; gregariis, ovatis, circiter $\frac{1}{3}$ mm. diam., subcarbonaceis, interdum collabentibus; ostioliis primo inconspicuis, dein conico-cylindraceutis, truncatis; ascis clavatis, cylindraceutis, breve stipitatis, paraphysatis, octosporis, p. sp. $50-55 \times 4-5$; sporidiis oblique monostichis v. sursum subdistichis, oblongis, obtusis, 3-septatis, ad septa leniter constrictis, interdum lenissime curvulis, pallide olivaceis, $9-11 \times 3-3\frac{1}{2}$.

Hab. in ligno aeri exposito, Newfoundland, Amer. bor. (WAGHORNE).

7. **Melanomma nigricans** Ell. et Ev. Proc. Acad. Philad. 1895, p. 417. 2203
— Peritheciis confertissimis v. crustaceo-congestis, superficiem ligni nigrificantibus, minutis, $150-200 \mu$., subglobosis, subglabris, ostiolo papilliformi; ascis clavato-cylindraceutis, breve stipitatis, paraphysatis, p. sp. 55×12 ; sporidiis distichis, oblongo-fusoideis, leniter curvulis, obtusis, plerumque paululum angustatis, ex hyalino pallide brunneis, 3-septatis, $14-17 \times 4\frac{1}{2}-5\frac{1}{2}$.

Hab. in ligno putrido, Ohio, Amer. bor. (MORGAN).

8. **Melanomma mammiforme** Pat. Journ. de Bot. 1897, p. 368. — Pe- 2204
ritheciis laxè gregariis, erumpentibus, basi tantum cortice infossis, 1 mm. fere latis, conicis v. mammiformibus, ostiolo obtuso prædi-

tis, nigris, duris; ascis?; sporidiis brunneis, rectis v. leniter curvulis, elongato-fusoideis, utrinque acutatis, transverse septatis, vix ad septa constrictis, 40-50 × 10-13.

Hab. ad cortices in Tonkin.

9. **Melanomma Trochus** Penz. et Sacc. *Malpighia* XI, 1897, p. 401. 2205

— Peritheciis subsparsis, basi insculpta appplanata subsuperficialibus, sed lacinulis matricis cinctis, eximie tornato-conoideis, levibus 0,7-1 mm. diam., nigris, carbonaceis, parte basilarî tenuiori, ostiolo sæpe acutissimo; ascis cylindraceutis, apice rotundatis, paraphysatis, 8-sporis, 150-170 × 22; sporidiis distichis, anguste fusoides, utrinque acutis, curvulis, 50-60 × 6 1/2-8, 5-septatis, non constrictis, atro-fuligineis, utrinque paullo pallidioribus.

Hab. in culmis emortuis *Bambusæ*, Java. — Ab affini *M. tornato* mox distinguitur sporidiis quinquesepatis longioribus et forte peritheciis magis infossis.

10. **Melanomma Penzigi** Sacc. et Syd. *Melanomma leptosphærioides* 2206

Penz. et Sacc. *Malpighia* XI, 1897, p. 401, nec Pass. — Peritheciis in matrice atrata laxè gregariis, basi insculpta appplanata, acute conoideis, minutis, 0,5 mm. latis, nigris, glabris, carbonaceis; ascis cylindraceutis, apice rotundatis, breviter stipitatis, 140-150 × 7-9; paraphysibus filiformibus; sporidiis distichis v. oblique monostichis, fusoides, rectis curvulisve, 3-septatis, ad septa leniter constrictis, utrinque acutulis, 28-30 × 6, fuligineis.

Hab. in rhachidibus putridis *Palmarum* in horto bot. Bogoriensi, Java. — Affine *Leptosphaerice arundinaceæ* et *L. donacinae*, sed perithecia superficialia, eminentia.

TREMATOSPHERIA Fuck. — Syll. II, p. 115, IX, p. 811. XI, p. 329.

1. **Trematosphaeria Schweinitzii** Ell. et Ev. Proc. Acad. Philad. 1895, 2207

p. 25. — Peritheciis gregariis, semiemergentibus v. erumpentibus superficialibus, 1/4-1/2 mm. diam., ovato-conicis, gradatim in ostiolum conicum breve cylindraceutum attenuatis, vel erumpentibus depresso-globosis et ostiolo tuberculato-papilliformi, asperulis, brunneo-nigris; ascis cylindraceutis, stipitatis, paraphysatis, p. sp. circiter 90 × 8-10; sporidiis excedentibus, monostichis, fusoides, brunneis, 3-septatis, medio constrictis; cellulis extimis punctato-obtusis et pallidioribus, 19-22 × 5-6.

Hab. in ramis emortuis *Rubi* spec., Bethlehem, Amer. bor.

2. **Trematosphaeria demersa** (Oth) Sacc. Hedw. 1896, p. XXX, *Cladospheeria* Oth, Bern. Mittheil. 1870, p. 108. — Peritheciis spar-

sis, majusculis, subglobosis, cortice sæpius usquæ ad lignum immersis, cortice punctulato nigricantè tectis, ostiolo atro subconico truncatulo breviter exserto, apice pertuso; ascis clavatis, octosporis; sporidiis fusoideis, 5-septatis, brunneis, utrinque albidis, 6-guttatis 45×11 ; paraphysibus longis, teneris.

Hab. in ramis corticatis *Lonicerae Xylostei* in Helvetia.

3. **Trematosphæria elliptica** (Oth) Sacc. Hedw. 1896, p. XXX, *Xy-* 2209
losphæria elliptica Oth, Bern. Mittheil. 1868, p. 53. — Peritheciis sparsis e ligni fibris canescentibus emergentibus, atris, impolitissimis, basi applanatis, ellipticis, ostiolo umbilicato; ascis oblongis, utrinque obtusis, octosporis; sporidiis oblongis, obtusis, 4-ocularibus, ad septa sæpe inconspicua constrictis, 4-8-guttulatis, flavidis, demum dilute fuscidulis, $22-24 \times 7-8$; paraphysibus filiformibus.

Hab. in radicibus decorticatis *Abietis*, Weissenburg, Helvetia.

4. **Trematosphæria castanea** Hazsl. Math. es term. Közlem. XXV, 2210
2, Budapest 1892, p. 67, tab. III, fig. 13. — Peritheciis totaliter ligno immersis, globosis, parum applanatis, tantum ostiolo superficiem ligni perforantibus; ascis cylindricis mox evanidis; sporidiis uniseriatis, cylindricis, luteo-fuscis, demum castaneis, quadriocularibus, 12×3 .

Hab. in ligno putri in Hungaria.

5. **Trematosphæria caryospora** Hazsl. Math. es term. Közlem. XXV, 2211
2, Budapest, 1892, p. 71. — Peritheciis totaliter ligno immersis, ostiolo rotundo, emerso, superficiem ligni superante, nigris; ascis cylindricis longe pedicellatis, 3-8-sporis; sporidiis uniseriatis, fusiiformibus, apicibus rotundatis, 5-7-septatis et loculis mediis duobus fuscis, fere nigris, reliquis fuscescentibus, 40×8 .

Hab. in ligno putri in Hungaria.

6. **Trematosphæria astroidea** (Fr.) Ellis, Proc. Acad. Philad. 1895, 2212
p. 24, *Sphæria astroidea* Fr. in herb. Schweinitz. — Peritheciis gregariis, superficialibus, ovato-globosis, nigris, basi pilis paucis, brevibus, setiformibus obsitis, ostiolo minuto, acute conico; ascis non visis; sporidiis oblongo-fusoideis, 3-4-septatis, pallide brunneis, $12-15 \times 3-3\frac{1}{2}$.

Hab. in ligno putri, Bethlehem, Amer. bor.

7. **Trematosphæria confertula** (Schw.) Ellis, Proc. Acad. Philad. 1895, 2213
p. 25, *Sphæria confertula* Schw. Syn. N. Amer. n. 508. — Peritheciis confertissimis, subiculo brunneo, fibroso, globosis, circiter $\frac{1}{3}$ mm. diam., demum apice collabentibus et cupuliformibus, basi pilis erectis septatis setiformibus brunneis vestitis; ascis clavato-

cylindræcis, stipitatis, paraphysatis, octosporis, p. sp. 60-67 \approx 12: sporidiis distichis, oblongis, leniter curvulis, primo hyalinis, uni-septatis, dein brunneis et 3-septatis, sed non constrictis, 18-22 \approx 6-7.

Hab. in ligno putri, Bethlehem, Amer. bor.

8. **Trematosphæria killimandscharica** P. Henn. Pilz. Ostaf. p. 32. — 2214

Peritheciis sparsis v. gregariis, semiimmersis, griseo-brunneis, deinde superficialibus, carbonaceis, atris, ostioliis subpapillatis, dein pertusis, pallidis, ca. 1 mm. diam.; ascis clavatis v. oblongo-cylindræcis, 8-sporis, paraphysatis, 80-120 \approx 10-16; sporidiis distichis, subconglobatis v. submonostichis, oblongis, obtusis, primo 4-guttulatis, deinde 3-septatis, constrictis, flavo-fuscis, dein atro-fuscis, 16-30 \approx 10 v. 30 \approx 15.

Hab. in cortice arborum in Africa trop. (VOLKENS).

9. **Trematosphæria fraxinicola** Sacc. et Syd. Sic dicenda est *Trematosphæria Fraxini* Ell. et Ev. in Syll. XI, p. 329, quum exstet anterior *Trematosphæria Fraxini* Rich. in Syll. IX, p. 812.

SPORORMIA De Not. — Syll. II, p. 123, IX, p. 816, XI, p. 329.

1. **Sporormia subticinensis** Mout. Compt. rend. Bull. Soc. Roy. Bot. 2215

Belg. XXXVI, 1897, 2, part. p. 14. — Peritheciis in materia sordida grumoso-gelatinosa gregatim nidulantibus, atris, globosis, $\frac{1}{2}$ mm., coriæcis, ostiolo brevi latiusculo, discoideo; ascis clavatis, pedicellatis, 8-sporis, 130-145 \approx 21-22, p. s. circ. 115 μ . long.; paraphysibus numerosis, filiformibus; sporidiis 3-4-seriatis, cylindricis, apicibus obtusis, olivaceo-fuscis, 7-septatis, ad septa constrictis, articulis subcuboideis absque zona gelatinosa, 60-70 \approx 8-10, subinde curvulis.

Hab. supra lignum fimo inquinatum pr. Liège Belgii. — A *Sp. gigaspora* Fekl. statura minori, ascis clavatis, a *Sp. ticinensi* Pir. sporidiis longioribus, peritheciis globosis præcipue recedit.

2. **Sporormia intermedia** Awd. Sacc.-Syll. II, p. 126. — var. *lagopina* 2216

Bres. Malpighia XI. 1897, p. 52. — Ascis 140-160 \approx 16; sporidiis 36-42 \approx 8-9.

Hab. in fimo Tetraonis Lagopodis in Italia boreali.

PSEUDOVALSA Ces. et De Not. — Syll. II, p. 135, IX, p. 820, XI, p. 330.

1. **Pseudovalsa Coriariæ** F. Tassi, Atti d. R. Acad. dei Fisiocr. Siena 2217

4 ser. vol. VIII, 1897, p. 4, fig. 2. — Stromatibus innatis vetusto cortice, dein erumpenti-superficialibus, atris, 1-2 mm. longis, oblon-

gis; peritheciis in singulis stromatibus paucis, 1-3, immersis, sphæroideis, nigris, ostiolo prominulo; ascis 8-sporis, brevissime crasse pedicellatis, cylindraceis, apice rotundato-atenuatis, paraphysibus filiformibus, gracilibus obvallatis, 100-120 \times 6 $\frac{1}{2}$ -10; sporidiis recte v. oblique monostichis, oblongis, 12-16 \times 5-6, initio continuis, hyalinis v. lutescentibus, dein 1-septatis, inde 3-septatis, fuliginis.

Hab. in cortice *Coriariæ myrtifoliæ* in horto bot. Senensi, Italia bor.

2. **Pseudovalsa occulta** (Schw.) Ellis, *Proc. Acad. Philad.* 1895, p. 27; 2218
Sphæria occulta Schw. in herb. — Stromatibus corticalibus, orbicularibus, linea non cinctis, 2-3 mm. diam., convexis, epidermide ostiolis obscuris perforata tectis; peritheciis in quovis stromate 1-5, globosis, $\frac{3}{4}$ -1 mm. diam., basi ligno leniter immersis, disco minuto nigro orbiculari v. anguste elliptico præditis; ascis late clavato-cylindraceis, 180-210 \times 20-30 (stipite brevissimo incluso), octosporis, paraphysibus filiformibus parce ramosis vel sæpius simplicibus obvallatis; sporidiis distichis late fuscoide-oblongis, obtusis, 3-septatis, 45-65 \times 13-16, initio hyalinis tandem brunneolis.

Hab. in ramis corticatis in America bor. — Differt a *P. Malbrancheana* ascis octosporis sporidiisque triseptatis utrinque non hyalinis.

THYRIDARIA Sacc. — Syll. II, p. 140, IX, p. 321, XI, p. 331.

1. **Thyridaria rigniacensis** Sacc. et Flag. *Bull. Soc. Myc. de Fr.* 1896, 2219
 p. 66, tab. V, fig. 7. — Perithæciis hinc inde pluribus confertis, peridermio atrato tectis lignoque sæpe nigrificato impositis, globosis, atris, 0,5 mm. diam., ostiolo papillato erumpente; ascis clavatis, apice rotundatis, 90 \times 8-9 (parte sporif.), in stipitem 40-45 μ . longum attenuatis, filiformi-paraphysatis, 8-sporis; sporidiis oblongis, interdum clavulatis, utrinque obtusulis, 3-septatis, non v. leviter constrictis, 4-guttatis, olivaceis, 12-14 \times 4-5.

Hab. in ramis emortuis *Ulicis europæi*, Rigny Galliæ. — Affinis *Th. cutypoidi*, sed asci longissime stipitati etc.

KALMUSIA Niessl — Syll. II, p. 142, IX, p. 322, XI, 331.

1. **Kalmusia Hazslinszkyana** Sacc. et Syd. *Kalmusia Eutypa* Hazsl. 2220
Math. es term. Közlem. XXV, 2, Budapest 1892, p. 233, tab. XV, fig. 59, nec (Fr.) Sacc. — Stromate spurio extenso, nigro vel cinereo, ex strato supremo ligni et mycelio nigro formato, glabro; peritheciæ solummodo ostiolis semiglobosis emergentibus, nunc

spermatophoris spermata oblonga achroa ferentibus, nunc asco-
phoris; ascis cylindricis sessilibus vel breviter stipitatis, paraphy-
satis; sporidiis 24 μ . long., quadri-rarius trilocularibus.

Hab. in ligno Aceris Pseudoplatani in Hungaria. —
Habitus *Eutypæ Acharii*.

2. **Kalmusia schizostoma** Hazsl. Math. es term. Közlem. XXV, 2, 2221
Budapest 1892, p. 232, tab. XV, fig. 60. — Rostris perithecio-
rum crassis emergentibus e stromate hemisphærico; ostiolis pri-
mum fissis, denique patellæformibus; ascis fusiformibus breviter
stipitatis, apice rotundatis, 8-sporis; sporidiis distichis, 24-28 \times 6-7
quadriloculatis.

Hab. in truncis putridis Aceris in Hungaria. — Habitus *Eu-
typæ crustatæ*.

3. **Kalmusia Tranzscheliana** Jacz. Bull. Soc. Imp. des Natur. de Mo- 2222
scou, 1896, p. 73. — Stromate diatrypiformi, effuso, superficiem
nigrificante; peritheciis sparsis, globosis, ligni substantia immutata
immersis, ostiolo papilliformi, prominulo; ascis clavatis, stipitatis,
95-100 \times 11-12; paraphysibus numerosis, ascos superantibus; spo-
ridiis octonis, supra in asco distichis, basi monostichis, clavatis,
rectis v. curvulis, brunneo-olivaceis, 3-septatis, medio constrictis,
17-18 $\frac{1}{2}$ \times 5-6 $\frac{1}{4}$.

Hab. in ligno emertuo Populi Tremulæ, Smolensk Rossia.
— *K. Ebuli* affinis.

MELOGRAMMA Fr. emend. Tul. — Syll. II, p. 144, IX, p. 824,
XI, p. 331.

1. **Melogramma æsculinum** Otth, Bern. Mittheil. 1870, p. 101. — 2223
Erumpens, cortici adnatum, peridermio lacerato cinctum, subdisci-
forme, nigro-fuscum, superficie leniter tuberculosum; peritheciis
arcte connatis, a stromate vix discretis, ostiolis minutissimis papil-
latis; ascis clavatis, octosporis; sporidiis oblongo-ellipsoideis, 18 \times 6,
torulesis, 3-septatis, olivaceo-brunneis, intricato-conglobatis; para-
physibus filiformibus.

Hab. in ramis Æsculi Hippocastani in Helvetia.

2. **Melogramma olivascens** Otth, Bern. Mittheil. 1870, p. 100. — 2224
Stromate cortici adnato, intus nigro-fusco, verruciformi, erum-
pente, peridermio lacero cincto; peritheciis deorsum invicem et
cum stromate connatis, sursum liberis, furfure flavido-olivascen-
te obductis, ostiolo conico, brevi, nigro, punctiformi-prominulo;
ascis longe clavatis, deorsum attenuato-subulatis, 8-sporis; spori-

diis fusoides, curvulis, 38-42 \times 9, e pallido brunneis, 1-septatis, subconstrictis, 4-guttatis, monostichis v. subdistichis.

Hab. in ramis dejectis Fagi in Helvetia.

3. **Melogramma horridum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 134. 2225

— Stromatibus elongatis, $\frac{1}{2}$ cm. altis, 2-3 mm. latis, dense caespitose confertis subconfluentibusque, superficie colliculosa, ostioliis quadrisulcatis, firmis, echinatis asperatis; peritheciis ovato-globosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., tenue coriaceo-tunicatis, intus atris nitidisque, superficie stromatis immersis; ascis cylindraceutis, 100-110 \times 10 (p. sp. 80-85 \times 10); sporidiis uniseriatis, ellipticis, hyalinis, 3-septatis, 6-guttulatis, vix constrictis, 14-16 \times 7-8 (postremo interdum muriformibus).

Hab. in ramis Fagi ferrugineæ in Canada (DEARNES). —

Habitu *Eutypam spinosam* in memoriam revocat.

4. **Melogramma Betulæ** Oud. et Destrée, Révis. de Champ. II, p. 320. 2226

— Stromatibus numerosis, sine ordine dispositis, primo epidermide tectis, dein erumpentibus et epidermide cinctis, conicis, nigris, $\frac{1}{2}$ -1 mm. diam.; peritheciis 1-3 in quoque stromate, vix prominentibus, collo brevi obtuso; ascis anguste clavatis, breve stipitatis, 160-180 \times 6, octosporis; sporidiis primo distichis, dein monostichis, cylindraceuto-fusiformibus, rectis v. lenissime curvulis, hyalinis, continuis, primo 3-guttulatis, dein subfuliginosis et 3-septatis, haud angustatis, 22-26 \times 5-5 $\frac{1}{2}$; paraphysibus articulatis, ascos multo superantibus.

Hab. in ramis Betulæ albæ in Hollandia (DESTRÉE).

5. **Melogramma boreale** Ell. et Ev. Proc. Acad. Philad. 1895, p. 426. 2227

— Stromatibus gregariis, erumpentibus, epidermide lacerata cinctis, suborbicularibus v. irregularibus, 1-2 mm. diam., interdum confluentibus et subflexuosis, nigris; ostioliis obtusis, prominentibus; peritheciis stromate innatis, haud numerosis; ascis clavato-cylindraceutis, 75-80 \times 12, breve stipitatis, paraphysatis, octosporis; sporidiis distichis, clavato-oblongis v. ovato-oblongis, medio uniseptatis, ad septum constrictis, cellulis demum in longitudine septatis, leniter attenuatis, non acutis, 10-13 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in cortice Abietis, Newfoundland Amer. bor. (WAGHORNE).

6. **Melogramma Egelingii** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 2228

p. 440. — Stromatibus subcuticularibus, 1-2 mm. diam., ovatis, apice erumpentibus, intus albis et granulosis, demum frustulosis; peritheciis 14-20 in quoque stromate, periphericis, ovatis, 200 μ . altis, 150 μ . latis, nigris, immersis, demum subliberis, supra in

ostiolum demum perforatum obtusum acutum angustatis; ascis clavato-cylindraceutis, breve stipitatis, paraphysatis, p. sp. 75-85 \approx 12; sporidiis distichis, cylindraceutis, utrinque obtuso-rotundatis, 5-septatis, ad septa plus minusve constrictis, medio plerumque incrassatis, luteo-brunneis, demum opacis, 20-23 \approx 6.

Hab. in foliis emortuis *Agaves* spec., Mexico (EGELING).

Sect. 7. Hyalophragmiæ.

SPHÆRULINA Sacc — Syll. II, p. 186, IX, p. 846 XI, p. 336.

1. **Sphærulina phellogena** D. Sacc. Malp. 1898, p. 209, t. VII, f. 4. — 2229

Peritheciis laxè gregariis, minimis, 100-120 μ . diam., innato-erumpentibus, papillulatis, globulosis, nigris, contextu celluloso, brunneo; ascis rosulatis, clavatis, subsessilibus, sinuatis, apice rotundatis, octosporis, 70-75 \approx 15-18, aparaphysatis; sporidiis inæqualiter distichis, oblongo-clavulatis, 3-septatis, raro 4, ad septum medium constrictis, apice rotundatis, 22-24 \approx 8, hyalinis.

Hab. in cortice suberoso ramulorum *Acerie* campestris, vix emortuorum, in Italia boreali.

2. **Sphærulina Cærestia** Sacc. Malpighia XI, 1897, p. 288. — Pe- 2230

ritheciis laxè gregariis, punctiformibus, subcutaneis, nigris, 100-150 μ . diam.; ascis rosulatis oblongo-saccatis, subsessilibus, apice obtuse acutatis, aparaphysatis, 26-36 \approx 10-12, octosporis; sporidiis basi 3-4-stichis, fusoidè-oblongis v. clavulatis, 15-18 \approx 4, rectis curvulisve, 3-septatis, non vel vix constrictis, hyalinis.

Hab. in caulibus mortuis *Betonice* officinalis, Riva-Valdobbia, Italia (CÆRESTIA).

3. **Sphærulina vulpina** Lamb. et Fautr. Rev. Mycol. 1896, p. 71. — 2231

Peritheciis sparsis, adhærentibus, membranaceutis, pallide luteis, poro amplo pertusis; ascis clavatis, breve stipitatis; paraphysibus nullis; sporidiis di- vel tristichis, rectis, obtusis, hyalinis, 5-6 septatis, utroque loculo uniguttulatis, circiter 40 \approx 8.

Hab. in calamis foliisque *Caricis* vulpinæ in Gallia.

4. **Sphærulina muscicola** Pat. Enum. Champ. Tunisie 1892, p. 13, 2232

tab. I, fig. 6. — Peritheciis sparsis, subepidermicis, minutissimis, 100 μ . diam., globosis, brunneis, membranaceuto-coriaceutis, non carbonaceutis, ostiolatis, ostioliis epidermidem rumpentibus; ascis subsessilibus, apice obtusis, 35-40 \approx 7-8, octosporis, aparaphysatis; sporidiis distichis, hyalinis, rectis v. curvulis, fusiformibus, acutis, 3-septatis, ad septa non constrictis, 10-12 \approx 1 $\frac{1}{2}$ -2.

Hab. in pedunculis urnisque Muscorum, Tunisia.

5. **Sphærulina tiliaris** Fautr. et Lamb. Rev. Mycol. 1896, p. 144. 2233

— Peritheciis epidermide velatis, applanatis, irregularibus, minutis; paraphysibus nullis; ascis piriformibus, 20-30 × 20-22; sporidiis cumulatis, hyalinis, conico-truncatis, 4-septatis, septis constrictis, 18-20 × 5-7.

Hab. in ramis Tiliæ in Gallia, socia *Indymella tiliaginea*.

METASPHÆRIA Sacc. — Syll. II, p. 156, IX, p. 825, XI, p. 333.

1. **Metasphæria rubicola** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 279. 2231

— Peritheciis sparsis v. seriatim dispositis, interdum 3-4 associatis, basi crusta tenui stromatica connexis, globosis, 400-500 μ. diam., intus schistaceis, cortice immersis ac in lignum penetrantibus, sed apice ostioloque papilliformi erumpentibus; ascis cylindraceutis, subsessilibus, paraphysatis, 100-115 × 10-12; sporidiis monostichis, oblongis v. oblongo-ellipticis, 3-septatis, non constrictis, utrinque rotundatis obtusisque, hyalinis, 15-20 × 8-10.

Hab. in sarmentis emortuis Rubi delicosi, Colorado Amer. bor.

2. **Metasphæria corticola** (Fekl.) Sacc. Syll. II, p. 166. — f. **Rubi** 2235

occidentalis Vesterg. Bot. Notis. 1897, p. 260. — Peritheciis peridermate nigricante velut clypeo tectis, vix papillatis, demum vertice subprominulis; ascis 75-95 × 7-9, paraphysatis, fasciculatis, cylindricis, brevè stipitatis v. subsessilibus, apice rotundatis, non incrassatis; sporidiis 13-16 × 5-7, octonis, oblique monostichis, cylindraceuto-oblongis, utrinque rotundatis, distinctissime 3-septatis, sæpissime ad septum medium constrictis, eguttulatis, hyalinis.

Hab. in sarmentis Rubi occidentalis horti bot. Upsalien-sis, Suecia.

3. **Metasphæria seriata** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 279. 2236

— Peritheciis semierumpentibus, globosis, minutis, 80-100 μ. diam., in series angustas elongatas, complura cm. longas ac ½ cm. latis dispositis, superficiem caulis leviter nigrificantibus, ostioli papilliformibus, indistinctis; ascis clavato-cylindraceutis, sessilibus, 45-50 × 8-10, paraphysatis, 8-sporis; sporidiis conferto-distichis, fusoides, hyalinis, subtiliter 1-3-septatis, 25-27 × 3.

Hab. in caulibus Umbelliferarum, Colorado Amer. bor.

4. **Metasphæria Artemisiæ** Pat. Enum. Champ. Tunisie 1892 p. 13. 2237

— Peritheciis minutissimis, nigris, semiimmersis, globosis; ostiolo brevi, crasso; ascis clavatis, octo-sporis; paraphysibus numerosis;

sporidiis hyalinis, fusiformibus, utrinque acutis, rectis v. leniter curvulis, 5-septatis, ad septa constrictis, loculis omnibus grosse uniguttatis, 35-40 \times 8-10.

Hab. in caulibus emortuis Artemisiæ Herbæ-albæ, Tunisia.

5. *Metasphæria ambrosiæcola* Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 8. — Peritheciis sparsis v. gregariis, immersis, erumpentibus, depressis, demum cupulatis, papillatis, nigris, 250-300 μ . diam.; ascis cylindraceo-clavatis, 40-60 \times 10-12, paraphysibus filiformibus obvallatis; sporidiis hyalinis, fusoido-cylindraceis, utrinque rotundatis, rectis v. leniter curvulis, subtiliter 1-3-septatis, leniter constrictis, 20-35 \times 3-4, oblongis, mono- vel distichis.

Hab. in caulibus emortuis Ambrosiæ artemisiæfoliæ, Auburn, Alabama Amer. bor.

6. *Metasphæria tetraspora* Delacr. Bull. Soc. Mycol. de France XIII, p. 126; cum icone. — Peritheciis immersis, ostiolo brevi, erumpente, 250 μ . diam.; ascis subclavatis, tetrasporis, 70 \times 13-14, sporidiis hyalinis, rectis v. interdum paulum arcuatis, subfusoidis, 4 vel 5-septatis, 22-24 \times 5-6, distichis; paraphysibus gracilioribus, interdum ramosis.

Hab. in caule exsiccato Linariæ in Gallia.

7. *Metasphæria fraxinicola* (Oth) Sacc. Hedw. 1896, p. XXX, *Gladosphæria* Oth, Bern. Mittheil. 1870, p. 107. — Peritheciis globosis gregariis, cortici immersis et cum ejus strato supremo emergentibus, ostiolo conico per peridermium subpustulatum vix erumpente; ascis cylindricis, octosporis; sporidiis monostichis, oblongo-cylindraceis, rotundato-obtusis, hyalinis, 18-20 \times 6, trilocularibus, tritorulosis, triguttatis; paraphysibus longis, filiformibus.

Hab. in ramis corticatis Fraxini in Helvetia. — Verisimiliter *Melomastix* spec.

8. *Metasphæria Callunæ* Fautr. Rev. Mycol. 1896, p. 70. — Peritheciis minutis, applanatis, subsuperficialibus, carbonaceis, atro-nitidis, primo clausis dein poro irregulari pertusis; ascis ventricosis, sessilibus, 50-80 \times 15-18, 6-sporis; paraphysibus filiformibus, curvulis, ascos superantibus; sporidiis distichis v. eumulatis, cylindraceis, rotundatis, hyalinis, 3-septatis, ad septa constrictis, loculo extremo parum incrassatis, 20 \times 8.

Hab. in ramulis vivis Callunæ vulgaris, sociæ *Didymella Picconii*, in Gallia.

9. *Metasphæria betulina* (Hazsl.) Sacc. et Syd. *Leptosphæria betulina*

Hazsl. Math. es term. Közlem. XXV, 2, Budapest 1892, p. 152.

— Peritheciis dense gregariis, epidermidem elevantibus perforantibusque, solummodo ascis et pseudoparaphysibus faretis; ascis cylindricis, breviter stipitatis; sporidiis vulgo fusiformibus, apice obtusis curvatisque ibique raro cuneiformibus, 5-7 guttulis monostiche dispositis faretis, distichis, hyalinis, 40 × 5-6.

Hab. in ramis Betulæ in Carpathis centralibus Hungariæ.

10. **Metasphæria corylina** Ell. et Holw. Bull. Lab. Nat. Hist. Jowa 2243
1895, p. 43. — Peritheciis gregariis, tectis, circiter $\frac{1}{2}$ mm. diam., intus albis, globosis, epidermidem in pustulas elevantibus, ostiolo papilliformi, perforato, emergente; ascis clavato-cylindræcis, p. sp. 130-140 × 20, breve stipitatis, pseudoparaphysatis; sporidiis distichis, oblongis, subinæquilateralibus, hyalinis, 3-septatis, leniter constrictis, 25-30 × 10-12, utrinque obtuse rotundatis.

Hab. in ramis emortuis Coryli, Decorah Jowa, Amer. bor. (HOLWAY). — *M. lejustegæ* affinis, sed ascis sporidiisque majoribus diversa.

11. **Metasphæria quercina** Ell. et Ev. Proc. Acad. Philad. 1895, 2244
p. 423. — Peritheciis gregariis, immersis, globosis, 250-300 . diam., epidermidem ostiolo papilliformi pertusam in pustulas elevantibus; ascis cylindræcis, breve stipitatis, 170-190 × 12; paraphysibus filiformibus, ascos longitudine non æquantibus; sporidiis monostichis, oblongis, 3-septatis, ad septa constrictis, hyalinis, 20 × 7-9.

Hab. in ramis emortuis Quercus tinctoriæ, New Jersey, Amer. bor.

12. **Metasphæria Agaves** Roll. Bull. Soc. Myc. de Fr. 1896, p. 4, 2245
tab. II, fig. 6. — Peritheciis nigris, gregariis, erumpentibus, globosis, ostiolatis, $\frac{1}{4}$ mm. latis; ascis fusiformibus, 70 × 20; sporidiis hyalinis, oblongis v. subfusiformibus, subdistichis v. inordinatis, primo 1-, dein 4-septatis, ad tertium septum haud centrale magis constrictis, sæpe guttatis, 16-20 × 4-6; paraphysibus filiformibus, crassiusculis.

Hab. in caulibus emortuis Agaves, Antibes Galliæ.

13. **Metasphæria Funkiæ** Bres. Hedw. 1896, p. 62. — Peritheciis 2246
sparsis, globoso-obovatis, epidermide tectis, apice erumpentibus, contextu fuligineo-atro, parenchymatico, $\frac{1}{3}$ mm. latis; ascis clavatis, deorsum attenuatis breviterque stipitatis, 8-sporis, 100-140 × 12-15; paraphysibus numerosis, ramosis, filiformibus, $1\frac{1}{2}$ μ . latis; sporidiis distichis, hyalinis, 8-12 μ . latis, ad septa leniter constrictis, subfusoideis vel subclavatis, 24-30 × 7-9.

Hab. in caulibus Funkiæ univittatæ in Germania (SYDOW.

14. **Metasphæria Bambusæ** Roll. Bull. Soc. Myc. de Fr. 1896, p. 3, 2247
t. II, fig. 4. — Peritheciis laxè gregariis, rotundis, nigris, epidermide velatis, ore papillato erumpentibus, $\frac{1}{4}$ mm. latis; ascis subfusiformibus, ventricosis, in stipitem curtum, crassum desinentibus, 50-60 \times 15, octosporis; sporidiis subdistichis aut inordinatis, hyalinis, primo fusiformibus, 1-septatis, dein ovato-oblongis, obtusis, 4-septatis; ad tertium septum valde et ad cetera leniter constrictis, loculis guttatis, 18-20 \times 5-6; paraphysibus numerosis, valde diversis, crassiusculis, granulatis, ramosis, nodosis, ad apicem sæpe clavatis.

Hab. ad corticem Bambusæ, Golfe Juan Galliæ. — *M. Craterio* et *M. calamine* vicina, sed pluribus notis diversa.

15. **Metasphæria taminensis** Wegelin, Mitth. d. Thurgau. Naturf. 2248
Ges. XII, 1896, p. 4 extr. tab. II, fig. 6-7. — Peritheciis gregariis, matrice brunneo-tincta immersis, prominulis, ellipsoideis, 300 μ . longis, 200 μ . latis, ostiolo nigro papillato pertusis; ascis sessilibus, cylindrico-clavatis, octosporis, 80-100 \times 12-14, paraphysibus numerosis obvallatis; sporidiis oblique distichis, fusiformibus, utrinque rotundatis, sæpe curvulis, 5-septatis, initio medio parum constrictis, hyalinis, 21-22 \times 5-5 $\frac{1}{2}$, loculis crasse 1-guttatis, demum ad omnia septa constrictis, loculo tertio vix inflato.

Hab. in culmis siccis Festucæ, Helvetia.

16. **Metasphæria Bloxami** Sacc. et Syd. Sic nominanda est *Metasphæria rubida* (Blox.) Cke. in Syll. XI, p. 335, quum exstet anterior *M. rubida* Ell. et Ev. in Syll. IX, p. 835.
17. **Metasphæria ampelogenæ** Sacc. et Syd. Sic nominanda est *Metasphæria pampinea* Pass in Syll. IX, p. 838, quum exstet anterior *M. pampinea* Sacc. in Syll. I, p. 164.

CHARRINIA Viala et Rav. Compt. rend. 1894, 20 août.; Zeitschr. f. Pflanzenkrankh., 1895, p. 116. (Etym. a cl. doct. CHARRIN). — Perithecia sphæroidea, late pertusa. Asci octospori, longe paraphysati. Sporidia 1-3-septata, hyalina Stat. pycn.: *Coniothyrium Diplodiella*. — An genus sat diversum a *Metasphæria*?

1. **Charrinia Diplodiella** Viala et Rav. 1. c. Status pycn.: *Coniothyrium* 2249
Diplodiella Sacc. Syll. III, p. 310; *Phoma Diplodiella* Speg. Rev. Vitic. et Enol. 1878, n. 4. — Peritheciis sphæroideis, 140-160 μ . diam., nigris, late pertusis; ascis fusiformibus, 8-sporis, hyalinis, 56 μ . longis; sporidiis 15 \times 3-4, 1-3-septatis, hyalinis.

Hab. in bacis maturis Vitis viniferæ in Italia, Gallia.

MASSARINA Sacc.-Syll. II, p. 153, IX, p. 824; XI, p. 332.

1. *Massarina macra* Vesterg. Bot. Notis. 1897, p. 257. — Peritheciis sparsis, ligno maxima parte infossis, nigro-annulatis, globosis, circiter 1 mm. diam., vertice peridermate pustulatum elevato, adhærente tectis, demum ostiolo subprominulis, contextu membranæ obscuro impellucido; ascis cylindraceo-clavatis, apice subdetruncatis, deorsum in stipitem breviusculum attenuatis, 400-525 × 35-40, paraphysibus gelatinosis, guttulatis 4 μ. crassis obvallatis; sporidiis octonis, mono-vel distichis, cylindricis, utrinque abrupte obtuseque acutatis, 4-locularibus, oculis guttula maxima repletis, ultimis medios 1-2 μ. in longitudine excedentibus, membrana solida, crassa, utrinque papilliformiter, ad septa triangulariter incrassata, non constricta præditis, perfecte hyalinis, obsoletis et colliapsis solum subfuscescentibus, 56-66 × 17-20, sæpissime 65 × 18, strato mucoso, medio sæpe velut septo dimidiato, 7-9 μ. lato cinctis. 2250

Hab. in ramis emortuis corticatis Aceris platanoidis in regione Upsaliensi Sueciæ. — *A. M. inquinante*, cujus perithecia aliquando simul inventa sunt, notis allatis plane diversa.

2. *Massarina eburnella* Sacc. Bull. Soc. Myc. de Fr. 1896, p. 66, 2251 tab. V, fig. 9. — Peritheciis gregariis, globulosis, epidermide tumidula atrata tectis, vix papillatis, 0,7 mm. diam.; ascis teretibus clavatis breve stipitatis, apice rotundatis, 180 × 18-19, octosporis, parce spurie paraphysatis; sporidiis distichis, breve fusoides, rectis v. curvulis, cuboideo-4-nucleatis, demum 3-septatis, non constrictis, 26 × 9, strato hyalino mucoso obductis (cum muco 30 × 14).

Hab. in ramulis Carpini Betuli pr. Rigny Galliæ — *A. M. eburnea* præsertim peritheciis sporidiisque crassioribus recedit.

3. *Massarina Chrysopogonis* Atk. Bull. Cornell Univ. III. n. 1, 1897, 2252 p. 7. — Peritheciis immersis, epidermide elevata velatis, membranaceis; ascis clavatis, breve pedicellatis, 75-90 × 12-14, paraphysibus filiformibus obvallatis; sporidiis subdistichis, hyalinis, oblongo ellipticis. 4-5-septatis, strato mucoso late elliptico 5-8 μ. crasso obductis, 20-25 × 5-6.

Hab. in culmis emortuis Chrysopogonis nutantis, Auburn, Alabama Amer. ber.

SACCARDOELLA Speg. — Syll. II, p. 190, XI, p. 336.

1. *Saccardoella Berberidis* Eliasson, Fungi Upsalienses in Bih. K. Sv. Vet.-Akad. Handl. Bot. XXII, Afd. III, n. 12, 1897, p. 13, fig. 1. — Peritheciis sparsis, majusculis, in ramorum superficie 2253

nidulantibus, ostiolo solum supra corticis superficiem exsertis, atris, carbonaceis; ascis 315-360 \times 12-13, elongato-cylindraceis, apice incrassatis et plus minus truncatis; paraphysibus 1,5 μ . latis, filiformibus, pluriguttulatis obvallatis; sporidiis 35-65 \times 10, monostichis, circiter 20-locularibus, utrinque acutatis, hyalinis, setulis non præditis.

Hab. in ramis aridis corticatis Berberidis vulgaris pr. Haga in Suecia. — *S. transilvanicæ* (Rehm) Berl. affinis, differt ascis et sporidiis majoribus.

HYPOSPILA Fr. — Syll. II, p. 189, IX, p. 849, XI, p. 336.

1. **Hypospila cordiana** Ell. et Kels. Bull. Torr. Bot. Cl. 1897, p. 298. 2261

— Peritheciis innatis, minutis globosis, clypeo stromatico nigro suborbiculari tenui, $\frac{1}{2}$ mm. diam., obtectis, concentricè dispositis, in maculis epiphyllis pallide flavis bullatim inflatis, indefinitis circiter $\frac{1}{2}$ cm. diam. insidentibus; ascis clavato-cylindraceis, breviter stipitatis, octosporis, 70-80 \times 10-12, paraphysatis?; sporidiis distichis fusoides, 3-4-nucleatis, virescenti-hyalinis, 15-20 \times 3 $\frac{1}{2}$ -4, imo apice vulgo attenuatis acutisque, maturis verisimiliter 3-septatis.

Hab. in foliis Cordiæ collococæ, St. Croix Indiæ occid.

ZIGNOELLA Sacc. — Syll. II, p. 214, IX, p. 860, XI, p. 339.

1. **Zignoella Magnoliæ** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 2255

p. 211. — Peritheciis in areis albescentibus, dense sparsis et interdum confluentibus, hemisphericis, basi matricæ leuiter immersis, superne rotundatis, non papillatis, denique ostiolo magno, rotundo perforatis, atris, carbonaceis, superficie asperatis, ca. $\frac{1}{2}$ mm. diam.; ascis anguste ellipticis, longe stipitatis, 130-150 \times 12-15; paraphysibus copiosis, filiformibus, ascos superantibus; sporidiis hyalinis, ellipticis, utrinque rotundatis, 4-guttatis, denique 3-septatis, non constrictis, 22-24 \times 5-6.

Hab. in cortice emortuo Magnoliæ glaucæ in Mississippi Amer. bor.

2. **Zignoella fraxinicola** Lamb. et Fautr. Rev. Mycol. 1896, p. 145. 2256

— Peritheciis superficialibus, laxè gregariis, contextu carbonaceo parenchymatico tenui, depressis, cupulatis, late apertis; ascis clavatis, breve pedicellatis, 60-80 \times 8-10, paraphysatis; sporidiis fusiformibus, obtusis, 3-septatis, ad septa constrictis, loculo extremo incrassatis, hyalinis, 16-20 \times 7-8.

Hab. in ligno decorticato putrido Fraxini in Gallia.

3. **Zignoella spissiana** Lamb. et Fautr. Rev. Mycol. 1897, p. 56. — 2257

Peritheciis superficialibus, sparsis v. 15-20 aggregatis, ovalibus. ostioliis indistinctis acutis v. obtusis; ascis clavatis, basi in punctum terminatis, 90-100 \times 10; sporidiis sursum in asco cumulatis, hyalinis, simplicibus, guttulatis, rectis, sæpe arcuatis, parum fusoides, 35-40 \times 4; paraphysibus filiformibus, guttulatis.

Hab. in cortice Ulmi campestris et suberosæ in Gallia. — Inter *Z. collabentem* et *macrosporam* fere media.

4. **Zignoella fallax** Sacc. Syll. II, p. 218. — * Ulmi Lamb. Rev. 2258 Mycol. 1897, p. 55. — Ascis clavatis, 120 \times 12; sporidiis hyalinis, 25-33 \times 6-8.

Hab. in cortice sicco Ulmi in Gallia.

5. **Zignoella eumorpha** Penz. et Sacc. Malpighia XI, 1897, p. 403. — 2259 Peritheciis dense gregariis, superficialibus aterrimis, nitidulis, globosis, acutiuscule papillatis, $\frac{1}{4}$ mm. diam., glabris; ascis clavatis, apice rotundatis, breve acuteque stipitatis, 60-70 \times 11-12, aparaphysatis (?), octosporis; sporidiis tristichis, tereti-fusoides, utrinque obtusulis, 28-35 \times 4-4 $\frac{1}{2}$, rectis curvulisve, 7-septatis, non constrictis, hyalinis.

Hab. in lignis putrescentibus, Java. — Affinis *Z. dolichosporæ* Sacc., *Z. intermediae* Pass. et *Z. macrosporæ* Sacc., sed ascis, sporidiorum forma et septatione dignoscenda.

6. **Zignoella acervata** Penz. et Sacc. Malpighia XI, 1897, p. 403. — 2260 Peritheciis hinc inde in acervulos planos, superficiales, 1 $\frac{1}{2}$ -2 mm. diam., congregatis, globoso-conoideis, aterrimis, non omnino levibus, papillatis, 0.4 mm. diam., subcarbonaceis, contextu atro-fuligineo; ascis elongatis (jam fere resorptis); sporidiis distichis, tereti-fusoides, curvulis, utrinque rotundatis, 5-(raro 3-)septatis, constrictis, 36 \times 6-8, hyalino-chlorinis.

Hab. in cortice emortuo Elettariæ, Tjibodas, Java. — Habitus *Melchiorix*, sed stroma album nullum et sporidia aliena.

7. **Zignoella interspersa** Penz. et Sacc. Malpighia XI, 1897, p. 403. 2261 — Peritheciis gregariis, alte globoso-conoideis, sed minutis, 200 \times 120, demum obtusioribus, inter setulas rigidulas nigras interseminatis, atro-nitidulis, ostiolo papillate; ascis fusoides-clavatis, brevissime stipitatis, apice obtusulis, 45-60 \times 9-10, aparaphysatis (?), octosporis; sporidiis distichis v. rarius oblique monostichis, fusoides, leniter curvis, utrinque obtusulis, 15-17 \times 3 $\frac{1}{2}$ -5, bi-quadrinucleatis v. granulosis, hyalinis.

Hab. in cortice emortuo Elettariæ, Tjibodas, Java.

8. **Zigoella omphalostoma** Penz. et Sacc. Malpighia XI, 1897, p. 403. 2262

— Peritheciis densiuscule gregariis, superficialibus, globoso-depressis, nigris, carbonaceis, 400 μ . diam., glabris; ostiolo obtuso circa porum orbiculariter impresso; ascis tereti-clavatis, apice rotundatis, breviter stipitatis, filiformi-paraphysatis, 8-sporis: sporidiis distichis, oblongo-fusoideis, utrinque rotundatis, 18-22 \times 6, rectis, 4-nucleatis, dein 3-septatis, vix constrictis, hyalinis.

Hab. in cortice stipitis Livistonæ olivæformis, ubi maculas atras, palmares efficit, in horto bot. Bogoriensi, Java. — Affinis, ut videtur, *Z. antarctica* Speg., sed forma peritheciolorum diversa.

9. **Zignoella calospora** Pat. Journ. de Bot. 1897, p. 242. — Peritheciis solitariis, sparsis, superficialibus vel basi leviter insculptis, atris, conico-globosis, apice poro pertusis; glabris, 300-350 μ . diam., contextu coriaceo (non carbonaceo), laxè parenchymatico, pallide brunneo; ascis diffluentibus, longe clavatis, sursum obtuse rotundatis, deorsum attenuatis, 8-sporis, indistincte paraphysatis; sporidiis distichis, cylindræis, sæpè flexuosis, utrinque obtusis, hyalinis, transverse 3-6-septatis, protoplasmate nitenti repletis, 90-110 \times 10, non constrictis. 2263

Hab. in thalio Castagnæ sordariæformis, Gijon Hispaniæ.

WINTERINA Sacc. emend. *Winteria* Sacc. Syll. II, p. 225, IX, p. 870, XI, p. 340, nec Rehm. — Cum sit compertum (Cfr. Wint. Pilze II, p. 280) *Winteriæ* Rehm species typicas et primarias esse hyalodictyas (cfr. ic. Wint. l. c. p. 263), putamus *Winterinam* Sacc. Syll. ad species hyalophragmias esse limitandam, *Winteriam* vero cl. Rehmii, Wint. et Berl. ad hyalodictyas. Hinc ad *Winterinam* Sacc. emend. (1891) = *Winterella* Berl. Ic. I, p. 94 (1892), spectant præceteris: *W. tuberculifera* (E. et Ev.) Sacc., *W. crustosa* (E. et Ev.) Sacc., *W. rhoïna* (E. et Ev.) Sacc., *W. Zahlbruckneri* (Bäuml.) Sacc., et sequentes:

1. **Winterina lobata** (Tracy et Earle) Sacc. et Syd. *Winteria* Tr. et 2264
Ear. Bull. Torr. Bot. Cl. 1896, p. 211. — Peritheciis hypophyllis superficialibus sparsis, turbinatis, supra collapsis ideoque patellatis, marginibus crassis demum varie rimosis lobatisque, tenuibus fragilibusque, indistincte cellulosis, extus nigris intus virescenti-cæruleis, 300-400 μ . diam.; ascis numerosis tenue tunicatis ovatis, breviter pedicellatis, 35 \times 15, paraphysibus filiformibus gelatinosis virescentibus obvallatis; sporidiis hyalinis, anguste ellipticis acutisque, subtiliter 3-septatis.

Hab. in foliis vivis *Ilicis coriaceæ*, Mississippi, Florida et Georgia Amer. bor.

2. *Winterina oxyspora* (Penz. et Sacc.) Sacc. et Syd. *Winteria* Penz. 2265
et Sacc. *Malpighia* XI, 1897, p. 402. — Peritheciis gregariis, omnino superficialibus, hinc facillime secedentibus, globosis, atris, 0,2-0,3 mm. diam., molliusculis et tunc callabascendo mox depresso-umbilicatis, glabris; ascis cylindraceutis, (jam fere resorptis); sporidiis distichis, fusiformibus, utrinque acutissimis, curvulis, 50 \approx 5-6, hyalinis, plasmate 2-6-partito.

Hab. in culmis crassioribus *Bambusæ* putrescentibus in horto bot. Bogoriensi, Java.

ACANTHOSTIGMA De Not. — *Syll.* II, p. 207, IX, p. 854, XI, p. 337.

1. *Acanthostigma scopulorum* Ell. et Ev. *Proc. Acad. Philad.* 1895, 2266
p. 414. — Peritheciis gregariis, erumpenti-superficialibus, globosis, 75-100 μ . diam., mycelio ramoso repente superficiem caulium nigricantem cinctis, setulis erectis, nigris, 3-4-septatis, 75-110 \approx 6-7, apice acutiuscule obtusis vestitis; ascis clavato-cylindraceutis, sessilibus, 55-65 \approx 10-12, octosporis; paraphysibus obscuris v. nullis; sporidiis confertis, fusoidis, 4-septatis, cellulis sursum incrassatis, 22-30 \approx 4-4 $\frac{1}{2}$, leniter curvulis, luteolo-hyalinis.

Hab. in caulibus siccis *Ligustici scopulorum*, Colorado, Amer. bor. (CRANDALL).

2. *Acanthostigma scleracanthoides* Penz. et Sacc. *Malpighia* XI, 2267
1897, p. 404. — Peritheciis laxè gregariis, superficialibus, minutissimis, 0,2 mm. diam., globosis, nigris, setulosis; setulis rigidulis, septatis, fuliginis, rectiusculis, 80-99 \approx 4-5; ostiolo obsolete, obtuso; ascis crasse clavatis, apice rotundatis, brevè crasseque stipitatis, 85-100 \approx 21-25, aparaphysatis (?), 8-sporis; sporidiis 3-4-stichis, cylindrico-fusoidis, leniter curvis, 8-10-septatis, non contractis, hyalinis, 65-75 \approx 7-8.

Hab. in ligno putri in horto bot. Bogoriensi, Java. — Ab *A. scleracantho* differt imprimis ascis sporidiisque crassioribus. —

Var. Elettariæ Penz. et Sacc., l. c. — Peritheciis paullo majoribus, 0,3 mm. diam.; setulis 50-60 \approx 6-7; ascis 90 \approx 18, filiformi-paraphysatis; sporidiis 50 \approx 5 $\frac{1}{2}$ -7, fusoidis, curvulis, 9-11-septatis, hyalinis.

Hab. in caule emortuo *Elettariæ*, Tjibodas Java, sociæ *Diaporthe javanica* Penz. et Sacc.

3. *Acanthostigma nectriaeum* Penz. et Sacc. *Malpighia* XI, 1897, 2268

p. 530. — Peritheciis laxè gregariis, superficialibus, globulosis, 200-230 μ . diam., setulis rigidulis, basi bulbosis, 1-cellularibus, 70-75 \times 5-7, fuliginèis conspersis, vertice areola calva ochracea medio obsolete pertusa præditis; contextu parenchymatico molliuscule, ochraceo-melleo, fere nectriaceo; ascis oblongis, subsessilibus, apice rotundatis, 80-90 \times 15-18, octosporis, aparaphysatis; sporidiis tristichis, fusoidèis, curvulis, utrinque acutiusculis, 8-10-septatis; non constrictis, 34-37 \times 5, hyalinis.

Hab. in caulibus putrescentibus Elettariæ, Tjibodas ins. Java. — Species singularis, ambigua, ob contextum fere ad *Hypocreas* nutat, a quibus vero recedit setulis rigidis, atris etc.

4. **Acanthostigma Chusqueæ** Pat. Bull. Soc. Myc. de Fr. 1895, p. 226. 226

— Peritheciis superficialibus, liberis, gregariis, atris, globosis, poro pertusis, 30-40 μ . diam., pilis sparsis brunneis, rectis, simplicibus, septatis, 160-200 \times 8-10 vestitis, contextu coriaceo; ascis clavatis, magnis, 260 \times 30, crasse tunicatis, 8-sporis, filiformi paraphysatis; sporidiis hyalinis, di-vel tristichis, rectis v. curvatis, elongato-fusoidèis, transverse circiter 20-septatis, 150 \times 10.

Hab. in truncis putridis Chusqueæ, in Æquatoria (v. LAGERHEIM).

5. **Acanthostigma Ellsii** Sacc. et Syd. Sic nominandum est *Acanthostigma parasiticum* Ell. et Ev. Sacc. Syll. XI, p. 338, quum extet antèrius *A. parasiticum* (Hart.) Sacc. Syll. IX, p. 855.

HORMOSPERMA Penz. et Sacc. Malpighia, XI, 1897, p. 402. (Etym. *hormos* monile et *sperma* spora). — Perithecia superficialia, atra, globulosa, papillata, exigua, setulosa. Asci cylindracei, aparaphysati, suboctospori. Sporidia cylindrica, moniliformia, typice 8-locularia, subhyalina, loculis globoso-cuboideis, facile secedentibus,

1. **Hormosperma pusillum** Penz. et Sacc. l. c. — Peritheciis dense 2270 gregariis, minutissimis, nigricantibus, subglobosis, obtusule papillatis, 200 μ . diam., setulosis; setulis brevibus, apice obtusis, septatis, 45-50 \times 6, rufo-fuscis; ascis cylindraceis, brevè stipitatis, apice rotundatis, 80-90 \times 7-9; sporidiis subtristichis, cylindraceis, rectis, 20-22 \times 2,5, plerumque 8-cellularibus, moniliformibus, hyalinis v. dilutissime fuscidulis, articulis globoso-cuboideis, 2,5 μ . diam., facile secedentibus.

Hab. in fragmentis ligneis putridis, Tjibodas, Java. — Contextus peritheci cellulosus, rufo-fuliginèus. Ob minutiem et constipationem sporidiorum intra ascum ægre eruitur, an hæc vere octona

et 8-locularia sint, sed valde probabile. Fungillus singularis certe ad Hypocreaceas nutat.

LASIOSPHÆRIA Ces. et De Not. — Syll. II. p. 191, IX, p. 849, XI, p. 336.

1. **Lasiosphæria Dematium** (Hazsl.) Sacc. et Syd. *Leptospora Dematium* Hazsl. Math. es term. Közlem. XXV, 2, Budapest 1892, p. 43. — Peritheciis globosis e matrice nigrescenti emersis, apice setis opacis septatis coronatis; ascis oblongis v. clavatis, sessilibus, circiter 50 μ . longis, variante crassitie, aparaphysatis; sporidiis linearibus, cylindricis. sæpe unilateraliter parum attenuatis, obtusis, 24-26 \times 2-3. 2271

Hab. in caulibus emortuis Hyperici perforati in Hungaria.

2. **Lasiosphæria setosa** (Schw.) Ell. Proc. Acad. Philad. 1895, p. 21, 2272
Sphæria setosa Schw. Syn. N. Am. Fungi n. 1533 et Sacc. Syll. II, p. 404. — Peritheciis gregariis, superficialibus, ovato-conicis, circiter $\frac{3}{4}$ mm. altis, $\frac{1}{2}$ mm. latis, pilis fuscescentibus setosis ob-
sitis, ostiolo nigro, integro v. subsulcato obtuso excepto; ascis elon-
gatis, sursum angustatis, breve stipitatis, paraphysatis, octosporis,
100-120 \times 12-15; sporidiis distichis, cylindræis, hyalinis, nucleatis,
deorsum curvatis, 45-55 \times 4-5.

Hab. in lignis putridis, Salem et Bethlehem Amer. bor. — Sa-
tis affinis *L. hirsuta*.

3. **Lasiosphæria emergens** (Schw.) Ellis, Proc. Californ. Acad. 1895, 2273
p. 21, *Sphæria emergens* Schw. Syn. Amer. bor. n. 1534. Sacc.
Syll. II, p. 405. — Sparsim emergens ex subiculo, tomentum
laxum referente; subiculi floccis septatis undulatis conidia termi-
nalia luteo-brunnea globosæ, 12-15 μ . diam., granulosa gerentibus;
sporidiis subrectis, cylindricis, hyalinis, 23-32 \times 4, demum proba-
biliter 3-septatis.

Hab. in lignis cariosis, Bethlehem Amer. bor. — *L. Rhacodio*
affinis.

HERPOTRICHIA Fuck. — Syll. II, p. 211, IX, p. 856, XI, p. 338.

1. **Herpotrichia Schiedermayriana** Fckl.-Sacc. Syll. II, p. 211. — 2274
Var. *caldariorum* P. Henn. Hedw. 1895, p. (102). — Sporidiis
plerumque septatis, vivis medio non constrictis, siccis constrictis.

Hab. in corbis pineis in calidariis Berolini Germaniæ.

2. **Herpotrichia purpurea** Ell. et Ev. Proc. Acad. Philad. 1895, p. 415. 2275
— Peritheciis sparsis, superficialibus, hemisphæricis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. d.,

pilis purpureis, 90-140 \times 3-3 $\frac{1}{2}$, continuis v. parce septatis, mox deciduis dense tectis (apice peritheciolorum et ostiolo papilliformi exceptis); ascis cylindraceutis, 40-50 \times 3-7, breve stipitatis, apapophysatis, octosporis; sporidiis distichis, fusoideo-oblongis, hyalinis, dein subtilissime uniseptatis, lenissime curvulis, subobtusis, 9-14 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis culmisque emortuis *Deyeuxiæ Suksdorfii*, Washington, Amer. bor. (PIPER).

3. *Herpotrichia Spegazzinii* Sacc. et Syd. Sic nominanda est *Herpotrichia antarctica* Speg. in ramis *Chiliotrichi amelloidis*, Syll. IX, p. 859, quum exstet *H. antarctica* Speg. in eadem pagina Sylloges in ramis *Pernettyæ*, *Empetri* et *Escallonix*.

CALOSPORA Sacc. — Syll. II, p. 231, IX, p. 871, XI, p. 341.

1. *Calospora Platanoidis* (Pers.) Niessl - Sacc. Syll. II, p. 231. — 2276

Forma *Sorbi* Roll. et Destrée, Supplém. au Catal. des Champ. des environs de la Haye 1897, p. 5. — Peritheciis corticulis, aliquando solitariis, sed generatim gregariis et circumstantibus, tunc ostioliis stipitatis, in discum nigrum, epidermidem perforantibus; ascis clavatis aut subfusiformibus, breviter stipitatis, 90 \times 20; sporidiis subdistichis, hyalinis, cylindricis v. subfusiformibus, utrinque rotundatis et sæpe appendicula brevi ornatis, triseptatis, guttatis, 20-25 \times 4-6; paraphysibus non visis.

Hab. in cortice *Sorbi Ariæ* in Hollandia.

2. *Calospora apateia* (Ell. et Holw.) Sacc. et Syd. *Valsa apatela* 2277

Ell. et Holw. Bull. Lab. Nat. Hist. Jowa 1895, p. 42. — Stromatibus corticulis, orbicularibus, 2-3 mm. diam.; peritheciis 6-10 in quoque stromate circumstantibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; ostioliis solidis, nigris, conico-cylindraceutis, subtruncatis, imperfecte 4-sulcatis, peritheciolorum diametrum æquantibus, per corticem erumpentibus; ascis oblongo-fusoideis v. late lanceolatis, 75-80 \times 14-16, paraphysatis; sporidiis irregulariter confertis, fusoideis, 4-nucleatis, demum 3-septatis, ad septa leniter constrictis, utrinque hyalinis obtusisque, 25-40 \times 6-8.

Hab. in ramis *Caryæ* emortuis, Decorah Jowa, Amer. bor. (HOLWAY).

HOLSTIELLA P. Henn. Pilz. Ostaf. p. 33. (Etym. a cl. botanico C. HOLST). — Stromata superficialia, pulvinata v. hemisphærica, ostiola conico-acuta, dein annulato-depressa v. concava; perithecia numerosa immersa; asci clavati, pedicellati, octospori, paraphysati;

sporidia fusoides v. longe clavata, multiseptata, ad septa non constricta, hyalina. — *Calospora* Sacc. affinis.

1. *Holstiella usambarehsis* P. Henn. l. c. — Stromatibus superficialibus, gregariis, rarissime confluentibus, 1-2 $\frac{1}{4}$ mm. diam., hemisphæricis v. pulvinatis, irregulariter rotundatis, subrugosis, fulvo-brunneis v. griseo-fuscis, dein atris, intus suberocis v. flavis dein atris; ostiolis subconico-acutis, dein annulato-depressis, numerosis, fuscis v. brunneis; peritheciis immersis, numerosis, subglobosis, magnis, atris; ascis clavatis, pedicellatis, apice obtusis, 8-sporis, 80-150 \times 28-35; paraphysibus hyalinis, filiformibus; sporidiis longe fusoides, hyalinis, multiseptatis, ad septa non constrictis, 30-50 \times 7-12.

Hab. in ramis arboris eujusdam in Africa trop. (Hortst.).

Sect. 8. Phæodietyæ.

PLEOSPORA Rab. — Syll. II, p. 241, IX, p. 873, XI, p. 342.

1. *Pleospora Fumanæ* Hazsl. Math. & term. Közlem. XXV, 2 Budapest 1892, p. 155, tab. X, fig. 41. — Peritheciis globosis, nigris, apice fulvis, impressis, denique urceolatis; ascis cylindricis, sessilibus; sporidiis distichis, ovalibus, fuscis, 20-24 \times 9-11. septis tribus transversalibus et uno longitudinali per loculos intermedios transeunte.

Hab. in caulibus Helianthemis Fumanæ in Hungaria (LOJKA).

2. *Pleospora Cistorum* Roll. Bull. Soc. Myc. 1898, p. 84, t. IX, f. 6. — Peritheciis epidermide velatis, nigris, gregariis, globoso-depressis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., ostiolo papillato erumpente, basi fibrillosis; ascis cylindræis, breve pedicellatis, 180-200 \times 12, octosporis; sporidiis oblongis, utrinque subattenuatis, medio plus minus constrictis, transverse 5-septatis parceque longitudinaliter, monostichis, hyalino-flavidis, dein brunneo-fuscis, 25-28 \times 8; paraphysibus filiformibus.

Hab. in ramis Cistorum pr. Corte, Corsica. — A *Pl. herbarum* sporidiis monostichis, a *Pl. vulgari* ascis sporidiisque majoribus recedere videtur.

3. *Pleospora nigricans* Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 9. — Peritheciis minutis, 120-150 μ . diam.: ascis ovato-obovatis 70-90 \times 35-45; sporidiis confertis, ellipticis v. oblongis, utrinque

rotundatis, 5-septatis, 4 cellulis mediis septo longitudinali divisis, non v. vix constrictis, brunneis, 35-40 \times 16-18.

Hab. in foliis dejectis *Gossypii* herbacei, Alabama Amer. bor.

4. *Pleospora olivacea* Mc Alp. Addit. to the Fungi on the vine in Austral. 1898, p. 45, fig. 63-71. — Peritheciis atro-nitidis, glabris, punctiformibus, sparsis; ascis clavatis v. tereti-oblongis, deorsum in stipitem basi nodulosum tenuatis, 80-100 \times 15-17, crasse tuni-
catis, 4-8-sporis; sporidiis piriformi-ovato-oblongis, utrinque obtusis, 5-septatis, longitrorsum parce divisis ad septa non constrictis, partim distichis, 17-22 \times 8-9,5. 2282

Hab. in cortice secedente *Vitis* pr. Melbourne Australiae

5. *Pleospora Luciae* Gen. de Lamarl. Rev. gén. de Bot. 1894, p. 222, fig. 34-35. — Peritheciis sparsis gregariisve, nigris, globuloso-depressis, vix papillatis; ascis cylindræis, 125-138 \times 11-12, octo-sporis, breve pedicellatis, paraphysatis; sporidiis oblique monostichis ovoideo-ellipsoideis, medio constrictis, utrinque rotundatis, 7-septatis muriformibusque, flavis dein olivaceo-brunneis, 17-21 \times 8. 2283

Hab. in ramulis siccis *Sarothamni scoparii*, in silva Fontainebleau Galliae. — A *P. Cytisi* sporidiis conspicue minoribus etc. diversa.

6. *Pleospora Hazslinszkyana* Sacc. et Syd. *Pleospora Dryadis* Hazsl. Math. es term. Közlem. XXV, 2 Budapest 1892, p. 156, tab. X, fig. 42, nec (Starb.) Sacc. — Peritheciis parvis, solitariis, hemisphærice emergentibus; ascis subglobosis, in basin conicam contractis, 8-sporis; sporidiis luteo-fuscis, oblongo-ovatis v. bicociformibus, septo crasso transversali medio et 4 tenuioribus donatis, loculis 4 mediis septo longitudinali percursis. 2284

Hab. in foliis siccis *Dryadis* octopetalæ in rupibus Tatræ

7. *Pleospora Allescheri* Sacc. et Syd. *Pleospora leptosphærioides* Allesch. in Allesch. et P. Hann. Pilze aus dem Umanakdistrikt 1897, p. 9, nec Sacc. — Peritheciis sparsis, innatis, dein erumpentibus, globoso-conicis, papillatis, atris; ascis clavato-cylindræis, breviter stipitatis, octosporis, ca. 70-90 \times 14-18; sporidiis subdistichis vel oblique monostichis, subfusiformibus (subclavatis), apice obtusis, deorsum magis attenuatis et obtuso-acutiusculis, medio subconstrictis, plerumque leniter curvulis, 6-8-septatis, cellulis nonnullis longitudinaliter divisis, ca. 24-30 \times 8-10, aureis, dein fusciscentibus. 2285

Hab. in caulibus siccis *Potentillæ niveæ* var. prostrata pr. Umanak Groenlandiæ (VANHÖFFEN).

8. *Pleospora Maireana* Lamb. et Fauts. Rev. Mycol. 1897, p. 142. 2286

— Peritheciis nudis, sparsis v. gregariis, basi hyphis nonnullis cinctis, majusculis, papillatis, depressis denique umbilicatis; ascis clavatis, interdum leniter curvulis, $90 \approx 14-20$, paraphysibus filiformibus obvallatis; sporidiis oblongis v. ovalibus, forma variantibus, octonis, rarius quaternis, e luteo brunneis, 5-7 transverse septatis, in longitudine uniseptatis, muriformibus, $22-26 \approx 10-12$.

Hab. in caulibus siccis *Laserpitii gallici* in Gallia.

9. **Pleospora utahensis** Ell. et Ev. Proc. Californ. Acad. V, 1895, 2287 p. 727. — Peritheciis sparsis, erumpenti-superficialibus, depressoglobosis, basi hyphis brevibus brunneis cinctis, demum apice collapsis, $150-250 \mu$ diam., ostiolo papilliformi; ascis oblongis, apice rotundatis, $75-90 \approx 20-23$, paraphysatis, octosporis, breviter pedicellatis; sporidiis confertis, biseriatis, oblongo-ellipticis, primo luteis, uniseptatis constrictisque, dein 3-septatis et denique circiter 7-septatis, muriformibus, brunneis, $20-23 \approx 14-16$.

Hab. in caulibus emortuis *Eupatorii occidentalis*, Utah, Amer. bor. — Differt a *P. richtophensi* peritheciis distinctius erumpentibus, sporidiis latioribus, a *P. alpestri* ascis octosporis, sporidiis angustioribus.

10. **Pleospora Artemisiæ** Pat. Enum. Champ. Tunisie 1892, p. 14. 2288 — Peritheciis in rimis epidermidis seriatim dispositis, superficialibus, glabris, nigris, nitentibus, $400-500 \mu$ diam., globulosis v. depressis; ostiolo obsoleto; ascis clavatis, $120 \approx 15-20$, octosporis; paraphysibus linearibus, simplicibus v. subramosis; sporidiis monostichis, luteo-olivaceis, $26-31 \approx 8-10$, transverse 6-septatis, 2-3 loculis mediis in longitudine uniseptatis, fusiformibus, utrinque acutis, ad septa constrictis, rectis v. curvulis.

Hab. in caulibus emortuis *Artemisiæ Herbæ-albæ* in Tunisia. — *P. lanceolate* affinis.

11. **Pleospora Abromeitiana** P. Henn. in Allescher et P. Hennings, 2289 Pilze aus dem Umanakdistrikt 1897, p. 9. — Peritheciis cauliculis, sparsis, primo tectis, dein erumpentibus, conico-subglobosis, atris; ascis clavatis, curvatis, breviter stipitatis, 8-sporis, $90-120 \approx 25-33$; sporidiis distichis vel subdistichis, oblongis vel subelavatis, 6-septatis, muriformibus, medio subconstrictis, utrinque rotundatis, $24-30 \approx 13-16$, melleis dein atrobrunneis.

Hab. in caulibus emortuis *Artemisiæ borealis* pr. Sermitdletfjord Groenlandiæ (v. DRYGALSKI).

12. **Pleospora Aloysiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 2290 ser. VIII, 1896, (Microm. III, p. 4) et Rev. Mycol. 1896, p. 158,

tab. CLXVI, fig. 6. — Peritheciis sparsis, subglobosis, epidermide tectis, prominulis, $\frac{1}{2}$ mm. diam., contextu fuligineo; ascis cylindraceo-clavatis, vix stipitatis, 60-150 \times 20-25, aparamphysatis; sporidiis distichis v. suboblique monostichis, initio oblongo-lanceolatis, 22-24 \times 6-7, hyalinis v. chlorinis, intus granulosi, continui v. 1-septatis, dein oblongo-ovoideis, 32-36 \times 14-18, utrinque obtusiusculis, 7-septato-muriformibus, ad septa leniter constrictis, loculis pluriguttulatis, lutescentibus.

Hab. in ramis emortuis *Aloysiæ citriodoræ* in horto botanico Senensi Italiæ. — Affinis *Pleosporæ herbarum*, sed differt præcipue defectu paraphysum.

13. *Pleospora coloradepsis* Ell. et Ev. Proc. Acad. Philad. 1895, 2291 p. 422. — Peritheciis sparsis, subcuticularibus, subglobosis, 200-230 μ . diam., contextu obscuro basi mycelii hyphis cincto; ostiolo papilliformi v. conico-papilliformi, epidermidem perforante; ascis oblongis, brevis stipitatis, 100-130 \times 25-30; paraphysibus plus minus distincte ramosis; sporidiis distichis, oblongis v. ovato-ellipticis, medio vix sed interdum distincte constrictis, luteo-brunneis, 6-8-septatis, dein clathrato-muriformibus, utrinque plerumque rotundatis obtusisque, 27-35 \times 12-15, leniter compressis.

Hab. in caulibus emortuis *Polemonii conferti*, Colorado, Amer. bor. (BAKER).

14. *Pleospora Xylostei* Fautr. Rev. Mycol. 1896, p. 70. — Peritheciis 2292 sparsis minutis epidermide tectis, dein erumpentibus, ostiolo minuto coronatis basi que fibrillosis; ascis late clavatis brevis sed distincte stipitatis, 100 \times 12-16, paraphysibus articulatis obvalatis; sporidiis supra in ascis oblique distichis, basi ascorum monostichis, apice obtusis basi que subacutatis, transverse 7-9-septatis, medio leniter constrictis, loculis plurimis in longitudine 1-septatis, 23-25 \times 8-10.

Hab. in ramulis *Loniceræ Xylostei* in Gallia.

15. *Pleospora Bardanæ* Niessl - Sacc. Syll. II, p. 242. — var. *Globulariæ* 2293 Pat. Enum. Champ. Tunisie, 1892, p. 14. — Peritheciis superficialibus; ostiolo conico, prominente; sporidiis transverse 3-septatis, 23 \times 10.

Hab. in caulibus emortuis *Globulariæ Alypi*, Tunisia

16. *Pleospora Limoniastri* Pat. Enum. Champ. Tunisie, 1892, p. 15. 2294 — Peritheciis sparsis, superficialibus, nigris, nitentibus. 300-400 μ . diam., subglobosis; ostiolo obsolete; ascis octosporis, p. sp. 100 μ . long.; sporidiis submonostichis, fuliginosis, transverse 3-raro 4-5-

septatis, in longitudine parum septatis, medio constrictis, ovalibus, utrinque rotundatis, 15-20 \approx 7-9.

Hab. in gallis Limoniastri monopetali, Monastir Tunisiae.

17. **Pleospora Grandallii** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 131. 2295

— Peritheciis sparsis semierumpentibus, obtuse conicis, 200 μ . diam., ostiolo papilliformi coronatis; ascis oblongis subsessilibus, stipite brevissimo noduloso, 75-80 \approx 20-22, indistincte paraphysatis; sporidiis confertis distichis oblongis v. leniter obovato-oblongis, 5-septatis, vix constrictis, 2 vel pluribus loculis septo longitudinali percursis, 20-22 \approx 10-12, utrinque obtuse rotundatis.

Hab. in caulibus emortuis Androsaces Chamæjasmes, Colorado Amer. bor. (GRANDALL).

18. **Pleospora aurea** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 2296

VIII. 1896, (Microm. III. p. 4) et Rev. Mycol. 1896, pag. 158. tab. CLXVI, fig. 5. — Peritheciis sparsis, erumpentibus, globulosis, nigris, pertusis, $\frac{2}{3}$ -1 mm. diam.; contextu fuligineo; ascis cylindraceis, basi breviter attenuatis 70-80 \approx 16-18, aparaphysatis; sporidiis ellipticis, plerumque inordinatis, initio continuis, hyalinis, granuloso-farctis, dein 3-septatis, ad septa non constrictis, loculo tertio longitudinaliter diviso, aureis, 16-20 \approx 7-8.

Hab. in ramulis Osyridis albæ in silvis pr. S. Giovanni d'Asso (Siena) Italiae.

19. **Pleospora Casaliana** Sacc. et Syd. *Pleospora Thymelææ* Cas. Mal- 2297

pighia 1897, p. 87, nec Pat. — Peritheciis late gregariis, coriaceis, basi fibrosis, 250-300 μ . diam.; ascis cylindraceis, paraphysatis; sporidiis distichis, 5-septatis, ad septa constrictis, flavis, 30 \approx 15.

Hab. in ramulis emortuis Thymelææ hirsutæ in Italia.

— Sporidiis distichis, brunneis latioribus, ad omnia septa constrictis a *P. Thymelææ* Pat. præcipue beneque distincta.

20. **Pleospora Thymelææ** Pat. Énam. Champ. Tunisie, 1892, p. 14. 2298

— Peritheciis 2-3-consociatis, demum erumpentibus, rotundatis v. depressis, $\frac{1}{2}$ mm. diam., nigris, opacis, basi fibrillis brunneis circumdatis; ostiolo elongato, erecto, cylindraceo, apice obtuso; ascis elongatis, cylindraceis, 150 \approx 15, octosporis; paraphysibus numerosis, hyalinis, linearibus, septatis; sporidiis monostichis, melleis, 22-28 \approx 8-9, demum brunneis, primo uniseptatis, dein 3 demumque 5-7-septatis, medio constrictis, utrinque attenuatis obtusisque, in longitudine parum septatis, loculis extremis semper simplicibus.

Hab. in cortice Thymelææ hirsutæ, Tunisia

21. **Pleospora luglandis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 279. 2299

— Peritheciis gregariis minutis, 400-500 μ . diam., intus albidis, cortice immersis ac epidermidem in pustulas numerosas minutas ostiolo minuto punctiformi perforatas elevantibus; ascis cylindraceis, 75-85 \times 10, breve stipitatis, octosporis, paraphysatis; sporidiis monostichis, oblongo-ellipticis, 3-rarius 5-septatis, loculis duobus mediis septo longitudinali divisus, vix constrictis, luteo-brunneis, 15-22 \times 8-10.

Hab. in ramis emortuis Juglandis nigrae, Kansas Amer. bor.

22. **Pleospora imperspicua** Pat. Cat. rais. pl. cell. Tunisie, 1897, 2300
p. 108. — Peritheciis sparsis, globosis, atris, poro impressis, glabris, minutis, 120-150 μ . latis, semiimmersis; ascis ventricosis, utrinque attenuatis, 60 \times 13-15, octosporis, aparamphysatis; sporidiis pallide brunneis, ovoideis, transverse 3-septatis, leniter constrictis, 1 vel 2 loculis mediis uno septulo longitudinali divisus, 10-13 \times 5.

Hab. in ligno denudato Pini halepensis in Tunisia.

23. **Pleospora sanseveriana** Delacr. Bull. Soc. Mycol. de France, 2301
XIII, p. 126, cum icone. — Peritheciis subepidermicis, nigris, erumpentibus, 160-180 μ . latis, poro circulari, 50 μ . diam.; mycelio e castaneo fuliginoso, septato, ramoso, sinuoso, intertexto, 5 μ . lato; ascis teretibus, summo rotundato, deorsum breve attenuatis, octosporis, pariete crassiore, 75 \times 16-18; sporidiis castaneo-brunneis, 3-4 transverse septatis, ad septum constrictis, septis transversalibus parvis, ovatis, 16-20 \times 6-7, in asco oblique monostichis, sæpius in parte inferiori confuse distichis; paraphysibus diffluentibus.

Hab. ad folia emortua Sanseveriaë, socia *Meliola amphitricha* Congo (DYBOWSKI).

24. **Pleospora Berlesii** Oud. Révis. des Champ. II, p. 345. — Peri- 2302
theciis foliicolis $\frac{1}{2}$ mm. diam., immersis, coriaceis, firmis. cello vix prominulo nigro donatis; ascis late clavatis, 180-190 \times 30, vix stipitatis erasseque tunicatis, octosporis, paraphysibus filiformibus obvallatis; sporidiis distichis oblongis v. fusoides, 50-60 \times 16-18, e melleo subfuliginosis, transverse 3-septatis longitudinaliterque 1-septatis, exacte rectis.

Hab. in foliis Acori Calami in Hollandia (DESFRÉE).

25. **Pleospora juncicola** Ell. et Ev. Proc. Acad. Philad. 1895, p. 422. 2303
— Peritheciis sparsis v. gregariis, depresso-globosis, 110-150 μ . diam., cuticula tectis, dein subemergentibus, ostiolo subpapilliformi, mox perforato; ascis oblongis, breve stipitatis, sursum late

rotundatis, obscure paraphysatis, 75-110 \times 25-30; sporidiis distichis, ellipticis, compressis, medio plerumque modice constrictis, 25-35 \times 15-18, e latere 10-12 μ . crassis, aureo-luteis, circiter 7-septatis, dense clathrato-muriformibus.

Hab. in calamis emortuis Junci baltici, Colorado, Amer. bor. (CRANDALL).

26. **Pleospora maritima** Rehm, Hedw. 1896, p. (149). — Peritheciis 2304
gregariis, immersis, glabris, papillula conoidea prominentibus, globosis, 400 μ . latis; ascis oblongo-clavatis, sessilibus, crassis, 180 \times 45, octosporis; sporidiis oblongis, obtusis, medio vix constrictis, transverse 4-8, perpendiculariter 2-3-septatis, flavidulis, 45-60 \times 21-25, distichis; paraphysibus conglutinatis.

Hab. ad folia pristina Triglochinis maritimi pr. Kaa-fjord, Alten maris artici Norvegici (LAGERHEIM). « Vix diversa a sequente ».

27. **Pleospora Dietziana** Hazsl. Math. es term. Közlem. XXV, 2, Bu- 2305
dapest 1892, p. 154, tab. X, fig. 40. — Peritheciis globoso-conicis, uniseriatis aterrimis; ascis a basi secedentibus, oblongo-cylindricis, circ. 200 μ . longis, 1-6-sporis, cavitate parva, dein sporidiis crescentibus ampliata; sporidiis luteo-fuscis, 50 \times 20, 5-7 septis transversalibus et tribus longitudinalibus loculos ultimos attingentibus; membrana ascorum tempore sporidiorum maturitatis adhuc 2 μ . crassa.

Hab. in scapis Triglochinis maritimi in Hungaria.

28. **Pleospora thurgoviana** Wegelin, Mitth. d. Thurgau. Naturf. Ges. 2306
XII, 1896, p. 9 extr. tab. III, fig. 10-11. — Peritheciis gregariis, initio matricis parenchymate omnino innatis, ostiolo subrotundo prominulo, demum pro parte superficialibus, ellipsoideis, minute papillatis, 300-500 μ . diam.; ascis clavatis, sessilibus, crasse tunicatis, 140-180 \times 24-28, paraphysibus numerosis filiformibus circiter 3 μ . crassis obvallatis; sporidiis octonis, sursum in asco oblique distichis, basi monostichis, clavato-ellipsoideis, utrinque rotundatis, unilateralibus, medio septatis, loculis 4 superioribus crassioribus, 7-septatis, loculis omnibus (extimo infero excepto) septo verticali percursis, aureo-brunneis, guttulis magnis v. minutis repletis, 35-40 \times 10-14, rarissime 26 \times 10.

Hab. in culmis Typhæ latifoliæ, Helvetia.

29. **Pleospora infectoria** Fckl. -Sacc. Syll. II, p. 265. — var. **Sacchari** 2307
Speg. Rev. Agr. y Veter. La Plata, 1896, p. 233. — Maculis nullis v. minutis indeterminatis vix pallescentibus; peritheciis sparsis

vel hinc inde laxe 2-5-aggregatis, amphigenis, parenchymate immersis, globosis, 150-160 μ . diam., ostiolo vix papillato epidermidem perforante ejusdemque superficiem attingente sed non exserto coronatis, membranaceo-coriacellis, contextu subpellucido parenchymatico fulgineo atro donatis; ascis cylindraceutis, antice rotundatis, postice breviter cuneato-pedicellatis, octosporis, apophysatis; sporidiis oblique mono- vel distichis, ellipsoideis, rectis v. subcymbæformibus, utrinque acutiuscule rotundatis, triseptatis, ad septum medium valde constrictis, ad cetera lenissime, loculis duobus centralibus sæpe septo altero tenuiore transversali divisis. loculo centrali infero, rarius supero etiam, septo longitudinali partito, olivaceis, loculis extimis pallidioribus, mucro destitutis.

Hab. ad folia languida, rarius in vaginis vetustioribus Sacchari officinarum, prov. Tucuman Argentina.

30. **Pleospora opaca** Wegelin, Mitth. d. Thurgau. Naturf. Ges. XII, 2308 1896. p. 9 extr. tab. III, fig. 12-13. — Peritheciis sparsis, immersis; ostiolo papillato conico, fulvo, opaco, prominulè donatis, globosis v. ellipsoideis, 400 μ . diam.; ascis cylindraceutis, interdum subclavatis, crasse tunicatis, vertice poro distincto præditis, sessilibus, 150-230 \times 30-34, paraphysibus numerosis filiformibus septatis circiter 4 μ . crassis obvallatis; sporidiis mono- v. distichis, ovoideis v. ellipsoideis, antice in apiculum contractis, postice rotundatis, medio modice constrictis, segmento supero longiore et crassiore, nigris, omnino impellucidis, transverse 7-septatis, in longitudine 1 v. 2 septis percursis, quoque loculo 1-guttatis, 39-47 \times 15-19 $\frac{1}{2}$.

Hab. in culmis siccis Phalaridis, Thurgau Helvetiæ.

31. **Pleospora Oligostachyæ** Ell. et Ev. Americ. Natur. 1897, p. 342. 2309 — Peritheciis sparsis, hemisphærico-prominulis, minutis, 200 μ ., nigris, ostiolo minuto papilliformi; ascis oblongo-cylindraceutis, breve stipitatis, 65-75 \times 12-14; paraphysibus numerosissimis; sporidiis distichis, oblongo-ellipticis, subinæquilateralibus, 3-septatis, vix constrictis, una cellula sæpe longitudinaliter septata, 14-17 \times 6-7.

Hab. in foliis Boutelouæ oligostachyæ in Kansas Americ. bor. (BARTHOLOMEW).

32. **Pleospora findens** Ell. et Ev. Americ. Natur. 1897, p. 342. — 2310 Peritheciis immersis, globosis, 150 μ . diam., erumpentibus, ostiolo conico-tuberculiformi; ascis cylindraceutis, breve stipitatis, 130-150 \times 12; paraphysibus nullis; sporidiis monostichis, oblongis, 5-septatis, plerumque 1 v. 2 cellulis longitudinaliter septatis, stramineis, 20-34 \times 3-5 (?).

Hab. in culmis emortuis *Andropogonis virginici* pr. Newfield Amer. bor. — Ad *Leptosphaerium* accedit sporidiis interdum haud longitudinaliter septatis.

PYRENOPHORA Fr. — Syll. II, p. 277, IX, p. 895, XI, p. 344.

1. *Pyrenophora delicatula* Vestergr. Jahreskatalog der Wiener Kryptog. Tauschanstalt, 1897, p. 3. — Peritheciis minutissimis, punctiformibus, sparsis, in lana foliorum insertis eaque tectis, 100-150 μ . in diam., membranaceis, nigris, poro apice pertusis, præcipue circa ostiolum setis rigidis, fuscis, septatis, usque ad 60 μ . longis, c. 3 μ . latis præditis, textura grosse parenchymatica, fuliginea; ascis oblongis, apice rotundatis, deorsum in stipitem brevem abruptis, 60-70 \times 13-14; paraphysibus filiformibus, ascos æquantibus vel parum superantibus; sporidiis octonis, distichis, oblongo-ovoides, utrinque rotundatis, inæquilateralibus, 3-septatis, ad septa constrictulis, loculis intermediis 1-2 septo longitudinali divisus, lutescentibus, 16-19 \times 6-7. 2311

Hab. in utraque pagina foliorum mortuorum *Cerastii tomentosii* in horto botanico Upsaliensi Sueciæ.

2. *Pyrenophora eximia* Rehm, Mitth. d. Thurgau. Naturf. Ges. XII, 1896, p. 13 extr. tab. III, fig. 14-15. — Peritheciis sparsis, initio immersis, vertice setulis brevibus instructis, ostiolo minuto, nigro, prominulo præditis, demum superficialibus, opaco-nigris, tenue tunicatis, 200-250 μ . diam.; ascis clavatis, apice rotundatis, sessilibus, 8-sporis, crassiuscule tunicatis, 75-100 \times 16-21, paraphysibus numerosis filiformibus 2-3 μ . crassis guttulis obvallatis; sporidiis initio clavatis, vertice rotundatis, postice valde attenuatis, demum fusoides, plerumque unilateralibus, transverse 7-9-septatis, in longitudine septo indistincto divisus, primo medio, dein ad omnia septa constrictis, aureo-brunneis, ætate olivaceis, 28-32 \times 9-11. 2312

Hab. in caulibus siccis *Artemisiæ campestris* et in vaginis *Astragali aristati*, Helvetia.

3. *Pyrenophora Lycii* (Hazsl.) Sacc. et Syd., *Pleospora Lycii* Hazsl. 1892, p. 162, t. XI, fig. 41. — Peritheciis giboso-conoideis, cono epidermidem perforantibus, aggregatis, circa ostiolum setis coronatis; ascis cylindricis, breviter stipitatis, paraphysibus filiformibus obvallatis; sporidiis monostichis, oblongo-fusiformibus, fuscis, transverse 5-septatis, in longitudine uno septo brevi divisus, primo guttatis, 26-30 \times 8, 2313

Hab. in ramis tenuissimis Lycii barbari in Hungaria.

4. **Pyrenophora Echinopsis** (Hazsl.) Sacc. et Syd., *Pleospora Echinopsis* 2314

Hazsl. Math. es term. Közlem. 1873, p. 47, tab. III, fig. a-g. — Peritheciis sparsis, sessilibus, hemisphaericis, tandem collapsis patelliformibus, carbonaceis, hirtis in mycelio atro-fusco torulaceo subepidermali; perithecii pilis rigidis, parum flexuosis, unicellulæribus, apice diaphanis; ostiolo vix conspicuo, nucleo ascis et paraphysibus farcto; ascis oblongo-linearibus, brevissime et abrupte stipitatis, 8-sporis, 100-120 \times 12-15; sporidiis ovatis rarius ovalibus aut oblongis, utrinque obtusissimis, tetrablastis, flavo-fuscis, mono-vel distichis, 16-20 \times 8-10.

Hab. in caulibus Verbasci phlomoidis in Hungaria.

MONTAGNULA Berl. Icon. fung. II, p. 68 (Etyim. a cl. C. MONTAGNE).

— Perithecia plerumque in pustulis foliorum tumidis solitaria vel stromate plus minusve evoluta immersa, gibbosa vel mutua pressione angulata, ostiolo minuto vix prominulo. Ascii clavati, longe stipitati, paraphysati, octospori. Sporidia fusioidea, medio constricta, transverse pluriseptata, muriformia, mucro obvoluta, colorata. — Est *Pleospora stromatica* ascisque longe stipitatis.

1. **Montagnula infernalis** (Niessl) Berl. l. c. p. 69, tab. XCIX, *Leptosphaeria infernalis* Niessl, Sacc. Syll. IX, p. 786, *Pleospora Pustula* Berl. et F. Sacc. Fg. Lusit. p. 5 in Rev. Myc. 1889, tab. LXXXIII, fig. 6.

2. **Montagnula gigantea** (Mont.) Berl. l. c. p. 69, tab. C.; *Sphaeria gigantea* Mont.; *Pleospora gigantea* Sacc. Syll. II. p. 272.

TEICHOSPORA Fuck — Syll. II, p. 290, IX, p. 899, XI, p. 345. 2315

1. **Teichospora nitida** Ell. et Ev. Proc. Acad. Philad. 1895, p. 419.

Peritheciis dense sparsis, ovato-globosis, 350-400 μ . diam. primo epidermide elevata et ostiolis nigris papilliformibus perforata tectis, dein superficialibus; ascis clavato-cylindræcis, paraphysatis, octosporis, 90-110 \times 11-13; sporidiis monostichis v. sursum in asco subdistichis, oblongo-ellipticis, obtuse punctatis, 3-5-septatis, cellulis pluribus v. omnibus in longitudine uniseptatis, 15-20 \times 8-10, pallidis, luteolo-brunneis, ad septa non v. vix constrictis.

Hab. in truncis emortuis Rubi deliciosi et villicai, Colorado (CRANDALL), Virginia (NUTTALL) Amer. bor.

2. **Teichospora infusoans** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2316 p. 459. — Peritheciis gregariis in pustulis elongatis, ligni super-

ficiem nigrificantibus, erumpenti-superficialibus, subhemisphæricis collapsis, cupuliformibus, 110-200 μ . diam., ostiolo distincto papilliformi ornatis; ascis clavato-cylindræis, breve stipitatis, paraphysatis; sporidiis distichis, angustis, oblongo-ellipticis, lenissime curvulis, deorsum attenuatis, 3-5-(raro 6-7)septatis, vix v. leniter constrictis, 1 vel pluribus cellulis septo longitudinali percursis, pallide flavo-brunneis, 18-22 \times 6-8.

Hab. in ligno vetusto gossypino, Kansas Amer. bor. (BARTHOLOMEW). — *T. pygmææ* affinis.

3 **Teichospora Opuntia** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 459. 2317

— Peritheciis superficialibus, sparsis v. gregariis, ovatis, minutis, $\frac{1}{4}$ mm. diam., minute asperulis, ostiolo papilliformi v. conico-papilliformi levi nigro excepto; ascis cylindræis, breve stipitatis, octosporis, 75-80 \times 9-10; sporidiis monostichis, obovato-ellipticis, 3-septatis, medio constrictis, 1 vel 2 loculis septo longitudinali percursis, brunneis, 12-14 \times 5 $\frac{1}{2}$ -6.

Hab. in caulibus Opuntia arborecentis, Colorado Amer. bor.

4. **Teichospora cruentula** Sacc. in Herb., Berl. Icon. fung. II, p. 49, 2318

t. LXIX, fig. 1. — Peritheciis gregariis macula vinoso-fusca, effusa insidentibus, basi ligno insculptis, globoso-conoideis v. parum depressis, tomento sanguineo-fuscidulo tectis, $\frac{1}{3}$ mm. diam.; ascis 90-100 \times 10-12; sporidiis ovoideo-oblongis, transverse 3-5-septatis, loculis 1-3 mediis septo longitudinali divisis, 17-20 \times 7-9.

Hab. in ligno exsiccato subputri Piri Mali pr. Upsala Sueciæ (ROMELL).

5. **Teichospora Diospyri** F. Tassi, Atti R. Acc. dei Fisicor. Siena 4 2319

ser. 1896 (Microm. III, p. 4) et Rev. Mycol. 1896, pag. 159, tab. CLXVII, fig. 1. — Peritheciis subsolitariis, superficialibus, globosis, nigris, rugulosis, circ. 1 mm diam., contextu fuligineo; ascis cylindræo-clavatis, octosporis, 150-200 \times 24-30; sporidiis oblique monostichis v. subdistichis, ovato-oblongis, subfusoides, initio cribrose guttulatis, dein 5-7-septatis, loculis 2-3-septulato-muriformibus, locellis plus minusve nucleoatis, 32-36 \times 14-16, fuliginis.

Hab. in cortice Diospyri virginianæ in horto monasterii Montis Oliveti, Siena Italiae. — *T. obducenti* Fckl. proxima.

6. **Teichospora strigosa** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 459. 2320

— Peritheciis superficialibus, gregariis, globosis, $\frac{1}{3}$ mm. diam., supra collabentibus, pilis brunneis circa basin præditis; ascis cy-

lindraceis, breve stipitatis, paraphysatis, 8-sporis, 100-110 \times 12-15; sporidiis subdistichis, oblongo-vel ovato-ellipticis, lutescentibus, 5-7-septatis, loculis plurimis septo longitudinali percursis, medio sæpe constrictis, 20-27 \times 11-13.

Hab. in ramulis emortuis *Symphoricarpi*, Colorado Amer. bor. — *T. crossatæ* affinis.

7. **Teichospora Nepetæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 127. 2321

— Peritheciis sparsis superficialibus depressis, 220-250 μ . diam., collapsis, ostiolo papilliformi distincto ornatis; ascis clavato-cylindraceis subsessilibus, deorsum gradatim attenuatis, 70-80 \times 12-15, paraphysibus firmis linearibus, 2-2 $\frac{1}{2}$ μ . crassis obvallatis; sporidiis distichis clavato-oblongis leniterque curvulis, 5-7-septatis, ad septum medium interdum profunde constrictis, 20-22 \times 6-7, rarius 25 \times 10, luteo-brunneis, 1 vel 2 loculis septo longitudinali divis.

Hab. in caulibus emortuis *Nepetæ Catarix*, Ontario, Canada (DEARNESS). — *T. Vitalbæ* valde affinis, sed peritheciis ascisque minoribus præcipue diversa species.

8. **Teichospora minima** Ell. et Ev. Proc. Acad. Philad. 1895, p. 419. 2322

— Peritheciis sparsis, minutis, 100-110 μ ., collabentibus, sublevibus, ostiolo papilliformi ornatis; ascis clavato-oblongis, breve stipitatis, 50 \times 12-14, p. sp. 40-46 μ , paraphysatis, octosporis; sporidiis conglobatis, distichis, ellipticis, circiter 5-septatis, ad septa non constrictis, 12-15 \times 7-8, olivaceis.

Hab. in ligno quercino, Kansas, Amer. bor. (BARTHOLOMEW). — *T. pygmææ* affinis, sed differt peritheciis minoribus collabentibus et ascis brevioribus.

9. **Teichospora lophidicides** Fautr. et Lamb. Rev. Mycol. 1897, p. 55. 2323

— Peritheciis superficialibus sparsis, nigris, crassis, carbonaceis, fragilibus, sphericis, ostiolis conicis plus minus longis demum deciduis; sporidiis subdistichis, ovalibus, oblongis, primo hyalinis, dein obscuris, et transverse et in longitudine multiseptatis, muriformibus, 45 \times 18.

Hab. in cortice *Populi fastigiatae* in Gallia. — *T. subocultæ* affinis.

10. **Teichospora populina** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 278. 2324

Peritheciis sparsis, semierumpentibus, subglobosis, circiter $\frac{1}{2}$ mm. diam., partim matricis fibris tectis, ostiolo papilliformi; ascis cylindraceis, subsessilibus, paraphysatis, 110-120 \times 8-10, octosporis; sporidiis monostichis, ovato-ellipticis, 3-5-septatis, ad septa constrictis, brunneis, 15-22 \times 7-8, cellulis internis septo longitudinali divis.

Hab. in ramis decorticatis Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW).

11. *Teichospora obducens* Fekl. — Sacc. Syll. II, p. 295. — *F. Laricis* 2325
Lamb. Rev. Mycol. 1897, p. 55. — Peritheciis superficialibus, applanatis, astomis; ascis cylindraceis, curvato-stipitatis; sporidiis monostichis, ex hyalino luteis, 3-5 transverse septatis, in longitudine l. v. 2-septatis, 13-21 × 9-10.

Hab. ad basin conorum Laricis in Gallia.

12. *Teichospora tenacella* (Fr.) Ellis, Proc. Acad. Philad. 1895, p. 25, 2326
Sphaeria tenacella Fr. S. M. II, pag. 492. Sacc. Syll. II, p. 421. — Peritheciis subseriatis, per rimas epidermidis longitudinales semierumpentibus, subglobosis, levibus, circiter $\frac{1}{3}$ mm. diam., demum apice collabentibus; ascis non visis; sporidii oblongis vel oblongo-ellipticis, biconneis, cellulis extremis pallidoribus, 3-5 (plerumque 3-) septatis, in longitudine plus minusve continue uniseptatis, 20-26 × 10-11. (Sporidia oblonga sunt ad septa constricta, sporidia autem oblongo-elliptica non constricta).

Hab. in ramis tenellis, Bethlehem, Amer. bor.

13. *Teichospora jungermannicola* Massal. Mem. dell'Acc. delle Sc. 2327
Med. e Nat. di Ferrara 5, Mac. 1895, fig. 1-3 (*Strickeria*). — Peritheciis minutis, sparsis, superficialibus, globosis, nigris, magnitudine variis, vulgo 120-210 μ . diam., inferne hyphas fuscas, septatas exserentibus; ostiolo punctiformi, sæpe indistincto; contextu peritheci membranaceo obscure celluloso; ascis oblongis 45-65 × 16-20, paraphysibus evanescentibus; sporidiis octonis ellipsoideo-fusiformibus, olivaceo-fuliginosis, 18-28 × 8-10, utrinque acutiusculis, 4-6-septatis, subconstrictis, loculis extremis indivisis, ceteris demum longitr. v. oblique 1-septatis.

Hab. in foliis vivis Jungermanniæ Flørkei var. collaris pr. Lugano, Valle Peccia (L. MARI).

PLEOSPHERIA Speg. — Syll. II, p. 304, IX, p. 910, XI, p. 347.

1. *Pleosphaeria quercina* Pat. Cat. rais. pl. cell. Tunisie 1897, p. 109; 2328
Explor. Tun. Illustr. bot. tab. III, fig. 9. — Peritheciis in ligno denudato superficialibus, sparsis v. gregariis, globosis, 160-250 μ . diam., ostiolo papillato, glabro ernatis, atris, coriaceo-membranaceis, contextu celluloso, atro-fuliginoso, setulis cylindraceis, acutis 40-50 × 3-4, atro-fuscis, opacis, erectis, non septatis, laxe vestitis, hyphis ropentibus, mollibus, fuliginosis, septatis, 4 μ . latis, instructis; ascis clavatis, breviter stipitatis, 50 × 20 (parte sporif.), indi-

stinete paraphysatis; sporidiis subdistichis, fusoides-ovatis, 4-5 transverse septatis constrictisque, loculis centralibus septo longitudinali donatis, griseo-fumosis, pellucidis, 16-18 \times 7-9.

Hab. in ligno *Quercus Mirbeckii* in Tunisia.

CUCURBITARIA Gray — Syll. II, p. 307, IX, p. 915, XI, p. 348.

1. **Cucurbitaria Ellisii** Sacc. et Syd., *Cucurbitaria Astragali* Ell. et 2329

Ev. Bull. Torr. Bot. Cl. 1897, p. 127. — Peritheciis gregariis v. confertis, erumpenti-superficialibus, globoso-hemisphæricis, minute asperatis, 500-650 μ . diam., superne denique collapsis, ostiolo nigro, conico-papilliformi; ascis clavato-cylindræis, stipitatis, paraphysatis, 85-100 \times 9-10; sporidiis monostichis, oblongo-fusoides, inferne subacutis, superne obtusis, 3-septatis, medio leniter constrictis, primo hyalinis, dein pallide flavis, vulgo 1-2 cellulis longitudinaliter septatis, 15-20 \times 6-8; stylosporibus oblongo-ellipticis, uniseptatis, vix constrictis, subhyalinis, 6-8 \times 3-3 $\frac{1}{2}$.

Hab. in caulibus emortuis *Astragali* spec. in Kansas Amer. bor. (BARTHOLOMEW).

2. **Cucurbitaria Retamæ** Pat. Enum. Champ. Tunisie 1892, p. 15, 2330

tab. II, fig. 8. — Peritheciis e corticis rimis erumpentibus, in cæspitulos nigros collectis, confertis, distinctis, globosis, nigris, sæpe depressis, ostiolatis, opacis, intus albis, basi fibrillis paucis brunneis cinctis; ascis clavatis, brevissime stipitatis, octosporis, 120-140 \times 15; paraphysibus linearibus, hyalinis; sporidiis monostichis, e luteo brunneis, transverse 3-septatis, ad septa constrictis, ovalibus, obtusis, loculis 2 mediis in longitudine septatis.

Hab. in caulibus *Retamæ Retam*, Tunisia.

3. **Cucurbitaria stenocarpa** Ell. et Ev. Proc. Acad. Philad. 1895, 2331

p. 420. — Peritheciis 2-6 consociatis, per rimas epidermidis longitudinales breves anguste ellipticas erumpentibus, subglobosis, 350-400 μ . diam., brunneolo-nigris, asperis, collabentibus, ostiolo minuto papilliformi; ascis cylindræis, breve stipitatis, 100-110 \times 8-10, paraphysatis, octosporis; sporidiis monostichis, oblongo-ellipticis, 3-5-septatis, medio plerumque constrictis, 1 vel pluribus cellulis in longitudine uniseptatis, ex hyalino demum pallide luteo-brunneis, 15-20 \times 6-8.

Hab. in ramis emortuis *Rhois diversilobæ*, California (Mc CLATCHIE).

4. **Cucurbitaria subcæspitosa** Otth, Bern. Mittheil. 1870, p. 103. — 2332

Peritheciis erumpentibus, solitariis v. sæpius paucis cæspitosis con-

crescentibus, subglobosis v. e mutua pressione difformibus, nigris, impolitis, ostiolo papillato, subacutato; ascis cylindricis, basi breviter attenuatis, octosporis; sporidiis monostichis, obliquis, fusco-fuligineis, subovatis, obtusissimis, ad septum medium constrictis, 5-7-septatis nonnullisque verticalibus, $22 \approx 8$; paraphysibus coalescentibus.

Hab. in ramis Sorbi Ariæ in Helvetia.

5. *Cucurbitaria minima* Ell. et Ev. Bull. Torr. Bot. Cl. 1897. p. 460. — 2333

Peritheciis subcæspitosis, 3-6-consociatis v. subseriatis, minutis, circiter $\frac{1}{2}$ mm. diam., ovato-conicis, sæpe rugosis; ostiolo papilliformi; ascis cylindræis, brevè stipitatis, paraphysatis, octosporis, 75-85 \approx 10-12; sporidiis excedentibus, monostichis, oblongis, 5-7-septatis, vix v. leniter constrictis, rectis, 18-20 \approx 6-7.

Hab. in caulibus emortuis *Artemisiæ tridentatæ*, Colorado Amer. bor.

6. *Cucurbitaria quercina* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 460. 2334

— Peritheciis gregariis v. subcæspitosis, ligno nudo insidentibus vel e corticis rimis erumpentibus, depresso-globosis, interdum ovato-globosis, 400-500 μ . diam., minute asperatis, circa ostiolum papilliforme subcollabentibus; ascis brevè stipitatis, cylindræis, paraphysatis, 8-sporis; sporidiis monostichis, ovato-ellipticis, 3-5-septatis, interdum medio constrictis, luteo-brunneis, 18-20 \approx 8-10.

Hab. in ramis emortuis *Quercus undulata*, Colorado Amer. bor.

7. *Cucurbitaria corylicola* Delacr. Bull. Soc. Mycol. de France XIII, 2335

1897, p. 125, tab. X, fig. I. — Peritheciis in cortice nidulantibus, congregatis, papilla præditis; ascis cylindræis, ad basim vix attenuatis, parte superiore rotundatis, 120 \approx 12 (parte sporifera); sporidiis fuscis, transverse 4-6-septatis, murale divisis, medio constrictis, ad septa non v. vix, in asco primum oblique monostichis, dein recte, circiter 20 \approx 9; paraphysibus primum densis, asco paullo longioribus, denique dilabentibus; mycelio brunneo, ramoso, septato, 4-6 μ . lato, ad basim peritheciorum effuso. Status spermogonicus *Cytosporam* sistens: stromatibus olivaceis, in 3-4 loculos longitudinales divisis, cum dissepimentis secundariis hyalinis; spermatis hyalinis, rectis, 4 \approx 1, sterigmatibus fascioulatis, acicularibus, 10-12 \approx 1 suffultis. Status pycnidicus e genere *Diplodia*: peritheciis nigris, collo prominente, crasso, 250 \approx 200; sporulis ovalibus, brunneo-castaneis, continuis, interdum maturitate uniseptatis, biguttatis, ad septa non constrictis, 17-27 \approx 8-12.

Hab. in cortice Coryli Avellanæ pr. Rigny-sur-Arroux (Saône et Loire) Galliæ. — *C. Cingaro* Schulz. et Sacc. proxima.

8. **Cucurbitaria Ephedræ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena, 2336
4 ser 1896, (Microm. III, p. 4) et Rev. Mycol. 1896, p. 159,
tab. CLXVII, fig. 2. — Peritheciis sparse cæspitosis, erumpentibus,
sphæroideis, 300-500 μ . diam., coriaceis, atris, pertusis; ascis cylin-
draceis, apice rotundatis, basi attenuato-stipitatis, 100-120 \times 14-16;
sporidiis ellipsoideo-oblongis, 20-23 \times 8-10, constanter 3-septatis,
loculis septulo longitudinali divisus, ad medium constrictis, fuli-
gineis; paraphysibus filiformibus, simplicibus ramosisve, gracilibus.

Hab. in radicibus Ephedræ andinæ in horto botanico Se-
nensi Italiae. — Affinis *C. Karstenii* Sacc. et *C. protractæ* Fekl.,
sed differt dimensionibus ascorum et sporidiorum quæ postrema
differunt etiam præcipue septulo longitudinali.

9. **Cucurbitaria Yuccæ** Cocconi, Mem. R. Acc. Bologna. 1896, p. 155, 2337
fig. 6-9. — Peritheciis globulosis sed valde depressis, 0,3-0,4 mm.
latis, in maculis albidis, sinuosis gregatim dispositis, basi pseudo-
stromate nigricante suffultis; ascis paraphysatis, tereti-clavatis,
apice rotundatis, octosporis; sporidiis ovoideis, triseptatis non con-
strictis septisque pluribus longitrorsum divisus, 26-29 \times 10-12,
flavo-brunneis.

Hab. in foliis Yuccæ, Messina Siciliae, socia *Diplodice* specie
(F. MORINI).

THYRIDIUM Sacc. — Syll. II, p. 323, IX, p. 920, XI, p. 348.

1. **Thyridium pallidum** Ell. et Ev. Proc. Acad. Philad. 1895, p. 424. 2338
— Peritheciis sparsis, depresso-globosis, circiter $\frac{1}{3}$ mm. diam.,
cortice interiore innatis, sordide albidis, epidermide ostiolo conico-
papilliformi succineo perforata haud elevata velatis; ascis cylin-
draceis, 110-130 \times 12, breve stipitatis, paraphysatis; sporidiis mo-
nostichis, oblongo-ellipticis, 8-septatis, medio constrictis, cellulis
plerumque in longitudine uniseptatis, luteo-brunneis, 20-22 \times 8-10.

Hab. in ramis emortuis Rhois glabræ, Kansas, Amer. bor.
(BARTHOLOMEW).

2. **Thyridium assercolorum** (Otth) Sacc. Hedw. 1896, p. XXXI, *Xy-* 2339
losphæria assercolorum Otth, Bern. Mittheil. 1870, p. 104. — Pe-
ritheciis gregariis immersis, globoso-subdepressis, sæpe in ligni
fibrarum directionem nonnihil oblongatis, collo brevi ostioloque
prominulo demum pero dilatato pervio; ascis magnis clavatis, pas-
sim cylindraceis breviter basi tenuatis, 8-sporis; sporidiis imbricatis

v. inordinatis, magnis, flavido-brunneis, ventricoso-fusoideis, obtusiusculis, inæquilateris, transverse et longit. pluriseptatis, medio subconstrictis, denique in cellulas innumeras divisas, 44-48 \times 16-19; paraphysibus filiformibus.

Hab. in ligno pineo (asserculis) pr. Bern, Helvetia.

FENESTELLA Tul. — Syll. II. p. 325, IX, p. 922, XI, p. 349.

1. **Fenestella Robiniæ** (Oth) Sacc. Hedw. 1896, p. XXXI, *Thyridium* 2340
Oth, Bern. Mittheil. 1870, p. 100. — Stromate corticali immerso, globoso-depresso, albido, contextu tenacello, basi ligno superne peridermio pustulato adnato; peritheciis orbiculatim digestis, sursum in collum productis, ostiolis in discum parvulum nigrum peridermii poro vix revelatum congestis, nucleo gelatinoso fusco; ascis cylindricis deorsum breviter attenuatis, octosporis; sporidiis monostichis obliquis, sæpe disjunctis, fusco-fuligineis, ellipsoideis, obtusissimis. 7-septatis muriformibusque, 22-28 \times 11-13; paraphysibus crassiusculis granulosis.

Hab. in ramis Robiniæ in Helvetia.

2. **Fenestella microspora** Delacr. Bull. Soc. Mycol. XIII, 1897, p. 124, 2341
tab. X, fig. H. — Stromate valseo immerso; peritheciis ostiolatis, vix papillatis, paulum compressis, circiter 300 \times 180; ascis parte inferiori attenuatis, summo rotundatis, 85 \times 9; sporidiis monostichis, olivaceo-brunneis, transverse triseptatis, septis longitudinalibus paucis, ad septa non constrictis, 10-11 \times 6-7, paraphysibus gracilescensibus.

Hab. in cortice Coryli Avellanæ pr. Rigny-sur-Arroux, Saône-et Loire Galliæ.

3. **Fenestella parvula** Berl. Icon. fung. II, p. 76, tab. CIX, fig. 1. 2342
— Stromate vix manifesto; peritheciis in acervulos valsiformibus, 1½-2 mm, diam., peridermium pustulatum elevatibus et corticem disco plano atro erumpentibus. 3-6 collectis, globoso-conoideis, plus minusve angulatis, ¼-⅓ mm. diam., ostiolis brevibus, crassiusculis discum vix perforantibus; ascis 140-145 \times 18-21: sporidiis elongato-covoideis v. fusoideis, inæquilateralibus, medio constrictis, transverse 9-13-septatis, loculis fere omnibus septis 1-2, raro 3, longitudinalibus divisas, 24-30 \times 9-10.

Hab. in ramis Betulæ albæ pr. Brünn Moraviæ (NISSL).

Sect. 9. Hyalodictyæ.

PLEOSPÆRULINA Pass. — Syll. XI, p. 350. Cfr. Berl. Ic. II, p. 98.

1. **Pleosphærulina hyalospora** (E. et Ev.) Berl. Icon. fung. II, p. 99, t. CXXXIV, fig. 3; *Pleospora hyalospora* et *Pl. americana* Ell. et Ev. ex parte (non *Pl. hyalospora* Speg.). — Peritheciis in parte folii ochraceo-lutescente subgregariis, epidermide tectis, lenticulari-globulosis, dein emersis, ostiolo obtusiusculo, $\frac{1}{5}$ mm. diam.; ascis 75-85 \approx 44-50, aparaphysatis; sporidiis oblongis vel subfuscoideis, utrinque obtuso-rotundatis, transverse 6-septatis, medio parum constrictis, loculis 1-2 mediis septo longitudinali divisus, 38-44 \approx 12-14, mucro obvolutis.

Hab. in foliis Lathyrì sativi in Amer. bor. (TRACY).

2. **Pleosphærulina californica** Berl. Icon. fung. II, p. 100, t. CXXXV, 2344 fig. 1. — Peritheciis sparsis, sublenticularibus, ostiolo minuto pertusis, epidermide tectis, $\frac{1}{4}$ mm. diam.; ascis 75-85 \approx 30-40, paraphysibus mox evanescentibus primo cinetis; sporidiis oblongo-fuscoideis, curvulis, utrinque attenuatis, transverse 6-8-septatis, ad medium parum, ad cetera septa minus constrictis, loculis 1-4 e mediis septo longitudinali divisus, 35-38 \approx 10-12.

Hab. in ramis emortuis Dendromeci rigidi, California (HARKNESS).

CATHARINIA Sacc. — Syll. II, p. 275, IX, p. 392, XI, p. 350.

1. **Catharinia Rubi** Oud. Révis. des Champ. II, p. 365. — Peritheciis 2345 epidermide tectis, sparsis, tantum collo papilliformi prominulis, 140 μ . diam., coriaceis sed flexilibus; ascis obovato-oblongis sessilibus, 46 \approx 21, apice incrassatis aparaphysatis; sporidiis imperfecte tristichis obovato-oblongis v. obovato-lanceolatis, 23-28 \approx 7-9, transverse 5-septatis longitudinaliterque septis duobus alteris percursis, hyalinis.

Hab. in sarmentis Rubi in Hollandia.

2. **Catharinia genisticola** Fautr. et Lamb. Rev. Mycol. 1897, p. 54. — 2346 Peritheciis mediocribus, gregariis, nigris, sphaericis, tectis, ostiolo conico-truncato erumpentibus; paraphysibus filiformibus. numerosis; ascis sessilibus, clavatis, 100-120 \approx 10-12; sporidiis sursum in ascis distichis, deorsum monostichis, fusiformibus, hyalinis, in

cumulo subliuteolis, muriformibus, transverse 5-septatis, ad septa constrictis, in longitudine uniseptatis, 25-28 \times 8-9.

Hab. in ramulis siccis Genistæ tinctoriæ in Gallia.

3. **Catharinia gregaria** Mc Alp. Addit. to the Fungi on the Vine 2347
in Austral. 1898, p. 45, fig. 64-67 — Peritheciis gregariis depressæ globulosis ovoideisque, innato-erumpentibus, nigris, minute papillatis, 130-150 \times 112-130; ascis elongato-clavatis, brevè stipitatis, fasciculatis, 8-sporis, 94-98 \times 19; paraphysibus tenuibus, sursum flexuosis; sporidiis oblongis subfusoidis, 4-septatis, loculis binis ternisve longitr. divisis, ad septa plerumque constrictis, 24-30 \times 7 $\frac{1}{2}$ -9, hyalinis.

Hab. in cortice secedente Vitis, pr. Melbourne Australiæ. — Diversa a *Cath. hyalospora*, æque viticola, sporidiis 4-septatis, peritheciis minoribus etc.

4. **Catharinia Valdobbæ** Sacc. Malpighia XI, 1897, p. 292. — Pe- 2348
ritheciis subgregariis, globoso-depressis v. ovato-depressis, peridermio innatis, dein partim erumpentibus, $\frac{1}{2}$ mm. diam., fuscis, ostio exiguo non prominulo; ascis cylindræis, brevè noduloso-stipitatis, apice obtusulis, 120-130 \times 10-11; paraphysibus filiformi-clavulatis; sporidiis octonis, oblongo-fusoidis, utrinque obtusulis, 30 \times 6-7, rectis curvulisve, typice 7-septatis muriformibusque, ad septa lenissime constrictis, hyalinis v. dilutissime flavidis.

Hab. in ramis siccis Loniceræ nigræ, Riva-Valdobbia, Italia bor. (CARSTIA).

WINTERIA Rehm — Syll. II, p. 225 ex parte; *Winterina* Sacc. ex parte, Syll. IX, p. 870. Cfr. supra pag. 589.

1. **Winteria aterrima** Hazsl. Math. es term. Közlem. XXV, 2, Bu- 2349
dapest, 1892, p. 72. tab. IV, fig. 10. — Peritheciis discretis, globosis mox patelliformibus; ascis cylindricis, 8-sporis; sporidiis uniseriatis, ovatis v. ovato-fusiformibus, 3-5 septis transversis et uno longitudinali divisis, 25-30 μ . longis.

Hab. in superficie cavitatis trunci salicini in Hungaria.

BOERLAGELLA Penz. et Sacc. Malpighia XI, 1897, p. 404. (Etym. a cl. botanico J. G. BOERLAGE). — Perithecia superficialia, globulosa, setosa, nigra, typice byssiseda. Asci elongati, octospori, paraphysati. Sporidia elongata, majuscula, pluriseptato-muriformia, hyalina. — Pulchellum genus, quasi *Neopeckia* v. *Acanthostigma* hyalodictyum.

1. **Bœrlagella velutina** Penz. et Sacc. l. c. — Subiculo late effuso, 2350
velutino, nigro, hyphis septatis, filiformibus, subsimplicibus; peritheciis superficialibus in subiculo sparsis et absconditis, globosis, tenuiter carbonaceis, 500-600 μ . diam., ostiolo obsolete, sétosis, setulis filiformibus, 210-250 \times 3-6, rectiusculis, septatis, crebris; ascis crasse tereti-clavatis, apice rotundatis, breve stipitatis, 200-250 \times 30-35, octosporis, filiformi-paraphysatis; sporidiis cylindraceo-fusoideis, leniter curvis, utrinque obtusulis, 25-30-septato-clathratis (septis v. nucleis valde approximatis), hyalinis, 90-120 \times 12-14, ad septa non constrictis.

Hab. in lignis putrescentibus, in petiolis *Plectocomiæ*, Java. — Peritheciis contextus parenchymaticus, ochraceo-fuscus.

2. **Bœrlagella laxa** Penz. et Sacc. l. c. p. 405. — Subiculo nullo v. 2351
obsolete; peritheciis laxe gregariis, superficialibus, globulosis, ostiolo obsolete, nigris, 0,5 mm. diam., longe pilosis, setulis filiformibus, septatis, fuliginis, subtortuosis; ascis tereti-clavatis, paraphysatis, 8-sporis, 120 \times 14-15 (immaturis); sporidiis distichis, teretiusculis, utrinque rotundatis, 60 \times 6-8, curvulis, 25-30-septato-muriformibus, hyalinis.

Hab. in culmis putridis in horto bot. Bogoriensi, Java.

Sect. 10. Scolecosporæ.

OPHIIGNOMONIA Sacc. — Syll. I, p. 419, subgen.

1. **Ophiognomonium Sacchari** Spég. Rev. Agr. y Veter. La Plata 1896, 2352
p. 231. — Maculis nullis v. arescenti-pallescentibus, indeterminatis; peritheciis amphigenis, globosis, minutis, 150 μ . diam., parenchymate immersis, sparsis v. laxe subseriatis, ostiolo papillato epidermidem perforante, quandoque brevissimo vix superficiem attingente, quandoque longiusculo exserto, 50-200 \times 40-50, sæpe globulo albo-mucedineo (ex sporis exsistentibus efformato) coronato donatis, coriacellis atris, contextu minute parenchymatico, inferne subopaco, circa ostiolum subpellucido; ascis clavulato-fusoideis, 110-120 \times 15, antice attenuatis apiceque subtruncato-rotundatis crassiusculeque tunicatis, postice breviter crasseque cuneato-pedicellatis, aparaphysatis, octosporis; sporidiis subfasciculatis e cylindraceo lenissime subclavulatis, antice obtusiusculis, postice acutiusculis, 70-80 \times 5, arcuatulis, continuis, plus minusve grosse guttulatis, hyalinis, levibus.

Hab. in foliis vaginisque languidis Sacchari officinarum prov. Tucuman, Argentina.

OPHIOBOLUS Riess — Syll. II, p. 337, IX, p. 923, XI, p. 351.

1. **Ophiobolus Hazslinszkyi** Sacc. et Syd. *Ophiobolus Hesperidis* Hazsl. 2353
 Math. es term. Közlem. XXV, 2 Budapest 1892. p. 168, tab. XI, fig. 45, nec Sacc. — Peritheciis majusculis, globosis, parum deplanatis, gregatim evolutis, rostro cylindrico decoratis; ascis cylindricis, angustis, pseudoparaphysibus ejusdem longitudinis mixtis; sporidiis luteo-fuscis, utrinque acuminatis, non septatis.

Hab. in caulibus *Hesperidis tristis* in Hungaria.

2. **Ophiobolus Ingæ** Allesch. Hedw. 1897, p. 235. — Peritheciis hypophyllis, gregariis v. sparsis, subglobosis, epidermide nigrificata tectis, erumpentibus, in maculis parvis, subfuscis; ascis clavato-cylindraceis, substipitatis, ca. 60-80 \times 10-12, octosporis; sporidiis filiformibus, ascorum fere longitudine, guttulatis, ex hyalino flavescensibus.

Hab. in foliis emortuis *Ingæ* spec. pr. Goyaz Brasiliæ (GLAZIOW) — Ad *Linosporam* vergit.

3. **Ophiobolus purpureus** Ell. et Ev. Proc. Acad. Philad. 1895, p. 424. 2355
 — Peritheciis gregariis, in partibus purpureo tinctis caulium innatis, ovato-globosis, circiter 250 μ . diam., epidermide nigrificata in pustulas elevata et ostiolo prominente papilliformi pertusa tectis; ascis clavato-cylindraceis, sessilibus, paraphysatis, obtusis, 80-100 \times 12-15; sporidiis confertis, elongato-fusoidis, modice curvulis, circiter 6-septatis, 50-65 \times 5-6, medio una cellula incrassata, luteo-brunneis.

Hab. in caulibus emortuis Umbelliferarum, Colorado, Amer. bor. — *O. porphyrogono* et *consimili* affinis, differt ascis sporidiisque latioribus.

4. **Ophiobolus acuminatus** Duby - Sacc. Syll. II, p. 340. — Var. minor F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 1896, et Rev. Mycol. 1896. p. 159, tab. CLXVII, fig. 4. — Ascis cylindraceis vel raro clavulatis, basi stipitatis, 100-120 \times 10, paraphysibus filiformibus obvallatis; sporidiis 50-80 \times 2-3, pluriseptatis, loculis 1-2-guttulatis, flavis, loculo penultimo incrassato.

Hab. in caulibus exsiccatis *Cirsii arvensis* ad Montem Olivetun (Siena) Italiae. — Differt a specie peritheciis, ascis et præcipue sporidiis minoribus.

5. **Ophiobolus Helianthi** Ell. et Ev. Proc. Acad. Philad. 1895, p. 423. 2356

— Peritheciis sparsis, erumpenti-superficialibus, ovato-globosis, circiter $\frac{1}{4}$ mm. diam.; ascis clavato-cylindræis, p. sp. 40 \approx 7-8, paraphysatis, octosporis; sporidiis fasciculatis, elongato-fusoideis, in asco brunneolis, liberis subhyalinis, 3-septatis, non constrictis, subrectis, circiter $40 \approx 3\frac{1}{2}$ -4.

Hab. in caulibus emortuis Helianthi Maximiliani, Kansas, Amer. bor. (BARTHOLOMEW).

6. **Ophiobolus leptosphærioides** Sacc. et Paol. Syll. IX, p. 935. — 2358

Var. **Leucanthemi** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. XXXVI, 1897, 2 part. p. 14, tab. A, fig. 17. — Peritheciis globosis, nigris, $\frac{1}{5}$ - $\frac{1}{4}$ mm., epidermide tectis, ostiolo brevi papillato; ascis clavatis, paraphysibus longioribus, apice late rotundatis, deorsum in stipitem attenuatis, 8-sporis, 90-105 \approx 15-18; sporidiis fasciculatis, luteolis, cylindrico-vermiformibus, deorsum angustioribus, 12-14-septatis, ad septa vix v. non constrictis, aliquando in tertia parte superiore uno loculo paulo protuberante, 75-85 \approx 4.

Hab. in caulibus emortuis Leucanthemi vulgaris pr Liège Belgii.

7. **Ophiobolus herbarum** (Otth) Sacc. Hedw. 1896, p. XXXI, *Rhaphi-* 2359

dophora herbarum Otth, Bern. Mittheil. 1868, p. 55. — Peritheciis globoso-depressis, basi applanatis adnatis, primum epidermide tectis, ostiolo erumpente subcylindrico, demum epidermide secedente denudatis; ascis longissimis teretibus, dilute fuscidulis, octosporis; sporidiis filiformibus asco paulo brevioribus, fasciculis, demum e parte superiore dissilientibus, basi fixis, subtiliter multiseptatis.

Hab. in caulibus Galii Molluginis et Isatidis tinctoriæ in Helvetia.

8. **Ophiobolus carnathicus** Hazsl. Math. es term. Közlem. XXV, 2, 2360

Budapest, 1892, p. 166, tab. XI, fig. 46. — Peritheciis globosis, ostiolo papilliformi ex substrato fere totaliter emergentibus, nigris, nitidis; ascis cylindræis, in stipitem brevem attenuatis, 12-14 μ . crassis; sporidiis linearibus, guttulis globosis in seriem moniliformem per totum sporidium associatis fartis, demum loculatis, loculis æqualibus.

Hab. in caulibus Pedicularis Hacquetii in Carpathis centralibus Hungariæ.

9. **Ophiobolus stromaticus** Hazsl. Math. es term. Közlem. XXV, 2, 2361

Budapest, 1892, p. 165, tab. XI, fig. 47. — Peritheciis emergentibus, apicibus vel solummodo rostris ex pseudostromate a mycelio latitante denso, nigrescente formato; rostrorum longitudine

vel totum vel medium diametrum peritheciæ æquante; ascis cylindricis, deorsum æqualiter decrescentibus; sporidiis linearibus, primum sporidiolis instructis, demum septatis in fasciculum junctis.

Hab. in caulibus Polygoni Persicariæ in Hungaria.

10. **Ophiobolus elegans** Jacz. Bull. Soc. Imp. des Natural. de Moscou. 2362
1896, n. 1, p. 71. — Peritheciis emergentibus, sparsis, nigris, glabris, ostiolo conico, diametrum peritheciæ æquante v. longiore; ascis cylindraceis, 10 μ . latis; paraphysibus filiformibus, simplicibus; sporidiis vermicularibus, sinuatis, chlorinis, 110-120 \times 3,7, pluriguttulatis, dein in articulos 7 $\frac{1}{2}$ -12 μ . long. dilabentibus.

Hab. in foliis putridis Populi tremulæ, Smolensk Rossia.

11. **Ophiobolus javanicus** Penz. et Sacc. Malpighia XI, 1897, p. 406. 2363
— Peritheciis hinc inde breviter seriatis, globoso-depressis, innatis, 0,5 \times 0,2 mm., nigris, glabris, ostiolo longiusculo, sed matricem inflatulam vix punctiformi-perforante; ascis clavulatis, breve stipitatis, apice rotundatis, 45-50 \times 7-8, octosporis; paraphysibus filiformibus tortuosis; sporidiis bacillaribus, curvulis, utrinque obtusis, 42-45 \times 1 $\frac{1}{2}$ -2, hyalinis, 5-6-nucleatis.

Hab. in culmis emortuis Bambusæ, in horto bot. Bogoriensi, Java. — Forma et magnitudine peritheciæ, ascorum et sporidiorum ab affinis *O. Andropogonis* et *O. CEdemate* satis differt.

OPHIOCHÆTA Sacc. — Syll. II, p. 352, ut subg. (1883); IX, p. 934, XI, p. 352.

1. **Ophiochæta Raciborskii** Penz. et Sacc. Malpighia, XI, 1897, p. 406. 2364
Peritheciis gregariis, superficialibus, globosis, nigris, 250 μ . diam., apice obtusis, setulosis, setulis aërrimis, brevibus, acutis, 30-40 \times 4; ascis cylindraceis, breve stipitatis, apice rotundatis, filiformi-paraphysatis, 130-150 \times 9-10, octosporis; sporidiis bacillaribus, curvulis, crebre multiseptato-guttulatis, hyalinis, utrinque obtusulis, 60-70 \times 3.

Hab. in lignis putridis, Java. — *Oph. gracili* et *O. helminthosporæ* affinis, sed notis nonnullis satis deflectens.

OPHIOCERAS Sacc. — Syll. II, p. 358, IX, p. 938, XI, p. 353.

1. **Ophioceras majusculum** Penz. et Sacc. Malpighia, XI, 1897, p. 409. 2365
— Peritheciis hinc inde gregariis, superficialibus, perfecte sphæricis, carbonaceis, nigris, glabris, 0,7 mm. diam., ostiolis bacillari-cylindraceis, rectis curvulisve, 1,5 mm. long.; ascis (jam resorptis);

sporidiis filiformi-bacillaribus, utrinque obtusulis, $90-100 \times 2-2\frac{1}{2}$, curvulis, multinucleatis, hyalinis.

Hab. in ramis corticatis putridis, Tjibodas, Java.

2. **Ophioceras Hystrix** (Ces.) Sacc. Syll. II, p. 359. --- ***O. tjibodense** 2366
 Penz. et Sacc. Malpighia XI, 1897, p. 409. — A typo differt peritheciis glabris, levibus nec pulverulentis, $0,5$ mm. diam. ostiolo $700-1000 \times 100$; ascis longiuseulis, apice 2-foveolatis, $85-90 \times 9-10$; sporidiis utrinque obtusulis, $48-60 \times 4-5$, deorsum leniter attenuatis, $12-15$ -cuboideo-nucleatis v. granulosis, hyalinis.

Hab. in lignis putridis, Tjibodas, Java.

BACTROSPHÆRIA Penz. et Sacc. Malpighia XI, 1897, p. 407 (Etym. *bactron* baculus et *sphæria*, ob formam cylindraceam perithecii et sporidiorum). — Peritheciâ superficialia, verticaliter elongato-cylindracea, sursum angulosa, verruculosa, membranaceo-carbonacea, nigra, ostiolo sulcato-radiato. Asci cylindranei aparaphysati, octospori. Sporidia bacillaria, pluriseptata, subhyalina, ascum subæquantia. — A gen. *Cylindrina* Pat. differt peritheciis longitrossum rugoso-sulcatis, ostiolo sulcato-radiato etc.

1. **Bactrosphæria asterostoma** Penz. et Sacc. l. c. — Peritheciis late 2367
 gregariis, tereti-oblongis, basi leniter coarctatis; hyphis mycelicis repentibus, subcontinuis, ramoso-anastomosantibus, pallidis, tenuibus, $3-4 \mu$. cr. cinctis, 400×160 , sursum $4-6$ -sulcatis parceque verrucosis, nigris, intus cavis; ostiolo distincte radiatim $4-6$ -sulcato; ascis crasse cylindraceutis, subsessilibus, apice rotundatis, $120-180 \times 20-24$ vel $200 \times 16-18$, aparaphysatis, 8-sporis; sporidiis parallelis, bacillaribus, leniter curvis, utrinque obtusulis, $24-30$ -septatis, non constrictis, $120-140 \times 5\frac{1}{2}-7$. loculis cuboideo-nucleatis, hyalinis.

Hab. in cortice emortuo *Elettariæ*, Tjibodas, Java. — Inter perithecia sæpe nascuntur hyphæ filiformes flexuosæ, septatæ, $200-300 \times 5-6$, subsimplices, fuliginæ, conidiis obovatis, 1-septatis, $20-22 \times 9$, non constrictis intermixtæ, *Cladotrichi* speciem sistentes: an *Bactrosphæria* status conidiophorus?

DILOPHIA Sacc. — Syll. II, p. 357, IX, p. 937.

1. **Dilophia Magnoliæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 131. 2368
 — Peritheciis $3-6$ circinatim aggregatis, cortice insidentibus, ovato-globosis, membranaceis, $\frac{1}{2}-\frac{3}{4}$ mm. diam.; ostiolis breve cylindraceutis, subsulcato-rimosis v. levibus, in fasciculum prominulum

erumpentibus; ascis clavato-cylindræcis, brevo stipitatis, 90-110 \times 8-10; paraphysibus inconspicuis v nullis; sporidiis distichis, oblongo-fusoideis, hyalinis, demum 1-septatis, 20-23 \times 5-6, leniter curvulis, appendicula gracili hyalina setiformi, 15-30 μ . longa utrinque coronatis; stylosporibus in peritheciis sparsis ovato-conicis erumpentibus insidentibus, 14-16 \times 4-5, nulla appendicula donatis.

Hab. in truncis Magnoliæ Fraseri, W. Virginia Amer. bor. (NUTTALL).

LINOSPORA Fuck. — Syll. II, p. 354, IX, p. 935. XI, p. 352.

1. **Linospora capillaris** Penz. et Sacc. Malpighia XI, 1897, p. 409. 2369
 — Peritheciis amphigenis, gregariis, innatis, globulosis, 0,3 mm. diam., clypeo stromatico foliaceo atro-nitido, suborbicuari, 0,5 mm. lato, ostiolo capillari, nigro, glabro, 1 mm. longo, rectiusculo, facile deciduo; ascis cylindræcis, apice rotundatis, subsessilibus, per basim dehiscentibus, 60 \times 6, octosporis, aparaphysatis; sporidiis bacillaribus, curvulis, 45-50 \times 1 $\frac{1}{2}$ -2, utrinque obtusulis, multiguttulatis, hyalinis.

Hab. in foliis coriaceis emortuis, Tjibodas, Java.

CEUTHOCARPON Karst. em. — Syll. II, p. 357.

1. **Ceuthocarpon tjibodense** Penz. et Sacc. Malpighia XI, 1897, p. 405. 2370
 — Maculis vagis expallentibus; peritheciis amphigenis, innatis, globoso depressis, nigris, 0,3 mm. latis, ostiolo obsoleto; ascis cylindræcis, apice rotundatis, subsessilibus, copiose filiformi-paraphysatis, 100-120 \times 6-7, octosporis; sporidiis parallelis, filiformibus, 100 \times 2, utrinque obtusulis, 6-8-nucleato-pseudoseptatis, hyalinis.

Hab. in foliis emortuis Elettariæ. Tjibodas, Java. — Perithecia per epidermidem translucidam conspiciuntur.

2. **Ceuthocarpon depokense** Penz. et Sacc. Malpighia XI, 1897, p. 405. 2371
 — Maculis angulosis v. circularibus, pallidis; peritheciis sparsis, innatis, depresso-globosis, nigris, 200 \times 150, ostiolo obsoleto, cuticula diaphana rimose fissa tectis; ascis cylindræcis, apice rotundatis, brevissime stipitatis, aparaphysatis (?), octosporis, 65-70 \times 4 $\frac{1}{2}$ -5; sporidiis filiformibus, 50 \times 1 $\frac{1}{2}$, continuis, hyalinis.

Hab. in foliis coriaceis morientibus, Depok, Java. — Differt ab affini *C. ferrugineo* peritheciis in quaque macula pluribus, nec singulis.

ACERBIA Sacc. — Syll. XI, p. 353.

1. **Acerbia culmigena** Penz. et Sacc. Malpighia, XI, 1897, p. 405. — 2372

Peritheciis gregariis, e basi subconvexa insculpta subsuperficialibus glabris, conoideis, carbonaceis, nigris, 0.7 mm. diam., ostiolo brevi acuto; ascis cylindraceutis, apice rotundatis, 150-160 \times 9-10, breve stipitatis, 8-sporis, aparaphysatis (?); sporidiis bacillaribus, utrinque obtusis, creberrime guttulatis, 95-100 \times 3, rectis curvulisve, hyalinis.

Hab. in culmis emortuis Bambusæ, Tjibodas, Java. — Genus *Acerbia* erostre ab *Ophiocerate* rostrato distingui meretur.

LEPTOSPORELLA Penz. et Sacc. Malpighia XI, 1897, p. 406 (Etym.

a. *Leptospora*, cui affinis). — Perithecia superficialia, carbonacea, globosa, papillata, atra, glabra. Asci elongati, octospori. Sporidia cylindrico-vermicularia, genuine v. spurie pluri-septata, hyalina, — A gen. *Leptospora* et *Lasiosphaeria* peritheciis omnino calvis imprimis recedit; ab *Acerbia* peritheciis omnino superficialibus, habitu etc.

1. **Leptosorella gregaria** Penz. et Sacc. l. c. p. 407. — Peritheciis 2373

in ligno atrato superficialibus, dense gregariis, globosis, atro-nigris, 0,8-1 mm. diam., exquisite acute papillatis, carbonaceis; ascis clavatis, apice rotundatis, breve stipitatis, 100 \times 9-10, octosporis, aparaphysibus filiformibus copiosis; sporidiis bacillaribus, deorsum curvis, 55-70 \times 2 $\frac{1}{2}$ -3, utrinque obtusis, initio varie guttulatis, dein 7-septatis, hyalinis.

Hab. in ligno putri, Tjibodas, Java.

2. **Leptosorella sparsa** Penz. et Sacc. l. c. p. 407. — Peritheciis in 2374

ligno nigrificato sparsis, superficialibus, globoso-conicis, carbonaceis, nigris, 0,3 mm. diam., papillatis, glabris; ascis tereti-fusoideis, deorsum acutatis, initio sub apice leniter coarctatis, 90-120 \times 9-12, aparaphysatis (?), octosporis; sporidiis cylindraceutis, sursum incurvatis, utrinque obtusulis, 30-35 \times 3, plasmate inæqualiter partito, hyalinis.

Hab. in lignis putrescentibus, Java.

VIALÆA Sacc. Bull. Soc. Myc. de Fr. 1896, p. 66. (Etym. a PETRO

VIALA, eximio *Vitis* morborum monographo atque mycologo). — Stroma valseum, pustulatum, corticale. Perithecia in quoque stromate plura, ostiolis breviusculis, vix convergentibus, disco minuto circulari epidermide velato. Asci 8-spori, elongati, aparaphysati; sporidia praelonga, bifusoidea, utrinque acuta, medio angustata, 1-

septata, hyalina. Sporidiorum forma omnino peculiari genus prædistinctum.

1. **Vialæa insculpta** (Fr.? Oudem.!) Sacc. Bull. Soc. Myc. de Fr. 1896, 2375 p. 67, tab. V, fig. 10. *Sphæria insculpta* Fr. Elench. II, p. 95 (?), Oudem. Mat. Mycol. Neerl. II, 1874, p. 63, tab. VI, fig. 9! *Zignoella? insculpta* (Fr.) Sacc. Syll. II, p. 225. — Stromatibus laxè gregariis, pustulatis, epidermide tumidula velatis, 2 mm. diam., intus flavidulis; peritheciis subdistichis, sat numerosis, globoso-depressis, $\frac{1}{4}$ mm. diam., intus albidis, subinde subsparsis, collis brevè cylindræcis vix convergentibus, ostiolis obtusis, vix erumpentibus; ascis cylindræcis, $180 \approx 15$, apice rotundatis, brevè stipitatis, paraphysatis, 8-sporis; sporidiis distichis, curvulis, elongato-bifusoidis, $75 \approx 6$, utrinque attenuatis medio angustatis, 1-septatis, hyalinis, fæctis.

Hab. in ramis emortuis Ilicis Aquifolii, Rigny Gallia (FLAGEOLET), in Neerlandia (OUDEMANS), in Italia bor. (CARESTIA).

WINTERELLA Sacc. — Syll. II, p. 364, subgen. (1883), nec Berl. 1891 (= *Winterino*).

1. **Winterella eutypoides** Penz. et Sacc. Malpighia 1897, p. 504. — 2376 Longè et late effusa, maculas varias e fusco nigricantes in matricis superficie æquali efformans; peritheciis omnino immersis, globulosis, 0,3-0,5 mm. diam., tenui-membranæcis, ostiolis apice dilatato-conoideis, breviter emergentibus et matricem punctato-scabridam efficientibus; ascis cylindræcis, apice initio acutato-truncatis, 100-120 \approx 9-12, paraphysibus filiformibus, guttulatis obvallatis, octosporis; sporidiis parallele fasciculatis, bacillaribus, rectis curvulisve, utrinque rotundatis, 80-100 \approx 2,5-3,5, plasmate in cylindros 12-14-partito v. 20-30-guttulato, hyalinis.

Hab. in stipitibus emortuis Plectocomiæ elongatæ et Acromomiæ sclerocarpæ, Tjibodas, ins. Java. — Ad genus *Winterella* Sacc. (Syll. II, p. 364, ut subg.), quod ut *Eutypa* scolecospora habenda est, ad diem pertinent: *W. anthostomoides* (Rehm) Sacc. Sylloge fung. II, p. 364 (*Cryptospora*); *W. diaporthoides* Sacc. et Pæol. Syll. fung. IX, p. 938 (*Ophioceras*), et præsens *W. eutypoides* Penz. et Sacc.

MAURYA Pat. Bull. Soc. Mycol. Fr. 1898, p. 56, t. VII, fig. VI. (Etym. a cl. PAULO MAURY fung. collect.). — Stroma superficiale, effusum, magnum, crassum, determinatum, carbonaceo-coriaceum,

atrum, nudum. Perithecia immersa, monosticha, atra, ostioliis papilliformibus. Asci fusoides, octospori, paraphysati. Sporidia linearia, transverse septata, fuligineo-olivacea. — Est *Hypoxyton* scolecosporum.

1. *Maurya hypoxyloidea* Pat. l. c. — Stromate 3-5 cm. lat. repando-lobato, rugoso-tuberculoso, inferne appanato laxe adnato, atropaco, supra minute papillato, margine obtuso, recto v. inflexo, contextu atro coriaceo-carbonaceo; peritheciis distantibus, ovoideis, 440 × 300; ascis 140 × 10-15, diffluentibus; paraphysibus ramulosis, brunneo-guttulatis, mucosis; sporidiis linearibus parallelis, rectis v. curvatis, utrinque obtusiusculis, 110 × 4-6, fuligineo-olivaceis, guttulatis, transverse 5-7-septatis.

Hab. in truncis in Mexico (P. MAURY).

Fam. 3. Hypocreaceæ De Not.

Sect. 1. Hyalosporæ.

HYPONECTRIA Sacc. — Syll. II, p. 455, XI, p. 354.

1. *Hyponectria Raciborskii* Penz. et Sacc. Malpighia 1897, p. 508. — Peritheciis in *Physari* sporangiis immersis, globulosis, perexiguis, 80-90 μ ., diam., ostiolo?; contextu pertenui, minute celluloso, pallide flavido; ascis cylindræis subsessilibus, aparaphysatis, apice rotundatis, 35-45 × 3,5-4, octosporis; sporidiis oblique monostichis, oblongo-ellipsoideis, 6,5-7,5 × 3, biguttulatis, hyalinis.

Hab. in sporangiis *Physari didermoidis* Rost. immersa, Tjibodas in Java. — A *Nectria Rexiana* Eil., in *Chondriodermate* quodam parasitica, omnino recedit peritheciis multo minoribus, non villosis etc.

NECTRIELLA Sacc. — Syll. II, p. 448, IX, p. 941, XI, 354.

1. *Nectriella tracheiphila* E. F. Smith, Proc. Amer. Assoc. Advanc. of Sc. 1896, vol. XLIV, p. 190. (Diagnosis nulla).

Hab. in *Vigna sinensi*, *Brassica*, *Citrullo*, *Gossypio* etc. in Amer. bor. — Ambigua species, teste auctore, ad *Melanosporam* nutat. Cum *Fusarii* specie metagenetice juncta est.

2. *Nectriella aurantia* Penz. et Sacc. Malpighia XI, 1897, p. 506. — Peritheciis hinc inde densiuscule gregariis, in subiculo byssino albo parco superficialiter insidentibus, globulosis, pallide aurantiis,

100-120 μ . diam., ostiolo punctiformi; ascis fusoido-clavatis, 30-35 \times 8, breve stipitatis, apicè obtusulis, octosporis, paraphysibus obsoletis; sporidiis oblongo-ellipsoideis, rectis, utrinque obtusulis, distichis, 8-9 \times 3, hyalinis, 4-guttulatis.

Hab. in ramulis siccis, Tjibodas, ins. Java. — Subaffinis *R. Resinæ*.

3. **Nectriella farinosa** P. Henn. Hedw. 1897, p. 219. — Peritheciis 2331
 aggregatis, interdum singularibus, sphaeroideis, ca. 150-200 μ ., flavis, dense pulverulento-granulosis vel farinaceis, granulis subglobosis vel oblongis, aoutangulis, 25-50 μ . diametro tectis; ascis clavatis, stipitatis, apice obtuso-rotundatis; sporidiis oblongo-cylindraceis, continuis, utrinque obtusis, intus 3-guttulatis. 12-15 \times 3 $\frac{1}{2}$ -4.

Hab. in ligno pr. Blumenau Brasiliæ (MÖLLER) — *Nectriella Mølleri* P. Henn. affinis.

4. **Nectriella Mølleri** P. Henn. Hedw. 1897, p. 219. — Peritheciis 2332
 gregariis, striformibus, corticem erumpentibus, obovoideis, dein depresso-subcupuliformibus, 100-150 μ . diam., pulverulentis, flavis; ascis clavatis, stipitatis, vertice obtuso-rotundatis, 35-55 \times 5-7; sporidiis subcylindraceis, oblongis, continuis, utrinque obtusis, sæpe inæquilateralibus, monostichis vel subdistichis, intus granulosis, 9-12 \times 3-4.

Hab. in corticibus arborum pr. Blumenau Brasiliæ (MÖLLER).

5. **Nectriella miniata** P. Henn. Hedw. 1897, p. 219. — Peritheciis 2333
 superficialibus, aggregatis, minutis, obovatis vel subpiriformibus, levibus, apice papillatis, flavo-miniatis; ascis clavatis, substipitatis, apice obtusis, 8-sporis, 50-60 μ . longis, p. sporif. 30-40 μ . longis, 4-6 μ . crassis; sporidiis oblique monostichis vel distichis, oblongis, utrinque obtusis, continuis, hyalinis, 7-8 \times 3 $\frac{1}{2}$ -4 intus 2-guttulatis.

Hab. ad cortices arborum pr. Blumenau Brasiliæ (MÖLLER).

6. **Nectriella pallidula** Penz. et Sacc. Malpighia XI, 1897, p. 507. 2334
 — Peritheciis hinc inde in soros minutos, 1-1,3 mm. diam., congestis, in *Melchioria* plerumque parasiticis, globulosis, albedo-melleis v. rubido-melleis, 100-130 μ . diam., vix papillatis, contextu tenui, pallide rufo-ochraceo, diaphano; ascis cylindraceis, breviter stipitatis, apice obtusis, parce paraphysatis, octosporis, 36-42 \times 5-6; sporidiis distichis v. oblique monostichis, ovato-fusoides, inæquilateris, 6,5-7,5 \times 2,5-3, hyalinis, minute guttulatis.

Hab. in peritheciis et prope perithecia *Melchioria* in caulibus *Elettaria*, Tjibodas, ins. Java.

7. **Nectriella rufo-fusca** Penz. et Sacc. *Malpighia* XI, 1897, p. 507. 2385

— Peritheciis gregariis, superficialibus, 200-250 μ . diam., rufo-fuscis, demum atratis et subcollabascensibus, ostiolo punctiformi, vix papillato; ascis tereti-clavulatis, 33 \times 5-6, breviter stipitatis, obtusulis, octosporis; sporidiis distichis, oblongis, utrinque obtusulis, 12 \times 4-5, hyalinis, 4-guttulatis.

Hab. in caulibus emortuis *Electariæ*, Tjibodas, ins. Java. — Colore perithecorum et dimensionibus sporidiorum ab affinis diversa.

8. **Nectriella Lophocoleæ** Massal. Mem. dell'Acc. delle Sc. Med. e 2386

Nat. di Ferrara, 5 Magg 1895, fig. 5-8. — Peritheciis superficialibus solitariis v. subaggregatis, subaurantiacis, ovoideis, subiculo lato filamentoso, pallido insidentibus, 120-150 μ . diam., superficie hispidose-tuliferis, setulis continuis, pachydermicis, simplicibus, 8-10 μ . cr., perithecium dimidium longitudine adæquantibus, ostiolo apicali vix distincto perviis, parietibus membranaceis; ascis cylindraceo-clavatis, inferne sat longe pedicellato-stipitatis, 70-110 \times 16-22 p. sp.; sporidiis otonis ellipsoideis, 22-30 \times 10-14, hyalinis, utrinque rotundatis, guttulatis; paraphysibus numerosissimis capillaceis interdum ramosis, 1-1,5 μ . cr., asco longioribus.

Hab. ad folia viva *Lophocoleæ cuspidatæ* in alp. Apuanis pr. Massa Carrara (C. ROSETTI).

9. **Nectriella (Notarisiella) setulosa** Penz. et Sacc. *Malpighia* XI, 2387

1897, p. 507. — Peritheciis densiuscule gregariis, superficialibus, exiguis, globoso-hemisphæricis, vix papillatis, 250 μ . diam., melleis, pilis composito-fasciculatis; brunneolis, rigidulis, parce vestitis; ascis tereti-clavatis, breve stipitatis, obtusis, 50-60 \times 9, octosporis, obsolete paraphysatis; sporidiis distichis, cylindraceis, utrinque rotundatis, rectis, 20 \times 4-5, ex hyalino fuscidulis, continuis, 4-guttatis.

Hab. in caulibus putrescentibus *Electariæ*, Tjibodas, ins. Java. — Pezizulam quamdam melleam imitatur.

BYSSONECTRIA Karst. — Syll. II, p. 456, IX, p. 942, XI, p. 354.1. **Byssonectria delicatula** Penz. et Sacc. *Malpighia* XI, 1897, p. 507. 2388

— Subiculo effuso, tenuissimo, candido, ex hyphis filiformibus, 1 μ . cr. curvato-furcatis, hyalinis formato; peritheciis globoso-depressis, 150 μ . diam., pallide ochraceis, ostiolo obsolete; contextu tenuissimo; ascis cylindraceis, breve stipitatis, apice rotundatis, paraphysatis, 45-50 \times 5, octosporis; sporidiis monostichis, ellipsoideis, 5-6 \times 3, hyalinis.

Hab. in caulibus putridis in Horto Bogoriensi, ins. Java. — Parvitate sporidiorum et colore perithecorum a ceteris generis speciebus diversa.

CHILONECTRIA Sacc. — Syll. II. p. 453, IX, p. 945.

1. **Chilonectria flavovirens** (Othth) Sacc. Hedw. 1896 pag. XXXII, 2389

Nectria (Cosmaria) *flavovirens* Othth, Bern. Mittheil. 1868, p. 57. — Stromate parco, carnoso, fulvido-lateritio, peritheciis caespitose concrenentibus obsito; peritheciis subgloboso-piriformibus, subpedicellatis, rufulis, mollibus, demum collapsis, furfure denso-flocculoso flavo-virente obductis, ostiolo nudo nigro-papillato; ascis elongato-clavatis, myriosporis; sporidiis hyalinis, perexiguis, 3×1 , ellipsoideis; paraphysibus parum discretis.

Hab. in ramis tenuibus Aceris Pseudoplatani in Helvetia.

2. **Chilonectria macrospora** Penz et Sacc. Malpighia XI, 1897, p. 508. 2390

— Peritheciis laxe gregariis, superficialibus, globosis, papillatis. 200 μ . diam., atro-rubris, sublevibus, glabriusculis; ascis teretifusoideis, 180×16 , breve stipitatis, apice obtusulis, aparaphysatis (?), 14-20-sporis; sporidiis fusoideis, utrinque acutis, initio $15-16 \times 5$, tandem $25-27 \times 6,7$, intus nubiosis, hyalinis.

Hab. in spatha Palmarum in Horto Bogoriensi, ins. Java. — Sporidiis pro genere in quoqueasco paucis et majusculis mox dignoscitur.

3. **Chilonectria javanica** Penz. et Sacc. Malpighia XI, 1897, p. 508. 2391

— Peritheciis hinc inde acervulatis, globulosis, minute papillatis, 0,5 mm. diam., sordide rubris, ad *Stilbi* basim sitis; ascis (maturis?) tereti-clavulatis, apice truncatis, $60 \times 6-7$, aparaphysatis, myriosporis; sporidiis oblongis, curvulis, perexiguis, $2 \times 0,5$, hyalinis. *Stilbi* stipitibus fasciculatis cylindraceutis, 1-1,5 mm. long., rubescentibus, apice in discum atrum depressum, subinde centro proliferum dilatatis; basidiis in disci superficie stipatis, paliformibus, fuliginis, apice dilutioribus, 14×4 ; conidiis oblongis, $13-15 \times 5$, medio subinde spurie septatis tenuissimeque incrassatulis, dilute fuscis.

Hab. in corticibus putrescentibus in ins. Java. — Forte specimina non prorsus matura, hinc determinatio paullulum dubia. Ubi confirmetur, certe novi generis typus (*Chilostilbe*).

HETERONECTRIA Penz. et Sacc. Malpighia XI, 1897, p. 509 (Etym. *heteros* diversus et *Nectria*). — Perithecia *Nectriae* h. e. globulosa,

molliuscula, lacte colorata v. saltem non nigra, subsuperficialia. Asci cylindracei, octospori. Sporidia cylindracea, varie curvata, continua, hyalina, utrinque uniciliata (demum apice incrassato et sub ipso 1-septata). — A *Paranectria*, cui affinis, recedit sporidiis continuis; *Leptosporas* quoque in mentem revocat; hinc genus anceps et in vivo plenius scrutandum.

1. *Heteronectria spirillospora* Penz. et Sacc. l. c. — Peritheciis dense gregariis, superficialibus, globoso-depressis, 400 μ . diam., pallide olivaceis (in vivo rubescentibus), supra areolam subcircularem atro-olivaceam gerentibus, ostiolo centrali papillato nigricante; contextu perithecii celluloso sordide virenti, cellulis peristomaticis radiantibus elongato-ramosis, saturatoribus; ascis clavatis longiuscule stipitatis, sursum attenuato-obtusis, 115-125 \times 12-14, octosporis, tenuiter paraphysatis; sporidiis cylindraceis, sigmoideo-curvatis (spirilliformibus), hyalinis, continuis, guttulatis v. farctis, 30-45 \times 3-4, utrinque cilio 14-15 \times 1,5 curvulo auctis, demum apice incrassato-capitatis, capitulo 15 \times 6, basi septato, 1-nucleato, subhyalino.

Hab. in culmis bambusinis putridis, Tjibodas, ins. Java. — Nucleus dilute olivascens. Pars perithecii inferior pallide olivacea videtur constare e tegumento quodam, in areola superiore deficiente

LISIELLA Cooke. — Syll. IX, p. 945.

1. *Lisiella Syringæ* (Hazsl.) Sacc. et Syd., *Lisea Syringæ* Hazsl. Math. 2393 es term. XXV, 2 Budapest 1892, p. 6, tab. I, fig. 1. — Peritheciis superficialibus, ovatis, apiculatis, nudis, cæspitosis v. solitariis; ascis clavatis deorsum æqualiter attenuatis, 8-sporis, aparaphysatis; sporidiis distichis, hyalinis, ovalibus, simplicibus, 14-16 \times 7-8.

Hab. in ramis *Syringæ vulgaris*, Hungaria.

POLYSTIGMA Pers. — Syll. II, p. 458, IX, p. 945, XI, p. 354.

1. *Polystigma obscurum* Juel, Oefversigt of K. Vet.-Akad. Förhandl. 2394 1894, n. 9, p. 497, fig. II, E. — Stromatibus plerumque totum folium occupantibus, in pagina inferiore albidis, in superiore flavo-rubrescentibus, demum griseo-brunneis; spermogoniis plerumque epiphyllis, immersis, ovoideis; spermatis bacillaribus, 8 μ . longis, 2 μ . cr.; peritheciis globosis, amphigenis, nigricantibus, ostiolo parum prominente; ascis cylindraceis, breve stipitatis, 85 \times 10; sporidiis monostichis, ellipsoideis, hyalinis, 10 \times 6.

Hab. in foliis vivis *Astragali alpini* et *A. oroboidis* in Suecia et Norvegia.

2. *Polystigma nigreviride* Rehm. Hedw. 1896, p. (118). — Stromata 2395

tibus hypophyllis solitariis, late sessilibus rotundis plus minusve hemisphericis, siccis, concaviusculis vel planis, papillulis minutis exasperatis subviridulis dein nigris intus nigrofuscis, mollibus, 12-20 perithecia includentibus, 0,5-1,5 mm. diam.; ascis cylindræ apice rotundatis, c. 180 × 9, 8-sporis; sporidiis oblongis obtusis, crasse tunicatis, flavido-hyalinis, 1-cellularibus, plerumque granulis oleosis repletis, 9-11 × 7, 1-stichis.

Hab. in foliis vivis *Melastomatis* pr. San Jorge, Prov. Pichincha Æquatoris (LAGERHEIM). — Stromatibus elapsis, foliorum parenchyma lacunosum flaccidumque evadit ibique in pag. sup. conspicuntur maculæ subconvexæ, flavidæ, rotundatæ, 2-3 mm. latæ.

MOELLERIELLA Bres. Hedw. 1896, p. 298 et Bull. Soc. bot. ital. 1897, p. 291-292 (Ætym. a cl. mycologo A. MÖLLER). — Stromata subcarnosum, verruciforme, parenchymati foliorum lanatum; perithecia plus minusve immersa; ascis polyspori; sporidia subfusoides, continua, hyalina.

1. *Moelleriella sulphurea* Bres. l. c. — Hypophylla; stromatibus verruciformibus e peritheciis prominulis granulatis, viridi-luteis; peritheciis semiimmersis, obovatis, minute papillatis, concoloribus; ascis cylindræo-subventricosus, basi attenuato-pedicellatis, 250-300 × 10-16, polysporis; sporidiis hyalinis, fusoides, innumeris, 12-13 × 2½-3. 2396

Hab. in foliis arborum vivis v. mortuis pr. Blumenau Brasiliæ (MÖLLER). — Genus hoc inter Hypocreaceas prope *Polystigma* locandum videtur. Quoad generis autonomiam cfr. Briesdola in Bull. Soc. bot. ital. 1897 p. 291. Sint sporidia, ut maluit cl. Moeller et Lindau, a primo initio filiformia, tamen citissime in cellulas fusoides inordinatas nec seriatas dilabuntur, quæ notâ deest in gen. *Hypocrella*, hinc *Møelleriella* distingui meretur.

Sect. 2. Phæosporæ.

MELANOSPORA Corda. — Syll. II, p. 461, IX, p. 950, XI, p. 356. 2397

1. *Melanospora octahedrica* Pat. Cat. rais pl. cœl. Tunisie, 1897, p. 109; Explor. Tun. Illustr. bot. tab. III, fig. 8. — Peritheciis superficialibus, sparsis aut 2-4 gregariis, dimidiatis, fulvis, mollibus, cellulosi, squamis fibrosis, erectis, rigidis, concoloribus tectis, in ostio-

lum longissimum, brunneum, fibrosum, glabrum, 80 μ . crassum, $\frac{1}{2}$ mm. longum, apice penicillato-laceratum, et sporidiis protrudentibus repletum productis; ascis ovatis, sessilibus, 18-20 \times 10-12 octosporis, diffluentibus, aparaphysatis; sporidiis hyalinis, dein atropureis, octahedricis, 5-7 μ . latis.

Hab. in foliis putridis Eucalypti in Tunisia.

SPHÆRODERMA Fuck. — Syll. II, p. 459, IX, p. 949, XI, p. 355.

1. **Sphæroderma damnosum** Sacc. in Berlese Rivista Pat. veget. 1895, 2398

n. 1-6, p. 9, tab. VII-VIII. — Mycelio inter vaginam et culmi basim effuso; hyphis sterilibus filiformibus, ramosis, septatis, intertextis, 3-4 μ . crassis, initio hyalinis, dein roseo-incarnatis; conidiophoris (*Fusarii* sp.) adscendentibus, filiformibus, elasticis, sursum pluries opposito-ramosis, ramis ultimis brevibus, verticillato-ternis, apice angulato-denticulatis; conidiis fuscoideis, leniter curvis, utrinque obtusulis, initio triseptatis, tandem constrictis et (præcipue in culturis) 5-septatis, dilute roseis, 30-40 \times 8; peritheciis ascophoris superficialibus ex eodem mycelio hinc inde subsparse nascentibus, vagina tectis e depresso globosis, brevissime papillatis, 200-250 μ . latis, ochraceis, ostiolo mox in setulas breves, subhyalinas divergentes abeunte, contextu molli, laxe celluloso, melleo; ascis obpiriformibus v. late clavatis, breve stipitatis, 34-38 \times 25-30, aparaphysatis; sporidiis subtristichis, limoniformibus, 18-21 \times 10-12, levibus, initio hyalinis, crasse guttatis, dein atro-olivaceis intusque minute, dense guttulatis (nec reticulatis), denique in globulum atrum in apice ostioli collectis.

Hab. ad basim culmorum, intra vaginas, Tritici sativi, quod late necat in Sardinia (S. CETROLINI).

2. **Sphæroderma marchicum** (Lind.) Sacc. et Syd. *Chaetomium marchi-* 2399

cum Lind. Hedw. 1896, p. 56, cum fig. — Peritheciis rotundis, levibus, e tuteleo brunneis, 180-230 μ . diam., vertice ostiolo pertusis, setulis paucis usque 80 μ . longis hyalinis vestitis; ascis brevibus, clavatis, 58-70 \times 27-29; sporidiis totam ascorum cavitatem explentibus, citriformibus, 20-24 \times 11-14, obscure brunneis v. brunneo-nigris; paraphysibus non visis.

Hab. ad folia putrida pr. Berolinum Germaniæ.

3. **Sphæroderma affine** Sacc. et Flag. Bull. Soc. Myc. de Fr. 1896, 2400

p. 67, tab. V, fig. 11. — Peritheciis basi infossa superficialibus, subsparsis, hemisphæricis, $\frac{1}{2}$ mm. diam., papillatis, rubro-lateritiis, pilis parvis tenuibus, 25-35 \times 2, hyalinis, conspersis; ascis ovato-

longis, breve stipitatis, tetrasporis, $45 \approx 15$, cito evanidis; sporiis ovoideo-limoniformibus, $22-24 \approx 12-14$, primo hyalinis guttulis, demum intense fuligineis, utrinque hyalino-apiculatis.

Hab. in ligno putrido udo (stercorato!) Fagi, socia *Sporormia gigaspora*, Rigny Galliæ. — Affine *Sph. bulbilifero*, sed asci 4-spори.

THUEMENELLA Penz. et Sacc. Malpighia XI, 1897, p. 518 (Etym. a cl. Barone FELICE THUEMEN de scientia mycologica optime merito). — Stroma irregulariter globosum, superficiale, glabrum, carnosoceraceum, tota peripheria peritheciophorum. Perithecia omnino immersa, spherica, ostiolo non emergente, pariete a contextu stromatis vix discreto. Asci e basi perithecii oriundi, cylindracei, paraphysati, octospori. Sporidia sphericoidea, continua, atro-brunnea, levia. — Accedere videtur ad gen. *Penzigia* sect. II, *Sarcoxyton* (Syll. fung. IX, p. 569), sed stroma vere hypocreaceum non radiatum, sporidia spherica etc. Est quasi *Hypocrea* phæospora.

1. **Thuemenella javanica** Penz. et Sacc. l. c. — Stromate subglo- 2401
boso, depresso v. irregulari, levi, glabro, sulphureo, 3-7 mm. diam.; peritheciis ovato-globosis, profunde immersis, laxiusculis, 120-150 μ . diam., in collum breviter attenuatis, ostiolis punctiformibus, vix conspicuis; ascis cylindraceis, apice rotundatis, deorsum sensim attenuato-stipitatis, 55-65 \approx 8, octosporis; paraphysibusasco longioribus, filiformibus; sporidiis sphericoideis, 7-8 μ . diam., levibus, atro-fuligineis.

Hab. in ramis corticatis emortuis, Tjibodas ins. Java.

Sect. 3. Hyalodidymæ

NECTRIA Fr. — Syll. II, p. 479, IX, p. 955, XI, p. 357.

I. *Eu-Nectria* Sacc.

1. **Nectria kermesina** Otth, Bern. Mittheil. 1870, p. 103. — Stromate 2402
erumpente, carnosocompacto, pulvinato v. subgloboso; peritheciis cæspitosis, plerumque marginalibus, saturate rubris, membranaceis, globosis, levibus, ostiolo primum inconspicuo dein umbilicato pertusis, demum collapsis; ascis clavatis octosporis; sporidiis hyalinis, ellipsoideo-subcylindricis, $14-18 \approx 5-6,5$ bilocularibus, passim quadrilocularibus; paraphysibus vix ullis distinctis.

Hab. in ramis Tiliæ, Bern in Helvetia.

2. **Nectria cinnabarina** (Tode) Fr. - Sacc. Syll. II, p. 479. — Var. 2403
hypocreæformis Hazsl. Math. es term. Közlem. XX. 2, Budapest 1892, p. 10. — Stromatibus basi radiciformibus, ex rimis corticis emersis, superne plano-pulvinatis, 3-4 mm. latis, sulphureis; peritheciis immersis, ovalibus, apice aurantiaco prominentibus; ascis fusiformibus v. clavatis, circiter 80 μ . longis, 8-sporis; sporidiis uniseriatis, oblongo-cylindricis, uniseptatis, massa aurantiaca fartis, in utroque apice appendicula granulosa hyalina aciculari ornatis, 15-20 \times 7-10.

Hab. in ramis emortuis in Hungaria. — Revera a *N. cinnabarina* nimis recedit, ut ejus varietas habeatur. « An *Aponectria*? »

3. **Nectria Desmazierii** De Not. Sfer. ital. Cent. I, n. 4, nec Sacc. 2404
N. coccinea v. *cicatricum* Desm., *N. cicatricum* Tul. Carp. III, p. 77. — Exigua, erumpens, lætissime sanguineo-miniata; peritheciis cæspitosis confertis sed non coalescentibus, stromate pulvinato-hemisphærico v. elliptico carnosulo instructis, ovato-urceolatis, obtusis in sicco corrugatis, osculo latiusculo hiantibus, contextu tenui cellulis grandiusculis stratosi formato; ascis copiosis, teretibus, 8-sporis, aparaphysatis; sporidiis ellipsoideis, 2-ocularibus medio constrictulis, hyalinis, 10 μ . longis.

Hab. in ramis Buxi balearicæ, Pisa (BECCARI) et in Gallia. — Sec. Tul. l. c. status hujus conid. est *Discellæ* spec.; forte *Tubercularia versicolor* Sacc. statum alterum conidiophorum sistit.

4. **Nectria Gibbera** Fuck. Symb. p. 177, D. Sacc. Myc. ital. n. 109, 2405
N. Desmazierii Sacc. Syll. II, p. 482 (exclus. stat. conid.!), nec De Not.

Hab. in ramis Buxi sempervirentis in Germania et Italia bor. — A genuina *N. Desmazierii* De Not. differt peritheciis carneo-diaphanis, minutissimis, subpapillatis statuque conidiophoro *Fusarium Fuckelii* Sacc. Syll. IV, p. 695, sistente.

5. **Nectria coronata** Penz. et Sacc. Malpighia XI, 1897, p. 510. — 2406
 Peritheciis in soros depressos hinc inde congestis, globoso-depressis, atro-purpureis, 250-300 μ . diam., circulo distincto, papuloso superne notatis; circuli cellulis ovato-oblongis, emergentiliberis, 45 \times 28, ochraceis; ostiolo brevissime papillato; ascis elongato-clavatis, octosporis; sporidiis ellipsoideis, 20 \times 9, dilutissime ochraceis, intus crebre granulosi, distincte 1-septatis, non constrictis.

Hab. in corticibus emortuis, putridis, sociâ *Nectria ambigua*

v. pallenti, Tjibodas, ins. Java. — Species circuli præsentia vere distincta.

6. **Nectria eustoma** Penz. et Sacc. Malpighia XI, 1897, p. 509. — 2407
Peritheciis hinc inde in cæspitulos pulvinatos, 1-1,3 mm. diam. congestis, globulosis, 50 μ . diam., cinnabarinis, minute verruculosis, tandem leviter collapsis, apice areola suborbiculari discreta rubro-fusca, centro ostiolo minuto pertusa; peritheciis contextu parenchymatico rubro-aurantio, areolæ exquisite radiato ochraceo-fusco; ascis fusoides, subsessilibus, 75-85 \times 15, octosporis, spurie paraphysatis; sporidiis distichis, oblongis, utrinque rotundatis, lenissime curvis, 1-septatis, non constrictis, 24-28 \times 8-9, nubiosis, subhyalinis.

Hab. in ramis emortuis in Horto Bogoriensi, ins. Java. — Affinis *N. zelandicæ*, *tasmanicæ* et *discoporce*, sed notis datis satis distincta.

7. **Nectria capitata** Bres. Hedw. 1896, p. 299. — Peritheciis in cæspitulos 2-4 mm. lato collectis, raro solitariis, superficialibus, glabris, ovoideo-capitatis, 250-300 μ . latis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. longis, basi connatis, purpureo-rubris, capitulo miniato, membranaceis, contextu indistincte celluloso, flammeo, ostiolo vix prominulo, subnigricante; ascis jam resorptis; sporidiis hyalinis elongato-ellipticis, medio uniseptatis, subconstrictis, 28-32 \times 10-13, episporio longitudinaliter tenuissime striato.

Hab. ad cortices pr. Blumenau Brasilæ (MÖLLER). — Notis micrologicis *Nectriae Balansæ* Speg. accedit, sed modus crescendi, habitus etc. diversa. Perithecia ovoideo-elongata, prope apicem constricta ita ut capitata videantur et bene statum juniorum, diminutum Agarici cujusdam representent.

8. **Nectria Jungneri** P. Henn. Fungi camerun. I, in Engl. Jahrb. 2409
XXII, 1895, p. 75. — Peritheciis cæspitosis, sessilibus v. substipitatis, ovatis v. mammiformibus, puniceis, minute granulatis, 250-300 μ . diam., ostiolo papilliformi, obscuriore, dein concavo; ascis cylindraco-clavatis, stipitatis, octosporis; sporidiis distichis, ellipsoideis v. oblongis, inæquilateralibus, 1-septatis, non constrictis, utrinque rotundatis, hyalinis, 24-28 \times 8-10.

Hab. ad ramos, Kamerun (JUNGNER).

9. **Nectria Bonii** Pat. Journ. de Bot. 1897, p. 369. — Peritheciis 2410
in cæspitulos rotundatos (10-20) aggregatis, raro sparsis ac solitariis, lateritiis, subglobosis, dein depressis, $\frac{1}{3}$ mm. circiter latis, rugosis, ostiolatis, contextu parenchymatico-celluloso, collulis an-

gulosis, 15-20 μ . diam.; ascis cylindræis, 180-200 \times 12-15, octosporis, aparaphysatis; sporidiis monostichis, hyalinis v. pallidissime rubescentibus, magnis, 30-40 \times 10-12, rectis v. leniter curvulis, utrinque obtusis, medio septè divisis, constrictis vel non constrictis.

Hab. in culmis Bambusæ, Tonkin.

10. **Nectria subinsularis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 227. 2411

— Peritheciis cæspitosis, confertis, stromatè erumpenti, appanato, disciformi, albido-ochraceo, 2-5 mm. diam., carnosulo insidentibus, pallide aurantiacis, globosis, circiter 300 μ . latis, levibus, glabris, ostiolo fusco, papillato instructis; ascis 70-80 \times 20, octosporis, aparaphysatis; sporidiis distichis, ellipticis, utrinque acutiusculis, 23-25 \times 6-7, medio 1-septatis, non constrictis, minutissime rugulosis, hyalinis, multiguttulatis.

Hab. in truncis Chusqueæ in Æquatoria (v. LAGERHEIM). — *N. insulari* Speng. affinis, sed sporidiis majoribus.

II. *Dialonectria* Sacc.

11. **Nectria ambigua** Penz. et Sacc. Malpighia XI, 1897, p. 511. — 2412

Peritheciis gregariis v. subsparsis, globulosis, superficialibus, obtuse papillatis, 250-300 μ . diam., carneis sublevibus; contextu parenchymatico, dilute ochraceo-roseo; ascis clavato-fusoideis, brevè stipitatis, apice obtusulis, 60-68 \times 9-11, octosporis; sporidiis distichis, oblongo-fusoideis, 18-20 \times 5-6, uniseptatis, non constrictis, 2-4-guttatis, subhyalinis.

Hab. ad ramos putres, Tjibodas, ins. Java. — Var. **pallens**: peritheciis dilutius carneis. In corticibus, Tjibodas, ins. Java. — Affinis *N. depallenti* C. et H., sed sporidia breviora.

12. **Nectria carneo-flavida** Penz. et Sacc. Malpighia XI, 1897, p. 511. 2413

— Peritheciis sparsis v. cæspitulosis, superficialibus, globulosis, carneo-flavidis, 200-250 μ . diam., obsolete papillatis, eximie, sæpe lineatim verrucosis, contextu celluloso laxiusculo, dilute olivaceo-roseo; ascis fusoidè-clavatis, utrinque acutulis, 90 \times 12, octosporis; sporidiis fusoidè-oblongis lenissime asperulis, 1-septatis, vix constrictis, hyalino-olivascensibus, 20-22 \times 7-8.

Hab. in corticibus emortuis, Tjibodas, ins. Java. — *Nectricæ Veillotianæ*, *N. illudenti* et *N. verruculosæ* subaffinis, sed notis datis distinguenda.

13. **Nectria trachycarpa** Penz. et Sacc. Malpighia XI, 1897, p. 511. 2414

— Peritheciis sparsis, superficialibus, majusculis, 0,5 mm. diam.,

globulosis, vix papillatis, distincte verruculosi, e roseo rubris; ascis tereti-clavatis, subsessilibus, apice rotundatis, octosporis, 90-100 \times 15; sporidiis distichis, fusoides, utrinque obtusulis, 30-33 \times 9; uniseptatis, non constrictis, longitr. striatulis, hyalino-melleis.

Hab. in corticibus emortuis, Kanang Badak, ins. Java.

14. *Nectria nigella* Penz. et Sacc. Malpighia XI, 1897, p. 512. — Peritheciis laxe gregariis, superficialibus, subglobosis, 200-250 μ . diam., levibus, glabris, rubescentibus, dein nigricantibus et collabescentibus, ostiolo obsolete; peritheci contextu parenchymatico, atro-fusco, ostioli radiante pallidiori; ascis tereti-fusoides, initio apice acuminatis, 45 \times 8, penta-octosporis; sporidiis oblique monostichis, fusoides, 13-15 \times 4,5-5, uniseptatis, non constrictis, faretis, hyalinis.

Hab. in corticibus emortuis, Tjibodas, ins. Java. — Affinis *N. patellarioidi* (E. et E.) Sacc., sed perithecia non contracto-stipitellata.

15. *Nectria tetraspora* Pat. Ann. Jard. Buitenz. 1897, I, suppl. 2416 p. 124. — Peritheciis erumpentibus, globosis, gregariis, papilliformi-ostiolatis, 200-300 μ . diam., glabriusculis, ochraceo-pallidis, ascis cylindræis, apice obtusis, aparaphysatis, 40-50 \times 5-6, tetrasporis; sporidiis mono-vel distichis, hyalinis, ovoideis, levibus, utrinque obtusis, medio 1-septatis, non vel vix constrictis, 10 \times 4.

Hab. in fructibus putrescentibus Diospyri, Java (MASSART).

16. *Nectria Opuntiae* Roll. Bull. Soc. Myc. de Fr. 1896, p. 5, t. I, 2417 fig. 2. — Peritheciis laxe gregariis, globosis v. collapsis, rugosis, carneis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. latis; ascis cylindricis, 8-sporis, 80 \times 7-8; sporidiis monostichis, ovatis, 1-septatis, non constrictis, loculis 1-guttatis, 10-12 \times 5; paraphysibus filiformibus.

Hab. ad fibras Opuntiae pr. Vallauris Galliae merid. — A *N. sanguinea*, cui forsan affinis, forma et latitudine perithecorum, ascis longioribus et sporidiis majoribus ad septa haud constrictis differt.

17. *Nectria Henningsii* Rehm, Hedw. 1889, p. 352. — Peritheciis 2418 sparsis v. gregariis, sessilibus, semiglobosis, siccis, plerumque patellariformiter collapsis, poro vix conspicuo pertusis, ceraceis, aurantiacis, parenchymatice contextis, basi hyphis hyalinis obsessis, 0,4-0,8 mm. diam.; ascis clavatis, teneris, 50-80 \times 8-10, octosporis; sporidiis oblongis, apice rotundatis, rectis, 2-cellularibus, utraque cellula guttula oieosa 1 magna instructis, hyalinis, distichis, 9-12 \times 4-4 $\frac{1}{2}$; paraphysibus parvis, ramosis.

Hab. ad vaginas foliorum putridorum Musæ in Palmario horti bot. reg. Berolinensis (P. HENNINGS).

18. *Nectria Binotiana* Sacc. Bull. Soc. Roy. Bot. Belg. XXXV, 1896, 2419

p. 129, tab. III, fig. 4. — Peritheciis hinc inde pauci-congregatis, erumpenti-superficialibus, stromate nullo fultis, globoso-ovoideis, obtuse papillatis, 140-160 μ . diam., levibus, dilute roseis, glabris, sed *Verticillii* hyphis candidis cinctis, contextu parenchymatico, tenui, aquose carneo; ascis tereti-fusoideis, subsessilibus, aparaphysatis, 50-60 \times 5-6, apice obtuse tenuitus, minute bifoveolatis; sporidiis oblique monostichis v. distichis, 8-10 \times 2-2 $\frac{1}{2}$, elliptico-fusoideis, utrinque obtusulis, obsolete 1-septatis, haud constrictis, hyalinis.

Hab. in foliis Orchidearum epiphytarum emortuis in Brasilia (P. BINOT). — Socium adest et verisimillime metageneticum *Verticillium candidulum* Sacc. var. *Binotianum* Sacc.; cæspitulis candidis, sparsis v. peritheciâ circumdantibus, hyphis typi, sed deorsum sæpe dilutissime fuscillis, 4 μ . crassis; conidiis oblongis, 5 \times 2 $\frac{1}{2}$, hyalinis.

19. *Nectria phyllogena* Sacc. Bull. Soc. Roy. Bot. Belg. XXXV, 2420

1896, p. 128, t. III, fig. 3. — Acervulis amphigenis, sed sæpius epiphyllis, erumpenti-superficialibus, sparsis, stromate pulvinato rubenti-ochraceo fultis, 1 $\frac{1}{2}$ mm. diam.; peritheciis 8-15 in quoque stromate, globulosis, breve papillatis, 0,2 mm. diam., demum leniter collabentibus, levibus, hyphis conidiophoris conspersis, dein glabris lateritio-rubellis; contextu laxo celluloso, molliusculo, rubenti; ascis tereti-fusoideis, subsessilibus, 50-65 \times 8, aparaphysatis, apice rotundatis lumineque 2-foveolato; sporidiis oblique monostichis, octonis, sed sæpius paucioribus, elliptico-oblongis, tenuiter 1-septatis, haud v. vix constrictis, 12 \times 5, hyalinis.

Hab. in foliis putrescentibus Monocotyledoneæ cujusdam (Orchideæ?) in Brasilia. — Socium adest, et verisimillime metageneticum, *Verticillium compactiusculum* Sacc. var. *phyllogenum* Sacc.: cæspitulis candidis, nunc sparsis, nunc in stromate peritheciisque *Nectricæ* orientibus, modo laxis, modo compactiusculis; hyphis typi; conidiis elliptico-oblongis v. subfusoideis, 2-guttatis, 7-8 \times 2, rectis, hyalinis.

20. *Nectria arundinella* Penz. et Sacc. Malpighia XI, 1897, p. 512. 2421

— Peritheciis gregariis, superficialibus, globulosis, papillatis, 150 μ . diam., levibus, glabrescentibus, succineo-roseis, demum contractis; obscurioribus; ascis tereti-fusoideis, initio apice attenuatis, filiformi-

paraphysatis, octosporis, 60-70 \times 8-9; sporidiis distichis v. oblique monostichis, fusoidis, rectis curvulisve, 15-16 \times 4-5, subinde extra ascos 22-24 \times 5, 1-septatis vix constrictis, hyalinis.

Hab. in culmis putridis, Tjibodas, ins. Java.

21. *Nectria alba* Pat. Bull. Soc. Myc. de Fr. 1895, p. 227. — Peritheciis solitariis minutis, 200-300 μ . diam., lenticularibus, demum cupuliformibus, ostiolo papillato praeditis, glabris, albis; subiculo nullo; contextu minute celluloso-angulose, albo; ascis (jam elapsis); sporidiis ellipticis, levibus, hyalinis, 20-22 \times 5-6, medio septatis, leniter constrictis. 2422

Hab. in truncis putridis Chusqueæ in Æquatoria (v. LAGERHEIM).

22. *Nectria saccharicola* Speg. Rev. Agr. y Veter. La Plata 1896, p. 234. — Peritheciis superficialibus hinc inde 5-20 dense gregariis v. rarius subsparsis, sordide aurantiacis v. subochraceis parvulis, 150-180 μ . diam., in vivo globosis, in sicco subcollapsis v. rugosis, glabris levibusque, ostiolo vix papillato minuto donatis, stromate destitutis, contextu carnosulo-membranaceo, parum distincto, lutescente; ascis cylindræo-fusoidis, antice obtusis acutatis, postice breviter attenuato-pedicellatis, 60-70 \times 7-8, aparaphysatis, octosporis; sporidiis ellipsoideis v. cylindræo-ellipsoideis, utrinque acutiuscule rotundatis, 10-12 \times 3 $\frac{1}{4}$ -4, primo continuis grosse 4-guttulatis, dein medio uniseptatis constrictulisque, loculis biguttulatis, hyalinis, levibus. 2423

Hab. in culmis putridis coacervatis Sacchari officinarum, prov. Tucuman, Argentina.

23. *Nectria Epichloë* Speg.-Syll. IX, p. 963. — Var. *rosea* Bres. Hedw. 1896, p. 299. — A forma typica differt tantum colore peritheciolorum aëne-roseo. An fortè hoc ex ætate pendet? 2424

Hab. in foliis Andropogonæ ejusdam pr. Blumenau Brasiliæ (MÖLLER).

24. *Nectria meliopsicola* P. Henn. Pilz. Ostaf. p. 32. — Peritheciis sparsis, minutissimis, circ. 120-160 μ . diam., nudo oculo nunquam conspicuis, sessilibus, subhemisphericis, dein cupulatis, cinnabarinis; ascis cylindræis, obtusis, 8-sporis, 60-70 \times 7-8; sporidiis oblique monostichis, oblongis, medio septatis, non constrictis, hyalinis, levibus, 2-guttulatis 10-12 \times 6-7, episporio dilute subarrescente. 2425

Hab. in Meliopside usambarensi in Africa trop. (HOLST).

25. *Nectria episphærioides* Penz. et Sacc. Malpighia XI, 1897, p. 511. 2426

— Peritheciis parasiticis perexiguis, globoso-conoideis, 100-150 μ . diam., subgregariis. rubro-melleis; ascis aparaphysatis, tereti-clavatis, brevè stipitatis, 50-60 \times 9-10, octosporis; sporidiis subdistichis, elliptico-rhomboides, 1-septatis, non v. vix constrictis, 12-15 \times 7-7.5, hyalinis.

Hab. in peritheciis *Diplodiam* ad ramos emortuos *Acaciae*, Kota Batce pr. Buitenzorg, ins. Java. — Ab affini *N. epispheria* differt sporidiis fere duplo majoribus.

26. **Nectria Westhoffiana** P. Henn. et Lind. Jahresber. d. Westfälisch. Prov. Ver. f. W. u. K. Bot. Sect. 1896-97, p. 194. — Peritheciis numerosis solitariis. initio perexiguis globosisque, dein majoribus, 300-480 μ . diam., vertice subcompressis, extus glabris, in vivo puniceis siccitate obscurioribus; ascis numerosissimis, cylindræis apice rotundatis, vix stipitatis, 90-100 \times 8-9, aparaphysatis; sporidiis octonis oblongis, utrinque rotundatis, 12-14 \times 6-8, 1-septatis, hyalinis v. dilute carneis, quaque cellula grosse uniguttata.

Hab. in charta bibula in institutis botanicis Monasterii (Münster) et Berolini, Germania.

III. *Lepidonectria* Sacc.

27. **Nectria Turræ** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 75. — Peritheciis cæspitosis, aggregatis, subglobosis, vertice depresso-umbonatis, dein subcupuliformibus, coccineis, farinoso-pruinosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; ascis cylindræo-clavatis, obtusis, sessilibus, 100-150 \times 8-11; sporidiis monostichis, ovoideis v. oblongis, utrinque obtusis, medio 1-septatis haud constrictis, hyalino-subcarnescentibus, grosse 2-guttulatis, 14-20 \times 7-11.

Hab. ad ramos vivos *Turræ Volkensii*, Kilimandscharo, Africa (VOLKENS). — Status conidicus: *Fusarium Nectriae-Turræ* P. Henn.

28. **Nectria abnormis** P. Henn. Hedw. 1897, p. 219. — Peritheciis cæspitosis v. solitariis, subpiriformibus, 250-300 μ . diam., coccineis, pulverulentis, apice subpapillatis, dein subcupulatis, contextu membranaceo, celluloso, coccineo; ascis subovoideis v. subellipsoideis; sporidiis cylindræo-subfusoideis, rectis v. curvulis, utrinque obtusiusculis, medio uniseptatis, paulo constrictis, nebuloso-guttulatis, 30-40 \times 7-8 $\frac{1}{2}$, hyalinis.

Hab. in corticibus arborum pr. Blumenau Brasiliæ (MOSLER). — *Nectriae capitatae* Bres. affinis.

29. *Nectria radians* Penz. et Sacc. Malpighia XI, 1897, p. 510. — 2430
Peritheciis superficialibus, in soros ramoso-radiantes, 3,7 mm. diam. congestis, lateritio-rubris, globoso-conoideis, breve papillatis, $\frac{1}{3}$ mm. d., initio flavo-pruinosis; ascis fusoides utrinque acutulis, 50-60 \approx 9-12, aparaphysatis (?), octosporis; sporidiis 2-3-stichis, fusoides, 15-17 \approx 4-4,5, rectis, 1-septatis, non constrictis, hyalinis, intus nubilosus.

Hab. in ramis corticatis putrescentibus, ins. Java. — Soris radiantibus majusculis distincta species. Simul adsunt sporodochia minuta, pulvinata, alba, conidiis oblongis, hyalinis, continuis 9 \approx 2,5; sporophoris brevibus, 6 \approx 1-2, parallele stipatis. Forte st. conidiophorus *Nectriæ radiantis*.

30. *Nectria tjibodensis* Penz. et Sacc. Malpighia XI, 1897, p. 512. — 2431
Peritheciis gregariis, globulosis, papillatis, superficialibus, 200 μ . diam., puniceis, levibus, initio flavido-pruinosis; ascis fusoides, utrinque obtusulis, 40-45 \approx 8-9; sporidiis distichis, fusoides, utrinque obtusulis, 16 \approx 5, uniseptatis, constrictis, hyalinis.

Hab. in corticibus emortuis, Tjibodas, ins. Java. — Contextus peritheci cinnabarinus, cellulosis, ostioli radiatus. — Var. *crebrior*: peritheciis latissime et crebrius gregariis, cinnabarinis; ascis 45-50 \approx 7; sporidiis 13-14 \approx 4. In corticibus emortuis, Tjibodas, ins. Java.

31. *Nectria parasitica* D. Sacc. Malpighia 1898, p. 210, tab. VII, 2432
fig. 6 (Myc. ital. cent. IV). — Peritheciis parasiticis, roseis, furfuraceis, gregariis v. hinc inde laxè congestis, sphæroideis, collabescendo concavis, albido-pruinosis, mollibus, 0,2 mm. diam.; ascis brevissime pedicellatis, subclavatis, 50-60 \approx 9 (immaturis), apice acutis, subfusiformibus, octosporis; sporidiis subdistichis, ellipsoideis, utrinque obtusis, 1-septatis, vix constrictis, 12-15 \approx 5, hyalinis.

Hab. parasitica in stromate Valsariæ insitivæ ad ramos Robiniæ in viridario Rignano, Voltabarozzo, Padova. — Adest forma conidica *Fusarium*: sporodochiis conicis, minutis roseis; conidiis fusoides, utrinque obtusis, 3-septatis, 30-35 \approx 4-5, vix constrictis, roseo-hyalinis.

IV. *Hyphonectria* Sacc.

32. *Nectria hypoxantha* Penz. et Sacc. Malpighia XI, 1897, p. 513. 2433
— Peritheciis gregariis, globoso-depressis, papillatis, 390-400 μ . diam., e rubro fusco-ochraceis; bysso flava ex hyphis filiformibus

septulatis, 6-7 μ . cr., formatâ insidentibus; peritheciis contextu aureo-ochraceo, ostioli radiante; ascis cylindraceutis, subsessilibus, 90 \approx 8-9, apice obtusulis, octosporis; sporidiis oblique monostichis, oblongo-fusoidis, obtusulis, 1-septatis, 14-15 \approx 5-6, biguttatis, dilutissime roseolo-melleis.

Hab. in cortice Monocotyledoneæ emortuo, Tjibodas, ins. Java. — Adest simul *Dendrodochii* species: sporodochiis pulvinatis, minutis, albis, dein roseis; basidiis furcatis, 30-40 \approx 2,5-3, hyalinis; conidiis obovato-oblongis, 6-8 \approx 3, uni-nucleatis, hyalinis. Verisimiliter status *Nectriæ* conidicus.

33. *Nectria dolichospora* Penz. et Sacc. Malpighia XI, 1897, p. 513. 2434

— Peritheciis laxe gregariis, superficialibus, globulosis, 200-250 μ . d., supra obtusatis, atro-rufis v. olivaceo-rufis, siccis obscurioribus, basi hyphis simplicibus v. furcatis, roseo-rufis 3-5 μ . cr. circumdatis, ostiolo punctiformi impresso, cellulis peristomaticis radiantibus elongatis, rubidis, peritheciis contextu laxe celluloso saturatius colorato; ascis fusoidis, apice obtusulis, basi acutata subsessilibus, 70-100 \approx 16-18, octosporis, spurie (?) paraphysatis; sporidiis distichis, fusoidis, curvulis, utrinque obtusulis, 30-33 \approx 7-8, ex hyalino rufo-olivascensibus, 1-septatis, non constrictis.

Hab. in caule emortuo Elettariæ, Tjibodas, ins. Java. — Forma in spathis *Palmarum* eodem loco vix differt.

34. *Nectria chætostroma* Ell. et Macbr. Bull. Labor. Nat. Hist. 2435

Univ. Iowa IV, 1896, p. 70. — Peritheciis cæspitosis globosis $\frac{1}{8}$ mm. diam., glabris, sordide rubris dein rubescenti-brunneis, supra collabentibus, subiculo e pilis brunneis septatis curvatis, 100-200 \approx 3, composito cinctis, ostiolo distincte papilliformi donatis; ascis clavato-cylindraceutis subsessilibus, 50-60 \approx 8-10, paraphysatis, octosporis; sporidiis distichis oblongis leniterque curvulis, binucleatis, 1-septatis constrictisque, pallide brunneis, obtusis, 13-16 \approx 5-5 $\frac{1}{2}$.

Hab. in cortice arboris ignotæ, Ometepe, Nicaragua (SMITH). — Perithecia 10-40 in cæspitulum compactum 1-4 mm. diam. dense conferta.

35. *Nectria pertusa* Pat. Bull. Soc. Myc. de Fr. 1895, p. 227. — 2436

Subiculo superficiali, albo-roseolo, gossypino, tenui, ex hyphis hyalinis, ramosis, crasse tunicatis, 3-4 μ . crassis composito, plagas irregularas, 1-10 mm. latas, formante; peritheciis semi-immersis, sparsis vel dense gregariis, subglobosis, 160-200 μ . diam., albidis, villosulis, ostiolo glabro, fulvello, papillulato, dein latiuscule umbilicato pertusis, contextu fulvo-aurantiaco; ascis fusoidis, 50-70 μ .

longis, aparaphysatis; sporidiis subdistichis, hyalinis, fuscoideis, medio 1-septatis, levibus, $16 \approx 4$.

Hab. in truncis Chusqueæ in Æquatoria (v. LAGERHEIM). — *N. nigro-punctatæ* Speg. affinis.

36. **Nectria moschata** Glück, Hedw. 1895, p. 254. — Peritheciis 2437
 minutis gregariis, mycelio dense stromatico insidentibus, rubescenti-brunneis, basi mycelio circumdatis, 202-405 \approx 135-256, supra pertusis, collo dense vesiculoso-papilloso donatis; ascis gracilibus elongatis, 78-101 \approx 5 $\frac{1}{2}$ -8 $\frac{1}{8}$, hyalinis, tenuiter tunicatis apiceque truncatis, octosporis; sporidiis mono-vel distichis ellipticis, 9-10 \approx 3 $\frac{3}{4}$ -4 $\frac{1}{4}$, plerumque uniseptatis, pallide rubescenti-brunneis.

Hab. e mycelio Fusarii aquæductuum culta, Halle Germaniæ. — Ejusdem *Fusarii* status ascophorus.

V. *Lasionectria* Sacc.

37. **Nectria leucotricha** Penz. et Sacc. Malpighia XI, 1897, p. 512. 2438
 — Peritheciis gregariis, superficialibus, globoso-depressis, 0.4-0.5, mm. diam., molleo-rubescens, ostiolo punctiformi, undique sed magis inferne albo-setosis, setis cuspidatis, 200-250 \approx 25-35, ex hyphis coalescentibus compositis; ascis fuscoideis, 50-60 \approx 9, initio cuspidatis, aparaphysatis, octosporis; sporidiis distichis v. oblique monostichis, oblongo-fuscoideis, sæpius curvulis, utrinque obtusulis, 2-5-guttulatis, 16-20 \approx 4-5, demum obsolete 1-septatis, dilutissime olivaceis.

Hab. in caulibus corticatis emortuis, Tjibodas, ins. Java. — A *N. Eucalypti* C. et H. peritheciis majoribus rubidis, setis persistentibus diversa.

38. **Nectria albo-fimbriata** Penz. et Sacc. Malpighia XI, 1897, p. 513. 2439
 — Peritheciis dense gregariis, globoso-depressis, superficialibus, 200-300 μ . diam., excepta areola peristomatica glabra, atrata, infossa, albo-fimbriatis, fimbriis radiantibus, ex pilis flexuosis simplicibus ramosisque coalescentibus, subcontinuis, hyalino-chlorinis efformatis; ostiolo punctiformi; contextu perithecii parenchymatico, rufo-melleo, ostioli radiante, pallidiori; ascis fuscoideis, breve stipitatis, initio sursum cuspidatis, 70-85 \approx 8-10, spurie (?) paraphysatis, octosporis; sporidiis fuscoideis, distichis, utrinque acutiusculis, 1-septatis, non v. vix constrictis, 15-20 \approx 4,5-5, dilutissime olivaceis, longitrorsum striatulis.

Hab. in caulibus emortuis Elettariæ? Tjibodas, ins. Java. —

Habitus omnino peculiaris ob perithecia centro obscura, excavata et circumcirca adpresso et radiatum albo-fimbriata, sæpe tam approximata ut pelliculam forment.

39. *Nectria scitula* Bres. Hedw. 1896, p. 299. — Peritheciis gregariis, superficialibus, nullo stromate fultis, minutis, obovatis, succineis, in siccio pezizoideoc-collapsis, $\frac{1}{4}$ mm. latis, apice excepto, tomento albo indutis, contextu indistincte celluloso; ascis cylindraceis, 70-80 \times 8-10; sporidiis hyalinis, subdistichis, subfusoidis, uniseptatis, 12-15 \times 4-5; hyphis indusii hyalinis, apice tortuosis, $2\frac{1}{2}$ -3 μ . latis.

Hab. ad folia pr. Blumenau Brasiliæ (MÖLLER). — In statu siccio *Lachnellam papillarem* (Bull.) Karst. optime simulat.

40. *Nectria Musæ* Pat. Journ. de Bot. 1897, p. 369. — Peritheciis minutis, 230 μ . diam., conferte gregariis, sed stromate nullo unitis, globosis, dein depressis cupuliformibusque, miniatis, pilis albidis, 60 μ . circiter longis sparsis vel sæpius penicillatim conjunctis ac squamiformibus obsitis; ascis in stipitem attenuatis, 50-60 \times 10-12, octosporis, aparaphysatis; sporidiis hyalinis, levibus, ovoideis, uniseptatis, 13-16 \times 5.

Hab. in culmis et radicibus putridis Musæ in Tonkin.

41. *Nectria fuscostoma* A. L. Smith. Journ. of Bot. 1895, p. 342. — Peritheciis gregariis, confertis, luteo-flavis, pilosis, subglobosis, 280 \times 330, apice fusco-rostratis; ascis clavatis, 80 \times 10, paraphysibus filiformibus obvallatis; sporidiis 1-septatis, ellipticis, hyalinis, leviter constrictis, 18 \times 5.

Hab. in vaginis Bambusarum in Africa orient. (ELLIOT.).

VI. *Cryphonectria* Sacc.

42. *Nectria xanthostroma* Penz. et Sacc. Malpighia XI, 1897, p. 514. — Peritheciis gregariis v. hinc inde in soros minutos confertis, globoso-conicis, obtuse papillatis, 200-250 μ . d., flavo-aurantiacis, crustula stromatica 5-10 mm. diam., carnosulo-gelatinosa adnata, uda sordide flava, sicca obscuriore semiimmersis; ascis cylindraceis, fasciculatis, breve stipitatis, apice subtruncatis, paraphysibus longioribus guttulatis obvallatis, octosporis, 55-60 \times 5; sporidiis oblique monostichis, ellipsoideis, utrinque obtusis, 8-9 \times 3-4, uniseptatis, vix constrictis, biguttatis, hyalinis.

Hab. in ramis corticatis putrescentibus, Tjibodas, ins. Java. — Ob crustam stromaticam ad *Hypocream* nutat, ceterum species

prædistincta. Perithecia sicca, nunc aurea manent, nunc atropurpurea fiunt!

LISEA Sacc. — Syll. II, p. 517, XI, p. 360.

1. *Lisea violacea* (A. L. Smith) Sacc. Hedw. 1896, p. XXXIII, 2444
Gibberella violacea A. L. Smith Journ. of Bot. 1895, p. 342. — Peritheciis cæspitoso-stromaticis, subglobosis, 180-200 μ ., poro apicali instructis, violaceis; ascis clavatis, octosporis, 60 \times 8; sporidiis hyalinis, 1-septatis, 10 \times 4; conidiis septatis, fuscis, illis *Macrosporii* similibus.

Hab. ad cortices in Africa orientali.

2. *Lisea inæqualis* Hazsl. Math. es term. Közlem. XXV, 2 Buda-pest 1892, p. 6 — Differt a *Gibberellis* et a *Lisiella Syringæ* sporidiis oblongo-ovatis, crassitie ter longioribus, inæqualiter bilocularibus. 2445

Hab. in ramis Lycii barbari in Hungaria.

3. *Lisea australis* Speg. — Sacc. Syll. II, p. 518. — Var. **Sacchari** 2446
 Speg. Rev. Agr. y Veter. La Plata, 1896, p. 236. — A typo recedit: peritheciis omnino superficialibus, contextu tenuiore grosse paronchymatico-celluloso; sporidiis nennihil majoribus, 14 \times 5, 1-5-septato-constrictis, loculis subæquilongis supero crassiore obtusioreque, primo hyalinis strato mucoso tenuissimo involutis, dein fumosis, nudis, levibus.

Hab. in culmis dejectis putridis Sacchari officinarum, prov. Tucuman, Argentina.

TRELEASIA Speg. Rev. Agr. y Veter. La Plata, 1896, p. 235 (Etym. a cl. botanico americano TRELEASE). — Perithecia coacervata, minuta, longissime rostrata, hyalina, contextu hypocreaceo. Asci ellipsoidei, octospori. Sporidia fusosideo-elongata, 1-septata, hyalina.

1. *Treleasia Sacchari* Speg. l. c. — Acervulis superficialibus, sæpius 2447
 sparsis, 0,5-2 mm. diam., e convexulo difformibus, gossypinulospinulosis, candidis; peritheciis candidis, minutis, dense 5-20-conglobatis, sæpius nodulo stromatico parenchymatico hyalino pallescènte insidentibus, primo mycelio araneoso candido ex hyphis hyalinis (2 μ . crass.) septulatis levibus constituto tectis, dein nudis ovatis, 80 \times 60, ostiolo prælongo cylindræco, 200-300 \times 10-20, concolore apice acutiusculo sæpeque fimbriatulo coronatis, tenuimembranaceis, contextu ubique prosenchymatico septulato hyalino (cellulis 3 μ . crass.) donato; ascis ellipsoideis, apice obtuse apicu-

latis crassiusculeque tunicatis, 65-80 \times 20-25, postice brevissime cuneato-pedicellatis, apapophysatis, octosporis; sporidiis lineari-fusiformibus, utrinque acute attenuatis, rectis, 50-60 \times 7-8, medio 1-septulatis non constrictis, hyalinis, levibus, eguttulatis.

Hab. ad folia gemmarum adhuc convoluta. sed subtabescentia Sacchari officinarum, prov. Tucuman, Argentina.

HYPOMYCES Fr. — Syll. II, p. 466, IX, p. 954, XI, p. 356.

1. **Hypomyces ? epimyces** (Otth) Sacc. Hedw. 1896, p. XXXII, *Sphaeria* 2448 (Obturata?) *epimyces* Otth Bern. Mittheil. 1865, p. 166. — Peritheciis minutis, subgregariis, globosis, nigris, emergentibus, demum seminudis v. subsuperficialibus, ostiolo papillato; ascis cylindraceutis, octosporis; sporidiis monostichis, ellipsoideo-rotundatis, fuscis, continuis, 10 \times 8.

Hab. in Corticio comedente ad ramos Quercus pr. Steffisburg, Helvetia. — Adest simul *Sphaeronæma* (Zythia) *epimyces* (Fr.) Berk., statum pycnidicum sistens, teste Otth.

2. **Hypomyces Moellerianus** Bres. Hedw. 1896, p. 299. — Stromate 2449 late effuso, spongioso-gossypino, 1 1/2-2 mm. crasso, albido-stramineo; peritheciis subsuperficialibus, basi tantum stromati nidulantibus, albis, obovatis, fusco-papillatis, 200-250 μ .; ascis cylindraceo-subfusoides, 80-90 \times 5-6; sporidiis subdistichis, elongatis, utrinque attenuatis, uniseptatis, interdum 3-septatis, 16 \times 4.

Hab. in matrice non indicata pr. Blumenau Brasiliæ (MÖLLER).

HYPOCREA Fr. — Syll. II, p. 520, IX, p. 972, XI, p. 361.

I. *Eu-Hypocrea* Sacc.

1. **Hypocrea fulva** Penz. et Sacc. Malpighia XI, 1897, p. 520. — 2450 Stromatibus subsparsis, basi plana superficialibus, pulvinato-depressis, ambitu orbiculari-sinuosis, fulvis, minute colliculosis, carnosulis, 1-3 mm. diam.; peritheciis immersis, globulosis, 180-200 μ . d., ostiolo papillato prominulo; ascis cylindraceutis, deorsum acutatis, apice rotundatis, 120-140 \times 6-7, octosporis; sporidiis didymis, ex hyalino dilute olivaceis, articulis inæqualibus, 7-8 \times 5 v. 5-6 μ . d., dein secedentibus.

Hab. in ramis emortuis decorticatis v. corticatis, Tjibodas, ins. Java. — Forma et colore ancene fulvo stromatis dignoscenda species.

2. *Hypocrea alba* A. L. Smith. Journ. of Bot. 1895, p. 343. — Sub- 2451
libera, rotundata, hemisphærica vel sulvinata alba; peritheciis mi-
nutis, globosis, immersis, flavis, 140 μ . diam., ostiolis punctiformi-
bus, fuscis; ascis cylindræcis, 40 \times 4 $\frac{1}{2}$; sporidiis monostichis,
ayalinis, e duabus cellulis æqualibus compositis, cellulis singulis
globosis, 3 $\frac{1}{2}$ -4 μ . diam.
Hab. ad ramos siccos p. Masai Afr. austr.
3. *Hypocrea atro-fusca* P. Henn. Hedw. 1897, p. 220. — Stroma- 2452
tibus carnosis, gregariis, pulvinatis, irregulariter orbicularibus,
sæpè confluentibus, $\frac{1}{2}$ -1 cm diametro, ostiolis papillatis, promi-
nulis, atro-fuscis; peritheciis immersis; ascis cylindræcis, stipitatis,
110-130 \times 6-8; sporidiorum articulis globosis vel ellipsoideis, 1 gut-
tulatis, hyalinis, 6-7 \times 5-7.
Hab. in truncis pr. Blumenau Brasiliæ (MÖLLER). — *Hypocreis*
rufe et *vinosæ* valde affinis, sed stromate, ascis longioribus et
sporidiis diversa.
4. *Hypocrea castanea* P. Henn. in Engl. Jahrb. XXIII, 1896, 2453
p. 285. — Stromatibus subgregariis, superficialibus in mycelio sub
membranaceo, effuso, atro-fusco, pulvinatis vel subhemisphæricis,
centro depresso, castaneis, ca. 4-5 mm. diam., rugulosis, ostiolis
granulato-punctiformibus; ascis cylindræcis filiformibus, basi fasci-
culato-conjunctis, apice obtusis, 45-60 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$, octosporis, mono-
stichis; articulis sporidiorum æqualibus, subglobosis, hyalinis, 3-3 $\frac{1}{2}$.
Hab. in ligno putrido in ins. Upolu ins Samoëns (REINECKE).
5. *Hypocrea succinea* Bres. Hedw. 1896, p. 300 — Stromatibus 2454
gregariis, orbicularibus v. lenticularibus, carnosio-ceraceis, pallide
succineis, intus albidis, 1-2 mm. diam., superficie rugulosa; peri-
theeciis immersis, paucis, prominulis; ascis cylindræcis, 110-120 \times
5-5 $\frac{1}{2}$; sporidiorum articulis subgloboso-cubicoideis, 5-6 $\frac{1}{2}$ \times 4-5.
Hab. ad corticem arborum pr. Blumenau Brasiliæ (MÖLLER).
6. *Hypocrea gelatinosa* (Tode) Fr. — Syll. II, p. 524. — **H. oligo-* 2455
theca Penz. et Sacc. Malpighia XI, 1897, p. 519. — Stromatibus
minoribus, 1 mm circ. inæqualiter globulosis, flavidis, siccis rufu-
lis, ob perithecia prominula mammillosis; ascis cylindræcis, 80 \times 6;
sporidiis inæqualiter didymis, subhyaliis, rugulosis, locul. sup.
subrotundo 6-7 μ . diam., inf. 7-8 \times
Hab. in culmis putridis, Tjibodas ins. Java.
7. *Hypocrea Sclerodermatis* Penz. et Sacc. Malpighia XI, 1897, 2456
p. 519. — Stromatibus solitariis v. confortis, superficialibus, con-
vexo-pulvinatis, 2 mm. diam. v. confluendo 6 mm. diam., glabriu-

sculis, initio ochraceis, demum obscurioribus, superficie colliculosis, intus carnosis, albidis; ascis cylindraceis, brevissime stipitatis, apice rotundatis, aparaphysatis, octosporis, 75-100 \times 3,5-4; sporidiis monostichis didymis, loculis inæqualibus, 3,5 μ . d., olivaceis, sup. globoso. inf. subovato.

Hab. parasitica in peridiis *Sclerodermatis*, Tjibodas, ins. Java. — Affinis *H. pulvinata*, a qua differt sporidiis coloratis, et *H. epimyceti*, a qua recedit stromate basi non coarctato.

3. **Hypocrea pulvinata** Fckl.-Sacc. Syll. II, p. 521. — Var. **serialis** 2457
 Hazsl. Math. es term. Közlem. XXV, 2, Budapest, 1892, p. 20, tab. II, fig. 5. — Stromatibus associatis, plano-pulvinatis, in contactu non confluentibus, sed margines contingentes elevantibus, intus flavescens, superne virescentibus, demum viridi-fulvis, pulverulentis; peritheciis ovalibus stromati immersis; paraphysibus nullis; ascis cylindricis, 8-sporis; sporidiis mox in articulos secundarios globosos uniseriales 3-4 μ crassos secedentibus.

Hab. in superficie *Thelephoræ ochraceæ* in Hungaria.

II. *Homatocrea* Sacc.

9. **Hypocrea discolor** Penz. et Sacc. Malpighia XI, 1897, p. 520. — 2458
 Stromatibus sparsis, effusis, membranaceo-adnatis, 4-5 mm. diam., margine glabris, citrino-ochroleucis, ob perithecia translucida atropurpureo-punctatis; peritheciis globulosis, minutis, rubidis, centro pertusis; ascis cylindraceis, brevissime stipitatis, apice rotundatis, aparaphysatis, 60-70 \times 5-6; sporidiis didymis, articulis globoso-cuboideis, subæqualibus, 4-5 μ . d., ditute chlorinis.

Hab. in corticibus emortuis, Tjibodas ins. Java. — Affinis *H. citrinæ*, a qua differt peritheciis translucide atropurpureis, minus crebris etc.

10. **Hypocrea aurantio-cervina** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2459
 p. 458. — Stromatibus effusis, orbicularibus, 1-2 cm. diam., tenuibus (1 mm.), aurantiacis, siccis cervinis, margine adpressis; peritheciis oblongo-ellipticis, 300 \times 200, nigris, confertis, stromate immersis; ostiolis minutis, sub lente prominulis; ascis tenuibus, p. sp. 50-55 \times 5-6, stipite gracili; sporidiis monostichis, subnavicularibus, brunneis, obtusis, 2-nucleatis, 7-9 \times 3-3 1/2, plerumque excedentibus.

Hab. in cortice, Louisiana Amer. bor. (LANGLOIS).

- 11 **Hypocrea flavidula** P. Henn. Hedw. 1897, p. 221. — Stromatibus 2460
 late effusis, carnosis, planis ambitu nudis, pallidis vel subflavis;

ostiolis prominulis, fuscis; peritheciis immersis, subglobosis; ascis elongato-cylindraceutis, 5-7 μ . crassis, apice obtuso-rotundatis; articulis sporidiorum globosis vel ellipticis, 5 $\frac{1}{2}$ -7 \approx 5-6 $\frac{1}{2}$, hyalinis.

Hab. in ligno decorticato pr. Blumenau Brasiliæ (MÖLLER).

12. **Hypocrea flava** P. Henn. Hedw. 1897, p. 220. — Stromatibus 2461
late effusis tenui-membranaceis, ambitu byssino, albido, flavis, dein olivaceo-fuscis, superficie rugulosis; peritheciis immersis; ascis elongato-cylindraceutis, 75-100 \approx 4-5; articulis sporidiorum globosis v. subglobosis, uniguttulatis, 4-5 μ ., hyalino-fuscidulis.

Hab. ad cortices arborum pr. Blumenau Brasiliæ (MÖLLER).

13. **Hypocrea rhizinæformis** Pat. Bull. Soc. Myc. de France 1895, 2462
p. 88, tab. XI, fig. 5. — Stromatibus dimidiatis, 5-8 cm. longis, 4 cm. latis, ochraceis, convexis, centro crasso (1 cm.), margine tenuiore (2 mm.), effusis, sinuosis, plus minus lobulatis, subtus planis v. concavis, plicatis, pallide ochraceis; peritheciis ovoideis, 260-300 μ . altis, confertis, totam paginam superiorem occupantibus; ascis cylindraceutis, 75 \approx 5-6, octosporis; articulis sporidiorum 16, hyalinis, ovoideis, 5 \approx 3.

Hab. ad truncos in regione congoana gallica (DYBOWSKI).

14. **Hypocrea membranacea** P. Henn. Hedw. 1897, p. 221. — Stro- 2463
matibus tenui-membranaceis, effusis, pallide flavis vel sulphureis, margine pallidis, 1-2 cm. diam.; ascis cylindraceutis apice obtuso-rotundatis, stipitatis, 45-55 \approx 4 $\frac{1}{2}$ -5; articulis sporidiorum globosis 3 $\frac{1}{2}$ -5 μ . episporio flavescenti.

Hab. in ligno corticato pr. Blumenau Brasiliæ (MÖLLER).

15. **Hypocrea glaucescens** Bres. Hedw. 1896, p. 300. — Stromate 2464
late effuso, carnosulo-membranaceo, 1 mm. crasso, alutaceo-pallido, superficie glaucescente vel chlorina; peritheciis dense stipatis, immersis, ostiolis papillatis prominulis; ascis cylindraceutis, 100-110 \approx 6-7; articulis sporidiorum subgloboso-cuboideis, hyalinis, 5-6 \approx 4-5.

Hab. in matrice non indicata pr. Blumenau Brasiliæ (MÖLLER).

III. Podocrea Sacc.

16. **Hypocrea Cornu-damæ** Pat. Bull. Soc. Myc. de Fr. 1895, p. 198, 2465
tab. XIII, fig. 1. — Magna, 5-10 cm. alta, glabra, ochraceo-aurantiaca; stromatibus solitariis vel cæspitosis, erectis, compressis, crassiusculis, superne ad instar cornu damæ expansis corniculatisque, inferne in stipitem sensim attenuatis; peritheciis immersis, globosis, minutis, ostiolis 80-120 μ . diam., vix prominulis; ascis

cylindræis, 8-sporis, 50-65 \times 3-4, apapophysatis; sporidiis hyalinis, bicellularibus, articulis globosis, 1-guttulatis, 3 μ . diam.; contextu albido, carnosu-coriaceo.

Hab. in lignis putridis, Thibet orient.

IV. *Clintoniella* Sacc.

17. *Hypocrea longicollis* Penz. et Sacc. Malpighia XI, 1897, p. 520. — 2466

Stromatibus subsparsis superficialibus, pulvinatis, carnosulis, echinatis, pallidis (in alcohole rubescentibus), 4-5 mm. diam.; peritheciis globulosis, immersis, 550-650 μ . diam., in collum exserto-rostellatum, 600-1200 \times 100-120, productis; ascis cylindræis, fugacibus, apapophysatis, octosporis; sporidiis oblique monostichis, ellipsoideis, uniseptatis, vix constrictis, flavidis, 6,5-7 \times 3,5-4, loculis non secedentibus.

Hab. ad ramos putres, Tjibodas (?), ins. Java. — Affinis (ex icone Persoonii) *H. armatae*, cujus tamen fructificatio omnino ignota est. Ob sporidia ad subg. *Clintoniella*, ob ostiola vero ad *Solenostoma* spectaret.

18. *Hypocrea Euphorbiæ* Pat. Bull. Soc. Myc. de Fr. 1895, p. 228. 2467

— Stromate pulvinato, elongato, per rimam erumpente, $\frac{1}{2}$ cm. longo, 4-5 mm. lato, 2 mm. crasso, sordide rufo, contextu carnosu-coriaceo, anguloso-celluloso; peritheciis ovoideis, $\frac{1}{4}$ mm. altis, semi-exsertis, confertis; ascis (jam elapsis); sporidiis ellipsoideis, hyalinis, nectriaceis, medio 1-septatis constrictisque, 13-15 \times 3-4, non dilabentibus.

Hab. in truncis emortuis *Euphorbiæ* in Æquatoria (v. LAGERHEIM).

VALSONECTRIA Speg. — Syll. II, p. 519.

1. *Valsonectria andina* Pat. Bull. Soc. Myc. de Fr. 1895, p. 227. — 2468

Stromatibus carnosis, aurantiacis, minutis, vix 1 mm. longis, ellipticis, erumpentibus, parum prominulis, primo epidermide tectis, superne truncatis, ex ostiolis vix erectis minutissime punctatis; peritheciis 5-6, monostiche stipatis membranaceis, brunneolis, subglobosis, in ostiola conica, infra brunnea, supra aurantiaca, integra elongatis; ascis 8-sporis, 60-75 \times 10-15, apapophysatis; sporidiis hyalinis, mono-vel distichis, ellipticis, levibus, 1-septatis, leniter constrictis, 15 \times 6, non guttulatis.

Hab. in ramis emortuis *Coriariæ thymifoliæ* in Æquatoria v. I. LAGERHEIM.

CORALLOMYCES B. et C. — Syll. II. p. 519.

1. *Corallomyces elegans* Berk. et Oke Sacc. Syll. II, p. 519. — Var. ²⁴⁶⁹
cameronensis P. Henn. Fungi cameron I, in Engl. Jahrb. XXII, 1895. p. 76. — Stromatibus fruticulosò-ramulosis, atrovinois; peritheciis plerumque aggregatis ovoideis, apice mammiformibus, minute rugulosis, circ. 0,7 mm. longis, 0,4 mm. latis; ascis cylindraceis, stipitatis, apice obtusis, paraphysatis, octosporis, 100-130 \times 8-10; sporidiis monostichis, oblongis v. ollipsoideis, uniseptatis, medio constrictis, carneo-fuscis, 14-20 \times 7-9; paraphysibus filiformibus, non ramosis, 3-4 μ . crassis, hyalinis.

Hab. in lignis putrescentibus. Kamerun (JUNGNER).

2. *Corallomyces Heinsenii* P. Henn. Engl. Jahrb. XXIII. p. 538, ²⁴⁷⁰
 tab. XIV, fig. 2 a-e. — Stromatibus superficialibus, fruticulosis, repentibus v. erectis ramosis coccineis; peritheciis dense gregariis in capitulis subglobosis confluentibusque dispositis, sanguineis, ovoideis, levibus, apice papillatis; ascis 8-sporis, cylindraceis subclavatis, apice rotundatis, stipitatis p. sporif. 95-115 \times 6-8½, pedicello plus minus elongato, usque ad 90 μ . longo; sporidiis oblique monostichis, oblongo-ellipsoideis, utriusque rotundatis, medio 1-septatis paulo constrictis hyalinis, 14-17 \times 6-7; stromatibus conidiophoris repentibus, ramis erectis, cylindraceis coccineis, circ. 1½ mm. longis, apice capitulatis suoglobosis, ceraceis, albo-flavescentibus; conidiis ellipsoideis v. oblongo-ovoideis, continuis, hyalinis, 14-18 \times 8-11.

Hab. in cortice in Usambara. Afr. or. (HEINSEN).

Sect. 3. Phæodidymæ.

LETENDRÆA Sacc. — Syll. II, p. 538.

1. *Letendræa atrata* Penz. et Sacc. Malpighia XI, 1897, p. 514. — ²⁴⁷¹
 Peritheciis late et densiuscule gregariis, in matrice atrata superficialibus, globoso-depressis, 400- μ . diam., e purpureo nigricantibus, glabris, levibus, areola peristomaticea orbiculari rubente, ostiolo punctiformi; peritheciis contextu celluloso, atro-rufò, ostioli radiante rufulo; ascis fusoidè-clavatis brevè stipitatis, 90-95 \times 9, paraphysatis, octosporis; sporidiis distichis, fusoidèis, constricto-1-septatis,

20-22 \times 6, utrinque obtusulis. initio 4-guttatis, subhyalinis, dein olivaceo-tuscis.

Hab. in lignis putrescentibus, Tjibodas, ins. Java.

2 **Letendrea luteola** Ell. et Ev. Proc. Acad. Philad. 1895, p. 415. 2472

— Peritheciis gregariis, superficialibus, crasse membranaceo-carnosis $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., apice luteo-farinosis ibique plus minusve collabentibus, ostiolo breviter cylindraceo firmo donatis; ascis cylindraceis, 75-85 \times 5-6, deorsum leniter attenuatis, indistincte paraphysatis, 6-8-sporis; sporidiis monostichis oblongis, utrinque leniter attenuatis sed obtusis, sæpe subinæquilateralibus, uniseptatis non constrictis, pallide brunneis, 8-11 \times 3-3 $\frac{1}{2}$.

Hab. in ligno putrescente, Ohio Amer. bor. (MORGAN)

Sect. 4. Hyalophragmiæ.

CALONECTRIA De Not. — Syll. II. p. 540, IX, p. 982, XI, p. 363.

I. Eu-Calonectria Sacc.

1. **Calonectria aurantiella** Penz. et Sacc. Malpighia XI, 1897, p. 515. 2473

— Peritheciis laxè gregariis, globoso-depressis, carnosio-lentis, superficialibus, 180-200 μ . diam., flavo-aurantiis; mox umbilicatis, ostiolo rotundo vix papillato; ascis tereti-clavatis, filiformi-paraphysatis, brevè stipitatis, apice obtusulis, 90-100 \times 14-15, octosporis; sporidiis subtristichis, fusoides utrinque acutis, 50 \times 4-5, curvulis, 8-10-septulatis, non constrictis, hyalinis.

Hab. ad ligna putrida superficie obscurata, Tjibodas, ins. Java.

— Ab affinis *C. Plororightiana*, *C. effugiente* etc. differt peritheciis depresso-umbilicatis etc.

2. **Calonectria callorioides** Penz. et Sacc. Malpighia XI, 1897, p. 515. 2574

— Peritheciis hinc inde gregariis, superficialibus, globoso-lentiformibus, albo-flavidis, diaphanis (callorioides), 200 μ . diam., dein leviter excavatis, ostiolo indistincto; contextu tenui, parenchymatico, stramineo; ascis tereti-clavatis, brevè stipitatis, apice rotundatis, 125-145 \times 10-12, 8-sporis; sporidiis distichis, fusoides, curvulis, 30 \times 4-5, utrinque obtusiuscule attenuatis, 7-8-nucleato-septulatis, hyalinis.

Hab. in culmis v. caulibus Monocotyledonum superficie atratis, in Horto bot. Bogoriensi, ins. Java, socia *Chaetosphaeria*. — *Habitus Orbilia* v. *Calloria*.

3. **Calonectria effugiens** Penz. et Sacc. *Malpighia* XI, 1897, p. 515. 2475
 — Peritheciis hinc inde gregariis, superficialibus, globosis, papillatis, $\frac{1}{8}$ mm. diam., albis, dein sordide rubescentibus; ascis clavatis, crassiuscule stipitatis, apice rotundatis, 90-100 \times 14, paraphysatis, octosporis; sporidiis distichis, fuscoideis, utrinque attenuatis, 45-50 \times 5, curvulis, tenuiter 7-8-septatis et cuboideo-nucleatis, non constrictis, hyalinis.

Hab. in caulibus *Monocotyledonum* emortuis in Horto Bogoriensi, ins. Java. — Asci demum ex ostiolo in massulam albam exsistentes.

4. **Calonectria verrucosa** Pat. Bull. Soc. Myc. de Fr. 1895, p. 228. 2476
 — Subiculo mucedineo, albo, parvissimo vel nullo; peritheciis solitariis vel laxissime approximatis, globosis, fusco-succineis, $\frac{1}{8}$ mm. diam., undique verrucis sparsis pyramidatis, cellulosis albis ornatis, contextu melleo, grosse celluloso; ascis aparaphysatis; sporidiis fusiformibus, hyalinis vel dilutissime melleis, transverse 7-septatis, utrinque acutis, rectis vel flexuosis, 50-60 \times 8-10.

Hab. in truncis putridis *Chusqueæ* in Æquatoria (v. LAGERHEIM).

II. *Chiajea* Sacc. Hedw. 1896, p. XXXIII.

5. **Calonectria Hippocastani** (Otth) Sacc. Hedw. 1896, p. XXXIII, 2477
Nectria (Gibbera) *Hippocastani* Otth, Bern. Mittheil. 1868, p. 57.
 — Stromate carnosio pulvinato e dilute miniato fuscescente, sæpius in peridermii rimis confluenta, peritheciis dense obsito; peritheciis minutis, globosis, membranaceis, fusco-brunneis, demum collapsis; ascis cylindricis, octosporis; sporidiis monostichis subimbricatis, oblongis, obtusis, 4-ocularibus et torulosis, 16-18 \times 5, brunneis; paraphysibus filiformibus.

Hab. in ramis *Æsculi Hippocastani* in Helvetia. — Subgenus, quod a cl. phycologo neapolitano Delle Chiaje vocatur, dignoscitur sporidiis 3-septatis, brunneis.

STILBONECTRIA Karst. — Syll. IX, p. 986.

1. **Stilbonectria tonquinensis** Pat. Journ. de Bot. 1897, p. 369. — 2478
 Peritheciis globosis, 110-120 μ . diam., leniter depressois, apice poro pertusis, albis, villosis, sparsis vel in mycelio superficiali velutino albo, maculas orbiculares 3-4 mm. latas formante gregariis; sporidiis hyalinis, fuscoideis, rectis v. vix curvulis, utrinque attenuatis, transverse triseptatis, ad septa non constrictis, 17-20 \times 3-5.

Hab. in cortice vetusto in Tenkin. — Fungi conidiophori sparsi, cylindracei, 350 μ . circiter alti, apice in capitulum 150 μ . crassum rubrum dilatati; conidiis hyalinis, ovoideis, levibus, continuis, 6 \times 3.

GIBBERELLA Sacc. — Syll. II, p. 552, IX, p. 988, XI, p. 363.

1. **Gibberella cyanospora** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, 2479 p. 159. — Peritheciis sparsis, superficialibus, globosis, sæpe vertice complanatis, 500 μ ., amethystino-cæruleis; ascis 8-sporis, claviformibus, subsessilibus, 75-90 \times 14 $\frac{1}{2}$, membrana cyanea; paraphysisibus flexuosis, ramulosis, cyaneis; sporidiis cylindraceis, utrinque attenuatis, in articulos multos divisis, vivide cyaneis, 35-45 \times 2-3.

Hab. in foliis ramulisque Myrtaceæ cujusdam, Costa-Rica.

2. **Gibberella Lagerheimii** Rehm, Hedw. 1895, p. (163). — Peritheciis 2480 epiphyllis, plerumque 3-8 acervatim gregariis, rarius singularibus in foliorum maculis fuscidulis 1-3 mm. lat. insidentibus, piriformibus, demum apice cupuliformiter collapsis, vix poro perspicuo pertusis, atro-fuscis, mollibus, parenchymatice e cellulis magnis, fusco-cæruleis contextis, 0,3-0,4 mm. diam.; ascis clavatis, crassis, sessilibus, 90-120 \times 21-24, octosporis; sporidiis ellipticis, transverse 3-septatis, dilute flavidulis, 24-30 \times 9-10, distichis; paraphysisibus longis, filiformibus septatis, 3 μ . crassis.

Hab. ad folia viva Tessariæ cujusdam, prov. de Pichincha Æquatoriæ (LAGERHEIM).

3. **Gibberella effusa** Rehm, Hedw. 1896, p. (32). — Peritheciis in 2481 ligni superficie longe lateque denigrata dense gregariis, sessilibus, subconoideis, poro inconspicue pertusis, glabris in sicco atris, 150-200 μ . diam., contextu parenchymatico chalybeo-cæruleo, molli; ascis clavatis apice rotundatis, teneris, 70 \times 15, octosporis; sporidiis ellipticis v. oblongo-conoideis, rectis, hyalinis, 4-cellularibus, ad septa haud constrictis, distichis, 12-15 \times 5-6; paraphysisibus articulatis tenuissimis longissimisque, hyalinis, 8 μ . crassis.

Hab. ad lignum cariosum in horto botan. Berol. Germaniæ (SYDOW).

4. **Gibberella Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 2482 p. 237. — Peritheciis superficialibus sparsis v. hinc inde gregariis, globosis, levibus, in sicco non collabescentibus sed rugulosis, parvalis, 150-180 μ . diam., ostiolo non papillato lato (25 μ . diam.) donatis, contextu rigidulo parenchymatico inferne fusco, superne amœne cæruleo, basi in juventute hyphis nonnullis subhyalinis

cinctis; ascis fusoidis anticæ acutiusculis, postice attenuato-pedicellatis, 40-55 × 7-9, aparaphysatis, octosporis; sporidiis fusoidis e curvulo inæquilateralibus, utrinque acutis, 16 × 3 1/2-4, triseptatis, non constrictis, hyalinis.

Hab. ad folia nec non in culmis a frigore biemali enecatis Sacchari officinarum, prov. Tucuman, Argentina.

BROOMELLA Sacc. — Syll. II, p. 557, IX, p. 988, XI, p. 364.

1. *Broomella Lagerheimii* Pat. Bull. Soc. Myc. de Fr. 1895, p. 229. 2483

— Maculis amphigenis, orbicularibus v. elongatis, flavidulis, 1-2 mm. diam.; stromatibus epiphyllis superficialibus, sparsis, orbicularibus, 1/2-1 mm. diam., pulvinato-applanatis, matrici arcte adnatis, superne glabris, inferne piloso-furfuraceis, pilis hyalinis, cylindraceutis, septatis, rigidis sparsis. 300 × 6-9, extus intusque nigro-rubris; peritheciis stromate immersis, dein sem exsertis v. subliberis, globosis, 1/8 mm. diam., dense stipatis, carnosulis, contextu grosse celluloso, brunneo-rubro, non vel vix ostiolatis; ascis 8-sporis, 160 × 10; sporidiis hyalinis v. pallidissime fuscis, ellipticis, utrinque obtusis, 3-septatis, non constrictis, 23-30 × 6-7

Hab. in foliis Bambusacæ «moya» dictæ in Æquatoria (v. LAGERHEIM).

Sect. 5. Hyalodictyæ.

THYRONECTRIA Sacc. — Syll. II, p. 561, XI, p. 364.

1. *Thyronectria sambucina* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2484

p. 458. — Peritheciis 6-12 in quoque stromate, globosis circiter 1/3 mm. diam., brunneis, coriaceis, ostioliis minutis, papilliformibus, inconspicuis, in discum applanatum v. subconcauum, atrobrunneum, epidermidem elevantem mox erumpentem unitis; ascis cylindraceutis, p. sp. 130-150 × 12-20, breve stipitatis, 8-sporis, paraphysibus numerosis evanidis filiformibus obvallatis; sporidiis monostichis, oblongo-ellipticis, 7-septatis muriformibusque, medio leniter constrictis, stramineis, 20-25 × 12-14.

Hab. in ramis Sambuci, Colorado Amer. bor.

Sect. 6. Scolecosporæ.

OPHIONECTRIA Sacc. — Syll. II, p. 563, IX, p. 994, XI, p. 365.

1. **Ophionectria trichospora** (B. et Br.) Sacc. Syll. II, p. 563. — 2485
var. *rufula* Penz. et Sacc. Malpighia XI, 1897, p. 516. — Peritheciis rufescentibus, obscurioribus; ascis 200-220 \times 15-16; sporidiis 130 \times 6.

Hab. in spatha putri Palmarum in Horto Bogoriensi, ins. Java. — Species *Berkeleyana* differret sporidiis longioribus, sed forte mensura exhibitâ non fida.

2. **Ophionectria conica** Penz. et Sacc. Malpighia XI, 1897, p. 516. 2485
— Peritheciis hinc inde gregariis, superficialibus et mox scedentibus, globoso-conicis, acutis, 0,5 mm. diam., fusco-nigricantibus; contextu grosse parenchymatico, rufo-fuligineo, cellulis 15-25 μ . diam.; ascis cylindraceutis, breve stipitatis, apice truncatis initioque acutato-truncatis, 150-170 \times 15-17, paraphysibus tortuosis obvallatis, octosporis; sporidiis subtristichis, bacillaribus. sæpe curvis, utrinque rotundatis, 8-12-septatis, multiguttulatis, 90-115 \times 5-5,5, ex hyalino dilutissime rufo-flavidis.

Hab. in fragmentis ligneis putridis, Tjibedâs, ins. Java. — Subaffinis *O. coccicola* (E. et Ev.) B. et V., sed differt forma colore et glabritie perithecorum etc.

3. **Ophionectria cinnabarina** P. Henn. in litt., *Calonectria* P. Henn. 2487
Hedw. 1897, p. 220. — Peritheciis membranaceo-subceraceis, superficialibus, gregariis ambitu late byssino-membranaceis, pallidis (e filis ramosis, septatis, flavis v. roseis, 4-14 μ . crassis), subglobosis, sessilibus, cinnabarinis, minutè granulosis, 300-360 μ . diam.; ascis clavatis, octosporis, rectis v. curvatis, plus minusve stipitatis, apice obtusis, 100-200 \times 20-30, pedicello hyalino, 30-60 \times 6-8; sporidiis longitudinaliter parallelis, fusoideis, utrinque apiculatis v. subobtusis, rectis v. sigmoideis, 80-180 \times 6-8, hyalinis, multiseptatis (-17), septis haud constrictis, articulis rectangularibus, ca. 10-12 \times 6-8.

Hab. in corticibus arborum pr. Blumenau Brasiliæ (MOELLER). 2488

4. **Ophionectria (Ophiosilbe) Trichiæ** Penz. et Sacc. Malpighia XI, 1897, p. 516. — Peritheciis parasiticis, superficialibus, globoso-conicis, albidis, villosulis, 130-140 μ . diam., ostiolo longiuscule papillato; ascis cylindraceutis, breve stipitatis, apice rotundatis, apara-

physatis, 70-80 \approx 4-4.5, octosporis; sporidiis filiformibus, tenuiter pluri-septatis, 60-65 \approx 0.7-1, hyalinis.

Hab. in peridiis *Trichiaë verrucosæ* Berk., Tjibodas, ins. Java, socio st. conidiophoro: *Stilbo tomentoso* Schrad. v. affini: stipite cylindræo, exquisitè papilloso asperulo, 270-300 \approx 30-35, albido; capitulo subrotundo, 60-65 μ . diam.; conidiis non visis. Ob *Stilbi* consortium species hæc verisimiliter novum genus sistit (*Ophiostilbe*), quod præ *Ophionectria* stat ut *Sphærostilbe* præ *Nectria*.

TUBEUFIA Penz. et Sacc. *Malpighia* XI, 1897, p. 517. (Etym. a cl. doct. lib. Bar. C. TUBEUF, professore monacensi, nunc berolinensi, de studio fungorum parasiticorum optime merito). — Perithecia carnosula, tenella, simplicia, superficialia, plerumque alba, glabra, verticaliter oblonga, apice indeterminate dehiscentia (non papillata), basi atro-radiculosa. Asci tereti-clavati, typice paraphysati, 4-8-sporei, e peritheciis basi nascentes. Sporidia cylindricolacillaria, plerumque asci longitudine, pluriseptata, hyalina. — Ad genus *Barya* (quod *Acrospermo* affine) accedit, sed distinguitur peritheciis nec demum cornicis nec mycogenis nec non defectu byssi conidiophoræ et asci stipitis globuliformis etc. *Tub. anceps* potius ad *Calonectriam* nutat.

1. ***Tubeufia javanica*** Penz. et Sacc. l. c. — Peritheciis gregariis, 2489 verticaliter oblongis, candidis, demum cremeo-roseis, semidiaphanis, carnosulis, 350 \approx 150 (in sicco), basi leviter coarctatis, fuscis, nigro-radiculosis, apice subtruncatis margineque inæqualiter crenulatis, præsertim in sicco, ostiolo indeterminato; contextu peritheciis laxè prosenchymatico, albo-cremeo; hyphis radicularibus, filiformibus, radiantibus, septatis, fuliginis, 5 μ . cr.; ascis tereti-clavatis, 150-200 \approx 18-25, brevè stipitatis, apice rotundatis, filiformi-paraphysatis, octosporis; sporidiis vermicularibus, ascum subæquantibus, 5-6 μ . cr., crebre nucleato-septatis, non constrictis, subhyalinis.

Hab. in culmis *Bambusæ emareidis*, Tjibodas, ins. Java.

2. ***Tubeufia coronata*** Penz. et Sacc. l. c. — Peritheciis gregariis, 2490 verticaliter oblongis, candidis, demum albo-cremeis v. cremeo-roseis, 180-250 \approx 100 (in sicco), semidiaphanis, carnosulis, ima basi leviter coarctatis infuscatis, nigro-radiculosis, apice subtruncatis margineque inæqualiter coronato-tuberculatis, tuberculis globularibus, in sicco oblongis, ostiolo indeterminato; contextu peritheciis laxè prosenchymatico, pallido; hyphis radicularibus filiformibus,

radiantibus, septatis, 5 μ . cr., fuligineis; ascis tereti-clavatis, breve stipitatis, apice rotundatis, parvissime paraphysatis, octosporis, 160-190 \times 25; sporidiis cylindraceis, basi acutatis. ascum æquantibus, 7-8 μ . cr., crebre septatis, non constrictis, hyalinis.

Hab. in caulibus putrescentibus Elethariæ, Tjibodas, ins. Java. — Speciei præcedenti peraffinis, videtur differre peritheciis paullo minoribus, circa apicem multo distinctius tuberculatis, sporidiis crebrius et distinctius septatis.

3. **Tubeufia anceps** Penz. et Sacc. l. c. — Peritheciis gregariis, verticaliter ovoideis, superficialibus, 180-200 \times 80-100, albis, carnosulis, basi leviter coarctatis, nigro-radiculosis, apice rotundatis, non tuberculatis; contextu peritheci tenerrimo, parenchymatico, ex albo fuscidulo; ostiolo parum distincto; hyphis radicularibus radiantibus, fuligineis, septatis, 5 μ . cr.; ascis clavatis, demum breve attenuato-stipitatis, 90-120 \times 11-13, aparaphysatis, octosporis; sporidiis subdistichis, fusoideis, utrinque obtusulis, sæpe curvulis, 5-7-nucleato-septulatis, non constrictis, 35-42 \times 4-5, hyalinis.

Hab. in ramis putridis decorticatis in Java. — Ob sporidiaasco dimidio breviora et perithecia sub apice levia in genere anceps et ad *Calonectriam* vergens.

HYPOCRELLA Sacc. — Syll. II, p. 579, IX, p. 1002, XI, p. 367.

1. **Hypocrella Edwalliana** P. Henn. Hedw. 1897, p. 223. — Stromatibus hypophyllis, rotundato-pulvinatis, primo pallidis, dein aurantiacis, intus flavis, 2-3 mm. diam., bysso pallida late cinctis; ostiolis punctiformibus, obscurioribus, vix elevatis, subimmersis; peritheciis subglobosis, immersis; ascis elongato-fusoideis vel cylindraceo-clavatis, pedicellatis, apice obtusis vel subacutis, 150-250 \times 11-14, aparaphysatis; sporidiis primo filiformibus longitudinaliter parallelis, dein tangentialiter secentibus in particulas subrhomboideas vel fusoideas utrinque longe acuminatas, 14-18 \times 2-3, hyalinis.

Hab. in foliis Lauracæ eujusdam in Brasilia (EDWALL). — Putatur cum *Mcelleriella sulphurea* Bres. (cfr. supra p. 623) congruere.

2. **Hypocrella Pernettyæ** Pat. Ann. Jard. Buitenz. 1897, I suppl. p. 125. — Stromatibus epiphyllis, subsolitariis, globosis v. sublentiformibus, punctatis, sessilibus, carnosis; peritheciis ovoideis, 200-250 μ . diam., ostiolis punctiformibus; ascis clavatis, apice obtusis, deorsum attenuatis, 150-250 \times 10-12, octosporis; sporidiis hyalinis,

filiformibus, septatis, in articulos cylindræcos secedentibus (5-6 \times 1 $\frac{1}{2}$).

Hab. in foliis vivis *Pernettyæ repentis*, Java (MASSART).

- 3 **Hypocrella Reineckeana** P. Henn. Engl. Jahrb. XXIII, 1896, 2494
p. 286. — Stromatibus subglobosis v. pulvinatis, carnosulis, duris, basi applanatis, luteo-brunneis vel subaurantiacis, 1 $\frac{1}{2}$ -3 cm. diam.; peritheciis oblongis, immersis ostiolisque punctiformibus obscurioribus; ascis cylindræcis, apice obtusis, 8-sporis, 90-110 \times 6-8; sporidiis longitudinaliter parallelis, ca. 90 \times 0.5, in articulos innumeros secedentibus, hyalinis.

Hab. ad petiolos et caules *Rhaphidophoræ* cujusdam scandentis in ins. Upolu ins. samoëns. — *H. phyllogena* (Mont.) affinis.

4. **Hypocrella camerunensis** P. Henn. Engl. Jahrb. XXIII, p. 540. 2495

Stromatibus pulvinatis, hemisphæricis, crassis, ramulos tenuiores conferte circumdantibus, sæpe confluentibus, late effusis, miniatis, $\frac{1}{2}$ -3 cm. latis, ca. 5 mm. crassis, minute punctulatis, intus luteis; peritheciis immersis, minutis; ascis elongato-cylindræcis, rectis v. flexuosis, apice rotundato-obtusis, basi angustioribus, 8-sporis, 180-250 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$; sporidiis filiformibus parallelis, multiseptatis (in ascis) in articulos 12-15 \times 0.3 secedentibus.

Hab. in ramis plantæ scandentis (*Combretaceæ*?) in Camerunia (STAUDT).

5. **Hypocrella Mölleriana** P. Henn. Hedw. 1897, p. 222. — Stromatibus 2496

earnosis, duris, pulvinatis, albo-tomentosis, ambitu byssino, dein flavescens, 4-7 mm. diam.; ostiolis punctiformibus, flavis μ ; peritheciis immersis, subglobosis; ascis clavato-cylindræcis, stipitatis, 8-sporis, 150-200 \times 4; sporidiis filiformibus, vix 0.5 μ . crassis, longitudinaliter parallelis in particulas dilabentibus.

Hab. in truncis *Araceæ* cujusdam, pr. *Bignoniæ* Brasilie (MÖLLER).

- Hypocrella ochracea** Masee, Journ. of Bot. 1896, p. 150, t. 375, 2497
fig. 10-13. — Stromatibus hypophyllis, rarissime epiphyllis, sparsis v. gregariis, initio subglobosis, dein hemisphærico-depressis, maturitate margine cinctis, 3-5 mm. diam., pallide ochraceis v. interdum subalbis, firmis, glabris, intus albis, ex hyphis gracilibus dense contextis compositis: peritheciis paucis, immersis, late ovatis, ostiis non exsertis; ascis cylindræco-fusiformibus, apice subcapitatis, deorsum in pedicellum longum attenuatis, plerumque curvulis, jodi op. ubi cœrulescentibus, 250-300 \times 13-15; sporidiis fasciculatis, hyalinis, linearibus, utrinque punctiformibus, multiseptatis, ad septa

constrictis, circiter $200 \times 3\frac{1}{2}$, in articulos ellipticos $10 \times 3\frac{1}{2}$, secedentibus; paraphysis nullis.

Hab. in foliis emortuis et coriaceis, Brasilia (GLAZIOU).

EPICHLÖE Fr. — Syll. II, p. 589, IX, p. 1001, XI, p. 367.

1. **Epichloë Schumanniana** P. Henn. Pilz. Ostaf. p. 32. — Stro- 2493
matibus subcylindraceis, curvatis, subcorniformibus, 3-5 mm. longis, circ. 1 mm. crassis, atro-carbonaceis, glabris levibusque, ostioliis non prominulis, intus albis; ascis elongato-cylindraceis, apice obtuso-rotundatis v. subglobose-incrassatis, 8-sporis, $150-210 \times 4-12$; sporidiis parallelis filiformibus, multiguttulatis, hyalinis, $120-180 \times 0,5-1$.

Hab. in glumis Schizothyrii (Schizostachyi?) brevifolii in Africa trop. (HOLST).

2. **Epichloë Volkensii** P. Henn. Pilz. Ostaf. p. 32. — Stromatibus 2499
vagas ramulorum ambientibus, subcylindraceis, curvatis, corniformibus, semini cornuto similibus, duris, atris, rugulosis, minute papillatis, usque ad 1 cm longis, 2 mm. crassis, apicibus plerumque elongatis; peritheciis subglobosis, ascis cylindraceis, 8-sporis; sporidiis filiformibus.

Hab. in vaginis Andrepogonis exothei in Africa trop. (VOLKENS).

3. **Epichloë Bambusæ** Pat. Ann. Jard. Buitenz. 1897, I. suppl. 2500
p. 125. — Stromatibus hypophyllis, longe lateque effusis, tenuibus, 8-10 cm. longis, atris, carnosulis, asperatis; peritheciis ovoideo-elongatis, $230-260 \times 100$, confertis, numerosis, erectis, ostioliis prominulis; ascis linearibus, cylindraceis, apice obtusis, $130-150 \times 5-7$; sporidiis filiformibus, ascum æquantibus, in articulos cylindraceos dilabentibus, $7-8 \times 2$.

Hab. in foliis Bambusæ, Java (MASSART).

4. **Epichloë Myosura** Pat. Journ. de Bot. 1897, p. 370. — Inflore 2501
scientias graminum occupans easque quasi in clavulam transformans; stromatibus stratum continuum carnosum griseolum ostioliis nigro-punctatum, rugulosum scabrumque formantibus, peritheciis; peritheciis immersis ovoideis, $300-350 \times 100-160$, numerosis, confertis, ostioliis conicis nigris prominulis donatis; ascis cylindraceis, elongatis, $5-6 \mu$. crassis, octosporis; sporidiis linearibus, non septatis, ascos æquantibus; mycelio albedo; spermogoniis in stromate immersis, ovoideis, $160-200 \times 100$; spermatiis cylindraceis, numerosis, fuliginosis, utrinque rotundatis, $3-4 \times 1$.

Hab. in inflorescentiis *Panicis* in Tonkin.

5. **Epichloë Oplismeni** P. Henn. Fg. camerun. I, in Engl. Jahrb. XXII, 2502
1895, p. 76. — Stromatibus ad vaginas foliorum subpulvinatis, oblongis, curvatis, nigerrimis, rugulosis, 3-4 mm. longis, ca. 1 mm. crassis; ascis cylindræis, basi angustioribus, apice subcapitato rotundatis, 8-sporis, 180-220 \times 5-5 $\frac{1}{2}$, sporidiis filiformibus, longitudinaliter parallelis, $\frac{1}{5}$ - $\frac{1}{2}$ μ . crassis, 90-110 μ . longis, continuis, hyalinis.

Hab. ad vaginas deformatas *Oplismeni*, Kamerun (PREUSS).

BALANSIA Speg. — Syll. IX, p. 997, XI, p. 366.

1. **Balansia Jungneri** P. Henn. Fungi camerun. I, in Engl. Jahrb. 2503
XXII, 1895, p. 76. — Mycelio sclerotioideo, corniformi, curvato-striato, brunneo, intus pallido; stromate singulari, apice sclerotii oriente, sessili v. stipitato, subgloboso, nigro, granulato-verrucoso, magnitudine seminis *Viciæ sativæ*, 3 mm. diam., intus pallido v. subviridulo, stipite crasso, subcylindræo, nigro, ca. 1 $\frac{1}{2}$ mm. longo, 1 mm. crasso; peritheciis ascisque immaturis.

Hab. in ovariis *Panicis*, Kamerun (JUNGER).

CORDYCEPS Fr. — Syll. II, p. 366, IX, p. 998, XI, p. 366.

1. **Cordyceps obtusa** Penz. et Sacc. Malpighia XI, 1897, p. 523. — 2504
Stromate atro-brunneo, solitario, erecto; stipite cylindrico, subflexuoso, 6-7 centim. alt., 2 mm. crasso, glabro, levi vel hinc inde squamuloso; capitulo terminali, cylindræo-oblongo, utrinque rotundato-obtuso, 15-18 mm. long., 3-4 mm. crasso, undique tenuissime granuloso-scabro; peritheciis numerosissimis, dense aggregatis, rectis, omnino immersis, ostiolo vix in formam verrucæ prominente, oblongis. 360-370 \times 110-150; ascis cylindræis, 170-180 \times 6,5-7; sporidiis filiformibus, articulatis, 150 \times 1,5-2.

Hab. in larvis Coleopterorum terricolis, subsæpultis, haud rara in Horto botanico Bogoriensi, ins. Java. — Medulla stromatis fibris laxiusculis, undulatis, oblique decurrentibus contexta. Subaffinis videtur *C. Melolonthæ* (Tul.) Cooke (Veget. Wasps, fig. 20-22), ceterum abunde diversa.

2. **Cordyceps coccinea** Penz. et Sacc. Malpighia XI, 1897, p. 524. — 2505
Stromatibus minutis, gregariis, simplicibus, totis rubro-coccineis; stipitibus adscendentibus, curvulis, 3-7 mm. altis, 1 mm. crassis; capitulis terminalibus, simplicibus, lanceolatis vel fusiformibus, utrinque attenuato-acutiusculis, sæpius curvulis, 8-10 mm. long.,

2-4 mm. crassis, pulcre rubris, perithecorum ostiolis prominentibus scabris; peritheciis immersis vel versus clavulæ apicam semiimmersis, rectis vel paullulum obliquis, oblongis, ostiolis prominentibus, 185-210 \times 110-125; ascis cylindraceutis, 150-160 \times 3,5; sporidiis filiformibus, 120 \times 1, in articulos bacillares cylindraceutos, 3,5 \times 1 mox secedentibus.

Hab. in nymphis Coleopteri cujusdam in folliculo vel capsula chitinsa, nigra, compacta inclusis, subterraneis, Tjibodas, ins. Java. — Affinis *C. militari* et *C. adpropinquanti*, sed certe diversa.

3. **Cordyceps citrea** Penz. et Sacc. Malpighia XI, 1897, p. 523. — 2506

Stromate majusculo, toto pulcre citreo, ramoso, capitulis pluribus; stipite erecto, compresso, glaberrimo, long. 4-4,5 centim., lato 5 mm., apice parce ramoso, ramulis erectis, brevibus, cylindraceutis vel compressis; capitulis in apice ramulorum terminalibus vel rarius oblique insertis vel etiam lateralibus ellipticis, obtusis, apice rotundato, perithecorum ostiolis undique scabris, 5-10 mm. long., 2-4 mm. crassis, pulcre luteis vel aurantiacis; peritheciis immersis rectis (haud obliquis), oblongis, parvulis (250 \times 90 μ .), ostiolo verruciformi, prominente; ascis cylindraceuto-clavatis, 200-220 \times 3,5-4; sporidiis filiformibus, articulatis, 180-200 \times 1.

Hab. in larvis Coleopterorum (Lamellicornium?) in terra vel in ligno putrido sepulcorum, Tjibodas, ins. Java. — Species perpulcra, valde singularis et distincta.

4. **Cordyceps Pittieri** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, 2507

p. 160. — Stromatibus cylindraceutis, flexuosis, glabris, 5-6 cm. altis, 4-5 mm. crassis, vulgo geminatis ad basim segmenti cephalici larvæ; clavula perithecigera 1-1 1/2 cm. alta, leviter acuminata, basi prominente, uno latere decurrente, superficie tenuiter granulosa; peritheciis oblongis, 330-360 \times 150-180; ascis vermiformibus, 110-120 \times 6; sporidiis filiformibus, ascos subæquantibus, deinde in articulos secedentibus.

Hab. in larva Coleopteri xylophagi, Costa-Rica.

5. **Cordyceps ? Cusu** Pat. Bull. Soc. Myc. de Fr. 1895, p. 229. — 2508

Stromatibus solitariis vel gregaris, carnosis, ochraceis vel flavis (nec rubris nec aurantiacis), 4-8 cm. altis, 2-3 mm. diam., claviformibus, apice obtusis, glabris, levibus, contextu ochraceo; peritheciis...., e crusta tenui ochracea matricam obducente oriundis.

Hab. in larva Coleopteri cujusdam ad terram in Æquatoria (v. LAGERHEIM).

6. *Cordyceps oxycephala* Penz. et Sacc. Malpighia XI, 1897, p. 521. 2509
 — Stromate rufo-testaceo, solitario, ex cervice Hymenopterorum prorumpente; stipite filiformi, cylindrico, tortuoso, glabro long. 12-16 cm., crass. 1-1,5 mm.; capitulo oblongo-fusoideo, apice acuto, long. 12-15 mm., crass. 2-3 mm., glabro, ostiolis perithecorum prominentibus squamoso-scabro; peritheciis immersis, elongatis, oblique insertis, ostiolo tanquam denticulo prominente, 1000-1100 μ . long., 190-210 μ . crassis; ascis numerosis, cylindraceutis, 100-120 \times 8-9; sporidiis filiformibus, tenuibus, articulatis, 100 \times 1-1,5.
Hab. in cervice *Vespæ* velutinæ Lep., Tjibodas, ins. Java.
 — Affinis *C. sphecephilæ*, a qua tamen videtur differre clava acutiore, scabriore, peritheciis magis obliquis etc.
7. *Cordyceps lachnopoda* Penz. et Sacc. Malpighia XI, 1897, p. 521. 2510
 — Stromate citreo, exiguo, solitario, capitulo longe pedunculato; stipite long. 2-3 centim., 0,4 mm. crasso, pilis incoloribus, patulis undique tecto; capitulo ovoideo; minutulo, long. 1 mm., lato 0,7 mm., ostiolis perithecorum paullum prominulis, obtusis; peritheciis oblique insertis, pro capitulo majusculis, 360-400 \times 170-180, ellipsoideis; ascis cylindraceutis, flexuosis, 140-200 \times 3,5-4; sporidiis filiformibus, vermicularibus, articulatis, hyalinis, 120-150 \times 1.
Hab. in capite Hymenopteri cujusdam, Tjibodas, ins. Java.
 — Species præsertim stipite piloso distinctissima.
8. *Cordyceps Koningsbergeri* Penz. et Sacc. Malpighia XI, 1897, 2511 p. 522. — Stromatibus griseo-olivaceis, solitariis vel rarius compluribus ex eodem corpore prorumpentibus; stipite cylindrico-filiformi, intricato-flexuoso, glabro, usque ad 8-10 centim. long., 1 mm. crass., tenaci, griseo; clavula (in speciminibus juvenilibus) a stipite vix distincta, cylindrico-fusoidea, acuta, levi, 7-8 mm. longa, 1,5 mm. crassa; peritheciis omnino immersis, ostiolis haud prominentibus, sphericis, 120-150 μ . diam.; ascis et sporidiis in speciminibus immaturis haud visis.
Hab. in nymphis *Termitis* sp., epidemica et frequentissima in quadam Termitum colonia, omnes fere incolas enecans, Buitenzorg, ins. Java. — Dedit complura specimina optimus Doct. I. C. KONINGSBERGER, cui speciem dicatam volumus. — Affinis videtur *C. myrmecophilæ* Ces. sed diversa colore, statura majore, clava acutiore etc.
9. *Cordyceps deflectens* Penz. et Sacc. Malpighia XI, 1897, p. 522, 2512
 — Stromate albido, solitario ex ano larvarum Lepidopterorum prorumpente; stipite erecto, flexuoso, carnosio, superne incrassato,

aliquantum irregulari et compresso, squamis vel appendicibus filiformibus carnosis hinc inde instructo, subinde ramoso; capitulo in stipite vel in ejus ramulis terminali, clavato, obtuso, subinde apice bifido, albido; peritheciis subsuperficialibus, basi laxioribus remotis et majoribus, apice confertioribus, minutis, globoso-sphæricis, papillatis, albidis, 350-370 μ . diam.; ascis 170-185 \times 4-5; sporidiis filiformibus, articulatis, 130-150 \times 1.

Hab. in larvis Lepidopterorum in terra sepultis, Tjibodas, ins. Java. — Forte ex habitu affinis *C. Hawkesii* Gray (Cooke, l. c., tab. I, fig. 8), sed distinctissima.

10. **Cordyceps atrobrunnea** Penz. et Sacc. Malpighia XI, 1897, p. 522. 2513
— Stromate atrobrunneo, solitario ex abdomine larvarum Lepidopteri cujusdam in terra sepultarum; stipite cylindrico, robusto, tortuoso, glabro, levi vel hinc inde squamuloso, simplici, 7-7,5 centim. long., 2-2,5 mm. cr.; clavula terminali, cylindrica vel incurva, stipite paullo crassiore, longiuscula (35 mm. long., 3 mm. crassa), oblique inserta, apice acuto. sterili prædita, peritheciolorum ostioliis vix prominentibus nigro-punctulata; peritheciis numerosissimis, omnino immersis, rectis (haud obliquis), oblongis, apice attenuato, 330-370 \times 110-145; ascis cylindræis, 140-175 \times 4-4,5; sporidiis filiformibus, articulatis, 130-140 \times 1.

Hab. in larvis Lepidopterorum sepultis, Tjibodas, ins. Java. — Habitu nonnihil accedit ad *C. Robertsii* (= *C. Huegelii*) et ad *C. Barnesii* (Cooke, Veget. Wasps, fig. 29 et tab. 1, fig. 2), ceterum plurimis notis diversa. Medulla stromatis compacta, uniformis, fibris rectis, longitudinalibus, subtilissimis contexta.

11. **Cordyceps Baumanniana** P. Henn. Engl. Jahrb. XXII, p. 539, 2514
tab. XIV, fig. 5 a-d. — Stipite cylindræo, carnosio, levi, glabro, flavo, 1 1/2 cm. longo, 1 mm. crasso, apice bicapitato; capitulis subglobosis v. hemisphæricis, pulvinatis, carnosis, flavo-aurantiis, punctulatis, 1-1 1/2 mm. diam.; ascis cylindræis, apice obtuso-rotundatis vix incrassatis, stipitatis, 8-sporis, 150-200 μ . longis, 3-3 1/2 μ . latis; sporidiis ascorum longitudine, filiformibus, septatis, in articulos cylindræos, hyalinos, 15 μ . longos, 1 μ . crassos secedentibus.

Hab. in larva cujusdam Lepidopteri in Togo, Afr. occ. (BAUMANN).

12. **Cordyceps submillitaris** P. Henn. Hedw. 1897, p. 222. — Stro- 2515
matibus sparsis v. gregariis, longe stipitatis, clavatis e mycelio membranæo, effuso, superficiali, pallido orientibus, 6-7 cm. lon-

gis, aurantiacis, apice clavato-incrassatis, obtusis, 4-5 mm. crassis; peritheciis subliberis, gregariis, conicis; ascis cylindracois, clavatis, 250-340 \times 3 $\frac{1}{2}$ -4, apice rotundis, 8-sporis; sporidiis longitudinaliter parallelis, filiformibus, in innumeros articulos hyalinos, vix 0,5 μ . crassos secedentibus.

Hab. ad Sphinges pr. Blumenau Brasiliæ (MÖLLER).

13. **Cordyceps Moelleri** P. Henn. Hedw. 1897, p. 221. — Stroma- 2516
tibus sparsis, erectis, pallide flavis, 1 $\frac{1}{2}$ cm. longis; pedicello basi discoideo-radiato, 3-5 mm. longo, 1 $\frac{1}{2}$ mm. crasso; clavula spicata, asperata, apice subulata, sessili, usque ad 5 mm. elongata; peritheciis superficialibus omnino liberis, conico-ovoideis; ascis cylindracois-clavatis, 8-sporis, 250-350 \times 4-5, apice rotundatis; sporidiis filiformibus in articulos secedentibus, 0,5 μ . crassis, hyalinis.

Hab. in Papilione pr. Blumenau Brasiliæ (MÖLLER), in Noctua pr. Ralum Novæ Pommeraniæ (DAHL).

14. **Cordyceps Engleriana** P. Henn. Engl. Jahrb. XXIII, p. 538, 2517
tab. XIV, fig. 3 a-g. — Stomatibus sparsis, flavo-cinereis, 10-13 mm. longis, stipitatis; peritheciis omnino liberis, spicatis (8-20), cylindracois, fusiformibus, apice obtuso-rotundatis, coriaceis, firmis, 1-1 $\frac{1}{2}$ mm. longis, $\frac{1}{4}$ mm. crassis, stipite setiformi, subatro, 6-10 mm. longo, interdum ramoso, curvato; ascis cylindracois, valde elongatis, apice rotundato-incrassatis, 8-sporis, 300-400 \times 8-10: sporidiis filiformibus parallelis, hyalinis, in articulos innumeros, cylindracos 22-25 \times 1 $\frac{1}{2}$ -2 secedentibus; stromatibus conidiiferis filiformibus, apice ramosis, atris, 11-15 mm. longis, 200 μ . crassis, ramulis 4-5 μ . crassis atrobrunneis; basidiis oblongis, 6-7 \times 3 $\frac{1}{2}$ -4; conidiis ovoideo-ellipsoideis, hyalinis, 4-5 \times 3-3 $\frac{1}{2}$.

Hab. in Arachnide in Camerunia (STAUDT).

15. **Cordyceps Wittii** P. Henn. Engl. Jahrb. XXIII, p. 539, t. XIV, 2518
fig. 4 a-c. — Stomatibus magnis, simplicibus v. dichotomis, subteretibus v. compressis, apice subulatis, angustioribus, coccineis, usque ad 9 cm. longis, 2 mm. crassis; peritheciis semiimmersis, hemisphæricis, granuliformibus; ascis cylindracois-oblongis, apice obtuso-rotundatis, haud stipitatis, 8-sporis, 50 \times 14; sporidiis longitudinaliter parallelis, filiformibus subfusoides, utrinque acutis, sæpe curvulis, nec septatis nec secedentibus, 40-45 \times 1.

Hab. in Mygales spec. in Æquatoria (E. WITT).

16. **Cordyceps brasiliensis** P. Henn. Hedw. 1897, p. 221. — Stro- 2519
mate carnosio, cylindracois vel subcompressio, curvato flexuoso, pallido, 5 cm. longo, 2 mm. crasso, apice furcato; peritheciis laxo

gregariis, subspiciformibus, oblongis apice papillatis, liberis vel unilateraliter pulvinato-adnexis, 0,7-0,8 mm. longis; ascis cylindraceis, flexuosis, apice rotundatis, stipitatis, 8-sporis, 220-290 μ . longis, 4-5 μ . crassis; sporidiis filiformibus longitudinaliter parallelis dense guttulatis, 5-6 μ . crassis, haud secedentibus?

Hab. in larvis pr. Rio de Janeiro Brasiliæ (GLAZIOU).

17. **Cordyceps Glaziovii** P. Henn. Hedw. 1897, p. 222. — Stromate 2520
simplici, stipite cylindraceo, torto, flexuoso, pallido, 6 cm. longo, 2-3 mm. crasso, apice capitato; clavula peritheciigera ovoideo-sphæroidea, rufo-brunnea, granulato-verrucosa, 5-7 \times 5 mm.; peritheciis immersis, subglobosis; ascis cylindraceis, 120-180 \times 4-5, apice hemisphærico v. capitato, incrassatis; sporidiis filiformibus, multi-septatis, dense guttulatis, in articulos numerosos, $\frac{1}{2}$ μ . crassos secedentibus.

Hab. in larva Papilionis? pr. Rio de Janeiro Brasiliæ (GLAZIOU).

18. **Cordyceps velutipes** Maseo, Ann. of Bot. 1895, p. 21. — So- 2521
litaria v. sæpius aggregata, ex parte inf. articuli cervicalis larvæ oriunda, tota brunneo-ochracea (in sicco); stipite simplici v. furcato 2-4 cm. longo, 3-4 mm. cr., sæpius inflexo, deorsum dense piloso, sursum demum glabrato; clavula subglobosa v. late ovata, 1 cm. longa; peritheciis subimmersis; ascis angustis, sub apice capitato contractis, octosporis; sporidiis parallele fasciculatis, multiseptatis, 150-160 \times 2.

Hab. in larvis Elateridum Klersdorf in Africa austr. (ALSTON).

19. **Cordyceps Carabi** Qué. XXI Suppl. p. 7, tab. IV, f. 19 (Ass. 2522
Franç. 1897). — Stipite subfiliformi 5-6 cm. long. flexuoso, basi 0,6-0,8 mm. cr., glabro, violaceo, e mycelio sulphureo pallente oriundo; capitulo sphærico, 3-4 mm. cr. lilacino, eleganter reticulato; peritheciis ovoideo-sphæricis, $\frac{1}{2}$ mm. diam.; ascis linearibus 50-60 μ . long. 8-sporis; sporidiis capillaribus, hyalinis, demum in articulos cylindraceos, 4 μ . longos secedentibus.

Hab. in larvis Carabi (aurenitentis?) humi jacentibus in silvis montanis agri Tridentini et Juræ (BRESADOLA et QUÉLET).

20. **Cordyceps Callidii** Qué. XXI Suppl. p. 7, f. 17, in Assoc. Franç. 2523
1897. — Stipite filiformi fibroso-carnosulo, flexuoso, plus minus longo, 3-7 cm., glabro, lilacino-roseo, e mycelio pannoso fulvo oriundo; capitulo oblongo-fusoideo, 5-8 mm. longo, violaceo v. lilacino, ostiolis obscurioribus punctato, peritheciis ovoideis 0,4-0,5 mm. d.

membranaceis lilacinis; ascis 8-sporis; sporidiis capillaribus, moniliformibus, 50-60 μ . long., in articulos triloculares secedentibus, locellis 2 μ . diam.

Hab. in larva Callidii in arborum caudicibus, Champagne et Jura (BOUDIER et QUÉLET). Quoad *C. Helopis* Q. cfr. Quél. i. c. f. 18.

21. **Cordyceps Henleyæ** Masee, Ann. Bot. VIII, p. 119, cum tab. 2524 et in Rev. mycol. 1899, p. 3, t. 179, f. 1-12. — Solitaria, e regione cervicali larvæ oriunda; stipite erecto, 18-20 cm. long., $\frac{2}{3}$ cm. cr., cylindraceo, basi leniter constricto, brunneo pallido, tenuiter velutino, sicco longit. striato, sursum dendroideo-ramoso; ramis fertilibus 7-9, in corymbum dispositis, 6-10 cm. long., $\frac{1}{2}$ cm. cr., deorsum tenuatis; peritheciis superficialibus, confertis, ampulliformibus, ostiolo elongato brunneo-pallido; ascis anguste clavatis, stipitatis, octosporis; sporidiis parallele fasciculatis, contortis, hyalinis, linearibus utrinque attenuatis, multisepatis, 125-130 \times 2, in articulos 2-5 μ . longos demum secedentibus.

Hab. in larva quadam magna Hepiali, Victoria Australiæ (Miss. M. HENLEY).

22. **Cordyceps isarioides** Curtis ap. Masee in Rev. mycol. 1899, 2525 p. 8, t. 178, fig. 36-39. — Gregaria, e mycelio denso, albo, larvam omnino obvolvante oriundo; stipite 4-8 mm. longo, 1-5 mm. cr., cylindraceo, glabrescente, ochraceo (in sicco), passim curvulo; capitulo cylindraceo 3-6 mm. longo, obtuso, stipitem non excedente; peritheciis omnino superficialibus, ampulliformibus, ostioliis elongatis ochraceis patentibus; ascis anguste cylindricis, tenuiter capitatis, in stipitem gracilem tenuatis, octosporis; sporidiis filiformibus, continuis, flexuosis, hyalinis, 125-135 \times 1, parallele fasciculatis.

Hab. in fragmentis larvæ cujusdam in Amer. bor. (CURTIS n. 6521).

23. **Cordyceps Luntii** Giard, Bull. Soc. entom. Fr. 1895, p. CLXXXI 2526 et in Rev. myc. 1899, p. 11. — Tota rubro-aurantia; capitulo apice sterili donato, 5 mm. cr., stipite e subiculo pannoso-velutino larvam obducente nascente, 2 cm. longo, 1 mm. cr.; peritheciis punctiformibus, brunneis; ascis...

Hab. in larva Elateridis cujusdam e tribu Argypnorum, in Gallia.

24. **Cordyceps albella** Masee in Rev. mycol. 1899, p. 10, *Cordyceps* 2527 *albidus* B. et Curt. in Herb., nec Pat. — Stipitibus numerosis, gracilibus, e parte inf. thoracis et abdominis oriundis, albidis v. fla-

vido tinctis, 0,5-1 cm. alt., 1-2 mm. cr. cylindræis v. claviformibus (immaturis).

Hab. in forma perfecta Gryllidæ cujusdam, Cuba (WRIGHT, n. 890). — Insectum mucedinea alba obvolutum est.

25. **Cordyceps Mawleyi** Weswood Gard. Chron. 1891, p. 553, f. 115 2528
et in Rev. mycol. 1899, p. 10.

Hab. in utraque extremitate larvæ Noctuæ v. Hepiali humi dejectæ in Britannia. — Status isarioideus, constans ex filamentis copiosis, emergentibus et ex clava gracili, flexuosa, cm. 2,5 longa.

26. **Cordyceps Stenocori** QuéL. XX, Suppl. 1895, p. 7, t. VI, fig. 18. 2529
— Stipite subfiliformi, 2-3 cm. longo, simplici v. ramoso, albo-floccoso, æque ac mycelio; capitulo fusoides v. linguiformi, simplici v. diviso, pulverulento, albo; conidiis ellipsoideis, 5 μ long., 2-3-guttulatis, hyalinis.

Hab. in parte sup. corporis Stenocori mordacis, Vosges (RENÉ FERRY). — Proxima videtur *C. militari*.

Fam. 4. Dothideaceæ NITS. et FUCH.

Sect. 1. Hyalosporæ.

PHYLLACHORA NITS. — Syll. II, p. 594, IX, p. 1006, XI, p. 368.

1. **Phyllachora Anonacæ** Rehm, Hedw. 1897, p. 373. — Stromatibus 2530
in maculis hypophyllis, irregulariter orbicularibus, usque ad 5 mm. diam., dein confluentibus, rufescentibus innatis, in epiphylo in maculis nigris conspicuis, semiglobosis, nigris, haud nitentibus, 0,3-0,5 mm. diam., punctulatis, oculis 2-3; ascis cylindræis, obtusis, 8-sporis, circiter 90 \times 12; sporidiis oblongis, obtusis, 1-cellularibus, guttulis oleosis repletis, hyalinis, monostichis, 12 \times 6; paraphysibus filiformibus.

Hab. in foliis Anonacæ cujusdam pr. São Francisco Brasiliæ (ULE).

2. **Phyllachora Hibisci** Rehm, Hedw. 1897, p. 370. — Stromatibus 2531
in foliorum maculis epiphyllis subferrugineis, hypophyllis rufescentibus, 2-3 mm. latis, demum confluentibus insidentibus, centraliter sessilibus, amphigenis, semiglobosis, 0,2-0,3 mm. diam., demum 2-3 connatis, atris, in hypophylo nitentibus, 1-3-ocularibus; ascia

clavatis, rotundatis, 8-sporis, 90×15 ; sporidiis ellipticis, 1-cellularibus, guttulis oleosis repletis, hyalinis, distichis, 18×7 ; paraphysibus filiformibus.

Hab. in foliis vivis Hibisci, Brasilia (ULE).

3. **Phyllachora pestis-nigra** Speg.-Sacc. Syll. IX, p. 1014. — Var. 2532
caracaënsis Rehm, Hedw. 1897, p. 368. — Stromatibus epiphyllis in foliis haud maculatis, pagina inferiore concave contracta, sessilibus, sæpe confluentibus, irregularibus, convexulis, colliculosis, atris, nitentibus, 2-4 mm. diam., carbonaceis, intus subfuscis; ascis cylindraceutis, octosporis, $75-90 \times 8$; sporidiis oblongis, rotundatis, hyalinis, $8-9 \times 5-6$; paraphysibus ramosis.

Hab. in foliis Malpighiaceæ cujusdam pr. Caraca, Minas Geraes Brasiliæ (ULE). — A typo stromatibus minoribus differt.

4. **Phyllachora Collææ** Rehm, Hedw. 1897, p. 369. — Stromatibus 2533
 epiphyllis, folio haud mutato innatis, convexulis, colliculosis, irregulariter 2-4 mm. diam., atris, nitentibus, plurilocularibus; ascis ellipticis, sessilibus, usque ad 70×15 , octosporis; sporidiis fusiformibus, rectis, unicellularibus, hyalinis, distichis, 18×5 ; paraphysibus filiformibus.

Hab. in foliis Collææ argentinæ, Argentina.

5. **Phyllachora dalbergiicola** P. Henn. Hedw. 1897, p. 224. — Stro- 2534
 matibus epiphyllis, sparsis vel gregariis, pulvinatis, rugulosis, atris, nitidis, $1-1\frac{1}{2}$ mm. diametro; peritheciis (3-6) subglobosis; ascis clavatis, obtusis, sessilibus, 8-sporis, $45-55 \times 18-26$; sporidiis subdistichis, interdum conglobatis, late ellipsoideis, utrinque rotundatis, inæquilateralibus, continuis, intus guttulatis, hyalinis, $11-14 \times 7-9$.

Hab. in foliis Dalbergiæ spec. in Brasilia (MALME). — A *Phyllachora Dalbergiæ* Niessl ascis et sporidiis multo brevioribus distincta.

6. **Phyllachora Desmodii** P. Henn. Pilz. Ostaf. p. 34. — Stromati- 2535
 bus epiphyllis, sparsis v. gregariis, minutis, punctiformibus, pulvinatis, atris, nitentibus; peritheciis 1 vel paucis, atris; ascis cylindraceuto-clavatis, obtusis, vix pedicellatis, 8-sporis, $43-46 \times 6-7$; sporidiis oblique monostichis, ellipsoideis v. subovoideis, continuis, hyalino-subfuscescentibus, $9-10 \times 6-7$.

Hab. in foliis Desmodii Scalpe in Africa trop. (VOLKENS).

7. **Phyllachora amphidyma** Penz. et Sacc. Malpighia XI, 1897, p. 504. 2536
 — Stromatibus laxè gregariis, innatis, epiphyllis, sed in pagina aversa quoque visibilibus (hinc amphidymis), orbicularibus, marginulo epidermico adhærente cinctis, utrinque convexo-appplanatis,

vix 1 mm. d., levibus, atro-nitentibus, 2-5-locularibus, loculis globulosis, 0,3 mm. diam., ostiolis punctiformibus; ascis cylindræis, breve stipitatis, apice rotundatis, 100-125 \times 7-8, octosporis, filiformi-paraphysatis; sporidiis monostichis, oblongo-ellipsoideis, rectis, 14-16 \times 6, obsolete 2-guttatis, hyalinis.

Hab. in foliis nondum emortuis Salaciæ Brunnerianæ, ovalifoliæ et oblongifoliæ in Horto bot. Bogoriensi, ins. Java. — Pluribus affinis, e. g. *Ph. triviali*, *paraguayæ*, *abyssinice*, sed præsertim *Ph. explanatæ* (Lév.) Sacc., a qua tamen stromatibus convexis nec planis, ascis cylindræis nec fusoides etc. dignoscitur.

8. **Phyllachora perihëbuyensis** Speg. — Sacc. Syll. IX, p. 1017. — Var. 2537
bullosa Rehm, Hedw. 1897, p. 368. — Stromatibus hypophyllis, pagina superiore folii profunde foveolata et subsanguinea decolorata, vel ramulicolis, ramulis denigratis et verrucose suberosis usque ad 1 cm. longis, 0,5 cm. latis lateraliter intumescensibus insidentibus, atris, verrucosis, intus albidulis, 2-4 mm. diam., loculis plurimis globosis immersis; ascis cylindræis, usque 120 \times 10, octosporis; sporidiis oblongis, obtusis, 1-cellularibus, hyalinis, 12-15 \times 6,7, monostichis; paraphysibus filiformibus.

Hab. in foliis ramulisque Miconiæ, Minas Geraës Brasiliæ (ULE).

9. **Phyllachora Negeriana** P. Henn. et Lind. Hedw. 1897, p. 225. 2538
 — Stromatibus epiphyllis, pulvinatis, acutangulis, sæpe confluentibus, nigris, nitentibus, 2-8 mm. diam.; peritheciis immersis, subglobosis; ascis cylindræo-clavatis, octosporis, apice rotundatis, breviter stipitatis, 100-120 \times 20-33; sporidiis monostichis v. subdistichis, oblongis, utrinque rotundatis, crasse tunicatis, hyalinis, intus nebulosis, 18-22 \times 10-14; paraphysibus filiformibus, 2 μ . cr.

Hab. in foliis Kageneckia oblongæ pr. Santiago in Chile (NETZER). — Sporidia strato hyalino 1-1½ μ . crasso demum evanescente obvolutis.

10. **Phyllachora Feijoa** Rehm, Hedw. 1897, p. 370. — Stromatibus 2539
 epiphyllis, irregulariter orbicularibus, tenuibus, verrucosis, loculis plus minusve congregatis et hemispherice prominentibus, poro conspicuo pertusis, atris, nitentibus, 2-5 mm. diam.; ascis clavatis, rotundatis, 8-sporis, 60 \times 25; sporidiis oblongis, obtusis, 1-cellularibus, guttulis oleosis repletis, hyalinis, distichis, 18 \times 10; paraphysibus filiformibus.

Hab. in foliis vivis Feijoa, pr. Serra Geral, Minas Geraës Brasiliæ (ULE).

11. *Phyllachora subopaca* Rehm, Hedw. 1897, p. 367. — Stroma- 2540
 tibis epiphyllis, in hypophyllo haud conspicuis, suborbicularibus, colliculosis, atris, nitentibus, subcarbonaceis, 3-6 mm. diam.; ascis cylindraceutis v. fusoides, octosporis, $75 \times 10-15$; sporidiis oblongis, rotundatis, 1-cellularibus, guttulis oleosis repletis, (an demum 2-cellularibus?) viridulo-hyalinis, monostichis, $12-14 \times 7$; paraphysibus filiformibus.

Hab. in foliis Myrtaceæ cujusdam, Paraguay (BALANSA).

12. *Phyllachora Urbaniana* Allesch. et P. Henn. Hedw. 1897, p. 236. 2541
 — Stromatibus amphigenis, plerumque hypophyllis, circularibus, gregariis, sæpe confluentibus, multilocularibus, tuberculatis, vertice umbilicatis et sæpe papillatis, nitentibus, atris; ascis oblongo-clavatis, vertice attenuatis, sed obtusis, crasse stipitatis, 8-sporis, ca. $70-90 \mu$. et ultra longis, $16-18 \mu$. crassis; sporidiis distichis, fusoides, inæquilateralibus vel subcurvulis, utrinque acutiusculis, pluriguttulatis, continuis, hyalinis, ca. $14-15 \mu$. longis, $6-8 \mu$. crassis.

Hab. in foliis Myrtaceæ cujusdam pr. Goyaz Brasiliæ (GLAZIOU).

13. *Phyllachora distinguenda* Rehm, Hedw. 1897, p. 367. — Stro- 2542
 matibus epiphyllis in foliis vix maculatis insidentibus, irregulariter orbicularibus, oblongis v. ellipticis, convexis, innatis, subcolliculosis, ostiolis minutissimis conspicuis, atris, nitentibus, 2-3 mm. diam., carbonaceis; ascis ellipticis, octosporis, $60-70 \times 18$; sporidiis oblongis, obtusis, rectis, 1-cellularibus, guttulis oleosis repletis, hyalinis, biv. vel tristichis, $18-20 \times 4\frac{1}{2}$; paraphysibus filiformibus.

Hab. in foliis vivis Myrtaceæ cujusdam pr. Ouro Preto Brasiliæ (ULE).

14. *Phyllachora Lehmanniana* P. Henn. Hedw. 1897, p. 225. — Stro- 2543
 matibus hypophyllis, pulvinatis, confluentibus, 3-4 mm. diametro, atris, nitidis; peritheciis subglobosis; ascis cylindraceuto-clavatis, pedicellatis, apice rotundatis, octosporis, $95-120 \times 12-16$; paraphysibus filiformibus; sporidiis monostichis vel subdistichis, oblongis biguttulatis, hyalinis, $17-22 \times 5-6$.

Hab. in foliis Vochysiæ Lehmanni in Columbia (LEHMANN).

15. *Phyllachora nidulans* Pat. - Sacc. Syll. XI, p. 371. — Var. *Senecionis* Pat. Bull. Soc. Myc. de Fr. 1895, p. 230. — Stromatibus 2544
 epiphyllis, sparsis, minutissimis, convexis, atris; loculis 3-5; ascis aparaphysatis?, $70-80 \times 9-12$; sporidiis ovoideis, hyalinis, $15 \times 8-10$.

Hab. in foliis Senecionis in Æquatoria (v. LAGERHEIM).

16. *Phyllachora physalosporoides* Rehm, Hedw. 1897, p. 371. — 2545

Stromatibus in superiore foliorum pagina vix decolorata gregarie innatis, fusco-atris, convexulis, 1 (?) locularibus, submembranaceis, 0,2-0,3 mm. diam., interdum arcte connatis; ascis cylindraceis, rotundatis, 8-sporis, $70 \approx 10$; sporidiis oblongis, obtusis, 1-cellularibus, guttulis oleosis minimis repletis, dilutissime flavido-hyalinis, monostichis, $12 \approx 7$; paraphysibus filiformibus.

Hab. ad folia viva Compositæ ejusdam juxta mare crescentis pr. Itajahy Brasilæ (ULE).

17. **Phyllachora Psychotriæ** Rehm, Hedw. 1897, p. 371. — Stromatibus 2543
amphigenis, maculis vix conspicuis decoloratis innatis, oblongis v. irregularibus, colliculosis, atris, subnitentibus, submembranaceis, 2-5-locularibus, 1-2 mm. diam.; ascis cylindraceis, $90 \approx 6-7$, octosporis; sporidiis ellipticis, 1-cellularibus, guttulis oleosis repletis, hyalinis, $10 \approx 5$, monostichis; paraphysibus filiformibus.

Hab. in foliis siccis Psychotriæ in Brasilia.

18. **Phyllachora Randiæ** Rehm, Hedw. 1897, p. 371. — Stromatibus 2547
epiphyllis, folio haud mutato innatis, subnitentibus, nigris, semiglobosis, 2-3 irregulariter congregatis, 0,3-0,5 mm. diam., subcarbonaceis, loculis 1-3 immersis; ascis cylindraceis v. subfusiformibus, 8-sporis, $50-60 \approx 10-12$; sporidiis oblongis, obtusis, 1-cellularibus, hyalinis, mono-vel distichis, $12 \approx 5$; paraphysibus filiformibus.

Hab. in foliis Randiæ pubescentis, Bolivia (HIERONYMUS et LORENTZ).

19. **Phyllachora Plantaginis** Ell. et Ev. Proc. Acad. Philad. 1895, 2548
p. 427. — Stromatibus epiphyllis, gregariis, maculis exsiccatis insidentibus, convexo-hemisphaericis, nigris, $\frac{1}{4}-\frac{1}{3}$ mm. diam. vel confluentibus et majoribus, basi innatis, apice papilliformi, loculis stylosporibus oblongis, hyalinis, biguttulatis, $6-8 \approx 2-2\frac{1}{2}$, metientibus repletis; ascis maturis non visis.

Hab. in foliis Plantaginis Rügелиi, Wisconsin, Amer. bor. (I. DAVIS).

20. **Phyllachora Aspidospermatis** Rehm, Hedw. 1897, p. 369. — 2549
Stromatibus gregariis, epiphyllis, innatis, convexulis, fusco-nigris, 0,3 mm. diam., solitariis vel binis confluentibus, 1-locularibus, submembranaceis; ascis fuscoideis, $75 \approx 15$, octosporis; sporidiis oblongis, rotundatis, 1-cellularibus, hyalinis, $12 \approx 6$, mono-vel distichis; paraphysibus filiformibus.

Hab. in foliis Aspidospermatis Quebracho, Paraguay (BALANSA).

21. **Phyllachora Alyxiæ** Pat. Bull. Soc. Myc. de Fr. 1896, p. 136. 2550

— Maculis nullis; stromatibus epiphyllis, sparsis, orbicularibus, convexis, nitentibus, atris, $\frac{1}{2}$ -2 mm. diam., 2-4-ocularibus; loculis angulosis, intus albis, poro minuto, 20 μ . lato, pertusis; ascis cylindraceutis, 8-sporis, 80-100 \approx 10; paraphysibus parum distinctis; sporidiis hyalinis, monostichis, ovatis levibus, 2-guttulatis, 13-16 \times 6-7.

Hab. in pagina super. foliorum *Alyxiæ*, ins. Tahiti.

22. **Phyllachora Henningsii** Sacc. et Syd. *Phyllachora crotonicola* P. 2551

Henn. Hedw. 1895, p. 322, nec Pat. — Stromatibus amphigenis sparsis, carbonaceis, nigris, rugulosis, hemisphærico-pulvinatis, $\frac{1}{2}$ mm. diam.; ascis cylindraceuto-oblongis, obtusis, subsessilibus, 80-100 \approx 12-14, octosporis, paraphysibus filiformibus obvallatis; sporidiis late ellipsoideis, monostichis raro subdistichis, intus granulatis, hyalinis, 11-13 \times 7-9.

Hab. in foliis *Crotonis* spec., Goyaz Brasiliæ (ULE).

23. **Phyllachora Julocrotonis** Bres. Hedw. 1896, p. 300. — Maculis 2552

nullis; stromatibus epiphyllis, innato-superficialibus, subglobosis vel pulvinatis, laxe gregariis, subruguloso-papillatis, carbonaceis, atro-nitentibus, $\frac{1}{2}$ -1 mm. latis, 1-4-ocularibus, loculis maiusculis; ascis cylindraceutis, crassiuscule pedicellatis; paraphysibus filiformibus obvallatis, 100-120 \approx 10-12; sporidiis recte v. oblique monostichis, ellipticis, uno latere compressis, chlorino-hyalinis, 14-16 \times 8-10.

Hab. ad folia viva *Julocrotonis* spec. pr. Blumenau Brasiliæ (MÖLLER). — Species hæc stromatibus sæpe 1-ocularibus, forma fere perithecioidæ ad *Physalosporam* plane accedit, sed eorum natura prorsum dothideacea. *Phyllachora Michellii* Speg. videtur valde affinis. Sec. cl. P. Hennings *Phyllachora Julocrotonis* Bres. et *Trabutia crotonicola* Rehm (Sacc. Syll. IX, p. 601) sunt *Phyllachora Crotonis* (Cke.) Sacc. Syll. II, p. 599.

24. **Phyllachora Euphorbiaceæ** Rehm, Hedw. 1897, p. 372. — Stro- 2553

matibus amphigenis, gregariis, innatis, convexis, atris, nitentibus, singularibus vel 2-3 confluentibus, demum verruculosus, loculis 1-3; ascis cylindraceutis, rotundatis, 8-sporis, 60-75 \times 10-12; sporidiis oblongis, 1-cellularibus, hyalinis, monostichis, 10 \times 5.

Hab. in foliis *Euphorbiaceæ* cujusdam, Paraguay (BALANSA).

25. **Phyllachora ficicola** Allesch. et P. Henn. Hedw. 1897, p. 236. 2554

— Stromatibus amphigenis, in pagina superiore folii magis evolutis, inferiore minus distinctis, rotundatis vel oblongis, subconicis, vertice applanatis, nitidis, atris, ca. 1-2 mm. latis, loculis minutis; ascis 4-sporis?, paraphysatis; sporidiis oblongis, utrinque obtusis,

continuis, granulatis, hyalinis, ca. 16-20 μ . longis, 6-8 μ . crassis; paraphysibus filiformibus.

Hab. in foliis Fici spec. pr. Goyaz Brasiliæ (GLAZIOU).

26. **Phyllachora topographica** Sacc. sp. n. — Stromatibus hypophyllis, 2555
innato-erumpentibus, punctiformibus, orbiculari-angulosis, vix $\frac{1}{2}$
mm. diam., convexulis, nigris, hinc inde in insulas angulosas (topo-
graphiæ urbium ad instar) dense collectis, paucilocularibus, ostiis
obsoletis; ascis biformibus, nunc cylindraceutis 50-60 \times 8, nunc cla-
vatis 41-50 \times 12, breve stipitatis, 8-sporis; sporidiis monostichis v.
distichis, subglobois, 7-10 \times 7-8,5, e mutua pressione subinde an-
gulosis, sæpeque transverse positis, hyalinis.

Hab. in foliis adhuc vivis Fici sp., Lankok Tonkin, Sept. 1888.

27. **Phyllachora valispora** Rehm, Hedw. 1897, p. 371. — Stroma- 2556
tibus in centro macularum orbicularium, plerumque epiphyllarum,
ferruginearum, 0,5-1 mm. diam. innatis, convexis, nigris, nitidis,
plerumque 1-3-locularibus, 0-5 mm. diam., subcarbonaceis; ascis
cylindraceutis v. subfusiformibus, teneris, apice rotundatis, usque
ad 110 \times 12, octosporis; sporidiis oblongis, obtusis, rectis, 1-cellu-
laribus, monostichis, 15-18 \times 4 $\frac{1}{2}$; paraphysibus filiformibus.

Hab. ad folia viva coriacea Oleandri-formia, Brasilia (ULE).

28. **Phyllachora tonkinensis** Sacc. sp. nova. — Stromatibus epiphyllis, 2557
minutis, innato-erumpentibus, hinc inde dense gregariis, orbicula-
ribus v. angulosis, convexulis, atris, $\frac{1}{2}$ -1 mm. diam., pauci-locula-
ribus, ostiis obsoletis; ascis cylindraceutis, 75 \times 9 v. cylindraceuto-
clavulatis, 50 \times 18, octosporis, breve stipitatis; sporidiis ellipsoideis,
monostichis v. distichis, sæpe transverse positis, subinde e mutua
pressione angulosis, intus granulosis, hyalinis, 12-15 \times 9; paraphy-
sibus obsoletis.

Hab. in foliis languidis v. emortuis plantæ ignotæ, Tu-Phap
Tonkin, Dec. 1887 (B. BALANSA).

29. **Phyllachora Tonduzii** Bomm. et Rouss. Bull. Soc. bot. Belg. 2558
1896, p. 161. — Maculis flavescensibus, parum distinctis; stroma-
tibus amphigenis, innatis, sparsis, orbicularibus v. ovatis, 1-4-locu-
laribus, loculis interdum prominentibus, superficie tenuiter granu-
losa; ascis late fusoides, sessilibus, 8-sporis, 72-108 \times 20-28; para-
physibus guttulatis, ramosis; sporidiis distichis v. conglobatis, el-
lipticis, unicellularibus, 25-27 \times 7-10, hyalinis, nubilosus, guttulatis,
deinde fuliginosis (?).

Hab. in foliis ignotis, Costa-Rica.

30. **Phyllachora Timbo** Rehm, Hedw. 1897, p. 371. — Stromatibus 2559

gregariis, hypophyllis, innatis, convexulis, hemisphaericis, atris, subcarbonaceis, 1-ocularibus, poro haud conspicuo, 0,3-0,4 mm. diam.; ascis fusoides, 8-sporis, 75×12 ; sporidiis oblongis, rotundatis, 1-cellularibus, guttulis 2 magnis oleosis præditis, hyalinis, mono- vel distichis, $15-18 \times 5-6$; paraphysibus filiformibus.

Hab. in foliis sub nomine « Timbo » cognitis, Paraguay (BALANSA).

31. *Phyllachora flavocincta* Rehm, Hedw. 1897, p. 370. — Stromatibus epiphyllis in foliorum pagina inferiore orbiculatim dispositis, 32- mm. latis, denigratis et in centro interdum flavescente semiglobosis, basi tenuissime colore flavo tinctis, atris, nitentibus, 1-1,2 mm. diam., 1-3-ocularibus, poro minutissimo pertusis; ascis clavatis vel subfusiformibus, rotundatis, $100-110 \times 12-15$, octosporis; sporidiis oblongis, obtusis, 1-cellularibus, guttulis oleosis minutissimis repletis, hyalinis, $12-14 \times 5-6$, mono-vel distichis; paraphysibus filiformibus. 2560

Hab. in foliis arboris ignotæ pr. Tubarao Brasiliæ (ULE).

32. *Phyllachora costaricensis* Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, p. 160. — Hypophylla; stromatibus superficialibus, semiorbicularibus, pulvinatis, atris, nitentibus, tenuissime granulatis. $\frac{3}{4}$ mm. diam., unilocularibus, sparsis v. confluentibus, in macula sulfurea parum diffusa; ostiolo nullo; ascis octosporis, cylindraceis, clavatis v. parum deformibus. $90-108 \times 15-35$, breviter pedicellatis; paraphysibus simplicibus, flexuosis; sporidiis ovoideis, di-tristichis, continuis, hyalinis, nubilosis, demum flavescentibus, $21-25 \times 10-14$, tenui strato hyalino obvolutis. 2561

Hab. in foliis languidis indeterminatis, Costa-Rica. — *Ph. brasiliensi* Speg. affinis.

33. *Phyllachora?* *Yuccæ* Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 440. — Stromatibus gregariis, ellipticis v. oblongis, $\frac{1}{2}-1\frac{1}{2} \times \frac{1}{2}$ mm. subseriatis, matrice innatis, epidermide nigrificata tectis; loculis $80-90 \mu$. diam., demum confluentibus; ascis oblongo-cylindraceis, sursum attenuatis, aparaphysatis, $50-60 \times 7-8$, granulis v. nucleis oleosis repletis; sporidiis maturis nondum visis. 2562

Hab. in foliis *Yuccæ angustifoliæ*, Mexico (EGELING).

34. *Phyllachora viridulocincta* Rehm, Hedw. 1897, p. 372. — Stromatibus in maculis orbicularibus, dilute viridulis vel flavidulis, epiphyllis innatis, semiglobosis, plerumque 1-ocularibus, 0,3-0,5 mm. diam.; ascis cylindraceis, rotundatis, 8-sporis, 75×9 ; sporidiis ellipticis, utrinque acutatis, 1-cellularibus, hyalinis, monostichis, $12-14 \times 6$; paraphysibus hyalinis. 2563

Hab. in foliis Aroideæ cujusdam pr. Sao Francisco Brasiliæ

(ULE).

35. *Phyllachora Renealmiæ* Rehm, Hedw. 1897, p. 373. — Stromatibus epiphyllis, innatis, folio in hypophyllo fuscidule maculato, suborbicularibus, atris, planis, 2-4 mm. diam., loculis 10-20 immersis, ostiolo papilloso prominentibus; ascis clavatis, 8-sporis; sporidiis fusiformibus, 1-cellularibus, guttulis oleosis repletis, hyalinis, distichis, 18-20 \times 7-8. 2564

Hab. in foliis Renealmiæ pr. S. Catharina Brasiliæ (ULE).

36. *Phyllachora Caricis* (Fr.) Sacc.-Syll. II, p. 625. — Var. **brasiliensis** Rehm, Hedw. 1897, p. 373. — Stromatibus parenchymati haud mutato innatis, globulosis vel linearibus, 0,1-0,2 mm. diam., nigris, vix tuberculatis; ascis clavatis, usque 50 \times 12; sporidiis ellipticis, 12 \times 4 $\frac{1}{2}$. 2565

Hab. in foliis Cyperaceæ cujusdam, Brasilia (ULE).

37. *Phyllachora silvatica* Sacc. et Speg. Syll. II, p. 603. — Forma **brasiliensis** Rehm, Hedw. 1897, p. 374. — Stromatibus suborbicularibus, 0,5-1 mm. diam.; sporidiis 18 \times 6-7. 2566

Hab. in foliis Gramineæ cujusdam pr. Itajahy Brasiliæ

(ULE).

38. *Phyllachora scanica* Starb. Hedw. 1895, p. (162). — Ascis cylindraceis, apice rotundatis, 75-100 \times 12, octosporis; sporidiis ellipticis, unicellularibus, strato mucoso tenui obvolutis, hyalinis, deinde luteolis, intus granulosus, 12 \times 6, monostichis; paraphysibus ramulosis. 2567

Hab. in foliis vivis graminum in Suecia.

39. *Phyllachora cordobensis* Rehm, Hedw. 1897, p. 374. — Stromatibus gregariis, amphigenis, innatis, sublinearibus, 1-4 mm. longis, 0,5 mm. latis, atris, multilocularibus, minutissime punctulatis; ascis cylindraceis, 8-sporis, 70 \times 10; sporidiis ovatis vel ellipticis, 1-(?demum 2) cellularibus, guttulis oleosis repletis, hyalinis, monostichis, 12 \times 5-6; paraphysibus filiformibus. 2568

Hab. in foliis Gramineæ cujusdam, Argentina (HIERONYMUS).

40. *Phyllachora Chusqueæ* P. Henn. et Lind. Hedw. 1897, p. 224. — Stromatibus epiphyllis, pulvinatis, oblongis, plerumque nervos sequentibus et longitudinaliter confluentibus, atris, nitidis; ascis subclavatis vel subfusoides, breviter stipitatis, apice subacutiusculis, octosporis, 65-90 \times 14-20; paraphysibus filiformibus 1 $\frac{1}{2}$ μ . crassis; sporidiis subdistichis, oblongis v. subfusoides utrinque subacutiusculis, hyalinis, 15-19 \times 7-8, intus granulatis. 2569

Hab. in foliis Chusqueæ spec. pr. Concepcion in Chile (NEGER).

— *Phyllachoræ stenosporæ* (B. et Br.) Sacc. affinis.

41. **Phyllachora Tricholænæ** P. Henn. Engl. Jahrb. XXIII, p. 541. 2570

— Stromatibus gregariis v. sparsis interdum confluentibus, pulvinatis, oblongis, atris, nitentibus, plerumque 0,5 mm. longis; ascis clavatis, stipitatis, apice obtusis, 8-sporis, 45-65 × 14-18; sporidiis ellipsoideis, distichis v. subconglobatis, levibus, utrinque obtusis, 11-14 × 6-8.

Hab. in foliis *Tricholænæ roseæ* in Usambara, Afr. or. (BUCHWALD).

42. **Phyllachora Olyræ** Rehm, Hedw. 1897, p. 374. — Stromatibus 2571

gregariis, epiphyllis, folio late rufidulo, in centro macularum in hypophyllo linea circulari signatarum, in medio atropunctatarum, orbicularium innatis, atris, convexis, colliculosis, 1-1,2 mm. diam., 1-2-ocularibus, subcarbonaceis; ascis cylindraceis, 8-sporis, 50 × 7; sporidiis ellipticis, 1-cellularibus, hyalinis, monostichis, 9-10 × 4 1/2; paraphysibus filiformibus.

Hab. in foliis *Olyræ*, Brasilia (ULE).

43. **Phyllachora Boutelouæ** Rehm, Hedw. 1897, p. 373. — Stromatibus 2572

amphigenis, innatis, oblongis, atris, 2 mm. longis, 1 mm. latis. plurilocularibus, membranaceis; ascis cylindraceis, rotundatis, 8-sporis, 90 × 9; sporidiis oblongis, obtusis, 1-cellularibus, guttulis oleosis minutissimis repletis, hyalinis, monostichis, 10 × 7; paraphysibus filiformibus.

Hab. in foliis *Boutelouæ curtipendulæ* var. *aristosæ*. Argentina (LORENTZ).

44. **Phyllachora graminis** (Pers.) Fekl.-Sacc. Syll. II, p. 602. — Var. 2573

panicola P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 80. — Stromatibus sparsis v. confluentibus, striiformibus, amphigenis, atro-brunneis, opacis; ascis cylindraceo-clavatis, 8-sporis, 86-100 × 10-12; sporidiis oblique monostichis, ellipsoideis, hyalinis, subgranulatis, 11-14 × 7-8.

Hab. in foliis *Panicis*, Kamerun. JUNGNER).

45. **Phyllachora cornispora** Atk. Bull. Cornell Univ. III. n. 1, 2574

1897, p. 11. — Stromatibus vix a *Ph. graminis* recedens, ascis cylindraceis v. clavatis, 50-70 × 10-15; sporidiis mono- vel distichis, longe ovatis, apice latiore appendicula recta v. curvula munitis, 14-17 × 5-7.

Hab. in foliis vivis *Panicis agrostoidis*, Auburn, Alabama Amer. bor.

46. **Phyllachora Cynodontis** (Sacc.) Syll. II, p. 602. — Var. **Chloridis** 2575
P. Henn. Pilz. Ostaf. p. 34. — Ascis oblongis v. clavatis, obtusis, 8-sporis, 40-50 × 7-10; sporidiis oblongis v. subfuscoideis, hyalino-subflavescentibus, guttulatis, oblique monostichis v. conglobatis, 8-11 × 5-6.
Hab. in foliis Chloridis in Africa trop. (HOLST).
47. **Phyllachora diplocarpa** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2576
p. 292; *Homostegia diplocarpa* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 135. — Stromatibus subcuticularibus, nigris, convexis subellipticis, 1-2 mm. diam.; cellulis fertilibus minutis subseriatim dispositis, stylosporas varias generantibus, aliis minutis, suballantoideis, hyalinis, 5-7 × 1 1/2, aliis cylindraceis, guttulatis, dein 3-septatis, 14-23 × 4-4 1/2, hyalinis, demum subolivaceis.
Hab. in culnis Distichlidis maritimæ, Kansas Amer. bor. (BARTHOLOMEW). — Dubia quia asci nondum cogniti.
48. **Phyllachora Hieronymi** P. Henn. Pilz. Ostaf. p. 34. — Stroma- 2577
tibus epiphyllis, gregariis, pulvinato-elevatis, nigro-nitentibus, circ. 0,5 mm. diam.; ascis cylindraceo-clavatis, 8-sporis, vix stipitatis, 50-75 × 15-21; sporidiis plerumque distichis, oblongis, granulatis, hyalino-flavescentibus, 18-26 × 5-7.
Hab. in foliis Cyatheæ Dregei in Africa trop.
49. **Phyllachora fructicola** P. Henn. in Hedw. 1897, p. 236, syn. 2575
Ph. fructigena P. Henn. in Syll. XI, p. 372 nec (Schw.) Sacc. in Syll. II, p. 622.
50. **Phyllachora tenuissima** Sacc. et Syd. Sic dicenda est *Phyllachora tenuis* Speg. in Syll. IX, p. 1009, quum exstet anterior *Ph. tenuis* (Berk.) Sacc. in Syll. II, p. 599.
51. **Phyllachora Spegazzinii** Sacc. et Syd. Sic nominanda est *Phyllachora dispersa* Speg. in Syll. IX, p. 1015, quum exstet anterior *Ph. dispersa* (Schw.) Sacc. in Syll. II, p. 617.
52. **Phyllachora rhytismoides** (Chev. 1826) Sacc. Syll. II, p. 608, equidem anterior et diversa est ab homonyma Cordæ 1840, Sacc. Syll. II, p. 594, sed cum sit adhuc valde dubia nomina non mutanda.
53. **Phyllachora Winteri** Sacc. et Syd. Ita nuncupanda *Ph. Xanthoxyli* Wint. 1887, Syll. XI, p. 370. nec homonyma (Lév.) Cooke 1884, Syll. IX, p. 1010.
54. **Phyllachora Ambrosiæ** (Schw.) Sacc. Syll. II, p. 620, teste Cooke Grev. XIII, p. 43, in Herb. Berk. est sterilis et non genuina *Phyllachora*; hinc *Phyll. Ambrosiæ* (B. et C.) Sacc. Syll. II, p. 601 extare debet.

EURYACHORA Fuck. — Syll. II, p. 625, IX, p. 1030.

1. **Euryachora liberica** Oud. Konink. Akad. Wetensch. Amsterdam 2579 1897, p. 231, cum fig. — Stromate tenuissimo, valde extenso, internodia ambiente, corpori lignoso applicato, diu celato, tandem, strato corticali frustulatim delapso, exposito, extus et intus nigro, loculos plurimos inordinate distributos, nunc sporulis, tunc vero ascis repletos fovente; locellis tum sporuliferis quam asciferis, punctula alba in fundo nigro sistentibus, ubi lamina tenuissima ex superficie stromatis apta cultro tollitur; sporulis fusiformibus, hyalinis, continuis, utrinque acutiusculis, protoplasmate exilissime granuloso repletis, 16×5 ; ascis breve et late clavatis, sursum membrana crassiuscula præditis summoque apice poro extus clauso munitis, $80-90 \times 15-17$; paraphysibus nullis; sporidiis distichis, continuis, hyalinis, utrinque acutiusculis, protoplasmate exilissime granuloso repletis, 14×6 .

Hab. in ramis Coffeæ libericæ in Java.

OXYDOTHIS Penz. et Sacc. Malpighia XI, 1897, p. 505 (Etym. *oxys*, acutus et *Dothis* pro *Dothidea*, ob sporidia acuta). — Stromata innata, applanata, nigricantia v. grisea, tenuia, plerumque a matrice mutata formata, intus monostiche pauci-v. plurilocularia, loculis semi membranaceis, ostiolo punctiformi instructis. Asci tereti-elongati, paraphysati, octospori. Sporidia elongato-fusoidea, continua, utrinque acutissima, fere cuspidata, plurinucleata, hyalina. — Dignoscitur tenuitate stromatis et sporidiorum forma. Ad Valseas quoque nutat.

1. **Oxydothis grisea** Penz. et Sacc. Malpighia XI, 1897, p. 505. — 2580 Stromatibus dense gregariis, ovato-oblongis, convexulo-applanatis, extus et intus griseis, nitidulis, 0,5-1 mm. long., loculis in quoque stromate 4-8, globoso-oblongis, $150-200 \mu$ diam., in collum subinde productis; ostiolis punctiformibus, non emergentibus; contextu celluloso, olivaceo-fuligineo, ostioli prosenchymatico; ascis tereti-clavatis, tenuiter paraphysatis, apice rotundatis, subsessilibus, $180 \times 13-15$, octosporis; sporidiis subdistichis, fusiformibus, utrinque sensim oblique cuspidatis, acutissimis, $75-80 \times 8$. plurinucleatis, hyalinis.

Hab. in culmis elatioribus, Tjibodas, ins. Java. — Sæpius in extremo margine stromatum conspicitur ostiolum unum ex loculo obliquo oriundum.

2. **Oxydothis nigricans** Penz. et Sacc. Malpighia XI, 1897, p. 505. 2581

— *Stromatibus dense gregariis, applanatis, intus et extus nigricantibus, opacis, oblongis, sæpe confluentibus, intus monostiche paucilocularibus, 0,5-0,7 mm. long., loculis globulosis, 0,3 mm. diam., ostioliis perexiguis; ascis tereti-clavatis, apice obtusatis, breve stipitatis, 150 × 9-10, filiformi-paraphysatis, octosporis; sporidiis subdistichis, fusoideis, rectis curvulisve, utrinque cuspidatis, acutissimis, 75 × 7, plurinucleatis, hyalinis.*

Hab. in spatha emortua inflorescentiæ *Ptychospermæ*, in silvis, Tjibodas, ins. Java.

3. ***Oxydothis maculosa*** Penz. et Sacc. *Malpighia* XI, 1897, p. 506. 2582

— *Stromatibus innatis, applanatis, nigricantibus, nitidulis, 5-8 mm. long., intus multilocularibus; loculis subrotundis, 0,3 mm. diam.; ostioliis perexiguis, non emergentibus; ascis tereti-fusoideis, apice obtusiusculis, breve stipitatis, 160 × 12, octosporis; sporidiis subdistichis, anguste fusoideis curvulis, utrinque sensim cuspidatis, 75-80 × 5, plurinucleatis, hyalinis.*

Hab. in petiolis emortuis *Palmarum* in Horto bot. Bogoriensi, ins. Java. — Species tres vere affines, sed forma et colore stromatis facile distinguendæ.

Sect. 2. Phæosporæ.

AUERSWALDIA Sacc. — Syll. II, p. 626, XI, p. 374.

1. ***Auerswaldia nectrioides*** Rehm, Hedw. 1897, p. 375. — *Stromatibus plerumque hypophyllis, in maculis orbicularibus, rufescentibus, 0,5-1 mm. diam. innatis, semiglobosis, fuscidule farinaceis, carnis, 0,5 mm. diam.; peritheciis 1-2, immersis, fuscidule parenchymatice contextis, elongatis, mollibus, circiter 120 μ . longis et latis, poro conspicuo apertis; ascis fusoideis v. cylindraceutis, 8-sporis, ca. 40 × 8-9; sporidiis ellipticis v. subclavatis, 1-cellularibus, hyalinis, dein fuscidulis, mono-distichis, 10-12 × 4-5.* 2583

Hab. in foliis vivis *Paulliniæ* pr. Sao Francisco Brasiliæ (ULE).

2. ***Auerswaldia densa*** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, p. 162. — *Epiphylla; stromate applanato, elongato, 5-7 × 3 mm. sæpe confluento, aterrimo, nitido, circulo ferrugineo circumdato; loculis prominentibus, parum numerosis, fere superficiem totam folii infestante; ascis cylindraceutis, membrana fugacissima, 110 × 12;* 2584

sporidiis fuligineo-olivaceis, oblongis, ellipticis, $14-17 \times 7\frac{1}{2}$, monostichis.

Hab. in foliis coriaceis, copiose, Costa-Rica.

Sect. 3. Didymosporæ.

DOTHIDELLA Speg. — Syll. II. p. 627, IX, p. 1036, XI, p. 375.

1. **Dothidella Vismia** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, p. 162. — Epiphylla; stromate orbiculari, applanato, $\frac{1}{2}$ -2 mm. innato, in totam texturam folii penetrante circulo ferrugineo cincto; loculis minutis, numerosis, mediocriter prominulis; ascis 8-sporis, fusiformibus, subpedicellatis, $90-125 \times 12-14$; paraphysibus filiformibus, flexuosis; sporidiis fusiformibus, distichis v. submonostichis, 1-septatis, haud constrictis, $18-22 \times 5-7$, hyalinis v. chlorinis.

Hab. in foliis Vismia, Costa-Rica.

2. **Dothidella Osyridis** (Cke.) Berl. et Vogl. — Sacc. Syll. IX, p. 1038. — ***D. Tassiana** Sacc. Bull. Soc. Myc. de Fr. 1896, p. 69, t. VII, fig. 6. — A typo speciei differt stromatibus ampnigenis nec tantum epiphyllis; sporidiis non ovatis sed oblongo-clavulatis, $12-15 \times 6$, nec 12×6 ; ascis fusoido-oblongis, subsessilibus, apice rotundatis, $40-45 \times 10-12$, aparaphysatis.

Hab. in foliis Pappæ capensis in capite Bonæ-Spei. — Loculi stromatis $45-50 \mu$. diam., pallidi; sporidia ad tertium inf. septata, non vel vix constricta, ex hyalino dilutissime chlorina.

3. **Dothidella Machærii** Rehm Hedw. 1897, p. 377 — Stromatibus in maculis orbicularibus, dilutissime fuscidulis innatis, hypophyllis, irregulariter in centro macularum aggregatis, colliculosis, atris, nitentibus, 0,5-2 mm diam., loculis 2-10, poro minutissimo apertis; ascis late fusiformibus, sessilibus, 8-sporis, 45×15 , sporidiis oblongis, obtusis, 2-cellularibus, haud constrictis, guttulis oleosis minimis repletis, hyalinis, distichis, 12×6 .

Hab. in foliis Machærii pr. Rio de Janeiro Brasiliæ (ULE).

4 **Dothidella evanescens** Rehm, Hedw 1897, p. 375. — Stromatibus epiphyllis, folio haud motato innatis, orbicularibus, applanatis, verruculosi, opacis, nigris, 3 mm. diam., loculis pluribus immersis; ascis clavatis, crasse tunicatis, sessilibus, 8-sporis, 90×30 ; sporidiis clavatis, 2-cellularibus, medio subconstrictis, cellula inferiore multo angustiore, hyalinis, distichis, 20×8 ; paraphysibus subramosis.

Hab. in foliis Myrtaceæ eujusdam pr. Tubarao Brasilæ (ULE).

— *D. myrticolæ* affinis, sed sporidiis majoribus differt.

5. **Dothidella Cucurbitacearum** Rehm, Hedw. 1897, p. 376. — Stro- 2589
matibus plerumque hypophyllis, gregariis, innatis, bullosis, irregulariter orbicularibus, nigris, mollibus, 2-4 mm. diam., plurimis loculis, ostioliis haud perspicuis; ascis ovoideis, apice rotundatis et valde incrassatis, 8-sporis, 40-50 \times 9-10; sporidiis clavatis, obtusis, 2-cellularibus, hyalinis, distichis, 10-12 \times 3 $\frac{1}{2}$; paraphysibus distinctis.

Hab. in foliis Cucurbitaceæ cultæ pr. Blumenau et Rio de Janeiro Brasilæ (ULE).

6. **Dothidella Haplopappi** Rehm, Hedw. 1897, p. 377. — Stromatibus 2590
gregariis, epiphyllis, innatis, hypophyllo haud mutato, lenticularibus, atrofusis, minutissime punctulatis, loculis pluribus immersis, 0,5-1 mm. diam.; ascis fusiformibus, crassè tunicatis, 8-sporis, 70 \times 15; sporidiis fusiformibus, 2-cellularibus, medio subconstrictis, distichis, hyalinis, 27-30 \times 6; paraphysibus conglutinatis.

Hab. in foliis Haplopappi pr. Serra Geral, Minas Geraës Brasilæ (ULE).

7. **Dothidella ametableta** Rehm Hedw. 1897, p. 376. — Stromatibus 2591
ellipticis, per corticem longitudinaliter fissum erumpentibus, convexis, atrofusis, minutissime conoideo-papillulatis, 2-10 mm. longis. 2-3 mm. latis et altis; loculis plurimis stromati fusco immersis, arcte constipatis; ascis subcylindraceis, apice rotundatis, 8-sporis, 75 \times 9; sporidiis fusoides, acutatis, 2-cellularibus, medio vix constrictis, utraque cellula guttulis oleosis 2 minutis prædita, hyalinis, distichis, 15-17 \times 4; paraphysibus filiformibus.

Hab. in ramulis Baccharidis Pedras Grandes Brasilæ (ULE).

— *D. tinctoriæ* affinis.

8. **Dothidella Adenocalymmatidis** P. Henn. Hedw. 1895, p. 323. — Stro- 2592
matibus hypophyllis, sparsis, superficialibus, pulvinatis, applanatis, gibbosis v. papilloso-rugosis, atris, rotundatis v. oblongis, 1-1 $\frac{1}{2}$ mm. diam., loculis immersis numerosis, rotundatis, pallidis; ascis cylindraceo-clavatis, apice obtusis, subpedicellatis, paraphysatis, octosporis, ca. 60-75 \times 11-15, sporidiis mono- vel distichis, oblongis, oblongo-ovoides v. subfusiformibus, hyalinis, guttulatis, dein medio uniseptatis, haud constrictis, 10-14 \times 4-5 $\frac{1}{2}$; paraphysibus filiformibus, hyalinis, 2-3 μ . crassis.

Hab. in foliis Adenocalymmatidis paulistarum in Brasilia.

9. *Dothidella Glazlovii* Allesch. et P. Henn. Hedw. 1897, p. 236. — 2593
 Stromate longe et late effuso, epiphyllis, tumescenti, nigro, sæpe confluenti et folium totum occupanti, loculis numerosis, immersis, prominulis; ascis subclavato-cylindraceis, aparaphysatis, 8-sporis, 60-80 μ . longis, 10-12 μ . crassis; sporidiis subdistichis vel in parte inferiore asci oblique monostichis, obpiriformibus, in parte attenuata 1-septatis, subhyalinis vel luteolis, ca. 10-14 μ . longis, 6-7 μ . crassis.

Hab. in foliis emortuis *Tecomæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

10. *Dothidella effusa* A. L. Smith. Journ. of Bot. 1895, p. 343. — 2594
 Stromatibus epiphyllis, folii totam superficiem obtegentibus; peritheciis rotundatis, confertis, extus fuligineo-nigris, usque ad 240 μ . diam.; ascis cylindraceo-clavatis, 90-120 \times 20; sporidiis fuscis, ellipticis, utrinque obtusiusculis, 1-septatis, 22 \times 8.

Hab. ad folia *Asclepiadis* in Africa orient. (ELLIOT)

11. *Dothidella longissima* (Pers.) Ell. et Ev. *Sphaeria longissima* Pers. 2595
 Syn. p. 31, Proc. Acad. Philad. 1895, p. 427. — Peritheciis dense gregariis, subiculo tenui nigro strias formante insidentibus, minutis, subprominentibus, non confluentibus, epidermide nigrificata primitus velatis; striis longissimis, parallelis, angustis, 1-1 1/2 mm. latis, ab uno caulis nodo ad alterum porrectis; ostioli inconspicuis v. minute papilliformibus; ascis oblongis, 40 \times 7-9, subsessilibus, paraphysatis; sporidiis distichis, oblongis, uniseptatis, vix constrictis, obtusis, hyalinis, 12-15 \times 3 1/2.

Hab. in caulibus *Chenopodii* albi, Kansas, Amer. bor.

12. *Dothidella Renealmiæ* Rehm, Hedw. 1897, p. 377. — 2596
 Stromatibus in maculis flavidulis epiphyllis, innatis, lenticularibus, atris, colliculosis, 2-4 mm. diam., in hypophyllo vix visibilibus; loculis hemisphærice protuberantibus, haud papillatis, 0,3 mm. latis; ascis fusiformibus, apice rotundatis, usque ad 90 \times 15, octosporis; sporidiis subclavatis, obtusis, æqualiter 2-cellularibus, hyalinis, distichis, 18-20 \times 5; paraphysibus subramosis.

Hab. in foliis *Renealmiæ*, Sierra Org. Brasiliæ (ULE).

13. *Dothidella smilacicola* Rehm, Hedw. 1897, p. 375. — 2597
 Stromatibus epiphyllis, lenticularibus, adnatis, in centro convexulis, subverruculosis, atris, carbonaceis, 1-1 1/2 mm. diam.; loculis pluribus minimis; ascis oblongo-clavatis, sessilibus, apice rotundatis incrassatisque, 8-sporis, 50-55 \times 15-18; sporidiis clavatis, obtusis, 2-cellularibus, hyalinis, 15-17 \times 4-5; paraphysibus filiformibus.

Hab. in foliis *Smilacis*, Brasilia (ULE).

14. *Dothidella scirpina* Rehm, Hedw. 1897, p. 377. — *Stromatibus* 2593
gregariis, innatis, ellipticis, atris, 0,2-0,3 mm. diam., loculis non-
nullis præditis; ascis fusoideis, sessilibus, 8-sporis, 50 \approx 9; sporidiis
clavatis, 2-cellularibus, medio haud constrictis, hyalinis, distichis,
12 \approx 4; paraphysibus filiformibus.

Hab. in foliis *Scirpi*, Serra Geral Brasiliæ (ULE).

15. *Dothidella fallaciosa* Rehm, Hedw. 1897, p. 377. — *Stromatibus* 2599
amphigenis, gregarie in maculis dilute flavescensibus innatis, pun-
ctiformibus, singularibus vel 2-5 irregulariter confertis, atris, mol-
libus, 200-300 μ . diam.; ascis oblongis, rotundatis, sessilibus, 8-spo-
ris, 50 \approx 8-9; sporidiis fusiformibus, acutis, 2-cellularibus, haud
constrictis, quaque cellula guttulis 1-2 oleosis prædita, hyalinis,
distichis, 15 \approx 3 $\frac{1}{2}$; paraphysibus filiformibus.

Hab. in foliis Gramineæ cujusdam in Brasilia (ULE).

SCIRRHIA Nits. — Syll. II, p. 634, IX, p. 1040, XI, p. 376.

1. *Scirrhia Sporoboli* Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 9. 2600
— *Stromate* 1-3 mm. longo, $\frac{1}{6}$ - $\frac{1}{2}$ mm. lato, angusto, nigro, intus
albido, erumpente; loculis minutis, 120-150 μ ., rostro brevi pro-
minulo præditis; ascis clavatis, deorsum in pedicellum exilem at-
tenuatis, 50-70 \approx 8-9, paraphysibus filiformibus obvallatis; sporidiis
distichis, fusoideis, inæquilateralibus, 1-septatis, hyalinis, granulosis,
12-16 \approx 3-4.

Hab. in culmis *Sporoboli asperi*, Auburn, Alabama Amer.
bor.

2. *Scirrhia bambusina* Penz. et Sacc. *Malpighia* XI, 1897, p. 506. 2601
— *Stromatibus* gregariis, longitrossum seriatis, erumpentibus, ni-
gris, particulis matricis fissæ sæpe conspersis, oblongis, 0,5-0,7 mm.
long., convexulis, intus 3-5-ocularibus, loculis globulosis, 0,2 mm.
diam., pallidioribus, ostioliis perexiguis; ascis tereti-clavatis, brevissi-
me stipitatis, apice rotundatis, filiformi-paraphysatis, octosporis,
75-80 \approx 9-10; sporidiis distichis v. oblique monostichis, fusoideis,
utrinque obtuse attenuatis, medio 1-septatis, leviter constrictis, 24-
26 \approx 4-4,5, hyalinis, faretis.

Hab. in culmis emortuis *Bambusæ*, in Horto bot. Bogoriensi,
ins. Java.

3. *Scirrhia lophodermioides* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 2602
p. 435. — *Stromatibus* anguste ellipticis v. linearibus, $\frac{1}{2}$ -2 mm.
longis, interdum confluentibus et $\frac{1}{2}$ -1 cm. metientibus, epidermi-

dem erumpentibus findentibusque, nigris; loculis globosis, 150-200 μ . diam., monostichis; ostioliis inconspicuis; ascis oblongis, sessilibus, 80-90 \times 20-22, octosporis, sporidiis conferto-distichis, cylindræis, deorsum curvulis, uniseptatis (?), viridulo-hyalinis, 35-40 \times 7-8.

Hab. in culmis emortuis graminum in ins. Sandwich (HELLER).

PLOWRIGHTIA Sacc. — Syll. II, p. 635, IX, p. 1041, XI, p. 376.

1. **Plowrightia pseudohypoxylen** Rehm, Hedw., 1897, p. 378. — Stro- 2603
matibus gregariis, in foliis amphigenis et ramuliculis, sessilibus, lenticularibus v. irregulariter elongatis, convexis, cinereo-farinosis intus flavidulis, subcoriaceis, papillulis minutissimis atris exasperatis, 3-10 mm. longis, 3-6 mm. latis altisque; loculis minutis, 150 μ . diam., gregariis, periphericis; ascis elongatis, rotundatis, sessilibus, octosporis, usque ad 60 \times 12; sporidiis oblongis, obtusis, rectis v. subcurvatis, bicellularibus, haud constrictis, hyalinis, 12-15 \times 3 $\frac{1}{2}$ -4; paraphysibus indistinctis.

Hab. in foliis ramulisque Myrtaceæ cujusdam pr. Rio de Janeiro, Brasilia (ULE).

2. **Plowrightia Diplothemii** Rehm, Hedw. 1897, p. 378. — Stromatibus 2604
gregariis, amphigenis, erumpentibus, hemisphæricis vel irregulariter tuberculosis, atris, 1 mm. diam., carbonaceis; loculis 2-3 immersis; ascis subclavatis, apice rotundatis, stipitatis, teneris, usque ad 130 \times 24, octosporis; sporidiis ellipticis, subacutis, 2-cellularibus, haud constrictis, quaque cellula guttulis oleosis magnis 1-2 prædita, hyalinis, distichis 20 \times 7; paraphysibus filiformibus.

Hab. in foliis Diplothemii littoralis, Paraguay (BALANSA).

- 3 **Plowrightia irregularis** (Otth) Sacc. Hedw. 1896, p. XXXIII, 2605
Dothidea irregularis Otth, Bern. Mittheil. 1870, p. 102. — Gregaria v. sparsa, erumpens, protuberans, $\frac{1}{2}$ -1 mm. diam., tuberculiformis v. disciformis, intus et extus nigra, subtiliter scabrida; loculis minutissimis, periphericis; cæcis clavatis, 8-sporis; sporidiis oblongis, hyalinis, bilocularibus, constrictis, 19-22 \times 8. loculo sup. multo majore, conico-acutato.

Hab. in ramis Ribis floridi in horto bot. Bern., Helvetia. — Certe a *Pl. ribesia* non separanda.

DOTHIDEA Fr. — Syll. II, p. 639, IX, p. 1043, XI, p. 377.

1. **Dothidea forniculata** Otth, Bern. Mittheil. 1870, p. 102. — Stro- 2606
matibus dense gregariis, erumpentibus, disciformibus, $\frac{1}{4}$ -1 $\frac{1}{4}$ mm. diam. nigris, impolitis, maturitate demum extenuatis, convexis, sub-

tus concavis; loculis numerosis minutissimis, intus cinereis, ostioliis nullis conspicuis; ascis breve clavatis, octosporis; sporidiis oblongis, obovoideis, bilocularibus, anisomeris, 19×6 , flavidis; paraphysibus nullis.

Hab. in ramis Mori albæ in horto bot. Bern, Helvetia. —

Sec. cl. Jaczewski est *D. Sambuci*.

2. **Dothidea Porlieriæ** Rehm, Hedw 1897, p. 379. — Stromatibus 2607 gregariis, epiphyllis, sessilibus, orbicularibus, applanatis, scabriusculis, fusco-nigris, mollibus, 0,2-0,5 mm., contextu parenchymatico fusco; loculis pluribus immersis, poro minutissimo apertis ascis elongatis, crasse tunicatis, sessilibus, 8-sporis, 66×15 ; sporidiis fusiformibus, acutatis, rectis, 2-cellularibus, hyalinis, demum flavidulis (an demum 4-cellularibus?), distichis, $25-30 \times 4\frac{1}{2}$.

Hab. in foliis Porlieriæ Lorentzii pr. Cordoba Argentina (HIERONYMUS).

3. **Dothidea Alyxiæ** Masee, Journ. of Bot. 1896, p. 152. — Stro- 2608 mate convexo, nigro, subepidermico; loculis cæspitosis (8-12), confluentibus, nigris, nitentibus, glabris, 2-3 mm. diam., ostioliis magnis; ascis subcylindraceis, apice rotundatis, in pedicellum brevem attenuatis, octosporis. $100 \times 11-12$; sporidiis oblique monostichis, ellipticis, utrinque obtusis, 1-septatis, brunneis, hyalinis, 18×10 , loculis æqualibus; paraphysibus nullis.

Hab. in foliis vivis Alyxiæ buxifoliæ, Tasmania.

4. **Dothidea Emmoti** P. Henn. Hedw. 1895, p. 323. — Ascomatibus 2609 pulvinatis, rotundatis v. oblongis, sæpe nervos sequentibus oblongatisque, hypophyllis, atro-cinereis, primo tomentosis; peritheciis subglobosis, atris, carbonaceis, ostioliis prominulis; ascis clavatis, subsessilibus, apice obtusis, octosporis, $50-70 \times 18-21$; sporidiis oblongis v. subovoideis, distichis v. subconglobatis, medio uniseptatis, haud constrictis, primo subhyalinis, deinde flavo-fuscescentibus, $12-16 \times 6-7$, paraphysatis.

Hab. in foliis Emmoti nitentis pr. Meiaponte Brasiliæ (ULE).

5. **Dothidea Anthurii** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, 2610 p. 163. — Amphigena; stromate sparso, applanato, orbiculari; ascis cylindraceis v. cylindraceo-claviformibus, $90-130 \times 10-12$; paraphysibus indistinctis; sporidiis subfusoides, diu hyalinis, deinde leviter fuliginosis, monostichis v. subdistichis, obscure 1-septatis, $18-20 \times 5\frac{1}{2}$.

Hab. in foliis Anthurii scandentis, Costa-Rica.

6. *Dothidea maculicola* Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, 2611
p. 162. — Stromate atro, pruina cinerea obducto, suborbiculari v. elliptico, 1-3-loculari, circulo flavo-brunneo irregulari limitato, in texturam totam folii penetrante; ostiolo in facie superiore folii erumpente; ascis octosporis, cylindraceis, sessilibus, $72 \times 10\frac{1}{2}$; paraphysibus filiformibus; ascis longioribus; sporidiis monostichis, oblongis, fuliginis, utrinque rotundatis, 1-septatis, $7,2 \times 3,6$.
Hab. in foliis plantæ indeterminatæ, Costa-Rica.

MONTAGNELLA Speg. — Syll. II, p. 646, IX, p. 1045, XI, p. 377.

1. *Montagnella Colletiae* P. Henn. et Lind. Hedw. 1897, p. 226. — 2612
Stromatibus per corticem erumpentibus, oblonge pulvinatis, ca. $1-1\frac{1}{2}$ cm. longis, 2 mm. crassis, atris, opacis, rugulosis, dein rimosis; peritheciis immersis, subglobosis vel oblongis; ascis cylindraceo-clavatis, apice obtusis, basi angustioribus, interdum curvatis, $90-110 \times 14-17$; sporidiis subdistichis, cylindraceis, curvulis, utrinque obtusiusculis, medio 1-septatis, haud constrictis, hyalinis, $30-40 \times 4-4\frac{1}{2}$.

Hab. in ramis et cladodiis *Colletiae spinosæ* pr. Concepcion in Chile (NEGER).

2. *Montagnella Fici* P. Henn. Hedw. 1897, p. 226. — Stromatibus 2613
epiphyllis, gregariis, minutis, hemisphaericis vel subglobosis, atris, rugulosis, $200-250 \mu$ diametro; ascis oblongis vel subclavatis, 8-sporis, apice obtusis, breve stipitatis, $45-55 \times 9-10$; sporidiis subdistichis, oblongis subfusoides, curvulis, 1-septatis, haud constrictis, hyalino-flavescentibus, $18-20 \times 4-5$.

Hab. in foliis *Fici* genuinæ pr. Pozuzo Peruviae.

3. *Montagnella Astrocaryæ* Rehm, Hedw. 1897, p. 379. — Stroma- 2614
tibus gregariis, epiphyllis, in utraque folii pagina dilute flavescente innatis, plerumque lenticularibus, interdum lineariter confluentibus, atris, subcarbonaceis, 1-3 mm. diam., loculis 2-3 immersis; ascis ellipticis, crasse tunicatis, rotundatis, basi tenuiter stipitatis, usque 120×27 , octosporis; sporidiis ellipticis, acutatis, episporio crasso, 4-cellularibus, cellulis mediis multo majoribus, demum ad septa constrictis, strato mucoso involutis, $21-24 \times 7-9$, distichis; paraphysibus filiformibus, hyalinis, 3μ . crassis.

Hab. in foliis *Astrocaryæ* pr. Rio de Janeiro in Brasilia.

4. *Montagnella bicincta* Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, 2615
p. 163. — Stromate amphigeno, orbiculari, atro, nitente, ruguloso, 3-8 mm. diam., in totam texturam folii penetrante, intus ferru-

ginoso, duobus circulis concentricis circumdato, interno ferrugineo, externo subrubro; loculis 10-16; ascis 8-sporis, fusoideis v. claviformibus, sessilibus, 90-96 \times 12-15; paraphysibus flexuosis, gutturalis, haud bene distinctis; sporidiis cylindræo-fusoideis, hyalinis v. chlorinis, primo continuis, deinde triseptatis, 10-14 \times 3 $\frac{1}{2}$; sperogoniis cylindræo-fusoideis, rectis, continuis, hyalinis, 7,2-7,5 \times 2,5, in acervulum ceraceum flavum exsiliantibus.

Hab. in foliis plantæ indeterminatæ, Costa-Rica.

Sect. 4. Phragmosporæ.

DANGEARDIELLA Sacc. et Syd. nov. gen. (Etym. a P. A. DANGEARD, de fungorum bio-morphologia meritissimo) *Monographi* sp. Schröt. — A *Monographo* differt imprimis sporidiis elongatis, pluri-(6-8) cellularibus.

1. **Dangeardiella macrospora** (Schröt.) Sacc. et Syd. *Monographus ma-* 2616
crosporus Schroet. Kryptog. Flora v. Schlesien. 1897, p. 477. — Stromatibus lanceolatis v. elliptico-lirellæformibus, epidermide tectis, atro-nitidis; peritheciis paucis, globosis; ascis cylindræis, 120-150 \times 15-17, apice rotundatis, in stipitem brevem acutatis, octosporis; sporidiis distichis, fusiformibus, curvulis v. vermicularibus, 66-75 \times 8-10, utrinque valde angustatis, sed obtusis, medio leniter constrictis. 6-8-cellularibus, hyalinis.

Hab. in stipitibus emortuis *Athyrii alpestris* in Silesia.

HOMOSTEGIA Fuck. — Syll. II, p. 649, IX, p. 1049.

1. **Homostegia rhoïna** Ell et Ev. *Erythea* 1897, p. 5. — Stroma- 2617
tibus epiphyllis, sphæroideis, gregariis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., prominentibus, sed epidermide nigrificata, apice rupta arcte tectis; cellulis ascigeris 2-5 in quoque stromate, sphæroideis, intus albis, 80-120 μ . diam.; ascis oblongo-clavatis, breve stipitatis, 60 70 \times 12-14; paraphysibus filiformibus, numerosis, sæpe supra curvulis; sporidiis distichis, oblongo-fusoideis, 4-septatis, ad septum medium constrictis, hyalinis, subobtusis, 15-18 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in foliis emortuis *Rhoïis integrifoliæ*, socio *Didymosporio rhoïno*, California.

2. **Homostegia coscinadisca** Ell et Ev. Proc. Acad. Philad. 1835, 2618
p. 427. — Stromatibus erumpenti-superficialibus, discoideo-pulvinatis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., supra 6-8-ies perforatis, sed nullo promi-

nente ostiolo: cellulis circiter 75 μ . diam., tenuiter subhyalino-tunicatis; ascis oblongis, subsessilibus, 55-60 \times 12-15, aparaphysatis, 4-8-sporis; sporidiis plerumque distichis, ellipticis v. oblongis, 18-22 \times 8-10, 3-septatis, ad septa constrictis, utrinque obtusis, hyalinis, medio secedentibus.

Hab. in cortice *Betulæ*, Newfoundland Amer. bor. (WAGHORN). — *H. durissimæ* affinis.

Sect. 5. Dictyosporæ.

CURREYA Sacc. — Syll. II, p. 651, IX, p. 1051, XI, p. 378.

1. *Curreya sandicensis* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 135. 2619

— Stromatibus hypophyllis, globosis, 1-1 $\frac{3}{4}$ mm. diam., erumpentibus, griseo-nigris; cellulis ascigeris minutis, globosis, periphericis v. subpolystichis, stromatæ ostiolis punctiformibus minutis, atris erumpentibus adperso immersis; ascis oblongo-obovatis, basi abrupte in stipitem brevem contractis, 8-sporis; sporidiis irregulariter confertis, cylindraceo-oblongis, 3-5-septatis, 1 vel 2 cellulis septo longitudinali percursis, flavis, 19-22 \times 6-8, ad septa non constrictis.

Hab. in foliis vivis *Alphitoniæ ponderosæ* in ins. Sandwich. (HELLER). — Stromata hypophylla in pagina aversa depræssiones minutas obscure coloratas efficientia.

2. *Curreya rimosa* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 280. — 2630

Stromatibus erumpenti-superficialibus, tuberculoso-hemisphæricis v. sæpius hysteriiformiter elongatis, 1-2 mm. longis, $\frac{1}{2}$ mm. latis, supra applanatis, minute asperulis, nigris, immaturis in sicco rubescentibus ac transverse rimosis; cellulis ascigeris globosis, minutis; ascis obovatis, 75-80 \times 40-45, subsessilibus, paraphysatis, octosporis; sporidiis conferte distichis, obovato-oblongis, leniter curvulis, flavis, utrinque obtuso-rotundatis, initio 3-, demum 5-7-septatis muriformibusque, 30-40 \times 15-20.

Hab. in ligno sicco *Arctostaphyli tomentosæ*, California.

Sect. 6. Scolecosporæ.

MYRIDGENOSPORÆ Atk. Bull. Torr. Bot. Club. 1894, p. 225 (Etym, *myria* magna copia, *gennao* gigno et *spora*). — Stroma effusum, carbonaceum, pulvinatum. Perithecia immersa cum stromate confluentia, conferta, vix prominula. Asci cylindræci polyspori. Sporidia elongato-bacillaria continua, hyalina.

1. **Myrjogenospora Paspali** Atk. l. c. — Stromate 1-2 cm. longo; 2621
peritheciis magnis, 200-300 μ . diam., ovalibus v. obovatis, vix prominulis, apice minuto, conico; ascis 200-250 \times 15-20, utrinque elongato-angustatis; sporidiis numerosissimis, anguste apiculatis, 15-25 \times 0,5-0,8, fusoideis, rectis v. leniter curvulis:

Hab. in culmis juvenilibus *Paspali levis*, Alabama Amer. bor.

OPHIODOTHIS Sacc. — Syll. II, p. 652, IX, p. 1051.

Ophiodothis Ule Rehm, Hedw. 1897, p. 380. — Stromatibus am 2622
phigenis, plerumque hypophyllis, sessilibus, maculis folii exsiccati orbicularibus, albescens, 3 mm. latis, centro innatis. suborbicularibus, colliculosis, nigris, 2 mm. diam., loculis 5-10 immersis; ascis cylindræcis, rotundatis, sessilibus, 8-sporis, 75 \times 9; sporidiis filiformibus, guttulatis, ascis longitudine, 2 μ . crassis, hyalinis, parallelis: araphysibus nullis.

Hab. in foliis Leguminosæ cujusdam pr. Rio de Janeiro Brasilæ (ULE).

2. **Ophiodothis Gaduæ** Rehm, Hedw. 1896, p. 53. — Stromatibus di- 2623
spersis, primo immersis, dein emergentibus et sessilibus, lentiformibus, fusco-nigris, subscabris, cæriaceis, 1-2 mm. lat. et alt.; loculis permultis, parenchymaticis, subhyalinis polystiche immersis, globulosis, usque ad 150 μ . diam.; ascis cylindræcis, apice rotundatis atque valde incrassatis, ca. 120 \times 5, 8-sporis; sporidiis filiformibus, rectis, 1?-cellularibus, hyalinis, parallele positis, ascis longitudine; paraphysibus nullis.

Hab. in ramulis *Gaduæ* spec. Campo Bello Brasilæ (ULE). —

Ophiodothis linearis Rehm, Hedw. 1896, p. 54. — Stromatibus 2624
singularibus v. gregariis, linearibus, rectis, sessilibus, 1-4 cm. longis, 1 mm. latis, extus intusque atris, superficie vix papillulatis, ab epidermide folii lenissime flavida marginatis, loculis minutis-

simis; ascis cylindræis, apice valde incrassatis et rotundatis, usque ad 75×7 , 8-sporis; sporidiis filiformibus, rectis, continuis, hyalinis, 60×1 , parallele positis; paraphysibus nullis.

Hab. in foliis vivis Chusqueæ, Campo Bello Brasiliæ (ULE).

4. **Ophiodothis raphidospora** Rehm, Hedw. 1897, p. 380. — 2625
Stromatibus linearibus, foliis involutis innatis, elongatis, 1-3 cm. longis, 0,1-0,15 cm. latis, albo-farinaceis, contextu fusco, loculis multis immersis, poro minimo apertis; ascis cylindræis, $300 \times 6-7$; sporidiis filiformibus, multicellularibus, in cellulas singulas $10 \times 1\frac{1}{2}$, secedentibus, hyalinis, quaque cellula biguttulata; paraphysibus filiformibus (?).

Hab. in foliis Gramineæ cujusdam in Brasilia (ULE).

5. **Ophiodothis Aristidæ** Atk. Bull. Torr. Bot. Cl. 1894, p. 224. — 2626
Stromate dimorpho; parte sterili confluyente, effusa, tenui, nigra, caulem omnino ambiente, fertili crassiore, confluyente v. interrupta, apicibus perithecorum gregariorum rugulosa v. convoluta; ascis sporidiisque ut in *Oph. voraci*.

Hab. in culmis, quos interdum ambit, Aristidæ purpurascens, Amer. bor. — Pro hac specie et pro *Hypocrella Hypoxylo* (= *Ophiodothis vorax*) cl. Atkinson condidit genus *Dothichloë*. Cfr. l. c. ubi et *Hypocrella tuberiformis* in nov. gen. *Echinodothis* erigitur.

Fam. 5. Microthyriaceæ SACC.

Subfam. 1. Microthyriæ Sacc. et Syd.

Perithecia typice subiculo nullo inserta.

Sect. 1. Hyalosporæ.

MYIOCOPRON Speg. — Syll. II, p. 659, IX, p. 1053, XI, p. 379.

1. **Myiocopron affine** Penz. et Sacc. Malpighia XI, 1897, p. 525. — 2627
Peritheciis dense gregariis, superficialibus, discretis, subinde binatis, nigris, dimidiato-scutatis, convexo-applanatis, $330-350 \mu$. diam., centro pertusis, radiato-cellulosis, margine subintegris; ascis ovato-oblongis, breve et abrupte stipitatis, $45-50 \times 18-22$, aparaphysatis, apice obtusulis, octosporis; sporidiis tristichis, oblongo-soleæformibus, utrinque rotundatis, sursum crassioribus. continuis, 15×7 , granulosis, hyalinis.

Hab. in foliis v. bracteis *Monocotyledonis* (?) Tjikeumeuh, ins. Java. — Sequenti, *M. Palmarum*, *M. corrientino* etc. affine, sed satis distinctum, præcipue formâ sporidiorum.

2. **Mylocopron millepunctatum** Penz. et Sacc. Malpighia XI, 1897, 2628 p. 524. — Peritheciis longe et late denseque gregariis, superficialibus, dimidiato-scutatis, applanatis, 300 μ . diam., centro pertusis, nigris, membranaceis, anguste radiato-cellulosis, margine sinuoso-crenatis; ascis oblongis, sessilibus, utrinque rotundatis, 45-50 \times 15, non v. spurie paraphysatis, octosporis; sporidiis subdistichis, elliptico-oblongis, rectis, utrinque rotundatis, continuis, 18 \times 6-7, ex hyalino flavidis, granulosis.

Hab. in utraque pag. foliorum *Psiloti flaccidi languidorum* in Horto bot. Bogoriensi Javæ. — Affine *M. Palmarum* W. et *M. corrientino* Speg.; sed sat diversum.

3. **Mylocopron fecundum** Sacc. Fl. mycol. Lus. p. 69. — Peritheciis 2629 amphigenis inæqualiter sparsis, superficialibus, atris, applanatis, circularibus, 0,7 mm. diam., poro rotundo 45 μ . diam. pertusis, contextu radiante atro, prope marginem sinuoso-celluloso; ascis amplis, elongatis, brevissime stipitatis, 180-200 \times 25-28, apice rotundatis, 12-sporis; paraphysibus copiosis sed tenuissime filiformibus; sporidiis 2-3-stichis tereti-elongatis, utrinque rotundatis, curvulis, 30-36 \times 8-10, continuis granulosis, hyalinis.

Hab. in foliis subvivis *Crateris permii*, S. Thomé, sociis lichenibus et bryaceis tenellis quibusdam (MOLLER).

Sect. 2. Didymosporæ.

MICROTHYRIUM Desm. — Syll. II, p. 662, IX, p. 1055, XI, p. 379.

1. **Microthyrium Mangiferæ** Bomm. et Rouss. Bull. Soc. bot. Belg. 2630 1896, p. 164. — Maculis nullis; peritheciis epiphyllis, congestis, 140-180 μ . diam., dimidiato-scutatis, orbicularibus, olivaceo-atris, centro pertusis, contextu radiante; ascis clavatis, sessilibus, 8-sporis, 108 \times 18, vel ovoideis 46 $\frac{1}{2}$ \times 21; sporidiis hyalinis, oblongo-ellipticis, uniseptatis, 14 $\frac{1}{2}$ \times 6 monostichis (in ascis claviformibus), conglobatis (in ascis ovoideis).

Hab. in foliis *Mangiferæ indicæ*, Costa-Rica.

2. **Microthyrium concatenatum** Rehm, Hedw. 1895, p. (102). — Su- 2631 biculo tenuissimo, cinereo-atro, epiphylo, orbiculariter 3-10 mm. diam. expanso, velutino, ex hyphis reticulatim coherentibus et coa-

litis, valde flexuosis, rectangulariter sæpe ramosis, 5 μ . crassis, fuscis, septatis et perithecia conjungentibus obtegentibusque contexto; peritheciis numerosis, dimidiato-lenticularibus, tenuissime radiatim prosenchymatice contextis ambituque denticulatis, fuscolivaceis, 180-300 μ . diam., poro minutissimo pertusis; ascis oblongis, crassis, 80-90 \approx 30, octosporis; sporidiis clavatis, medio septatis, cellula superiore eximie guttulis minutissimis repleta, inferiore acutata vacua, vix medio constrictis, hyalinis, 21-27 \approx 10-11, distichis; paraphysibus ramosis. Jodi ope cellula superior sporidiorum flavescit.

Hab. in foliis Myrtacæe cujusdam in Brasilia (ULE).

3. **Microthyrium Psychotriæ** Masee, Journ. of Bot. 1896, p. 152. — 2632

Peritheciis sparsis, hypophyllis, orbicularibus, discoideis subplanis, levibus, atro-brunneis, opacis, 100-125 μ . diam.; ostiolis distinctis, prominulis; ascis clavatis, breve stipitatis, 45-50 \approx 6-7, octosporis; sporidiis irregulariter distichis, hyalinis, levibus, anguste clavatis, prope medium 1-septatis, 7-8 \approx 2 $\frac{1}{2}$ -3.

Hab. in foliis vivis Psychotriæ sub punctatæ, in Africa occidentali tropica.

4. **Microthyrium Jochromatis** Rehm, Hedw. 1895, p. (162). — 2633

Peritheciis epiphyllis, densissime circumatim maculiformiter congregatis, sessilibus, orbicularibus, dimidiato-scutatis, semiglobosis, rugulosis, parenchymaticis, cellulis centrifugo modo radiaribus compositis, macularum diam. 1-4 mm.; ascis crassis, clavatis, apice rotundatis, lata basi sessilibus, 50-60 \approx 18, octosporis; sporidiis clavatis, superne acutatis, bicellularibus, quaque cellula guttula oleosa plerumque 1 magna instructis, cyanis, 12-14 \approx 6-7; paraphysibus nullis.

Hab. ad folia Jochromatis macrocalycis, Prov. de Pichincha Æquatoriæ (LAGERHEIM).

5. **Microthyrium Cetrariæ** Bres. Malpighia XI, 4897, p. 62 extr. — 2634

Peritheciis dense gregariis, punctiformibus, superficialibus, cellulis radiato-dispositis contextis, 75-105 μ . diam., ambitu sæpe lobatis, centro osculo subtriangulari pertusis; ascis oblongo-clavatis v. subfusoides, 45-59 \approx 12; sporidiis hyalinis oblongo-subcurvulis, uni-septatis, vix constrictis, conglobatis, 15-18 \approx 3.

Hab. in thallo Cetrariæ islandicæ in Italia bor. (CARESTIA).

Hawaii **CLYPEOLUM** Speg. — Syll. p. II, p. 667, IX, p. 1061, XI, p. 380.

1. **Clypeolum megalosporum** Speg. Rev. Agr. y Veter. La Plata, 1896, 2635

p. 343. — Peritheciis epiphyllis, sparsis, dimidiato-scutatis, applanatis, majusculis, 0,5-0,8 mm. diam., atris, margine non finbriatis, astomis, centro irregulariter dehiscentibus, membranaceis, contextu eximie minuteque muriformi, cellulis ambitu sæpius uniguttulatis; ascis globosis v. ovatis, 50-55 × 40-45, sessilibus, crassiuscule tunicatis, pseudoparaphysibus coalescentibus immersis, 8-sporis; sporidiis e cylindræo subclavulatis, 30-34 × 8-9, utrinque obtusiusculis, non v. leniter arcuatulis, medio 1-septatis, non constrictis, hyalinis; mycelio nullo.

Hab. in foliis languidis *Coffeæ arabicæ*, Costa-Rica.

SEYNESIA Sacc. — Syll. II, p. 668, IX, p. 1064, XI, p. 381.

1. **Seynesia Balansæ** Speg.-Sacc. Syll. IX, p. 1065. — Var. **Ildefonsiæ** 2636
Rehm, Hedw. 1895, p. (101). — Subiculo tenuissimo, atro, sæpissime epiphyllis, orbiculariter 1-2 mm. late expanso, velutino, ex hyphis brevibus, simplicibus, vix ramosis, septatis, 3-5 μ . crass., fuliginis composito; peritheciis sparsis, hemisphærico-dimidiatis, 100-120 μ . diam., tenuiter membranaceis, parenchymate radiante contextis, fusco-olivaceis, ostiolo minutissimo pertusis, 16 ascogentibus; ascis ovalibus vix stipitatis, 25-30 × 18, octosporis; sporidiis oblongo-clavatis, obtusis, medio 1-septatis, vix constrictis, hyalinis, dein fuscis, quaque cellula nucleo oleoso magno prædita, 10-17 × 5; paraphysibus paucis, ramosis.

Hab. in foliis vivis *Ildefonsiæ bibracteatae* in Brasilia
(ULE).

2. **Seynesia rimosa** Pat. Bull. Soc. Myc. de Fr. 1895, p. 230. — 2637
Maculis nullis; peritheciis epiphyllis, orbicularibus vel sinuatis, atris, $\frac{1}{2}$ -1 mm. diam., applanatis, centro elevato, levibus v. minute striatis, sæpe circulariter ruptis; nucleo albido; ascis aparaphysatis, claviformibus, 80-90 × 16-20, octosporis; sporidiis diu hyalinis, ovatis, utrinque obtusis, medio septatis, fuscis, 16-20 × 6.

Hab. in foliis indeterminatis in *Æquatoria* (v. LAGERHEIM).

3. **Seynesia disciformis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 230. 2638
— Maculis amphigenis, orbicularibus, 3-4 mm. diam., fuscis; peritheciis epiphyllis, atris, lenticularibus, 3 mm. diam., margine sinuato, contextu ceraceo, melleo-olivaceo; ascis aparaphysatis, dense et parallele stipatis, apice obtusis, 100 × 20, crasse tunicatis, 8-sporis; sporidiis ellipticis, 1-septatis, medio constrictis, 20 × 7, melles, dein fuliginosis.

Hab. in foliis arboris ignotæ in *Æquatoria* (v. LAGERHEIM).

Sect. 3. Phragmosporæ.

MICROPELTIS Mont. — Syll. II, p. 669, IX, p. 1069, XI, p. 381.

1. *Micropeltis Leoniæ* P. Henn. Hedw. 1895, p. 323. — Peritheciis punctiformibus, epiphyllis, scutato-orbicularibus, applanatis, centro subpapilloso-rotundatis, atro-brunneis, ambitu tenui, pallidioribus, 300-350 μ . diam.; ascis clavatis. stipitatis v. subsessilibus, interdum curvulis, apice rotundato-obtusis, 35-48 \times 16-23, octosporis; sporidiis longitudinaliter parallelis vel subconglobatis, fusoides, rectis v. subcurvulis, 5-7-septatis, septis haud constrictis, hyalino-flavescentibus, 25-35 \times 4-5. 2639

Hab. in foliis *Leoniæ glycy carpæ* in Peruvia.

2. *Micropeltis Harmsiana* P. Henn. Engl. Jahrb. XXIII, p. 540. — Peritheciis epiphyllis, sparsis v. gregariis, scutiformibus, atris, opacis, punctiformibus, 200-240 μ .; ascis aparaphysatis, subclavatis, apice tunicatis, basi subpedicellatis, curvulis, 8-sporis, 60-75 \times 16-22; sporidiis distichis v. subconglobatis, clavatis v. subfusiformibus, 2-septatis, septis valde constrictis, 28-32 \times 5-6, hyalinis. 2640

Hab. in foliis *Deidamiæ triphyllæ* in Camerunia (ZENKER).

3. *Micropeltis Tonduzii* Spég. Rev. Agr. y Veter. La Plata 1896, p. 343. — Peritheciis sæpius epiphyllis, sparsis, dimidiato-scutatis, applanatis, majusculis, 250-500 μ . diam., atris, margine integris, zona subhyalina angusta cinctis, astomis centro radiatim dehiscens, membranaceis, contextu parum distincto prosenchymatico-radiante, mycelio destitutis; ascis cylindraceutis v. obclavulatis, 100 \times 18-20, basi brevissime noduloseque stipitatis, dense paraphysatis, 8-sporis; sporidiis oblique monostichis, elliptico-clavulatis, 40-50 \times 10-12, 7-septatis, ad septa leviter constrictis, loculis quinto et sexto superis crassioribus, hyalinis. 2641

Hab. in foliis vivis v. languidis *Coffeæ arabicæ*, Costa-Rica.

4. *Micropeltis leucoptera* Penz. et Sacc. Malpighia XI, 1897, p. 525. — Peritheciis epiphyllis sparsis, superficialibus, dimidiato-scutatis, convexo-planis, 180-200 μ . diam., nigris, centro obsolete pertusis, margine latiuscule albo-membranaceis; contextu minutissime sinuoso-celluloso; ascis crasse fusoides, subsessilibus, apice obtuse attenuatis, 36-40 \times 12-15, aparaphysatis, octosporis; sporidiis tristichis, tereti-clavulatis, apice rotundatis, incrassatis, 3-septatis, vix constrictis, 18-20 \times 5, dilutissime chlorinis, hyalinis. 2642

Hab. in pag. sup. foliorum coriaceorum Depok Javæ. — *Affinis* *M. albomarginatæ* Speg., sed omnibus partibus minor.

5. **Micropeltis macropelta** Penz. et Sacc. *Malpighia* XI, 1897, p. 525. 2643

— Peritheciis sparsis, epiphyllis, superficialibus, convexo-applanatis, dimidiatis, majusculis, nigris, 500-600 μ . diam., margine integris, vix membranaceis, contextu minutissime sinuoso-celluloso; ascis cylindraceis, breve stipitatis, apice rotundatis, 150-160 \times 16, paraphysatis, octosporis; sporidiis distichis, cylindraceis, curvulis, utrinque acutiusculis, 7-septatis, constrictis, 50-55 \times 8, hyalinis, obsolete granulosis.

Hab. in foliis coriaceis, Depok Javæ, socia præcedente.

6. **Micropeltis zingiberaceicola** P. Henn. *Engl. Jahrb.* XXIII, p. 540. 2644

— Peritheciis epiphyllis, sparsis, orbiculari-scutatis, depressis, minutis, 1 mm. diam., atris, margine tenui; ascis subfusoideis v. oblongis, apice obtuso-rotundatis, basi subpedicellatis, curvatis, 8-sporis, 150-180 \times 30-45; sporidiis subconglobatis, fusiformibus v. clavatis, hyalinis, 60-80 \times 7-9, pluriguttulatis v. spurie 5-septatis.

Hab. in foliis Zingiberaceæ cujusdam in Camerunia (STAUDT).

7. **Micropeltis Orchidearum** P. Henn. *Engl. Jahrb.* XXIII, 1897, 2645

p. 286. — Peritheciis minutis, scutellatis, orbicularibus, centro poro pertusis, margine tenui, atris, circiter 280-380 μ . diam.; ascis subclavatis vel subfusoideis, rectis vel curvulis, apice obtusis, vix stipitatis, 8-sporis, 40-60 \times 10-13; sporidiis di-vel tristichis, fusoideis vel subclavatis, 3-5-septatis, hyalino-flavescentibus, 21-25 \times 3-3 $\frac{1}{2}$.

Hab. in foliis et pedicellis Orchideæ cujusdam in ins. Upolu ins. Samoëns. (REINECKE).

to Polystroma **GILLETIELLA** Sacc. et Syd. (Etym. a mycologo gallico C. C. GILLET, Hymenomycetum illustratori peritissimo *). *Heterochlamys* Pat. *Bull. Soc. Myc. de Fr.* 1895, p. 231, nec Turcz. — Stroma membranaceum, dimidiato-scutatum, pluri-pertuso-ostiolatum, microthyriaceum. Perithecia hypostromatica, contextu atro, coriaceo, sphaeriaceo. Asci octospori. Sporidia 3-septata, hyalina. — A *Polystromella* sporidiis diversis recedit.

1. **Gilletiella Chusqueæ** (Pat.) Sacc. et Syd. *Heterochlamys Chusqueæ* 2646

Pat. l. c. — Stromatibus sparsis vel confluentibus, orbicularibus, atris, convexis, rugulosis, $\frac{2}{3}$ -1 mm. diam.; peritheciis 1-6, poro

*) Genus *Gilletia* Sacc. et Penz. (1882) congruit cum *Basidiophora* Roze et Cornu (1869). Cfr. *Plasmopara entospora* (Roz. et C.) Schröt., *Syll.* VII, p. 587.

pertusis; ascis clavatis, $80 \approx 10$, octosporis; paraphysibus filiformibus, ramosis; sporidiis distichis, fusiformibus, elongatis, utrinque attenuatis, medio vix constrictis, hyalinis, 3-septatis, $20 \approx 5-6$.

Hab. in foliis Chusqueæ in Æquatoria (v. LAGERHEIM).

Sect. 4. Dictyosporæ.

SACCARDINULA Speg. — Syll. IX, p. 1071.

47C
1. **Saccardinula costaricensis** Speg. Rev. Agr. y Veter. La Plata, 264
1896, p. 344. — Peritheciis superficialibus, sparsis v. laxe gregariis, in vivo hemisphæricis, in sicco sæpius collapsis atque umbilicatis, 180-300 μ . diam., ostiolo parum manifesto perforatis, atris, glabris, membranaceo-rigidulis, contextu e cellulis minutis ellipticis subradiantibus efformato donatis, mycelio parco subpelliculoso ex hyphis dense intricato-ramosis, articulatis, articulis cylindraceis longiusculis $20 \approx 6$, utrinque rotundatis non v. minute biguttulatis, fumoso-avellaneis composito insidentibus; ascis obovatis, $80 \approx 45$, breviter crasseque stipitatis, paraphysatis, 8-sporis; sporidiis conglobatis e cylindraceo ellipticis v. obovatis, rectis v. leniter inæquilateralibus, utrinque obtusiusculis, $30-32 \approx 10$, horizontaliter 6-7-septatis, ad septa constrictulis, loculis sæpius septo altero longitudinali divisis, hyalinis, primo tunica mucosa vestitis, dein nudis.

Hab. ad folia viva Coffeæ arabicæ, Costa-Rica.

Subfam. 2. Asterineæ Sacc. et Syd. *).

Perithecia subiculo radiatim effuso nigricante inserta.

Sect. 1. Hyalosporæ.

ASTERULA Sacc. — Syll. I, p. 47, IX, p. 375, XI, p. 354.

57C
1. **Asterula corniculariiformis** P. Henn. Hedw. 1897, p. 218. — Mycelio late effuso, compacto, ca. $\frac{1}{2}$ mm. crasso, tomentoso, subcrustaceo, atro, ramis repetite asteroideo-aculeatis, corniculariiformibus;

*) Præeuntibus mycologis nonnullis, typum *Asterina* et genera ex eodem nuper divulgata, in fam. Microthyriacearum nunc locamus, verum epicrisis nova faciendâ est, nam perithecia in multis non videntur dimidiata sed integra et tunc hæc species inter Perisporieas rectius servandæ sunt. Utinam epicrisim hanc perficiat cl. Gaillard!

peritheciis globosis, carbonaceis, 200-250 μ . diam.; ascis ellipsoideo-ovoideis v. oblongis, octosporis, 15-26 \times 7-9; sporidiis ellipticis, bitulatis, hyalinis, continuis, 5-7 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. ad cortices arborum pr. Blumenau Brasiliæ (MÖLLER).

2. ? **Asterula goyazensis** P. Henn. Hedw. 1895, p. 104. — Epiphylla, 2649
dense gregaria, rotundata, 1-2 mm. diam. vel confluens, atra; mycelio radiato-dendritico, repente, atro-fusco, filis ramosis, septatis, atris, 5-8 μ . diam.; peritheciis gregariis, minutis, subpulvinatis, rotundatis, levibus, ca. 70-100 μ . diam.; ascis subclavato-oblongis v. fusoideis, sæpe curvulis, stipitatis, octosporis, 18-23 \times 6-8; paraphysibus filiformibus, hyalinis; sporidiis conglobatis, subfiliformibus, rectis v. curvulis, hyalinis, continuis, utrinque subapiculatis, 13-15 \times $\frac{1}{2}$.

Hab. in pagina superiore foliorum coriaceorum fruticis ignoti in prov. Goyaz Brasiliæ (ULE).

Sect. 2. Phæosporæ.

ASTERONIA Sacc. — Syll. I, p. 47, ut subg.

1. **Asteronia Sweetiæ** P. Henn. Hedw. 1895, p. 104. — Mycelio 2650
hypophyllo, brunneo-fusco, ramoso, septato, filis 8-11 μ . crassis; peritheciis gregariis, subglobosis, levibus, 110-130 μ . e cellulis parenchymaticis polyhedricis; ascis clavatis, ca. 30 \times 12-15, octosporis; sporidiis distichis, ovoideis v. piriformibus, continuis, brunneis (immaturis?).

Hab. in foliis Sweetiæ spec. in prov. Minas Geraës Brasiliæ (ULE).

Sect. 3. Didymosporæ.

ASTERINA Lév. — Syll. I, p. 39, IX, p. 379, XI, p. 255.

1. **Asterina Ellisia** Sacc. et Syd. *Asterina sphærelloides* Ell. et Ev. 2651
Bull. Torr. Bot. Cl. 1897, p. 126. — Mycelio reticulato, fusco, maculas minutas, atras, suborbiculares, 1 mm. diam. formante, sæpe subconfluente; peritheciis mycelio insidentibus atris, ovatoglobosis, papillatis, 80-90 μ . diam.; ascis oblongis, sessilibus, paraphysatis, 30-35 \times 10-12; sporidiis irregulariter biseriatis, piriformibus, uniseptatis, fuscis, haud constrictis, 10-12 \times 3-3 $\frac{1}{2}$.

Hab. in foliis Clematidis persicæfoliæ in ins. Sandwicens. (HELLER).

2. **Asterina asperulispora** Gaill. Bull. Soc. Mycol. de France XIII, 1897, p. 180, et in Pазschke, Fg. Europ. N. 4053. — Mycelio maculas carbonaceas, indeterminatas efficiente, ex hyphis dense intertextis, 8-9 μ . lat. composito; hyphopodiis numerosis, sessilibus, subglobosis, 7-9 \approx 8; peritheciis sparsis, carbonaceis, contextu radiato, ambitu hyphis sinuosis, adnatis cincto, 112-125 μ . diam.; ascis perfecte globosis, 75-80 μ . diam., octosporis; sporidiis ovoideo-ellipticis, intense brunneis, ad septum valde constrictis, spinulis numerosis, concoloribus, aculeatis conspersis, 42-45 \approx 20-24.

Hab. ad paginam superiorem foliorum *Ilicis* indeterminatæ pr. Tubarao Brasiliæ (ULE).

3. **Asterina Colubrinæ** Ell. et Kels. Bull. Torr. Bot. Cl. 1897, p. 207. — Hypophylla; peritheciis sparsis superficialibus, discoideis, orbicularibus, griseo-nigris, 200-275 μ . diam., nullo distincto mycelio insidentibus; ascis obovatis breviter stipitatis, 18-21 \approx 14-15, paraphysatis, octosporis; sporidiis irregulariter dispositis, clavatis, oblongis, uniseptatis, leniter constrictis, hyalinis, 7-8 \approx 2-2 $\frac{1}{2}$.

Hab. in foliis *Colubrinæ* reclinatæ, St. Croix Indiæ occid.

4. **Asterina Salaciæ** Allesch. Hedw. 1897, p. 235. — Peritheciis superficialibus carbonaceis, globoso-depressis, margine radiato-fibrilloso, dense gregariis, astomis, atris, mycelio nigro insidentibus; ascis subglobosis vel ovoideis, 8-sporis, 30-35 μ . diam.; sporidiis oblongis, 1-septatis, constrictis, utrinque rotundatis, ca. 16-20 μ . longis, 6-8 μ . crassis, ex hyalino flavescentibus.

Hab. ad folia *Salaciæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

5. **Asterina Schmideliæ** Gaill. Bull. Soc. Mycol. de France XIII, 1897, p. 181 et in Pазschke, Fg. Europ. N. 4055. — Mycelio maculas nigras, parum manifestas, indeterminatas efficiente, ex hyphis laxè intertextis, 7-8 μ . lat., brunneis composito; hyphopodiis numerosis, conicis, 8-10 \approx 8; peritheciis sparsis, oculo nudo conspicuis, atris, contextu radiato, ambitu hyphis adnatis sinuosis, fimbriatis, stellatim dehiscentibus, 120-150 μ . diam.; ascis subglobosis, superne incrassatis, 60 \approx 55, octosporis; sporidiis ovato-ellipticis, ad septum valde constrictis, intense brunneis, utrinque rotundatis, verruculis subhyalinis conspersis, oculis inæqualibus: superiore subgloboso, 18-20 \approx 15-18, inferiore basin versus attenuato, 14-15 \approx 13-14.

Hab. ad paginam superiorem foliorum *Schmideliæ* cujusdam pr. Tubarao Brasiliæ (ULE).

6. **Asterina Vochysiæ** P. Henn. Hedw. 1895, p. 103. — Mycelio epiphyllò dendritico repente, sæpe confluyente, tenuissimo, filis

atro-brunneis, ramosis, septatis, conidiiferis; peritheciis in mycelio gregariis, scutellatis, applanatis, atris, glabris, contextu parenchymatico, ambitu radiante, fimbriatulo, subvinoso, 50-75 μ . diam.; ascis oblongis v. subclavatis, sessilibus, utrinque obtusis, interdum subcurvulis, octosporis, 30-35 \times 12-15; paraphysibus filiformibus, hyalinis; sporidiis oblongis v. subovoideis, medio septatis pauloque constrictis, olivaceo-brunneis, dein atro-fuscis, 10-15 \times 5-9.

Hab. in foliis *Vochysiæ* spec. in prov. Minas Geraës Brasiliæ (ULE).

7. **Asterina Caricarum** Rehm, Hedw. 1895, p. (161). — Peritheciis ²⁶⁵⁷ in maculis rotundis, epiphyllis, 2-4 mm. diam., tenuissimis, nigris, radiantibus circinatim singulariter sessilibus, semiglobosis, astomis, nigris, ca. 120 μ . diam., excipulo e radiantibus parallelis cellulis contexto; hyphis rectis, longis, fuscis, ca. 5 μ . latis, vix ramosis, hyphopodiis capitatis alternantibus, sæpe retrorsum flexuosis, cellula superiore 6-9 \times 6; ascis ovalibus, crassis, 45 \times 30, octosporis; sporidiis cuneiformibus, bicellularibus, nucleo 1 magno instructis, primitus hyalinis, dein fuscidulis, 18-20 \times 9; paraphysibus non visis.

Hab. ad folia viva *Caricæ* spec. Prov. de Pichincha Æquatoris (LAGERHEIM). — *Asterinæ silvaticæ* Speg. proxima.

8. **Asterina yucatanensis** Ell. et Ev. Field Columb. Mus. 1896, p. 285, ²⁶⁵⁸ t. IX, f. 1-5. — Amphigena sed plerumque epiphylla in maculis suborbicularibus indefinitis flavicantibus, 3-4 mm. diam.; peritheciis convexo-hemisphaericis, 110-130 μ . diam., subastomis, nigris, suboblongis, fibroso-contextis, mycelio reticulato nigro setulisque septatis brunneis plus minus copiosis, 50 \times 3, margine fimbriatis; ascis oblongo-ellipticis, 40-50 \times 20-25, breve stipitatis v. sessilibus, 8-sporis; sporidiis oblongo-ellipsoideis, medio 1-septatis et profunde constrictis, atro-brunneis, 20 \times 8, loculis subglobosis.

Hab. in foliis viventibus *Pterocarp*i, Yucatan Amer. centr.

9. **Asterina Pittieri** Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, ²⁶⁵⁹ p. 156. — Epiphylla; maculis atris fere totam superficiem folii operientibus, ex hyphis ramosis 18 μ . crassis formatis; hyphopodiis sessilibus, globulosis v. oblongis, 28 \times 18; peritheciis applanatis, contextu radiato, in mycelio sparsis 126-150 μ .; ascis octosporis, globulosis, parum numerosis, 5-6 in quoque perithecio, membrana tenuissima, 32-47 μ .; sporidiis brunneis v. fuliginosis, oblongis, uniseptatis, in duos articulos disjunctis, 28-36 \times 18-28.

Hab. in foliis *Angelicæ mexicanæ*, Costa-Rica.

10. **Asterina solanicoloides** Rehm, Hedw. 1896, p. (150). — Mycelio ²⁶⁶⁰

epiphylllo, plagulas orbiculares, sæpe confluentes, 2-5 mm. lat., fuscidas formante ex hyphis rectangulariter ramosis septatis, fuscis, c. 5 μ . cr. cum hyphopodiis alternantibus, 2-cellularibus, rectis vel subcapitatis. 6 \times 3 contexto; peritheciis sessilibus, globosis, permultis, parenchymatico-contextis, glabris vel interdum setis singularibus, rectis, simplicibus, apice curvatis, subhyalinis, 60 \times 4 obsessis, 150-200 μ . diam.; ascis subglobosis, crassis, 50-60 \times 30-40, 8-sporis, sporidiis oblongis vel subovatis, 2-cellularibus, medio valde constrictis, primitus hyalinis, demum subfuscis, 20-25 \times 9-12.

Hab. ad folia viva Solani in Prov. Pichincha Æquatoriæ (LAGERHEIM). — Jodi ope asci cœruleo saturate tinguntur. Diversa ab *Asterina vaganti* Speg.

11. *Asterina goyazensis* P. Henn. Hedw. 1895, p. 104. — Amphigena; mycelio nudo oculo vix conspicuo, repente, atro, filis ramosis, septatis, atro-fuscis; peritheciis scutellato-depressis, sparsis in mycelio, atris, 250-300 μ . diam., ambitu radiato-reticulato; ascis late ellipsoideis v. ovoideis, octosporis (?); sporidiis conglobatis, oblongis, medio septatis constrictisque, utrinque obtuso-rotundatis, loculis æqualibus 1-guttulatis, 24-28 \times 15-18. 2661

Hab. in foliis vivis Rubiaceæ cujusdam pr. Goyaz Brasiliæ (ULÉ).

12. *Asterina crustosa* B. et Cke.-Sacc. Syll. XI, p. 255. — var. *microspora* Pat. Bull. Soc. Myc. de Fr. 1895, p. 221. — Peritheciis minutis, epiphyllis; sporidiis minoribus, 15-20 \times 10-12. 2662

Hab. in foliis Asclepiadis spec. in Æquatoria.

13. *Asterina globifera* Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 435. — Epiphylla; mycelio obscuro ex hyphis luteolo-hyalinis, prostratis, septatis ramosisque vel ex hyphis erectis, ascendentibus, moniliformibus, brunneis composito; peritheciis sparsis, ovatis, demum plus minusve depressis et collapsis, minutis, 100-200 μ . diam., astomis, membranaceis, primo cellulis luteolo-brunneis, globosis, 6-9 μ . diam., repletis; ascis obovatis v. subglobosis, 20-30 \times 15-20, octosporis; sporidiis ellipticis, hyalinis, 15-20 \times 8-10, medio constrictis, loculis globosis. 2663

Hab. in foliis Grevilleæ spec. in ins. Sandwicens.

14. *Asterina dubiosa* Bomm. et Rouss. Bull. Soc. bot. Belg. 1896, p. 157. — Epiphylla vel amphigena; peritheciis orbicularibus, depressis, poro pertusis, contextu radiato, 144-180 μ ., in mycelio atro ramoso sparsis, 7,2 μ . crasso; hyphopodiis piriformibus, uniseptatis, 18 \times 10,8; ascis piriformibus 36 \times 14 v. subclaviformibus, 2664

50-54 \times 14, sessilibus, ap paraphysatis; sporidiis hyalinis, conglomeratis, subclaviformibus, 3-guttulatis, inter duas superiores guttulas uniseptatis (deinde biseptatis?), 14 \times 5-6.

Hab. in foliis Piperaceæ cujusdam, Costa-Rica.

15. **Asterina Couepiæ** P. Henn. Hedw. 1895, p. 104. — Mycelio 2665 epiphylo, effuso-membranaceo, atro, filis repentibus, ramosis, torulosis, atro-fuscis, 6-8 μ . crassis; peritheciis gregariis in mycelio scutellatis v. pulvinato-depressis, 150-200 μ . diam., ambitu mycelio radiato, reticulato circumdatis; ascis ovoideis v. suboblongis, sessilibus, 4-6-sporis (?), 30-45 \times 26-32; sporidiis conglobatis, oblongis subclavatis v. ovoideis, uniseptatis, ad septum constrictis, loculo superiore plerumque minore, obtuso, loculo inferiore longiore, 1-guttulatis, fuscis, 16-24 \times 8-13.

Hab. in pagina superiore foliorum Couepiæ spec. in prov. Goyaz Brasiliæ (ULE).

16. **Asterina hemisphærica** Gaill. Bull. Soc. Mycol. de France XIII, 2666 1897, p. 179. — Mycelio maculas nigras, indeterminatas, crustaceas efficiente ex hyphis longissimis, laxè intertextis, rufo-brunneis, 7-8 μ . lat. composito; hyphopodiis sessilibus, ovoideo-elongatis, superne rotundatis, distantibus, 12-14 \times 7-8; peritheciis oculo nudo conspicuis, 180-200 μ . diam., carbonaceis, hemisphæricis, contextu radiato, stellatim late dehiscentibus; ascis ovoideis, 80 \times 66, octo-sporis; sporidiis ellipticis, utrinque rotundatis, ad septum valde constrictis, brunneis, 46-48 \times 18-21.

Hab. ad paginam superiorem foliorum arboris ignotæ pr. Rio de Janeiro Brasiliæ (GLAZIOU).

17. **Asterina gibbosa** Gaill. Bull. Soc. Mycol. de France XIII, 1897, 2667 p. 180 et in Pazschke, Fg. Europ. N. 4054. — Mycelio maculas nigras, orbiculares efficiente, ex hyphis densissime intricatis, atro-brunneis, 8-9 μ . lat., composito; hyphopodiis raris, exilibus, unilateraliter expansis, scilicet gibbosis; peritheciis numerosis, atris, contextu radiato, stellatim dehiscentibus, 60-80 μ . diam.; ascis non visis; sporidiis oblongo-ellipticis, brunneis, superne rotundatis, inferne leniter attenuatis, oculis æqualibus, ad septum valde constrictis, 26-28 \times 11-13.

Hab. ad utramque paginam foliorum fruticis indeterminati pr. Tubarao Brasiliæ (ULE).

18. **Asterina calotheca** Pat. Bull. Soc. Myc. de Fr. 1895, p. 221. — 2668 Maculis orbicularibus, 1 cm. diam., superficialibus, sparsis aut confluentibus, atris, crustaceis; mycelio parcissimo, ex hyphis repen-

tibus, brunneis, ramosis, hyphopodiis destitutis, 4 μ . crassis composito; peritheciis dimidiatis, stellatim dehiscentibus, 300-400 μ . diam., ambitu filamentoso, contextu radiante, brunneo; ascis ovoideo-globosis, 80 \times 40-50, crasse tunicatis, diffluentibus, ope jodii undique cœrulescentibus, 8-sporis, aparaphysatis; sporidiis ovoideis, levibus, diu hyalinis, dein fuscis, medio septatis constrictisque, utrinque obtusis, 28-32 \times 15-16.

Hab. ad folia arborum sp. in Æquatoria (v. LAGERHEIM). — *A. monothece* affinis.

19. **Asterina tuberculata** Mc Alp. New S. Wales fung., 1897, p. 699, 2669
t. XXVI, (Proc. Linn. Soc. N. S. W.). — Hypophylla, folia omnino v. partim flavida reddens; maculis orbicularibus, nigris, gregariis, sæpe contiguis; hyphis rhizinoideis subhyalinis, septatis, ramosis, repentibus, 4-5,5 μ . cr.; hyphis brunneis crassioribus, ramosis, ramis ultimis tuberculiformibus, 6-7 μ . cr.; peritheciis membranaceis, suborbicularibus, 60-180 μ . diam., subinde oblongis, 260 \times 140, depressis, radiatim contextis, brunneis; ascis ovoideis, 8-sporis, 60-80 \times 40-50; sporidiis ellipsoideis, atro-brunneis, 1-septatis. leviter constrictis, 33-38 \times 17-19.

Hab. in foliis Geitonoplesii cymosi, Murwillumbah N. S. W. Australiæ (BAKER).

20. **Asterina cubensis** Sacc. et Syd. Ita nuncupetur *Asterina megalospora* B. et C. (1868) Syll. I, p. 41, diversa ab homonyma B. et C. (1862), Syll. I, p. 42.

ASTERELLA Sacc. — Syll. I, p. 42, IX, p. 393, XI, p. 256.

- 1 **Asterella Prosopidis** Ell. et Ev. Americ. Natur. 1897, p. 340. — 2670
Peritheciis gregariis v. sparsis, superficialibus, depresso-conicis, $\frac{1}{2}$ mm. diam., ostiolo nigro, nitido, subconico; ascis clavato-oblongis, 30-35 \times 8-10, subsessilibus, octosporis; sporidiis distichis, fusoides, hyalinis, uniseptatis, haud constrictis, subacutis, 12-14 \times 4-4 $\frac{1}{2}$; paraphysibus firmis, linearibus.

Hab. in cortice vivo Prosopidis dulcis pr. Monterey, Mexico (EGELING).

2. **Asterella Glaziovii** P. Henn. Hedw. 1897, p. 217. — Epiphylla; 2671
maculis rotundis, dein confluentibus; filis repentibus, ramosis, nigris; peritheciis orbicularibus, depressis, scutellatis, atris, 300-400 μ .; ascis clavatis, 60-80 \times 15-25, apice tunicatis, rotundatis, basi stipitatis curvulis; sporidiis distichis, subclavatis vel subfusoides,

medio 1-septatis, constrictis, intus guttulatis, hyalino-flavescentibus dein fuscis, 17-24 \times 7-8.

Hab. in foliis Myrtaceæ indeterminatæ pr. Goyaz Brasiliæ (GLAZIOW).

3. **Asterella Hakeæ** Mc Alp. Proc. of the Linn. Soc. of N. S. Wales, 2672 1897, p. 37, tab. I, fig. 1-3. — Mycelio maculas nigras, amphigenas, distinctas v. confluentes varias, suborbiculares, plerumque $\frac{1}{2}$ - $\frac{2}{3}$ cm. diam. v. confluendo majores efformante; hyphis myceliis atro-brunneis, crasse tunicatis, septatis, nodulosis, ramosis, ramis erectis rigidisque, $7\frac{1}{3}$ μ . latis; peritheciis depresso-globosis, atro-brunneis, asperulis, margine fibrillis paucis adhærentibus ornatis, 200-380 μ . diam.; ascis clavato-obovatis, subsessilibus, apice rotundatis, octosporis, 35-40 \times 22-24; sporidiis initio hyalinis, dein viridibus demumque brunneis, 2-3-stichis, ellipticis, uniseptatis, leniter constrictis, loculo superiore plerumque paululo latiore, 22 \times 9.

Hab. in foliis Hakeæ dactyloidis, pr. Sydney Australiæ (MAIDEN).

4. **Asterella microsphæroides** Rehm, Hedw. 1896, p. 52. — Peritheciis, mycelio prorsus deficiente, laxe in pagina inferiore foliorum sessilibus, dispersis, punctiformibus, atris, globosis v. lentiformibus, glabris, mollibus, extus minute fusco-granulosis, excipulo hyalino tenuissimo cinctis, 250 μ . diam.; ascis creberrimis, ovalibus, apice valde incrassatis, 21 \times 12, octosporis, inter paraphyses hyalinas positis; sporidiis clavatis, 2-cellularibus, cellula inferiore interdum longiore, hyalinis, 8 \times 2 $\frac{1}{2}$, irregulariter sitis.

Hab. in pagina inferiore foliorum vivorum Leucothoës, Itatiaia Brasiliæ (ULE).

5. **Asterella bullata** (B. et C. sub *Asterina* [1868]) Sacc. Syll. I, p. 45. Observetur hanc speciem non esse *Asterinam bullatam* B. et C. [1862], Syll. I, p. 51, quæ adhuc dubia manet.

Sect. 4. Phragmosporæ

ASTERIDIUM Sacc. — Syll. I, p. 49, IX, p. 435, XI, p. 269.

- etc 1. **Asteridium Illicii** Tracy et Earle, Bull. Torr. Bot. Club. 1895, 2674 p. 176. — Hypophyllum; mycelio nullo; peritheciis nigris, sparsis, orbicularibus, applanatis, membranaceis, parenchymaticis, non radiantibus, fragilibus, rugosis, 200-400 μ . diam.; ascis numerosis,

suborbicularibus, 8-sporis, 30-40 μ .; sporidiis subpiriformibus, sæpe curvulis, granulosis, hyalinis, primo uniseptatis, demum 3-septatis.

Hab. in foliis vivis *Illicii floridani*, Mississippi, Amer. bor.

2. **Asteridium baccharidicum** P. Henn. Hedw. 1897, p. 217. — 2675

Peritheciis sparsis singularibus, hypophyllis, globosis, mycelio rufofusco, ramoso, septato, filis 3-4 μ . crassis. ascis cylindræis, clavatis, stipitatis, basi curvatis, apice obtusis, 40-60 \times 7-11, octosporis; paraphysibus filiformibus; sporidiis subdistichis, flavo-fuscescentibus, 3-septatis, cylindræo-fusoideis, utrinque subapiculatis, septis haud constrictis, 14-18 \times 3-5.

Hab. in foliis *Baccharidis triplinervis* in prov. St. Catharina Brasilæ (MOELLER).

3. **Asteridium Esterhazyæ** Rehm, Hedw. 1896, p. 53. — Peritheciis 2676

in pagina foliorum superiore late fusco-nigrificata dense gregariis v. conglobatis, laxè sessilibus, globulosis, parenchymatice contextis, astomis, nigrofuscis, 60 μ . diam., mycelio hypharum simplicium, rectarum, raro denique ramosarum, septatarum, fuscæ, $\frac{1}{2}$ μ . lat., insidentibus; ascis ellipticis v. piriformibus, superne incrassatis, late sessilibus, 30-35 \times 10, 8-sporis; sporidiis subfusiformibus, rectis, 4-cellularibus, hyalinis, 14-15 \times 2, irregulariter positis; paraphysibus teneris, ascos ambientibus.

Hab. in foliis vivis *Esterhazyæ* spec. *Itatiaia* Brasilæ (ULE).

— *A. Xerophylli* Ellis videtur affine, sed peritheciis atque sporidiis minoribus differt.

4. **Asteridium dothideoides** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 2677

p. 436. — Peritheciis epiphyllis, sparsis v. laxè gregariis, sæpe 3-4 confluentibus, applanato-convexis, 300 μ . diam. v. elongatis hysteriiformibusque, 500 \times 200; mycelio prostrato, radiato, subanastomosante ex hyphis brunneis, subcontinuis, 5 μ . crassis composito; hyphopodiis obovatis v. globosis, unicellularibus, circiter 7 μ . diam.; ascis obovatis, sessilibus, 30-40 \times 18-21; sporidiis confertis, oblongo-ellipticis, circiter 20 \times 7-8, sæpe leniter curvulis, obtusis luteo-hyalinis, primo plerumque uniseptatis, demum brunneis, biseptatis, septis hyalinis.

Hab. in foliis *Andromedæ ferrugineæ*, Florida, Amer. bor. (NASH).

5. **Asteridium bicolor** Ell. et Ev. *Erythea* 1897, p. 5. — Maculis 2678

hypophyllis, orbicularibus, fere 2 mm. diam., brunneis, supra-subnigris; peritheciis innato-erumpentibus, applanatis, supra subumbilicato-collabentibus; ascis oblongo-obovatis, breve stipitatis,

22-26 \times 18-22; paraphysibus numerosis, filiformibus; sporidiis oblongo-fusoideis, fasciculatis, flavis, demum brunneis, 3-4-septatis, leniter constrictis, 18-20 \times 6-7.

Hab. in foliis *Arctostaphyli bicoloris* in California.

6. ***Asteridium novum*** Fautr. et Lamb. Rev. Mycol. 1896, p. 142. — 2679

Peritheciis gregariis superficialibus, glabris, minutis, parenchymaticis, irregulariter pertusis, brunneo-nigris; ascis longe pedicellatis, usque ad 180 \times 24, paraphysatis; sporidiis hyalinis, 3-septatis, 22-25 \times 6.

Hab. in foliis putridis *Phœnicis dactyliferæ* in Gallia.

7. ***Asteridium Chusqueæ*** Rehm, Hedw. 1896, p. (150). — Mycelio 2680

hypophyllo, plagulas sparsas orbiculares, radiantés, 2-4 mm. lat. nigrofuscas, ex hyphis ramosis, septatis, fuscidulis, 3 μ . lat. contextas formante; peritheciis 2-6 conglomeratis, sessilibus, glabris, mollibus, parenchymatico-contextis, fuscis, 250 μ . diam.; ascis piri-formibus, crassis, apice elongatis, 30-45 \times 9-10, 8-sporis; sporidiis subclavatis, rectis, 2-4-cellularibus, in quaque cellula nucleum oleosum continentibus, albo-fuscidulis, 7-12 \times 2,5-3, distichis; paraphysibus nullis.

Hab. ad folia viva *Chusqueæ* in Æquatoria (LAGERHEIM).

ASTERIDIELLA Mc Alp. Proc. of the Linn. Soc. of N. S. Wales, 1897, p. 38, tab. I, fig. 4-9. (Etym. *Asteridium*, cui affinis). — Sporidia multiseptata, brunnea (non hyalina; cetera *Asterinæ* vel *Asteridii*). — Species *Asteridii* plenius examinandæ, plures enim ob sporidia plus minus colorata ad *Asteridiellam* spectare videntur. etc

1. ***Asteridiella Solani*** Mc Alp. l. c. — Mycelio amphigeno et ramulico 2681

licolo, crustas confertas, minutas; nigras, plerumque orbiculares sæpe confluentes, facile solubiles, grumosas efficiente, reticulato et hyphis delicatis hyalinis septatis copiose ramosis circiter 3 μ . latis matrici affixis sensim in hyphas coloratas transeuntibus composito; hyphis coloratis atro-brunneis, rigidis, crasse tunicatis, dense intricatis, septatis, ramosis, 8-9 $\frac{1}{2}$ μ . latis, ramulis ultimis plerumque 1-septatis et pallidioribus; peritheciis aggregatis, depresso-globosis, nigris, verrucosis, 130-330 μ . diam.; ascis oblongis v. cylindræis, plerumque 4-sporis, 38-64 \times 13-26 (immaturis); sporidiis brunneis, oblongis, 4-septatis, ad septa leniter constrictis, utrinque rotundatis, 36-44 \times 14-15; pycnidiiis globosis, aureo-brunneis, ore circulari apertis, pariete e cellulis minutis polygonalibus 100-140 μ . diam. composito; sporulis minutis, subglobosis v. ova-

libus, hyalinis aut rarissime brunneolis, $5\frac{1}{2} \approx 3$ vel 4μ . diam., ex hyphis gracilibus, hyalinis, septatis, ramosis oriundis.

Hab. in foliis, petiolis et caulibus Solani viridis, N. S. Wales Australiæ (MAIDEN).

Fam. 6. Lophiostomaceæ Sacc.

Sect. 1. Didymosporæ.

SCHIZOSTOMA Ces. et De Not. — Syll. II, p. 673, IX, p. 1074, XI, p. 382.

1. **Schizostoma stupeum** Ell. et Ev. Bull. Labor. Nat. Hist. Univ. 2682
Jowa, IV, 1896, p. 70. — Peritheciis gregariis, ovato-conicis, $\frac{3}{4}$ mm. altis, $\frac{1}{2}$ mm. crassis, erumpenti-superficialibus, fuscis, basi pilis radiatis erectis griseis instructis; ostiolo crasso, firmo, breve cylindraceo, obtuso, vix compresso v. rostro angusto erumpente compresso ornato, apice subtruncato ibique atro; ascis cylindraceis, 75-85 \approx 4, octosporis, paraphysatis; sporidiis monostichis, oblongis, fuscis, 1-septatis, leniter constrictis, rectis v. lenissime curvulis, 9-12 \approx 3-3 $\frac{1}{2}$.

Hab. in ligno vetusto, Nicaragua (SMITH).

LOPHIOSPHÆRA Trev. — Syll. II, p. 675, IX, p. 1075, XI, p. 383.

1. **Lophiosphæra rhodospora** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2683
p. 278. — Peritheciis erumpenti-superficialibus, gregariis, ovato-conicis, lateraliter compressis, 200-250 μ diam., submembranaceis; ostiolo angusto, subcompresso v. papillato, mox perforato; ascis clavato-cylindraccis, 70-75 \approx 10-12, (paraphysatis?), octosporis, breve stipitatis; sporidiis oblique monostichis v. distichis, ovoideo-ellipticis, roseo-hyalinis, uniseptatis, vix constrictis, 12-14 \approx 5-6.

Hab. in cortice vetusto, Ohio Amer. bor. (MORGAN).

2. **Lophiosphæra zeicola** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 279. 2684
— Peritheciis gregariis, ovato-globosis, apice ac ostiolo erumpente nigro, nitido, angusto, compresso exceptis, totaliter innatis, $\frac{1}{2}$ mm. diam.; ascis oblongo-ovatis, breve stipitatis, obsolete paraphysatis, octosporis, 35-45 \approx 10-12; sporidiis distichis, ovatis, uniseptatis, non constrictis, fumoso-hyalinis, 8-10 \approx 4.

Hab. in culmis vetustis Zeæ Maydis, Kansas Amer. bor. (BARTHOLOMEW).

Sect. 2. Phragmosporæ.

LOPHIOTREMA Sacc. — Syll. II, p. 678, IX, p. 1076.

1. **Lophiotrema Oenotheræ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2685
p. 128. — Peritheciis subgregariis sparsisve erumpenti-superficialibus, minutis, $\frac{1}{4}$ mm. diam., ovato-globosis, ostiolo angusto sed prominulo compresso donatis; ascis clavatis, 45-55 \approx 7, paraphysatis; sporidiis distichis v. obliquis, oblongo-fusoideis, 4-nucleatis, demum 3-septatis medioque leniter constrictis, hyalinis, subobtusis, rectis v. leniter curvulis, 12-13 \approx 3-3 $\frac{1}{2}$.

Hab. in caulibus emortuis *Oenotheræ* biennis, New York Amer. bor.

2. **Lophiotrema vagabundum** Sacc. — Syll. II, p. 684. — Forma **Spartii** 2686
P. Brun. Bull. Soc. Sc. Nat. Nantes IV, 1894, p. 33. — Sporidiis 20 \approx 5.

Hab. in ramis emortuis *Spartii juncei* in Gallia. — Forma **Inulæ** P. Brun. l. c. — Sporidiis 22-38 \approx 5-6, olivaceis, 3-septatis, ad septa constrictis. — In caulibus emortuis *Inulæ crithmoidis*, Fouras in Gallia.

3. **Lophiotrema incisum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 460. 2687
— Peritheciis dense sparsis, cortice immersis, intus albis solidisque, 300-350 μ . diam., sæpe binis v. trinis consociatis, lignum non penetrantibus, apice quadrisulcato erumpentibus; ostiolo subcompresso; ascis cylindræis, 75-100 \approx 10-12, breve stipitatis, paraphysatis; sporidiis mono-vel distichis, cylindræis, obtusis, 3-4-nucleatis, inter nucleos constrictis, 1-septatis, 15-20 \approx 5-6.

Hab. in ramis emortuis *Ribis prostrati*, Colorado Amer. bor.

4. **Lophiotrema Fraxini** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 128. 2688
— Peritheciis sparsis v. gregariis semierumpentibus depresso-sphæricis, brunneis, 400-500 μ . diam., ostiolo vario, papilliformi, compresso-conico v. expanso donatis; ascis clavato-cylindræis, 85-90 \approx 10; sporidiis distichis fusoideis acuminatisque, hyalinis, 5-v. plurinucleatis, demum 3-5 septatis atque vix constrictis, 35-42 \approx 4 $\frac{1}{2}$ -6.

Hab. in ligno decorticato *Fraxini viridis*, Kansas Amer. bor. (BARTHOLOMEW).

5. **Lophiotrema Phœnicis** Roll. Bull. Soc. Myc. 1896, p. 5, tab. II, 2689
fig. 5. — Peritheciis nigris, sparsis, innatis, $\frac{1}{2}$ mm. latis, ostiolo compresso, crasso, tantummodo prominente; ascis clavatis, in stipi-

tem tenuem sat longum desinentibus, sine stipite 100-130 \times 20; sporidiis subdistichis, fusiformibus, rectis v. curvis, hyalinis, 4-6-plerumque 5-septatis, ad septa sæpe constrictis, circiter 50 \times 10, loculis uniguttatis; paraphysibus tenuibus, numerosis.

Hab. ad truncos Phœnicis, Golfe Juan Galliæ. — A *L. phyllophilo* longe diversum.

6. **Lophiotrema Dominici** Sacc. Bull. Soc. Myc. de Fr. 1896, p. 69, 2650
tab. VI, fig. 4. — Peritheciis subgregariis, innato-erumpentibus, globulosis, nigris, $\frac{3}{4}$ mm. diam., ostiolo lineari, parum elevato, integro; ascis clavatis, breve stipitatis, apice rotundatis, 120-130 \times 18-20; paraphysibus guttulatis; sporidiis distichis, cylindræo-fusoideis, utrinque rotundatis, curvulis, 3-septatis, 3-constricto-torulosis, 30-42 \times 6-8, hyalinis, 4-guttatis, diu strato mucoso obvolutis.

Hab. in culmis Phragmitis communis, sociis *Hendersonia arundinacea* et *Stagonospora vexatula*, Venetiis, Italia (DOMINICUS SACCARDO).

LOPHIOSTOMA (Fr.) Ces. et De Not. — Syll. II. p. 689, IX, p. 1083, XI, p. 383.

1. **Lophiostoma Hazslinszkyanum** Sacc. et Syd. *Lophiostoma caudatum* 2691
Hazsl. Math. es term. Közlem. XXV, 2, Budapest 1892, p. 81, nec H. Fabre. — Peritheciis sparsis, emergentibus, stromate rimali angusto insidentibus; ascis cylindricis, in stipitem attenuatis, paraphysibus obvallatis; sporidiis oblique monostichis, angustis, fusiformibus, septis tribus transversalibus ornatis ideoque quadricellularibus, cellulis duabus mediis fuscescentibus ac 24 μ . longis, cellulis extremis achrois utrinque appendicula filiformi 12 μ . longa ornatis, in centro 4 μ . crassis.

Hab. in caulibus emortuis Aconiti Napelli in Hungaria. — Mirabile, quod sporidia exasco liberata omnia appendiculis connexa apparent.

2. **Lophiostoma ambiguum** Otth, Bern. Mittheil. 1868, p. 54. — Pe- 2692
ritheciis nigro-fuscis, corneis, sparsis, globoso-depressis aut pluribus connatis, minoribus, difformibus, cortici pustulato leviter immersis, ostiolo obconico plus minus compresso erumpente et prominulo; ascis clavatis, octosporis; sporidiis oblongo-ellipsoideis, 3-septato-torulosis, 4-guttatis, olivaceo-brunneis, 16-18 \times 6; paraphysibus filiformibus, longis.

Hab. in ramis emortuis Cratægi pr. Bern Helvetiæ.

3. **Lophiostoma perversum** De Not.-Sacc. Syll. II, p. 694. — Var. 2693
santonense P. Brun. Act. Soc. Linn. Bordeaux XLII, 1889, p. 12
 extr. — Peritheciis sparsis v. subgregariis, immersis, vertice in
 ostiolum breve compressum, prominulum nitidulum desinentibus;
 sporidiis obscure luteis, rectis v. curvulis, 25 × 5-6.

Hab. in ramis decorticatis Fraxini excelsioris, Saintes
 Galliæ.

4. **Lophiostoma tingens** (Schw.) Ellis, Proc. Acad. Philad. 1895, p. 26, 2694
Sphaeria tingens Schw., Syn. Amer. bor. n. 1591. — Peritheciis
 ligno innatis, ovato-globosis, circiter $\frac{3}{4}$ mm. diam., subcompressis,
 ostiolo obtuse conico, subtuberculari, firmo erumpente, leviter com-
 presso donatis; ascis clavato-cylindræis, breve stipitatis, 100-
 120 × 15-18, octosporis; paraphysibus numerosis, filiformibus; spo-
 ridiis distichis v. obliquis, late fusoides, hyalinis, demum brun-
 neolis, 4-6 (plerumque 5-) septatis, 22-30 × 6-7.

Hab. in ligno decorticato Lauri Sassafras, Bethlehem,
 Amer. bor.

5. **Lophiostoma dakotense** Ell. et Ev. Proc. Acad. Philad. 1895, 2695
 p. 420. — Peritheciis gregariis semiimmersis subglobosis, 200-250 μ .
 diam., nigro-brunneis, ostiolo conico subcompresso donatis; ascis
 clavato-cylindræis, breviter stipitatis, 65-75 × 10-12, paraphysibus
 numerosis filiformibusque obvallatis; sporidiis distichis oblongo-
 fusoides, primitus 1-septatis dein 3-septatis septisque constrictis,
 subrectis, hyalinis v. demum subolivaceis, 15-20 × 5-6.

Hab. in ramis decorticatis Populi moniliferæ, socia *Phoma*,
 Dakota Amer. bor. (WILLIAMS). — *L. duplici* affine, sed omnibus
 partibus minus.

6. **Lophiostoma zonatum** Hazsl. Math. es term. Közlem. XXV, 2, 2696
 Budapest 1892, p. 82. — Peritheciis ut in *L. hungarico*; sporidiis
 strato mucoso zonatis, initio oblongis, obtusulis, hyalinis, demum
 elongatis, 4-ocularibus, 44-50 × 11-13, coloratis, oculis extimis
 saturatoribus.

Hab. in trunco Carpini Betuli, socio *Lophidio compresso* in
 Hungaria.

7. **Lophiostoma Julii** (Fabr.) Sacc.-Syll. II, p. 702. — Var. **Phœnicis** 2697
 Roll. Bull. Soc. Myc. de Fr. 1896, p. 5, tab. I, fig. 7. — Peri-
 theciis laxè gregariis, nigris, parenchymaticis, infossis, $\frac{1}{2}$ mm.
 latis, ostiolo crasso, compresso præditis, nucleo albido; ascis cylin-
 dricis, crasse pedicellatis, 280-310 × 25-30, 8-sporis; sporidiis fu-
 siformibus, subdistichis, diu hyalinis, dein olivaceo-fuliginosis,

primo 1-, tandem 5-6-septatis, ad septa brunnea, crassa sæpe constrictis, singulis loculis gutta ampla præditis, 60-70 \times 12; paraphysibus filiformibus, ramosis, intricatis.

Hab. in truncis Phœnicis, Golfo Juan Galliæ. — A *L. Julii* differt ascis admodum majoribus.

8. **Lophiostoma clavisorum** Ell. et Ev. Proc. Acad. Philad. 1895, 2698 p. 419. — Peritheciis sparsis v. gregariis, innatis, culmorum superficiem plerumque nigrefacientibus, ostiolo erumpente, appanato 300 \times 150; ascis clavato-cylindræcis, breve stipitatis, paraphysatis, 40-60 \times 12; sporidiis inasco confertis, clavatis, 3-5-septatis, ad septa plerumque constrictis, luteo-brunneis, 20-27 \times 5-6, leniter curvulis, apice obtuso-rotundatis, deorsum gradatim angustatis.

Hab. in culmis *Elymi canadensis*, Kansas, Amer. bor. (BARTHOLOMEW).

Sect. 3 Dictyosporæ.

LOPHIDIUM Sacc. — Syll. II, p. 710, IX, p. 1091, XI, p. 384.

1. **Lophidium incisum** Ell. et Ev. Proc. Californ. Acad. V, 1895, 2799 p. 732. — Peritheciis erumpenti-superficialibus interdum subseriatim dispositis v. subconnatis, depresso-globosis, nigris, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., primitus apice rotundatis ostioloque nullo ornatis, dein ibi fissis v. interdum tribus quattuorve sulcis radiatis præditis ostioloque lato compresso donatis; ascis cylindræcis in stipitem brevem desinentibus, 120-150 \times 12-14, 6-8-sporis, paraphysibus numerosis, filiformibusque obvallatis; sporidiis monostichis oblongo-ellipticis, 5-6-septatis, loculis plurimis septulis etiam longitudinalibus divisis, 23-27 \times 12-14.

Hab. ad ramos *Symphoricarpi oreophili*, Utah Amer. bor.

2. **Lophidium trifidum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 129. 2700 — Peritheciis gregariis ovato-conicis, circiter 1 mm. diam., basi lata ligno leniter immersis, apice plerumque acute elliptico-depressis, centro ostiolo angusto inconspicuo præditis, in senectute laciniis tribus latis apertis; ascis cylindræcis, 130-150 \times 12 (cum stipite brevi); sporidiis monostichis, oblongo-ellipticis, 5-septatis, 1 vel pluribus cellulis septo longitudinali divisis, medio leniter constrictis, 20-23 \times 12.

Hab. in ligno decorticato *Salicis*, Washington Amer. bor. (SUKSDORF). — *L. Populi* affine.

3. *Lophidium rude* Ell. et Ev. Bull. Torr. Bot. Cl. 1897. p. 129. — 2721
Peritheciis sparsis v. gregariis, semiemergentibus, subglobosis, brunneis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., ostiolo breve cylindraceo subcompresso ornatis; ascis cylindraceis, 8-sporis, paraphysatis, p. sp. 75-80 12-14; sporidiis monostichis, oblongo-ellipticis v. oblongo-cylindraceis, brunneis, 4-8-septatis, non constrictis, obtusis, cellulis nonnullis septo longitudinali plus minus distincte percursis. 22-35 \approx 8-12.

Hab. in ligno vetusto, Kansas Amer. bor. (BARTHOLOMEW).

4. *Lophidium anomalum* Atk. Bull. Cornell Univ. III, n. 1, 1897, 2702
p. 12. — Peritheciis erumpentibus, nigris, carbonaceis, elongatis, 400-700 \approx 200-300; ostiolo inconspicuo, interdum compresso; ascis longe cylindraceis, stipitatis; paraphysibus filiformibus, 170-200 μ . longis; sporidiis octonis, monostichis, interdum subdistichis, 4-6-septatis, medio leniter constrictis, rectis v. rarissime leniter curvulis, 1-3 loculis mediis septulo longitudinali divisus, 22-28 \approx 7-9.

Hab. in culmis *Erianthi*, Auburn, Alabama Amer. bor

5. *Lophidium chartarum* Sacc. et Syd. Sic nominandum est *Lophidium purpurascens* Ell. et Ev. in Syll. XI, p. 384, quum exstet anterius *Lophidium purpurascens* Mont. in Syll. IX, p. 1091

Fam. 7. Hemihysteriaceæ Speg.

Sect. 1. Phæosporæ.

CYCLOSTOMELLA Pat. Bull. Boiss. 1896, p. 655 (Etym. *cyclos* circulus et *stoma* ostiolum). — Stromata foliicola, orbicularia, dimidiato-scutata, centro adfixa. Perithecia radiantia in stromate circulariter disposita, ostiolis hysteroideis, anulum formantibus donata. Sporidia ovata, simplicia, brunnea. Mycelium superficiale nullum. *Hysterostomellæ* et *Parmulariæ* affinis, sed differt præcipue sporidiis non septatis ascisque 16-sporis.

1. *Cyclostomella disciformis* Pat. l. c. — Maculis nullis; stromatibus 2703
hypophyllis, sparsis, superficialibus, centro matrice adnatis, orbicularibus, 1-2 mm. diam., atris, medium versus obtuse papillatis, ambitu integro vel minute fimbriatulo, contextu membranaceo-carbonaceo, radiatim celluloso, brunneo; peritheciis stromate innatis, elliptico-linearibus, distinctis, radiantibus extremitate junctis et tunc circulum continuum moniliformem efficientibus; ostiolis

hysterioideis circulariter congruentibus; ascis clavatis, 16-sporis, aparaphysatis, 60-70 \times 15-20; sporidiis conglobatis, simplicibus, brunneis, 8-10 \times 4-8.

Hab. ad folia subcoriacea plantæ cujusdam ignotæ in Costa-Rica (Tonduz).

Sect. 2. Didymosporæ.

HYSTEROSTOMELLA Speg. — Syll. IX, p. 1098, XI, p. 385.

1. **Hysterostomella Miconiæ** P. Henn. Hedw. 1897, p. 231. — Stro- 2704
matibus epiphyllis, superficialibus, sparsis v. gregariis, interdum confluentibus, planis, orbicularibus, atris, crustaceis, opacis, ambitu rugulosis; peritheciis densis, lineatis, subcircinatis, ostioliis hysterioideis; ascis ovoideis vel subclavatis, apice obtuso-rotundatis, 8-sporis, 30-40 \times 15-18; sporidiis subconglobatis, oblongis, medio 1-septatis, constrictis, brunneo-fuscis, utrinque obtuso-rotundatis, 14-16 \times 8-9.

Hab. in foliis *Miconiæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

PARMULARIA Lév. Ann. Sc. nat. 1846, ser. III, vol. V, p. 236; Syll. II, p. 662, XI, p. 387; P. Hennings in Hedw. 1895, p. 111; *Schneepia* Speg. Fungi Guar. Pug. I, p. 259; *Clypeum* Masee Journ. of Bot. 1896, p. 145. — Stromata superficialia, orbicularia, dimidiato-scutata, atra. Perithecia in stromate dense constipata, radiantia, ostioliis hysterioideis, æque radiantibus donata. Asci cylindracei, paraphysati, octospori. Sporidia elliptica, didyma, initio hyalina, demum colorata, plerumque fusca. — Ubi occurrant species constanter hyalosporeæ pro his genus *Schneepia* Speg. (1886) servari poterit.

1. **Parmularia Styracis** Lév. l. c. p. 281; Hennings l. c. p. 111; 2705
Sacc. Syll. II. p. 662; Lindau in Engler-Prantl, Natürl. Pflanzenfam. I, 1, p. 274. — Stromatibus epiphyllis, scutellato-rotundatis interdum confluentibus, medio umbilicato-depressis, centro ad marginem dense radiatim sulcatis, striis deinde longitudinaliter in rimas canaliculatas dehiscentibus, atro-opacis, 2-5 mm. diam.; ascis subcylindraceis v. oblongo-clavatis, apice obtuso-rotundatis, stipitatis, octosporis, 70-100 \times 12-15; paraphysibus filiformibus, apice subclavatis, septatis, brunneolis; sporidiis monostichis v. subdistichis, oblonge ovoideis v. subellipsoideis, primo subhyalinis, dein

fusco-brunneis, medio 1-septatis, subconstrictis, utrinque obtusis, 14-18 \times 7-8.

Hab. in foliis *Styracis* per magnam partem Brasiliæ. — Huc verisimiliter *Schneepia Arechavaletæ* Speg. ducenda, quæ forte immatura ab auctore descripta.

2. **Parmularia guaranítica** (Speg.) P. Henn. Hedw. 1897, p. 230; 2706
Schneepia guaranítica Speg. in Syll. IX, p. 1097; *Parmularia Styracis* Lév. var. *minor* P. Henn. Hedw. 1895, p. 112, Syll. XI, p. 387.

Hab. in foliis *Styracis* in Brasilia et Paraguay.

3. **Parmularia pulchella** (Speg.) Sacc. et Syd. *Schneepia pulchella* 2707
 Speg., Syll. IX, p. 1097.

Hab. in foliis vivis Sapotacæe cujusdam in Brasilia.

4. **Parmularia peltata** (Mass.) Lind. in Engler et Prantl, Natürl. 2708
 Pflanz. I, 1, p. 274; *Clypeum peltatum* Mass. (nov. gen.) Journ. of Bot. 1896, p. 145. — Peritheciis epiphyllis, orbicularibus, planis, gregariis v. confertis, nigris, submembranaceis, discoideis, in medio umbonatis, in rimas radiales longitudinales 2-3 mm latas dehiscens; ascis cylindrico-clavatis octosporis, 100-110 \times 14-15; sporidiis irregulariter distichis, hyalinis (semper?), levibus, elliptico-clavatis, 1-septatis, loculo superiore majore, 15 \times 8-9; paraphysibus numerosis, septatis, interdum ramosis, apice olivaceis ibique incrassatis, 4-5 μ . crassis.

Hab. in foliis coriaceis plantæ ignotæ, Nova Zelandia (COLENSO).

5. **Parmularia Uleana** P. Henn Hedw. 1898, p. (206). — Stroma- 2709
 tibis epiphyllis, applanatis, scutatis, orbicularibus, atro-brunneis, centro ad marginem dense radiatim sulcatis, striis dein longitudinaliter dehiscens, 3-5 mm. longis, 3-4 mm. latis; ascis clavato-cylindraceis, rotundatis, 60-70 \times 22-28; sporidiis octonis distichis, oblongo-ovoideis, hyalinis usque luteolis, medio 1-septatis, 16-20 \times 8-9.

Hab. in foliis *Æchmeæ pectinatæ* in Brasilia (ULE).

6. **Parmularia javanica** (Pat.) Sacc. et Syd., *Schneepia javanica* Pat. 2710
 Ann. Jard. Buitenz. 1897, I, suppl. p. 122. — Stromatibus epiphyllis minutis, vix 1 mm. latis, orbicularibus v. stellatis, margine non fimbriato, convexis, nitentibus, sæpe concentricè sulcatis, ostioliis hysteroideis eximie e centro radiantibus donatis, contextu microthyriaceo; ascis ovoideo-elongatis, apice obtusis, inferne attenuatis, 80-100 25-30; paraphysibus hyalinis, linearibus, apice obtusis, subgelatinosis; sporidiis hyalinis dein brunneis, levibus,

ovoideis, utrinque rotundis, medio septatis constrictisque, 26-30 × 10-12; stromatibus hypophyllis ex hyphis dendroide-ramosis, gracilibus, brunneis, 5-7 μ . crassis, hyphopodiis destitutis, repentibus compositis, plagas atras, carbonaceas, arcte adnatas, orbiculares, circiter 1 cm. diam., confluentes, ambitu radiantes efficientibus; peritheciis superficialibus, linearibus, hysteroideis, rectis v. flexuosis, stellatum v. irregulariter centro plagarum sitis.

Hab. in foliis Niptæ fruticantis. Java (MASSART)

Fam. 8. Hysteriaceæ Corda.

Sect. 1. Hyalosporæ.

SCHIZOTHYRIUM Desm. — Syll. II, p. 723, IX, p. 1100.

1. **Schizothyrium Aceris-laurini** Pat. Ann. Jard. Buitenz. 1897, I 271 suppl. p. 123. — Maculis epiphyllis, pallidis, irregularibus, sparsis aut confluentibus; peritheciis sparsis, atris, nitentibus, orbicularibus v. ellipsoideis, minutis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam., dimidiatis, convexis, basi insculptis, levibus, lineari-ostiolatis; ascis claviformibus, 130-180 × 13-16, octosporis, paraphysatis; sporidiis subdistichis, hyalinis, simplicibus, claviformibus, utrinque obtusis, 20-22 × 4-5; paraphysibus numerosis, linearibus, ascis longioribus.

Hab. in foliis Aceris laurini, Java (MASSART).

Sect. 2. Phæosporæ.

ERIKSSONIA Penz. et Sacc. Malpighia XI, 1897, p. 526 (Etym. a cl. doct. J. Eriksson bolniensi). — Stromatica; sori disciformes, minuti, nigri, superficiales, basi stromatica, globulosa, innata, cava, superne peritheciophora; perithecia pauca, oblonga e centro radiatum divergentia radiatimque carinato-rimosa, nigra, subcarbonacea. Asci teretiusculi, paraphysati, octospori. Sporidia e globoso ovocidea, diu hyalina, demum atra, opaca. — Genus eximium a *Cyclostomella* Pat. mox dignoscitur ostioliis e centro radiantibus, nec aculatum positis et ascis 8-sporis: a *Parmularia* Lév. (= *Schneepia* Speg.) imprimis sporidiis continuis, atris. Fabrica ejus omnino peculiaris, sed ob minutiam et in sicco ægre discernenda.

Erikssonia pulchella Penz. et Sacc. Malpighia XI, 1897, p. 526. 2712
hypophyllis dense gregariis, minutis, convexo-discoides,

400 μ . diam., nigris, glabris, basi stromatica globulosa, cava (peritheciiformi!) 200 μ . diam., nigrescente; peritheciis in quoque soro subquinis, exquisite radiatim positis, oblongis, convexulis, 220 \times 150, rugulosis, tenuissime carinato-rimosis. contextu dense celluloso. nigricante, subcarbonaceo; ascis teretibus v. tereti-fusoidis, breve stipitatis, utrinque obtusis, 50-60 \times 12-14, sæpe gibbis, octosporis, aparaphysatis; sporidiis monostichis v. partim distichis e globoso ovoideis, inæqualibus, 9-12 \times 6-7. diu hyalinis, dein saturate brunneis, 1-guttatis.

Hab. parasitica in foliis coriaceis nondum emortuis nec maculatis plantæ ignotæ, Depok, ins. Java.

Sect. 3. Didymosporæ.

AULOGRAPHUM Lib. — Syll. II, p. 727, IX, p. 1101, XI, p. 336.

1. **Aulographum atro-maculans** Penz. et Sacc. Malpighia XI, 1897, 2713 p. 327. — Peritheciis hinc inde dense confertis maculasque atras plus minus extensas formantibus, anguste linearibus, vix 0,4-0,5 mm. long., superficialibus, in soros subcirculares minutos radiatim digestis, depressis, tenuissimis, obsolete rimosis, ascis cylindræo-clavatis, apice rotundatis, 25-30 \times 8-9, basi obtuse tenuatis, paraphysatis octosporis; sporidiis obovatis, 12 \times 4, demum 1-septatis, non constrictis, ex hyalino dilutissime flavidis.

Hab. in petioliis emortuis Palmarum in Horto bot. Bogoriensi, ins. Java. — Mycelium repens crustulas atras subinde valde extensas efformat.

GLONIUM Mühl. — Syll. II, p. 731, IX, p. 1102, XI, p. 386.

1. **Glonium macrosporum** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 2714 p. 207. — Peritheciis sparsis, nigris, carbonaceis, late ovalibus obtusisque, in longitudine indistincte striatis labiisque dense conniventibus, 1 mm. circiter longis; ascis cylindræis, tenue tunicatis, 200 \times 35-40, paraphysatis, octosporis; sporidiis longissimis cylindræis leniterque curvulis, obtusis, inæqualiter 1-septatis parumque constrictis, hyalinis vel tandem dilute coloratis, 60-70 \times 12-15.

Hab. in ramis emortuis Perseæ palustris, Mississippi Amer. bor. — Ad *Tryblidium* vergit sporidiis interdum subcoloratis.

SYNGLONIUM Penz. et Sacc. Malpighia XI, 1897, p. 526 (Etyrn. *syn* simul et *Glonium*, h. e. *Glonium* compositum). — Perithecia

carbonacea, nigra, superficialia, elongata, semicirculariter curvata v. varie flexuosa et in soros orbiculares convexo-pulvinatos arcte connexa, levia, longitudinaliter rimosa, labiis adpressis. Asci tereti-clavati, filiformi-paraphysati, octospori. Sporidia fusioidea, 1-septata, hyalina. — Genus vere singulare, sistit quasi *Glonium* compositum, phyllogenum. Tam hoc quam genus *Erikssonia*, etsi inter se diversissima, sunt Hysteriaceæ stromaticæ et novam tribum formant!

1. **Synglonium insigne** Penz. et Sacc. *Malpighia* XI, 1897, p. 527. 2715
 — Soris epiphyllis, sparsis, superficialibus, pulvinatis, prominentibus, 3-5 mm. diam., suborbicularibus, nigris, carbonaceis, e 4-12 peritheciis constantibus; peritheciis curvatis v. varie tortis, arcte connexis, 2-3 mm. long., 0-3 mm. cr., rima angusta sed distincta. exaratis; ascis tereti-clavatis, apice obtusulis, deorsum attenuato-stipitatis, 75 × 8, octosporis; paraphysibus copiosis, filiformibus, subinde ramulosis; sporidiis oblique monostichis v. subdistichis, fusioideis, curvulis, 1-septatis, leviter constrictis, 18 × 4, utrinque acutiusculis, hyalinis.

Hab. in foliis vivis v. languidis *Aceris laurini* in M. Pan-gerango, ins. Java.

LEMBOSIA Lév. — *Syll.* II, p. 741, IX, p. 1104, XI, p. 387.

1. **Lembosia illiciicola** Tracy et Earle, *Bull. Torr. Bot. Club.* 1895, 2716 p. 177. — Epiphylla; maculis vagis, magnis, dilute brunneis, orbicularibus v. irregularibus; peritheciis numerosis, superficialibus, carbonaceis, plerumque linearibus strictisque, interdum triangulariter stellatis, 300-400 × 100; subiculo e fibris dilute brunneis, flexuosis, pellucidis, continuis, varie ramosis et anastomosantibus formato; ascis numerosissimis, ovalibus v. ovatis, 8-sporis, 25-30 × 12; sporidiis ovalibus, uniseptatis, leniter constrictis, utrinque obtusorotundatis, hyalinis, demum subcoloratis, 8-10 × 3-4.

Hab. in foliis *Illicii floridani*, socio *Asteridio Illicii*, Mississippi, Amer. bor.

2. **Lembosia decalvans** Pat. *Ann. Jard. Buitenz.* 1897, I suppl. 2717 p. 122: — Mycelio epiphylo, effuso, arcte adnato, dendroideo-ramoso, ex hyphis brunneis, gracilibus, 3-5 μ . crassis, septatis, ramosis, hyphopodiis sessilibus, paucis, subglobosis, unicellularibus, 8-10 μ . latis, donatis formato, plagas atras, orbiculares, centro mox denudatas, ambitu radiantes efficiente; peritheciis gregariis, plus minus circulatim dispositis, atris, carbonaceis, obscuris, rectis

v. *curvulis*, rimoso-dehiscentibus, 160-300 × 100-150; asois ovoideis, 40-50 × 23-28, aparaphysatis, 8-sporis; sporidiis ovoideis, medio septatis constrictisque, diu hyalinis, dein brunneis, 20-23 × 8-10.

Hab. in foliis *Pachygonos zonatæ*, Java. — Var. **Cocculi** Pat. l. c. — Differt a forma typica plagis centro non denudatis. — *Hab.* in foliis *Cocculi*, Java (MASSART).

3. **Lembosia prinoides** Tracy et Earle, Bull. Torr. Bot. Club. 1895, 2718 p. 176. — Epiphylla; mycelio in maculis orbicularibus, pallidis, brunneo; peritheciis sparsis, nigris, subcarbonaceis, fimbriato-marginatis, ellipticis, subacutis, sæpe furcatis, 200-350 × 120-150; subiculo e fibris obscure brunneis, irregularibus, nodulosis, plerumque continuis, ramosis formato; ascis ovatis, 8-sporis, 30-35 × 15-18; sporidiis ellipticis, inæqualiter uniseptatis, parum constrictis, subhyalinis, demum fuliginis, 10-15 × 4-5.

Hab. in foliis *Ilicis coriaceæ*, Mississippi, Amer. bor.

4. **Lembosia Ilicis** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, p. 208. 2719 — Epiphylla; mycelio ex hyphis numerosis, gracilibus, fuscis, 15-20 × 2-3, formato, maculas cinereas 3-5 mm. latas efficiente; peritheciis plerumque linearibus simplicibusque, raro ramosis, 200-300 × 70-80; ascis ovalibus v. oblongis non stipitatis, 20-25 × 10-12; sporidiis ellipticis, subæqualiter 1-septatis, leniter constrictis, tandem olivaceis, 8-10 × 2½-3.

Hab. in foliis vivis *Ilicis glabræ*, Mississippi in Amer. boreali.

5. **Lembosia angustiformis** Tracy et Earle, Bull. Torr. Bot. Club. 2720 1895, p. 176. — Epiphylla; mycelio in vesiculis brunneis irregulariter stellatis parco; peritheciis nigris, longis angustisque, sæpe flexuosis, raro ramosis, 175-300 × 60-80; subiculo e fibris paucis, brevibus, flexuosis, subfuscis, ramosis formato; ascis late ovalibus, circiter 18 × 15; sporidiis obovatis subinæqualiter uniseptatis, constrictis, ex hyalino dilute fuliginis, 8-10 × 4-5.

Hab. in foliis *Ilicis coriaceæ*, Mississippi, Amer. bot.

6. **Lembosia Cliftoniæ** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 2721 p. 208. — Epiphylla; mycelio parco v. plerumque nullo, ex hyphis paucis obscure coloratis nodulosis flexuosisque, 15-25 × 2-3, formato, plagas minutas irregulariter rotundatas, albescentes, 1-2 mm. diam., efficiente; peritheciis minutis, ovalibus v. lineari-ovalibus, vulgo rectis simplicibusque, rarius crassis, 100-150 × 40-70; ascis obovatis, 20-25 × 10-15; sporidiis ovalibus v. biconicis æqualiter 1-septatis, dilute fuliginis, 9-11 × 4-5.

Hab. in foliis vivis Cliftoniæ ligustrinæ, Mississippi Amer. bor.,

7. **Lembosia Andromedæ** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 2722 p. 207. — Hypophylla, maculis definitis carens; peritheciis sparsis gregariisve linearibus hinc inde flexuosis, rarius ramosis, 250-400 \times 50-90, subiculo copioso ex hyphis laxè intertextis anastomosantibus, fuscis, 25-40 \times 2-3 composito insidentibus; sporidiis inæqualiter 1-septatis, ovalibus v. biconicis, hyalinis (an immaturis?), 8-9 \times 2 $\frac{1}{2}$ -3.

Hab. in foliis caulibusque Andromedæ nitidæ, Mississippi Amer. bor. — *L. Oleæ* valde affinis

- 8 **Lembosia Oleæ** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, p. 207. 2723 — Hypophylla, maculis carens; peritheciis sparsis magnisque, flexuosis sæpeque ramosis v. conjunctis, circiter 400 \times 80-100, subiculo bene evoluto ex hyphis longis gracilibus fuscis ramosis densequè contextis, 100 \times 2-2 $\frac{1}{2}$ composito insidentibus; sporidiis inæqualiter uniseptatis, loculo breviorè angustiorè, hyalinis (probabiliter immaturis!), 12-15 \times 4.

Hab. in foliis Oleæ americanæ, Mississippi Amer. bor.

9. **Lembosia rugispora** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 2724 p. 208. — Maculis epiphyllis, irregulariter orbicularibus, brunneis, mycelio radiato tectis, 1-3 mm. diam.; peritheciis sæpe stollatim conjunctis v. varè ramosis, circiter 400 \times 100; subiculo arcte evoluto, e filis variis, aliis pallidis multiseptatis, circiter 3-3 $\frac{1}{2}$ μ . crassis, aliis obscurioribus plerumque continuis, creberrime anastomosantibus, 2 $\frac{3}{4}$ -3 μ . crassis, interdum conidia erecta, sessilia, 4-8-septata, brunnea, clavata, 30-45 \times 7-8 metientia gerentibus formato; ascis ovalibus, 25-35 \times 20-25; sporidiis magnis, ovalibus, subæqualiter 1-septatis, demum brunneis, 15-20 \times 8-10, in maturitate minute verruculosi.

Hab. in foliis vivis Perseæ palustris, Mississippi in America boreali.

10. **Lembosia quercina** (Ell. et Mart.) Tracy et Earle, Mississippi 2725 Fungi 1895, p. 105; *Autographum quercinum* Ell. et Mart. Am. Nat. 1883, p. 1283. — Peritheciis epiphyllis sparsis v. in greges orbiculares collectis, oblongis v. linearibus, sæpe ramosis, rima longitudinali dehiscentibus, vix 1 mm. long., rectis v. curvulis, basi fibraria mycelica cinctis; ascis ovatis, 20-25 \times 15-18, 8-sporis; sporidiis conglobatis, obovatis, 1-septatis, initio 10-14 \times 6-7, hyalinis; dein maturis, 15-20 \times 8, atro-brunneis.

Hab. in foliis *Quercus virentis*. Florida, Louisiana, Mississippi Amer. bor.

11. *Lembosia diffusa* Wint-Syll. IX, p. 1106. — *L. breviscula* 2726
P. et S., *Maipighia* XI, 1897, p. 527. — A typo differt peritheciis hypophyllis nec epiphyllis, brevibus, orbicular-ellipticis, 200-300 μ . long., nec elongato lanceolatis; maculis foliorum quidem roseis sed minus manifestis; maculis myceliaribus 3-5 mm. diam., nec 10 mm. d.

Hab. in foliis coriaceis languidis, M. Pangerango Javæ — Asci obovati, 60-65 \times 30, apapophysati (?), subactospori; sporidia oblongo-fusoidea, 1-septata, non constricta, 30-35 \times 8-10, tandem utrinque rotundata, constricta, 30-32 \times 11-12, fuliginea. Hyphæ radiantes, ramulosæ, subinde nodulosæ (nec pectinatæ), 8 μ . cr., fuhgineæ.

12. *Lembosia serpens* Pat. Ann. Jard. Buitenz. 1897, I suppl. p. 122 2727
— Mycelio nullo; peritheciis hypophyllis, atris, non nitentibus, dimidiatis, convexis, utrinque acutis, $1\frac{1}{2}$ - $2\frac{1}{4}$ mm. longis, simplicibus v. furcatis, rimoso-dehiscentibus, ambitu fimbriatis, sparsis aut confluentibus; ascis ovoideis, subsessilibus, 33-40 \times 15-23 octosporis, apapophysatis, sporidiis elongatis, utrinque obtusiusculis, medio septatis constrictisque, 28 \times 8, brunneis.

Hab. in foliis *Filicium*, Java (Massart)

13. *Lembosia Patouillardii* Sacc. et Syd. Sic nominanda est *Lembosia orbicularis* Pat. in Syll. IX, p. 1108, quum exstet anterior *L. orbicularis* Wint. in Syll. IX, p. 1104.
14. *Lembosia hysteroideis* Sacc. et Syd. Sic nominanda est *Lembosia caespitosa* (Ell. et Ev.) Sacc. in Syll. IX, p. 1107, quum exstet precedens *L. caespitosa* (Oke.) Sacc. in Syll. II, p. 742

Sect. 4. Phragmosporæ

HYSTERIUM Tode em. — Syll. II, p. 743, IX, p. 1108, XI, p. 387.

1. *Hysterium Negerianum* P. Henn. et Lind. Hedw. 1897, p. 231. — 2723
Peritheciis sparsis v. gregariis, cauliculis, oblongis, pulvinatis, carbonaceo-atris, opacis, striatis, 1-1 $\frac{1}{2}$ mm. longis, labiis obtusis. disco lineari, atro; ascis clavatis, basi subpedicellatis, curvatis, apice obtusis, octosporis, 90-120 \times 18-21; paraphysibus filiformibus, ca. 1 μ crassis; sporidiis oblongis, 3-septatis, grosse 4-guttulatis, 21-30 \times 8-10, hyalino-fuscidulis.

Hab. in caulibus ignotis pr. Concepcion in Chile (NEGER). —
Hysterio pulicari Pers. affine.

2. **Hysterium Melaleucæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 2729 ser. 1896 (Microm. III, pag. 5) et Rev. Mycol. 1896, pag. 159, tab. CLXVII, fig. 3. — Peritheciis superficialibus, sparsis v. subconfluentibus, oblongis, carbonaceis, nitidulis, atris, medio rima longitudinali percursis, labiis anguste rotundatis, $\frac{1}{3}$ -1 mm. long., $\frac{1}{3}$ mm. lat., contextu atro fuligineo; ascis cylindraceutis v. subcylindraceutis, sursum rotundatis, basi breve attenuato-stipitatis, octosporis, 80-100 \times 12-14; paraphysibus filiformibus, longis, granulosis obvallatis; sporidiis subdistichis v. inordinatis, oblongo-ellipticis, clavulatis, initio hyalinis, nucleolatis, dein fuliginosis, 3-septatis, leniter constrictis, haud raro loculo tertio incrassato, 16-18 \times 5 $\frac{1}{2}$; spermogoniis punctiformibus; spermatiis cylindraceutis, continuis, hyalinis, 2-2 $\frac{1}{2}$ \times $\frac{1}{3}$ - $\frac{1}{2}$, initio basidiis filiformibus fultis.

Hab. in cortice Melaleucæ armillaris in horto botanico Senensi Italiae. — Affine *H. pulicari* Pers., sed differt peritheciis, quæ zona carent, et sporidiis clavulatis et non guttulatis.

3. **Hysterium ? Alstoniæ** F. Tassi, Att. R. Acc. dei Fisiocr. Siena 4 2730 ser. VIII (Microm. III, p. 4). — Peritheciis superficialibus, sparsis vel plus minusve approximatis, oblongo-linearibus, nigris, carbonaceis, utrinque obtusiusculis, $\frac{2}{3}$ -1 $\frac{1}{3}$ mm. longis, $\frac{1}{3}$ - $\frac{1}{4}$ mm. crassis, rima dorsali hiantibus, contextu atro-fuligineo; fructificatione ignota.

Hab. in cortice vetusta Alstoniæ scholaris in insulis Moluccis.

4. **Hysterium erianthicolum** Atk. Bull. Cornell Univ. III, n. 1, 1897, 2731 p. 12. — Peritheciis nigris, carbonaceis, breve oblongis, rimæ angustissima dehiscens, 2-3 mm. longis, 1 $\frac{1}{2}$ mm. latis; ascis clavatis, 90-120 \times 10-12, paraphysatis; sporidiis bi-vel tristichis, 8-9-septatis, flavis, cylindraceutis, curvulis, loculo quarto latiore, 30-35 \times 3-4.

Hab. in culmis Erianthi spec. Auburn, Alabama Amer. bor.

RHYTIDHYSTERIUM Speg. — Syll. II, p. 759, IX, p. 1111, XI, p. 388.

1. **Rhytidhysterium guaraniticum** Speg. — Syll. IX, p. 1111 — *R. 2732
javanicum P. et S. Malpighia XI, 1897, p. 528. — A typo differt sporidiis medio non v. lenissime constrictis; peritheciis minoribus, distinctius striato-rugosis.

Hab. in cortice arborum in horto bot. Bogoriensi, ins. Java.
— Perithecia tota fusco-nigra, etiam in disco, 1-2 mm. long.,
0,7-1 mm. lat., 0,5 mm. alt., recta v. sinuosa, sparsa, subinde
2-3-conferta et radiatim quoque posita, striis transversis sub lente
prædistinctis, crebre parallelis. Rima linearis, labiis obtuse invo-
lutis. Asci cylindraceuti, breves stipitati, apice rotundati, 170-200 ×
12-14, octospori; paraphyses asco longiores, apice coalescentes et
fuscescentes. Sporidia oblique monosticha, oblongo-fusoidea, sæpius
inæquilateralia, utrinque obtusiuscula, 3-septata, 32-36 × 10-13, non
constricta vel vix visibiliter.

GLONIELLA Sacc. — Syll. II, p. 765. IX, p. 1112, XI, p. 388.

1. *Gloniella ambigua* Karst.-Sacc. Syll. XI, p. 338 — *G. anceps* Sacc. 2733
Malpighia XI, 1897, p. 280. — Peritheciis carbonaceis, 0,6 × 0,3
mm., basi ligno infossis, demum rima brevi inæquali dehiscenti-
bus; ascis breviter stipitatis, 90 × 12-14, apice rotundatis, copiose
filiformi-paraphysatis; sporidiis distichis, fusoideis, 3-septatis, non
constrictis, 20-24 × 7, hyalinis.

Hab. in ramis corticatis *Rhododendri ferruginei*, Riva-
Valdobbia, Italia boreal. (CARESTIA).

PSEUDOGRAPHIS Nyl. — Syll. II, p. 769, IX, p. 1116.

1. *Pseudographis Volkensii* P. Henn. Fungi camerun. I, in Engl. 2734
Jahrb. XXII, 1895, p. 80. — Peritheciis erumpentibus, epider-
mide cinctis, rectis v. curvulis, atris, 1/2-1 mm. longis, labiis vix
distantibus, integris; disco atro; ascis cylindraceuto-clavatis, 8-sporis,
apice obtusis; paraphysibus numerosis, filiformibus, hyalinis; spo-
ridiis subdistichis vel conglobatis, fusoideis, obtuso-acutiusculis,
rectis v. curvulis, 5-pluriseptatis, septis non constrictis, cyane-
scentibus, 18-24-30 × 6-8, hyalinis.

Hab. in ramis vivis *Turrææ Volkensii*, Kilimandscharo,
Africa (VOLKENS).

Sect. 5. Dictyosporæ.

GLONIOPSIS De Not. — Syll. II, p. 772, IX, p. 1116.

1. *Gloniopsis llicis* E. Rostr. Bot. Tidsskr. 1897, p. 45. — Perithe- 2735
ciis superficialibus, atris, elongatis v. oblongis, 2-3 mm. longis,
1 mm. crassis, disco lineari, labiis conniventibus cinereo-pulvera-
ceis; ascis cylindraceutis, 90-95 μ . longis, paraphysatis; sporidiis

inordinatæ monostichis, ovatis v. ellipsoideis, hyalinis, 5-septatis, ad septum medium constrictis, quandoque septo uno alterove longitudinaliter divisis

Hab. in ramulis Ilicis Aquifolii in Davia.

2. *Gloniopsis larigna* Lamb. et Fautr. Rev. Mycol. 1895, p. 168, 2736
tab. CLVII, fig. 1. — Peritheciis atro-nitidis, superficialibus, elevatis, conicis, dein applanatis, hiantibus; ascis irregulariter piriformibus, 40×12 vel elongatis et 50×10 ; sporidiis cumulatis v. distichis, hyalinis, transverse triseptatis, duabus cellulis in longitudine uniseptatis, ad septa constrictis, septo medio in duas partes inæquales divisis.

Hab. in ramis Laricis europææ in Gallia.

HYSTEROGRAPHIUM Corda — Syll. II. p. 776, IX, p. 1119, XI, p. 389.

1. *Hysterographium Artemisiæ* Pat. Enum. Champ. Tunisie 1892, 2737
p. 16, tab. I, fig. 5. — Peritheciis superficialibus, sparsis, nigris, coriaceis, longitudinaliter rimosis, dein apertis, suborbicularibus, marginatis; disco nigrescente; ascis clavatis, stipitatis, apice obtusis, $120-150 \mu$; paraphysibus gracilibus, hyalinis, apicem versus in ramos divisas clavatisque, virescentibus, sæpe coalescentibus; sporidiis ovalibus, fusoides, luteis, dein utrinque pallidioribus, transverse 8-10-septatis, in longitudine multiseptatis. $28-35 \times 15$.

Hab. in caulibus emortuis *Artemisiæ* *Herbæ-albæ*, Tunisia.

2. *Hysterographium incisum* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2738
p. 462. — Peritheciis oblongis, subimmersis, paralele dispositis, $1-2 \times 1$ mm., subacutis, striis longitudinalibus percursis, labiis arcuato conniventibus; ascis oblongo-cylindræis, breve stipitatis, paraphysatis, octosporis, $75-80 \times 12-13$; sporidiis distichis, ovato-oblongis v. ovato-ellipticis, brunneis, 3-4-septatis, interdum septo longitudinali divisis, $18-20 \times 5-7$.

Hab. in ramis emortuis *Rhois aromaticæ*, Colorado Amer. bor.

3. *Hysterographium Zizyphi* Pat. Cat. rais. pl. cell. Tunisie 1897, 2739
p. 112. — Peritheciis atris, oblongis, utrinque attenuatis, basi insculptis, levibus v. longitudinaliter striatis, 1 mm. longis; labns tumidulis; ascis cylindræo-clavatis, apice rotundatis, paraphysatis, $100-120 \times 15-20$; sporidiis melleo-fuliginosis, transverse 4-7 septatis constrictisque, cum 1 septulo longitudinali.

Hab. in ligno denudato *Zizyphi* in Tunisia.

4. **Hysterographium simillimum** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, III, n. 5, p. 15, fig. 1. — Peritheciis primo plus minusve solitariis, lenticularibus, circulariter determinatis, 150-200 μ . diam. deinde ellipsoideis v. ellipsoideo-rotundatis, 300-500 \times 200, demum longitudinalibus, 2 mm. longis, 0, 2 mm. latis, gregariis sæpissime parallelis, superficialibus, basi insculptis, matricem non vel vix atro-inquinantibus, atratis, carbonaceis, extus rugosis, vix vel paullum striatulis, rima arcta dehiscentibus; ascis cylindraceutis, 8-sporis, sursum obtusis, breviter stipitatis, 90-120 \times 14-16; sporiidiis fere monostichis, primo ellipsoideis v. deorsum angustioribus, hyalinis, 2-3-septatis, sensim fusosideo-soleæformibus, præsertim medio sed etiam ad alia septa interdum constrictis, transversim 4-6-septatis, loculis mediis v. rarissime omnibus sepimento uno longitudinali partitis, junioribus tunica mucilaginosa circumcinctis, 20-24 \times 6-9, fusciscentibus; parapnysibus sursum ramosis, epithecium fusco-nigrum formantibus.

Hab. in ligno decorticato quercino (?), (Æstergötland Sueciæ (HAGLUND): — Ad basim peritheciis sub microscopio adsunt hyphæ mycelii ramosæ, septatæ, rugosæ, 2-3 μ . latæ.

5. **Hysterographium oligomerum** Penz. et Sacc. Malpighia XI, 1897, 2741 p. 528. — Peritheciis irregulariter sparsis, subinde 2-3 varie confertis, immo et radiatim digestis, superficialibus, prominentibus, oblongo-navicularibus, totis atris, carbonaceis, basi coarctatis, sublevibus, 1,5-2 mm. long., 0,5 mm. cr. et alt.; rima lineari, labiis obtuse involutis; ascis jam resorptis; sporidiis oblongis, rectis v. inæquilateralibus, utrinque rotundatis, 3-septato-muriformibus, non constrictis, 30 \times 11-12, rufo-fuligineis.

Hab. in ramis corticatis, Tjampea, ins. Java. — Affine *H. formoso* (Cooke) S. et *H. viticolo* (C. et P.) Rehm, sed sporidia non constricta, labia remotiuscula etc.

Sect. 6. Scolecosporæ.

HYPODERMA DC. — Syll. II, p. 784, IX, p. 1123, XI, p. 389.

1. **Hypoderma Ericæ** Tubauf, Bot. Centralbl. 1885, p. 15; Rehm, 2742 Discomycet. p. 1211. — Peritheciis sparsis innatis, convexo-prominulis, globosis oblongisve, glabris, nigris, rima tenui dehiscentibus, $\frac{1}{2}$ -1 mm. longis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. latis; ascis clavatis longissime stipitatis, apice rotundatis, 70-80 \times 10, octosporis, paraphysibus filiformibus supra arcuatis obvallatis; sporidiis cylindraceutis apicem

versus attenuatis rotundatisque, demum 1-septatis mediocriter constrictis, hyalinis, 18-20 \approx 3, polystichis.

Hab. in foliis aridis Ericæ carneæ in Tirolia.

2. **Hypoderma Strobi** Oth, Bern. Mittheil. 1868, p. 41. — Peritheciis nigro-fuscis, tenuibus, peridermio cinerescente adnato tectis, incurvis, v. 3-4-fariam ramosis, supra e labiis introflexis canaliculatis, intus nigris (sed sectis, sub microscopio visis, dilute flavidis); ascis clavatis, octosporis; sporidiis acicularibus uno fine acutatis, altero obtusatis, 40 \approx 2, pluri-guttulatis; paraphysibus filiformibus. 2743

Hab. in ramulis siccis Pini Strobi, Bremgartenwald, Helvetia.

3. **Hypoderma abietinum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 463. 2744
— Gregarium, ellipticum, asperum, $\frac{3}{4}$ -1 $\frac{1}{4}$ \approx $\frac{1}{2}$ - $\frac{3}{4}$ mm., labiis pro parte clausis; ascis clavatis, 100-110 \approx 8-10; paraphysibus linearibus, plerumque apicibus arcuatis; sporidiis anguste fusoides, nucleatis, leniter curvatis, hyalinis, 20-22 \approx 1 $\frac{1}{2}$ -2.

Hab. in ramis decorticatis Abietis, Colorado Amer. bor.

LOPHODERMIIUM Chev. — Syll. II, p. 791, IX, p. 1124, XI, p. 390.

1. **Lophodermium Pæoniæ** Rehm, Bot. Notis. 1897, p. 259. — Peritheciis in maculis dealbatis longe lateque effusis, sparsis v. subgregariis, sæpe 2-6 confluentibus, typice ellipsoideis, rectis, 0,8-1 mm. longis, 0,4-0,5 mm. latis, atris, matrice nigrificata, longitudinaliter striata arete tectis, siccis concavis v. applanatis, linea longitudinali, labiis clausis formata, dimidiatis, humectatis convexulis, per rimam latiusculam ellipsoideam hymenium roseum nudantibus, margine laborum crassiore; textura parenchymatica, fusca, cellulis globosis, minusculis, 4-6 μ . circiter diam., in longitudinem perithecii plus minus distincte seriatis; ascis clavatis, apice lumine coarctato, rotundatis, deorsum in stipitem ad 10 μ . longum sensim attenuatis, 65-80 \approx 8; sporidiis stipatis, filiformibus, rectis v. subrectis, ascos pedicello excepto subæquantibus, continuis, hyalinis, 55-65 \approx 1 $\frac{1}{3}$; paraphysibus numerosis, filiformibus, ascos æquantibus vel parum superantibus, apice valde uncinatis, hyalinis, continuis, eguttulatis. 2745

Hab. in caulibus aridis Pæoniæ officinalis in Suecia. —

A *Loph. herbarum*, cui affine, præcipue ascorum minutie diversum.

2. **Lophodermium hypodermeoides** Penz. et Sacc. Malpighia XI, 1897, p. 529. — Peritheciis longitrorsum subparallele gregariis, subcutaneo-crumpentibus, epidermide atrata adhærente (hinc parum manifesta) velatis, oblongo-linearibus, 1,5-3 mm. long., 0,6 mm. 2746

lat., utrinque obtusulis, superficie convexis, nigris, carbonaceis, rima angustissima, labiis tenuibus; ascis cylindraceutis, subsessilibus, aparaphysatis (?), 140-150 \times 7-8, apice obtusis, octosporis; sporidiis bacillari-filiformibus, multiguttulatis, rectiusculis, 140-145 \times 1,5-2, hyalinis, per asci basim exeuntibus.

Hab. in ramis corticatis emortuis *Cissi* sp., M. Gedeh, ins. Java. — Perithecia et locus potius *Hypodermatis*; sporidia vero *Lophodermii*. Perithecia sæpius apparent longitrorsum 3-striata, sed striæ exteriores a cute matricis fissa videntur oriri.

3. *Lophodermium cyrillicolum* Tracy et Earle, Bull. Torr. Bot. Cl. 2747
1896, p. 209. — Peritheciis amphigenis, in maculis irregularibus brunneis subaridis rubro-marginatis nidulantibus, innatis, depressis atque tandem collabentibus, late ovalibus, 1-1 $\frac{1}{2}$ mm., labiis coniventibus; ascis cylindraceuto-clavatis, 65-75 \times 10, paraphysibus numerosissimis filiformibus ascos superantibus summo apice non recurvatis copiose obvallatis; sporidiis filiformibus, ascos subæquantibus cum iisque parallele dispositis rectisque.

Hab. in foliis vivis *Cyrillæ* racemifloræ, Mississippi Amer. bor.

4. *Lophodermium intermissum* Starb. Bih. K. Sv. Vet. Ak. Handl. 2748
XXI, 1895, III, n. 5, p. 17, fig. 2. — Ascomatibus epiphyllis nec non ad margines folii relaxatas nidulantibus, sparsis v. aggregatulis, plerumquæ ellipsoideis v. elongatis, rectis v. curvulis, interdum stellatim divisivis v. irregulariter determinatis, olivaceo-fuscescentibus, primo matrice velatis, deinde rima longitudinali, angustissima erumpentibus et mox epidermide relaxata dehiscentibus, discum oehraceum v. pallide olivaceum revelantibus, crassiuscule marginatis; textura merenchymatica cellulis minutissimis composita, 0,5-1 mm. longa, 0,2-0,2 $\frac{1}{2}$ mm. lata; ascis 8-sporis, clavatis, longe angusteque pedicellatis, sursum obtusatis, 60-70 \times 4 $\frac{1}{2}$ -5; sporidiis stipatis, filiformibus, utrinque obtusis, ascos pedicello excepto subæquantibus, 25-35(-45) \times 1-1 $\frac{1}{2}$, rectis v. curvulis, hyalinis, paraphysibus sat numerosis, filiformibus, sursum in clavulam ascos superantem, sæpe medio vel pluries incurvatam, 10-15 \times 5-6, transeuntibus.

Hab. in foliis aridis *Andromedæ* polifoliæ, Æstergötland Sueciæ (HAGLUND). — *L. elaxuligerum* Speg. quam maxime affine, differt peritheciis e discoideo subellipticis, in siccis subcollabescentibus, rimula minutissima vix perspicua donatis, sporidiis 5-9-septatis.

5. **Lophodermium Gentianæ** Vogl. Bull. Soc. Bot. Ital. 1896, p. 41. 2749
 — Peritheciis innatis, ellipsoideis, levibus, in macula lutea dispersis, nigris; ascis clavatis, apice rotundatis, sessilibus, 8-sporis, 100-110 \times 12-14; sporidiis parallele stipatis, filiformibus, guttulatis, rectis v. vix divergentibus, ascum æquantibus, 1-2 μ . latis, hyalinis; paraphysibus filiformibus, apice uncinatis.

Hab. in foliis *Gentianæ asclepiadeæ* in Italia boreali.

6. **Lophodermium Pinastris** (Schrad.) Chev.-Sacc. Syll. II, p. 794 — 2750
 forma **conigena** P. Brun. Act. Soc. Linn. Bordeaux 1888, p. 13 extr. — Peritheciis minutissimis; ascis 140 \times 10; sporidiis 90 \times 1 1/2.

Hab. in squamis strobilorum *Pini silvestris*, La Mothe-Saint-Héray in Gallia.

7. **Lophodermium javanicum** Penz. et Sacc. Malpighia XI, 1897, p. 529. 2751
 — Peritheciis hypophyllis, rarius amphigenis, areas varias, decoloratas incolentibus, longitrorsum v. inæqualiter dispositis et plus minus laxè congregatis, superficialibus, oblongatis, 1-1,2 mm. long., 0,3-0,4 mm. lat., depressis, membranaceo-carbonaceis, nigris, nitidulis, rima anguste lineari percursis, labiis tenuibus; ascis cylindræis, breviter stipitatis, apice rotundatis, 80-90 \times 7-8, octosporis, aparaphysatis (?); sporidiis bacillari-filiformibus, multiguttulatis, 60-80 \times 1,7-2, hyalinis.

Hab. in pag. inf. foliorum emortuorum *Elettariæ*, Tjibodas, ins. Java. — Var **Pandani** Penz. et Sacc. l. c. differt peritheciis amphigenis paullo longioribus, 1,5-2 mm. long., transverse positis; ascis sporidiisque non diversis. In foliis *Pandani* emortuis, Tjibodas, ins. Java.

8. **Lophodermium Raapianum** Penz. et Sacc. Malpighia XI, 1897, 2752
 p. 529. — Peritheciis sparsis, amphigenis, longitrorsum positis, oblongo-lanceolatis, utrinque obtusulis, subcutaneo-erumpentibus, applanatis, 900 \times 250, nigricantibus, membranaceis, rima angustissime lineari percursis, labiis arcte conniventibus, tenuibus, pallidis; ascis cylindræis, breviter stipitatis, apice rotundatis, 100-120 \times 8-9, paraphysatis, octosporis; sporidiis filiformi-bacillaribus, 90-100 \times 1-1,5, multiguttulatis, hyalinis.

Hab. in foliis languidis v. emortuis *Scirpi*, Poeloe Tana Masa, (Insul. Batoe, prope Sumatræ littus occidentale) (H. RAAP). — A *L. caricino* (Desm. et Rob.) Duby differt ascis sporidiisque majoribus; a *L. tumidulo* S. B. et R., ascis multo angustioribus etc.

LOPHIUM Fr. — Syll. II, p. 799, IX, p. 1126.

1. **Lophium Eriophori** P. Henn. Myk. Not. I, 1895, p. 2. — Peritheciis sessilibus, solitariis v. laxe gregariis, conchiformibus, oblongis, atris, levibus, rima longitudinaliter dehiscentibus, 0,5-0,8 × 0,3-0,5 mm.; ascis subsessilibus, subfusoidis v. subclavatis, apice acutatis, basi angustatis, octosporis, 180-220 × 12-14; sporidiis filiformibus, conglobatis, hyalinis, guttulatis, dein pluriseptatis, 100-130 μ.; paraphysibus filiformibus, hyalinis, ramosis, septatis. 2753

Hab. in foliis emortuis *Eriophori vaginati* pr. Berolinum Germaniæ.

OSTROPA Fr. — Syll. II, p. 804.

1. **Ostropa virens** Otth, Bern. Mittheil. 1868, p. 55. — Peritheciis erumpentibus, demum superficialibus, globosis, rima transversali dehiscentibus, glauco-virentibus, primum crusta fulvida corticatis; ascis longissimis teretibus, octosporis; sporidiis filiformibus, asco paullo brevioribus, fasciculatis, dein sursum dissilientibus, basi fixis remanentibus, septis numerosissimis multilocularibus (hyalinis). 2754

Hab. in ramis *Pruni spinosæ*, *P. avium* et *P. Padi* in Helvetia. — Perithecia passim 1,5 mm. lata.

ACROSPERMUM Tode — Syll. II, p. 807, IX, p. 1128.

1. **Acrospermum minutum** P. Henn. Hedw. 1897, p. 232. — Maculis fuscis, confluentibus; peritheciis hypophyllis, plerumque solitariis minutis, 300-500 μ. longis, 180-200 μ. latis, subulato-clavatis, atris, apice pallidioribus; ascis filiformibus, ca. 300-350 μ. longis, 3 1/2-4 1/2 μ. crassis, apice obtuso-rotundatis; sporidiis filiformibus, 0,5 crassis; paraphysibus filiformibus, 0,5 μ. crassis. 2755

Hab. in foliis *Qualeæ* spec. pr. Goyaz Brasiliæ (GLAZIOU). — *Acrospermo compresso* Tode affinis species.

2. **Acrospermum bignoniicolum** P. Henn. Hedw. 1897, p. 231. — Maculis pallidis, rotundatis, dein confluentibus; peritheciis solitariis vel aggregatis, subfasciculatis, subulatis, subcompressis, sessilibus, perpendicularibus, levibus, atris, apice obtusis vel acutiusculis, vix 1 mm. longis, 170-200 μ. crassis; ascis cylindraceutis, apice rotundatis, usque ad 400 μ. longis, 4-5 et 6 μ. crassis; paraphysibus filiformibus, 1 μ. crassis; sporidiis parallelis, filiformibus, hyalinis, intus guttulatis, 1 μ. crassis. 2756

Hab. in foliis *Bignoniaceæ* ejusdam pr. Goyaz Brasiliæ (GLAZIOU). — *Acrospermo compresso* Tode affinis species.

3. **Acrosperrimum gregarium** Hazsl. Math. es term. Közlem. XXV, 2757
2, Budapest 1892, p. 25. — Stromatibus ovato-pyramidalibus,
albis, apice rubris; peritheciis unico foramine rotundo apicali de-
luscentibus; sporidiis filiformibus, continuis, in utraque parte acu-
minatis, albis, fasciculatim ex stromate prominentibus, ejectis, de-
mum curvatis, 50 μ . longis.

Hab. in ramis in Hungaria. — Sporidia dimidio breviora
quam sporidia *Acrosperrimi compressi*.

4. **Acrosperrimum urceolatum** Olson, Bot. Gaz. XXIII, 1897, p. 371, 2758
tab. XXIX, fig. 1-10. — Peritheciis solitariis v. in cæspites mi-
nutos aggregatis, elongato-verticalibus, subcompressis, in maturi-
tate stipitatis urceolatisque, initio hemisphæricis, dein clavatis,
obscure olivaceis, supra tomento albo granuloso tectis, 550-800 μ .
longis, 220-400 μ . latis, ostiolo distincto ornatis; ascis copiosis,
elongato-cylindræis, deorsum attenuatis, confertissimis, 220-350
 \approx 5-8; sporidiis hyalinis, filiformibus, tenuissimis, 200-350 \approx 1,6,
multiseptatis, vulgo curvulis, rarius in asco rectis; paraphysisibus
delicatis, filiformibus, non septatis, 60-110 \approx 1,3.

Hab. in fronde Selaginellæ rupestris, Minnesota Amer.
bor.

LABOULBENIACEÆ Peyr. *)

Syll. VIII, p. 909, IX, p. 1130, XI, p. 446.

Tribus I. Endogenæ Thaxt. — Antherozoidia endogene evoluta.

ORDO 1. **Peyritschielleæ** Thaxt. — Cellulæ antheridiales in antheridium compositum conjuncta.

A. Species dioicæ

DIMORPHOMYCES Thaxt. Mon. p. 264. — Syll. XI, p. 446. — Perithecia et appendices binatim generata ad dexteram et sinistram lineæ medianæ.

1. **Dimorphomyces denticulatus** Thaxt. In *Falagria dissecta* in Amer. bor. — Perithecia 65-70 \times 15; sporidia 22-25 \times 3.
2. **Dimorphomyces muticus** Thaxt. In *Falagria dissecta* in Amer. bor. — Perithecia 75-90 \times 15; sporidia 23-26 \times 3.

DIMEROMYCES Thaxt. Mon. Laboulb. p. 267 (1896). — Perithecia et appendices in seriem unilateralem digesta.

1. **Dimeromyces africanus** Thaxt. In *Pachytele luteo* in Africa. 2759 — Perithecia 140-175 \times 26-35; sporidia 75 \times 5,5.

B. Species monoicæ.

* Antheridium enatum in appendice a receptaculo libera.

CANTHAROMYCES Thaxt. Mon. p. 271. — Syll. IX, p. 1131, XI, p. 446. — Antheridium laterale infra ramulum terminale appendicis. Perithecia libera.

*) Cum diagnoses Laboulbeniacearum, iconibus non illustratæ, ægre exhibeant earum notas tam abnormes, satius duximus ex absoluta et eximia *Monographia Laboulbeniacearum* celeb. R. THAXTER, Cambridge Mass., 1896, conspectum omnium generum specierumque tantum excerpere. Species omnes l. c. fuse descriptæ atque pulcherrime et affabre delineatæ invenientur.

1. *Cantharomyces Bledii* Thaxt. In *Bledio assimili* in Amer. bor. — Perithecia 90-130 \times 35-55; sporidia 25 \times 3,5.
2. *Cantharomyces occidentalis* Thaxt. In *Bledio armato* in Amer. bor. — Perithecia 96-100 \times 60.
3. *Cantharomyces pusillus* Thaxt. In *Trogophlæo* sp. in Amer. bor. — Perithecia 30-55 \times 22-26; sporidia 18 \times 2.

HAPLOMYCES Thaxt. Mon. p. 269. — Syll. XI, p. 446 — Antheridium terminale, apice processu spiniformi auctum. Perithecia libera.

1. *Haplomyces californicus* Thaxt. In *Bledio ornato* in Amer. bor. — Perithecia 130-145 \times 65; sporidia 37-40 \times 3.
2. *Haplomyces texæus* Thaxt. In *Bledio rubiginoso* in Amer. bor. — Perithecia 165-185 \times 50-55; sporidia 40-45 \times 3,7.
3. *Haplomyces virginianus* Thaxt. In *Bledio emarginato* in Amer. bor. — Perithecia 110-130 \times 55-60; sporidia 33 \times 3,7.

EUCANTHAROMYCES Thaxt. Mon. p. 273. — Syll. XI, p. 446. — Antheridia terminalia rostro canaliculato terminata; cellulæ antheridiales in quinque (?) series verticales dispositæ. Perithecia libera.

1. *Eucantharomyces Atrani* Thaxt. In *Atrano pubescente* in Amer. bor. — Perithecia 135 \times 35.

CAMPTOMYCES Thaxt. Mon. p. 274. — Syll. XI, p. 447. — Antheridium terminale poro prominente apicali præditum. Cellulæ antheridiales in series duas (?) verticales dispositæ. Perithecia libera.

1. *Camptomyces melanopus* Thaxt. In *Sunjo prolizo* et *S. longiusculo* in Amer. bor. — Perithecia 130-150 \times 30-33; sporidia 30 \times 3,5.

** Antheridium sessile ad corpus receptaculi, mucronatum.

ENARTHROMYCES Thaxt. Mon. Laboulb. p. 276 (1896). — Receptaculum e serie unica cellularum superpositarum compositum, antheridium unicum v. plura lateralialia. Perithecia libera.

1. *Enarthromyces indicus* Thaxt. In *Pheropsopho* sp. in Asia. — 2760 Perithecia 140-160 \times 50-60; sporidia 120-130 \times 5.

PEYRITSCHIELLA Thaxt. Mon. p. 278. — Syll. IX, p. 1130, XI, p. 447. — Receptaculum asymmetricum, e seriebus nonnullis transversis cellularum superpositarum formatum. Antheridium singulum laterale. Perithecia libera.

1. **Peyritschiella curvata** Thaxt. In *Platyno cincticollis* in Amer. bor. — Perithecia 90-100 \times 22-29; sporidia 26 \times 3,5-4.
2. **Peyritschiella minima** Thaxt. In *Platyno cincticollis* in Amer. bor. — Perithecia 100 \times 33; sporidia 37-40 \times 4.
3. **Peyritschiella geminata** Thaxt. In *Pterosticho luctuoso*, *P. patrueli*, *P. erytropodi* in Amer. bor. — Perithecia 75-80 \times 18-22; sporidia 37 \times 3,7.
4. **Peyritschiella nigrescens** Thaxt. In *Philontho debili* in Am. bor. — Perithecia 65 \times 19.

DICHOMYCES Thaxt. Mon. p. 282. — Syll. XI, p. 447. — Receptaculum symmetricum e seriebus nonnullis transversis cellularum superpositarum formatum; cellula basilari unica; antheridia binæ ad seriem subterminalem. Perithecia libera.

1. **Dichomyces furcifer** Thaxt. In *Philontho debili* in Amer. bor. — Perithecia 63 \times 16-18.
2. **Dichomyces inæqualis** Thaxt. In *Philontho debili* in Amer. bor. — Perithecia 100 \times 25; sporidia 26 \times 3,5.
3. **Dichomyces infectus** Thaxt. In *Xantholino obsidiano* in Am. bor. — Perithecia 66 \times 2.
4. **Dichomyces princeps** Thaxt. In *Philontho sordido* in Amer. bor. — Perithecia 110-165 \times 22-30; sporidia 38 \times 4.

HYDRÆOMYCES Thaxt. Mon. p. 293 (1896) (Etym. *hydreia* aquatio et *myces*). — Receptaculum asymmetricum; cellulae basilares ternæ superpositæ. Perithecium receptaculo p. m. p. connatum. Species aquatica.

1. **Hydræomyces Halipli** Thaxt. In *Haliplo ruficollis* et *Cnemidoto mutico* in Amer. bor. — Perithecia 100 \times 35-40; sporidia 30 \times 3. 2761

CHITONOMYCES Peyr. em. Thaxt. Mon. p. 285. — Syll. VIII, p. 914, 915, XI, p. 447. — Receptaculum asymmetricum; cellulae basilares binæ superpositæ. Perithecium receptaculo p. m. p. connatum. Species aquaticæ.

1. **Chitonomyces paradoxus** (Peyr.) Thaxt. In *Laccophili* spec. plur. in Europa et Amer. bor. — Perithecia cum bas. 225 μ . l.; sporidia 65 \times 7, curvata.
2. **Chitonomyces appendiculatus** Thaxt. In *Laccophilo maculoso* in Amer. bor. — Perithecia 55-75 \times 15-22; sporidia 32 \times 3.
3. **Chitonomyces distortus** Thaxt. In *Laccophilo maculoso* in

- Amer. bor. — Peritheciæ corpus 60 \times 18, rostrum 18-25 \times 6; sporidia 20 \times 3.
4. *Chitonomyces spiniger* Thaxt. In *Laccophilo maculoso* in Amer. bor. — Peritheciæ corpus 55 \times 15; rostrum 12-30 μ . long.
 5. *Chitonomyces unciger* Thaxt. In *Laccophilo maculoso* in Amer. bor. — Peritheciæ 80 \times 22-25; sporidia 45 \times 4.
 6. *Chitonomyces melanurus* Peyr. In *Laccophilo hyalino* et *L. minuto* in Europa. — Peritheciæ 95-100 \times 30.
 7. *Chitonomyces marginatus* Thaxt. In *Laccophili* et *Hydroperi* spp. in Amer. bor. — Peritheciæ 95-110 \times 22; sporidia 30 \times 3. 2762
 8. *Chitonomyces rhynchostoma* Thaxt. In *Hydroperi* et *Laccophili* spp. in Amer. bor. — Peritheciæ 75 \times 22; sporidia 26 \times 3.
 9. *Chitonomyces lichanophorus* Thaxt. In *Laccophilo maculoso* in Amer. bor. — Peritheciæ 65-90 \times 30; sporidia 33-37 \times 2,5-3.
 10. *Chitonomyces uncinatus* Thaxt. In *Laccophilo maculoso* et *Hydropero spurio* in Amer. bor. — Peritheciæ 75-85 \times 20.
 11. *Chitonomyces affinis* Thaxt. In *Laccophilo maculoso* et *Hydroperi* sp. in Amer. bor. — Peritheciæ 100-110 \times 30; sporidia 50-55 \times 3.
 12. *Chitonomyces hyalinus* Thaxt. In *Laccophilo maculoso* in Amer. bor. — Peritheciæ 75-90 \times 20; sporidia 30 \times 2,5.
 13. *Chytonomyces simplex* Thaxt. In *Laccophilo maculoso* et *Hydroperi* sp. in Amer. bor. — Peritheciæ 55-60 \times 11-12; sporidia 26 \times 11.
 14. *Chitonomyces bidessarius* Thaxt. In *Bidesso granario* in Am. bor. — Peritheciæ 40-48 \times 15.
 15. *Chitonomyces borealis* Thaxt. In *Desmopachria convexa* in Amer. bor. — Peritheciæ 80-90 \times 22.
 16. *Chitonomyces aurantiacus* Thaxt. In *Desmopachria convexa* in Amer. Bor. — Peritheciæ 50 \times 12-15.

ORDO 2. Laboulbeniæ Thaxt.

Cellulæ antheridiales distinctæ, seorsim evacuatæ.

A. Dioicæ.

AMORPHOMYCES Thaxt. Mon. p. 295. — Syll. XI, p. 448.

1. *Amorphomyces Falagriæ* Thaxt. In *Falagria dissecta* in Amer. bor. — Peritheciæ 100 \times 30-33; sporidia 37 \times 6.
2. *Amorphomyces floridanus* Thaxt. In *Bledio basali* in Amer. bor. — Peritheciæ 150 \times 52; sporidia 30 \times 15.

B. Monoicæ.

* Antheridia in series definitas ad appendices nascentia.

† Antheridia e cellulis successivis appendicum directe exsistentia.

HELMINTHOPHANA Peyr., Thaxt. Mon. p. 297. — Syll. VIII, p. 913.

— Appendix solitaria, antheridia in series quaternas verticales proferens.

1. **Helminthophana Nycteribiæ** Peyr. In Megistopodæ, Acrocholidiæ et Nycteribiæ spp. in Europa. — Fungillus 390-750 μ . long.

STIGMATOMYCES Karst. Thaxt. Mon. p. 298. — Syll. VIII, p. 912.

— Appendix solitaria, antheridia in seriem unicam verticalem proferens.

1. **Stigmatomyces antomophilus** (Peck) Thaxt. In *Drosophila nigricorni* et *D. funebri* in Amer. bor. et Europa. — Perithecia 275-300 \times 90; sporidia 40 \times 3,7.
2. **Stigmatomyces Baeri** Peyr. In *Musca domestica* in Europa. — Perithecia 140-180 \times 40-58; sporidia 27-30 \times 4.
3. **Stigmatomyces virescens** Thaxt. In *Chilocoro bivulnero* in Amer. bor. — Perithecia 190-275 \times 66; sporidia 65 \times 6.

IDIOMYCES Thaxt., Mon. p. 302. — Syll. XI, p. 449. — Appendices numerosæ, antheridia in series verticales tres proferentes.

1. **Idiomyces Peyritschii** Thaxt. In *Delastere dichroo* in Europa. — Perithecia 110-130 \times 60-70; sporidia 60 \times 4.

CORETHROMYCES Thaxt. Mon. p. 303. — Syll. XI, p. 449. — Appendices fasciculatæ; cellulæ antheridiales superpositæ et ramulos laterales formantes.

1. **Corethromyces Cryptobii** Thaxt. in *Cryptobio pelli* et *C. bicolori* in Amer. bor. — Perithecia cum basi 415 \times 50; sporidia 40 \times 4.
2. **Corethromyces setiger** Thaxt. In *Lathrobio nitidulo* in Amer. bor. — Perithecia 110 \times 35; sporidia 30 \times 4.
3. **Corethromyces jacobinus** Thaxt. In *Lathrobio jacobino* et *L. collari* in Amer. bor. — Perithecia 65-75 \times 22.

RHADINOMYCES Thaxt. Mon. p. 305. — Syll. XI, p. 449. — Appendix singula ramulis terminalibus sterilibus terminata. Anthe-

ridia in series breves superposita ramulosque prope basim appendicis formantia.

1. **Rhadinomyces cristatus** Thaxt. In *Lathrobio nitidulo* et *L. punctulato* in Amer. bor. — Perithecia 125-140 \times 30; sporidia 50 \times 4.
2. **Rhadinomyces pallidus** Thaxt. In *Lathrobio fulvipenni*, *L. punctulato* et *L. angulari* in Amer. bor. — Perithecia 86 \times 33; sporidia 45 \times 3,7.

** Antheridia in appendicibus in series definitas non disposita.

RHIZOMYCES Thaxt. Mon. p. 307 (1896) (Etym. *rhiza* radix et *myces*) — Receptaculi cellula basilaris processu rhizoideo matricem penetrans; cellula subbasilaris gerens appendicem singulam et simplicem, quæ unilateraliter profert seriem unicam ramulorum, quorum cellula basilaris antheridia sustinet.

1. **Rhizomyces ctenophorus** Thaxt. In *Diopside thoracica* in 2763 Africa. — Perithecia cum basi 180-200 \times 62-70; sporidia 25 \times 3.

LABOULBENIA Mont. et Rob., Thaxt. Mon. p. 308. — Syll. VIII, p. 909, IX, p. 1132, XI, p. 450. — Receptaculum multicellulare partim ex unione basis appendicis cellulisque basilaribus perithecii formatum. Appendices e cellula nigra e latere perithecii plerumque oriundæ.

1. **Laboulbenia anceps** Peyritsch. In *Platyno viduo* in Europa.
2. **Laboulbenia arcuata** Thaxt. In *Harpalo pennsylvanico* in Amer. bor. — Perithecia 160-185 \times 50-55; sporidia 65 \times 5.
3. **Laboulbenia armillaris** Berlese. In *Antennophoro Capitecarabi* in Amer. merid. — Perithecia 110 \times 36-40.
4. **Laboulbenia Aspidoglossæ** Thaxt. In *Aspidoglossa subangulata* in Amer. bor. — Perithecia 110-120 \times 40.
5. **Laboulbenia australiensis** Thaxt. In *Acrogenyde hirsuta* in Australia. — Perithecia 110-148 \times 38; sporidia 74 \times 5,5.
6. **Laboulbenia Brachini** Thaxt. In *Brachino mexicano* etc. in Amer. bor. — Perithecia 165 \times 75; sporidia 75-84 \times 8.
7. **Laboulbenia brachiata** Thaxt. In *Patrobo longicorni* et *P. tenui* in Amer. bor. — Perithecia 120-150 \times 50-60; sporidia 60 \times 5.
8. **Laboulbenia Casnoniæ** Thaxt. In *Casnonia pennsylvanica* in Amer. bor. — Perithecia 75 \times 30; sporidia 35-40 \times 4.
9. **Laboulbenia Catascopi** Thaxt. In *Catascopeo guatemalensi* etc. Amer. bor. et Afr. — Perithecia 100-130 \times 37; sporidia 65 \times 5.

10. **Laboulbenia Clivinæ** Thaxt. In *Clivina dentifemorata* et *C. dentipede* in Amer. bor. — Perithecia 145-150 \times 55-60 sporida 75 \times 5.
11. **Laboulbenia compacta** Thaxt. In *Bembidii* spp. in Amer. bor. — Perithecia 110 \times 40; sporida 60 \times 4.
12. **Laboulbenia compressa** Thaxt. In *Anisodactylo baltimorensi* in Amer. bor. — Perithecia 85-100 \times 30; sporida 50 \times 3,7-4
13. **Laboulbenia conferta** Thaxt. In *Harpalo pennsylvanico* in Amer. bor. — Perithecia 130 \times 60; sporida 50 \times 16.
14. **Laboulbenia confusa** Thaxt. In *Bembidii* spp. in Amer. bor. — Perithecia 166 \times 55.
15. **Laboulbenia contorta** Thaxt. In *Platyno extensicolli* et *P. affini* in Amer. bor. — Perithecia 150-180 \times 60-75; sporida 75 \times 5.
16. **Laboulbenia cornuta** Thaxt. In *Bembidio complanulo* in Amer. bor. — Perithecia 85 \times 29.
17. **Laboulbenia Coptoderæ** Thaxt. In *Coptodera Championi* in Amer. bor. — Perithecia 100-110 \times 33-35; sporida 40 \times 3,5.
18. **Laboulbenia cristata** Thaxt. In *Pæderi* plur. spec. in Amer. bor. et Europa. — Perithecia 110-130 \times 37-45; sporida 50-55 \times 4-4,5.
19. **Laboulbenia curtipes** Thaxt. In *Bembidio bimaculato* in Amer. bor. — Perithecia 110-135 \times 55; sporida 40 \times 4.
20. **Laboulbenia decipiens** Thaxt. In *Galerita nigra* et *G. æquinoctiali* in Amer. bor. — Perithecia 175-278 \times 55.
21. **Laboulbenia Diopsis** Thaxt. in *Diopside thoracica* in Afr. 2761 — Perithecia 110-140 \times 30-38; sporida 55 \times 7.
22. **Laboulbenia elegans** Thaxt. In *Harpalo pennsylvanico* in Amer. bor. — Perithecia 110-150 \times 50-65; sporida 40-50 \times 4-5.
23. **Laboulbenia elongata** Thaxt. In *Platyni*, *Anisodactyli*, *Colpodis*, *Læmosthenes*, *Macrochili* in Europa, Asia, Amer. bor. et Africa. — Perithecia 110-240 \times 35-95; sporida 60-100 \times 5-8.
24. **Laboulbenia europæa** Thaxt. In *Chlænio*, *Callisto*, *Aptino* et *Brachino* in Europa. — Perithecia 130-140 \times 55; sporida 55-59 \times 4-4,5.
25. **Laboulbenia fasciculata** Peyr. In *Chlænio* et *Omphro* in Europa. — Fungillus 370 μ . long.
26. **Laboulbenia filifera** Thaxt. In *Chrysodactyli* et *Harpali* sp. pl. in Amer. bor. — Perithecia 90 \times 25; sporida 50 \times 4.
27. **Laboulbenia flagellata** Peyr. In *Bembidio lunato* in Europa.

28. *Laboulbenia fumosa* Thaxt. in *Platyno cincticollis* in Amer. bor. — Perithecia 120-130 × 50-75; sporidia 55-60 × 5-5,5.
29. *Laboulbenia Galeritæ* Thaxt. In *Galeritæ* pl. spec. in Amer. bor. — Perithecia 155 × 37; sporidia 55 × 5,5.
30. *Laboulbenia gibberosa* Thaxt. In *Platyno extensicollis* in Amer. bor. — Perithecia 125 × 50; sporidia 50 × 4,5.
31. *Laboulbenia gigantea* Istvanffi in Beihefte zum bot. Centralbl. 2765 1895, p. 327. — Pallide ochracea, stipite cylindræo, inferne bicellulari, superne e cellulis 5-6 in series duas dispositis formato, basi attenuato et in nodulum obconicum brunneum, animalculo arctissime adhærentem desinente, 700-800 μ . longo, 50-60 μ . lato, membrana crassa, poris plurimis perforata; peritheciis conoideis, ochraceis, sursum in collum pertusum, mamilla nigra terminatis, 200 × 60-70; pseudoparaphysibus dichotome v. lateraliter ramosis, longitudinem perithecii multoties superantibus, ex articulis facile secedentibus formatis, dilute ochraceis, numerosis, arcuato-curvatis v. circinnatis, 300-400 × 10-20, sursum apicæ acutis v. subconicis, stipite annulo nigro unico separatis; sporidiis fusiformibus, hyalinis, bicellularibus, cellulis nucleo præditis, 20 × 8-9, cum tunica 15 μ . cr., tunica irregulariter incrassata.
- Hab.* in clytris, pedibus thoraceque *Pristonychi* cavicolæ in Croatia — Totus fungillus 900-1200 μ . altus; sec. Thaxter non satis differt a *L. elongata* Thaxt.
32. *Laboulbenia Guerinii* Mont. et Rob. In Gyrete sericeo et *G. compresso* in Amer. bor. — Perithecia 120-121 × 45-55.
33. *Laboulbenia Gyrinidarum* Thaxt. In *Gyrini* plur. spec. in Europa et Amer. bor. — Perithecia 190 × 90; sporidia 90 × 7-8.
34. *Laboulbenia Hageni* Thaxt. In Terme mozambica in Africa. Perithecia 55 × 18.
35. *Laboulbenia Harpali* Thaxt. In *Harpalo pennsylvanico* in Amer. bor. — Perithecia 90 × 40; sporidia 60-68 × 5-5,5.
36. *Laboulbenia inflata* Thaxt. In *Bradycello rupestri* in Amer. bor. — Perithecia 90 × 37; sporidia 50 × 4,5.
37. *Laboulbenia Kunkelii* Giard. In *Mormolyce phyllode* in ins. Java. — Perithecia 360-585 × 75-85; sporidia 185 × 14.
38. *Laboulbenia lepida* Thaxt. In *Anisodactylo nigerrimo* in 2766 Amer. bor. — Perithecia 110-125 × 50; sporidia 46 × 7.
39. *Laboulbenia longicollis* Thaxt. In *Galerita leptodera* et sp. ind., in Africa. — Perithecia 180-220 × 50-60; sporidia 75 × 6,5.

40. *Laboulbenia luxurians* Peyr. In *Bembidii* sp. pl. in Europa et Amer. bor. — Perithecia 110 \times 40; sporidia 50 \times 4,5.
41. *Laboulbenia macrotheca* Thaxt. In *Anisodactylo baltimorensi* et sp. ind. in Amer. bor. — Perithecia 130-150 \times 45-55; sporidia 60 \times 5,5.
42. *Laboulbenia melanotheca* Thaxt. In *Galerita mexicana* in Amer. bor. — Perithecia 220-245 \times 60-65; sporidia 95 \times 5,5.
43. *Laboulbenia mexicana* Thaxt. In *Galerita mexicana*, *G. nigra*, *G. æquinoctiali* in Amer. bor. — Perithecia 200-240 \times 65; sporidia 90-100 \times 7.
44. *Laboulbenia minima* Thaxt. In *Calleida pallidipenni* in Amer. bor. — Perithecia 80 \times 40-48; sporidia 40 \times 3,5.
45. *Laboulbenia Morionis* Thaxt. In *Morione Georgii* in Amer. bor. — Perithecia 110-125 \times 30; sporidia 55 \times 5.
46. *Laboulbenia Nebriæ* Peyritsch. In *Nebriæ* pl. spec. in Amer. bor. et Europa. — Perithecia 118-166 \times 44-66; sporidia 75 \times 7,5.
47. *Laboulbenia Oberthuri* Giard. In *Orectogyro heroe*, Madagascar. — Perithecia 300-315 \times 120.
48. *Laboulbenia Orectogv* Thaxt. In *Orectogyro Bedeli* in 2767 Africa. — Perithecia 140 \times 50; sporidia 50 μ . long.
49. *Laboulbenia Pachytelis* Thaxt. In *Pachytele mexicana* in Amer. bor. — Perithecia 110-150 \times 50; sporidia 66 \times 7.
50. *Laboulbenia palmella* Thaxt. In *Mormolyce phyllode* in ins. Java. — Perithecia 475-580 \times 75-110; sporidia 150 \times 12.
51. *Laboulbenia Panagæi* Thaxt. In *Panagæo crucigero*, *P. fasciato* in Amer. bor. — Perithecia 100-150 \times 35-40.
52. *Laboulbenia parvula* Thaxt. In *Platyno extensicolli*, *P. æruginoso* et sp. ind. in Amer. bor. — Perithecia 90-110 \times 30-40; sporidia 40 \times 4.
53. *Laboulbenia paupercula* Thaxt. In *Platyno melanario*, *P. ruficorni* et *P. extensicolli* in Amer. bor. — Perithecia 100-120 \times 40; sporidia 45 \times 4,5.
54. *Laboulbenia pedicellata* Thaxt. In *Bembidii* sp. ind. in Amer. bor. — Perithecia 90-95 \times 36-40; sporidia 50 \times 3,5.
55. *Laboulbenia perpendicularis* Thaxt. In *Bembidii* sp. ind. pl. 2768 in Amer. bor. — Perithecia 120-150 \times 45-50; sporidia 65-78 \times 5.
56. *Laboulbenia Pheropsophi* Thaxt. In *Pheropsophi* pl. sp. in Africa. — Perithecia 150 \times 50; sporidia 75 \times 4,5.
57. *Laboulbenia Philonthi* Thaxt. In *Philonthi* pl. sp. in Amer. bor. — Perithecia 160-185 \times 50-70; sporidia 52 \times 4.

58. *Laboulbenia polyphaga* Thaxt. In *Ōlisthopodis, Stenolophi, Badistri, Harpali, Agmoderi, Loxandri et Amaræ* pl. spec. in America et Africa. — Perithecia 85 \approx 80; sporidia 45 \approx 4.
59. *Laboulbenia proliferans* Thaxt. In *Endematis, Chlænii, Dolichi* pl. sp. in Africa et Japonia. — Perithecia 165-170 \approx 55; sporidia 60-70 \approx 5,5.
60. *Laboulbenia Pterostichi* Thaxt. In *Pterostichi et Anisodactyli* sp. pl. in Amer. bor. — Perithecia 130-160 \approx 48-55; sporidia 75-80 \approx 6,5.
61. *Laboulbenia Quedii* Thaxt. In *Quedio vernice* in Amer. bor. — Perithecia 185 \approx 50; sporidia 55 μ . long.
62. *Laboulbenia recta* Thaxt. In *Platyno extensicolli* in Amer. bor. — Perithecia 150-180 \approx 50-75; sporidia 75-80 \approx 6-7.
63. *Laboulbenia rigida* Thaxt. In *Pterosticho patrueli* in Amer. bor. — Perithecia 125-150 \approx 10; sporidia 75 \approx 5,5.
64. *Laboulbenia Rougetii* Mont. et Rob. In *Brachino crepitante* etc. in Europa.
65. *Laboulbenia scolophila* Thaxt. In *Platyno extensicolli* in Amer. bor. — Perithecia 100-120 \approx 40-50; sporidia 50 \approx 5.
66. *Laboulbenia Schizogenii* Thaxt. In *Schizogenii et Clivinæ* sp. in Amer. bor. — Perithecia 100-125 \approx 50-55; sporidia 70 \approx 5,5.
67. *Laboulbenia subterranea* Thaxt. In *Anophthalmo Mene-triesii* etc. in Amer. bor. et Europa. — Perithecia 135-160 \approx 50.
68. *Laboulbenia terminalis* Thaxt. In *Pterosticho luctuoso* in Amer. bor. — Perithecia 120-150 \approx 45-50; sporidia 55 \approx 5,5.
69. *Laboulbenia texana* Thaxt. In *Brachino* sp. ind. in Amer. bor. — Perithecia 130-150 \approx 65.
70. *Laboulbenia truncata* Thaxt. In *Bembidii* sp. ind. in Amer. bor. — Perithecia 90-100 \approx 35-40; sporidia 55-60 \approx 4,5.
71. *Laboulbenia umbonata* Thaxt. In *Stenolopho ochropezo* in Amer. bor. — Perithecia 110 \approx 59; sporidia 60 \approx 5.
72. *Laboulbenia variabilis* Thaxt. In *Anomoglossi, Chlænii, Omophori, Patrobi, Platyni, Pterostichi, Nebriæ, Blethisæ* pl. sp. in Amer. merid. — Perithecia 100-225; sporidia 50-75 \approx 6-7.
73. *Laboulbenia vulgaris* Peyritsch. In *Bembidii et Trechi* sp. pl. in Europa et Asia. — Perithecia 110-150 \approx 44-48; sporidia 54 \approx 4.
74. *Laboulbenia zanzibarina* Thaxt. In *Crepidogastro bimaculato* in Africa. — Perithecia 100-110 \approx 3,7; sporidia 50 μ . long.

TERATOMYCES Thaxt. Mon. p. 355. — Syll. XI, p. 454. — Receptaculum ex cellulis ternis superpositis compositum, e quibus series unica cellularum minorum transverse seriatarum profert appendices numerosas basim unius v. plurium perithecorum obvalantes

1. **Teratomyces mirificus** Thaxt. In *Acylophoro* prono in Amer. bor. — Perithecia 128-140 \times 22-26; sporidia 40 \times 4.
2. **Teratomyces Quedianus** Thaxt. In *Quedio feroci* in Amer. bor. 2760 — Perithecia 165 \times 30; sporidia 50-55 \times 4,5.
3. **Teratomyces brevicaulis** Thaxt. In *Actobio nano* in Amer. bor. — Perithecia 110-120 \times 23; sporidia 33 \times 4.
4. **Teratomyces Actobii** Thaxt. In *Actobio nano* in Amer. bor. — Perithecia 120-137 \times 37; sporidia 26 \times 3,7.

DIPLOMYCES Thaxt. Mon. p. 357. — Syll. XI, p. 456. — Receptaculum symmetricum processibus binis posterioribus auctum; appendices atque perithecia quoque binata.

1. **Diplomyces Actobianus** Thaxt. In *Actobio nano* in Amer. bor. — Perithecia cum basi 75 \times 12; sporidia 32 \times 2.

RHACHOMYCES Thaxt. Mon. p. 358. — Syll. XI, p. 454. — Receptaculum constans ex axi primario cellularum superpositarum, e quarum uno latere cellulae minores appendiculatae separantur. Perithecia subterminalia.

1. **Rhachomyces speluncalis** Thaxt. In *Anophthalmo pusione* in Amer. bor. — Perithecia 90 \times 37.
2. **Rhachomyces lasiophorus** Thaxt. In *Atrano pubescente*, *Badistero micante*, *Acupalpo caro* etc. in Amer. bor. — Perithecia 140-145 \times 50; sporidia 30 \times 3.
3. **Rhachomyces arbuscula** Thaxt. In insecto ind. *Lathrobio aff.* 2770 in Africa. — Perithecia 170-190 \times 35-38; sporidia 30 μ . long.
4. **Rhachomyces longissimus** Thaxt. In *Colpode evanescente* in Amer. bor. — Perithecia 185 \times 55; sporidia 60 \times 4.
5. **Rhachomyces furcatus** Thaxt. In *Othio fulvipenni* in Europa. — Perithecia 160-185 \times 48-55; sporidia 48 \times 4.
6. **Rhachomyces hypogaeus** Thaxt. In *Anophthalmo Bilimeki* in Europa. — Perithecia 145 \times 37
7. **Rhachomyces Lathrobii** Thaxt. In *Lathrobio longiusculo* et sp. ind. in Amer. bor. — Perithecia 100-130 \times 35-40; sporidia 50 \times 4.

8. **Rhachomyces pilosellus** (Rob.) Thaxt. In *Lathrobio fulvipenni* in Europa. — Perithecia 150-165 \approx 45-55; sporidia 55 \approx 4.

CHÆTOMYCES Thaxt. Mon. p. 364. — Syll. XI, p. 454. — Receptaculum e serie unica cellularum superpositarum constans; appendices et perithecia seriem singulam verticalem formantia.

1. **Chætomyces Pinophili** Thaxt. In *Pinophilo latipede* in Amer. bor. — Perithecia cum basi 90-130 \approx 22; sporidia 37 \approx 1,5-2.

SPHALEROMYCES Thaxt. Mon. p. 365. — Syll. XI, p. 453. — Receptaculum bicellulare; singula appendix simplex fert seriem ramulorum antheridialium in catenulam unicam superpositorum.

1. **Sphaleromyces Lathrobii** Thaxt. In *Lathrobio nitidulo*, L. punctulato in Amer. bor. — Perithecia 100-140 \approx 22-36; sporidia 35 \approx 3-3,5.
 2. **Sphaleromyces occidentalis** Thaxt. In *Pinophilo denso* in Amer. bor. — Perithecia 200 \approx 45.

COMPSOMYCES Thaxt. Mon. p. 366. — Syll. XI, p. 450. — Receptaculum bicellulare: cellula superior gerit verticillatim appendices et perithecium stipitatum. Stipes bicellularis, cellula inferior appendiculata.

1. **Compsomyces verticillatus** Thaxt. In *Sunio longiusculo* in Amer. bor. — Perithecia 90-150 \approx 20-35; sporidia 20-22 \approx 3.

MOSCHOMYCES Thaxt. Mon. p. 368. — Syll. XI, p. 450. — Receptaculum bicellulare e basi cellulari compacta, intra hospitis corpus innata, oriundum. Perithecium cellulis binis suffultum, infera appendiculata.

1. **Moschomyces insignis** Thaxt. In *Sunio prolixo* in Amer. bor. — Perithecia 225-290 \approx 55-75; asci 40-45 \approx 7,5; sporidia 40-45 \approx 7,5.

Tribus II. I xogenæ Thaxt.

Antherozoidia exogene evoluta. Species solito aquaticæ.

ORDO 3. **Zodiomycetæ** Thaxt.

CERATOMYCES Thaxt. Mon. p. 372. — Syll. XI, p. 455. — Appendix sursum tenuata, ramulos laterales gerens; receptaculum pauci-cellulare: cellulæ parietales perithecii septem v. plures in quaque serie.

1. **Ceratomyces mirabilis** Thaxt. In *Tropisterno glabro* et *T. nimbato* in Amer. bor. — Perithecia 280-300 \approx 65-70; sporidia 110-120 \approx 4.
2. **Ceratomyces confusus** Thant. In *Tropisterno glabro* et *T. nimbato* in Amer. bor. — Perithecia 235-335 \approx 65; sporidia 75-90 \approx 3,7.
3. **Ceratomyces campiosporus** Thaxt. In *Tropisterno glabro* in Amer. bor. — Perithecia 275 \approx 85-90; sporidia 110 \approx 3,5.
4. **Ceratomyces minusculus** Thaxt. In *Tropisterno nimbato* in Amer. bor. — Perithecia 110-150 \approx 30-40; sporidia 75 \approx 4.
5. **Ceratomyces filiformis** Thaxt. In *Tropisterno glabro* et *T. nimbato* in Amer. bor. — Perithecia 250-330 \approx 33-40; sporidia 55-60 \approx 3.
6. **Ceratomyces rostratus** Thaxt. In *Hydrocombo fimbriato* et *Philhydro cincto* et *Ph. nebuloso* in Amer. bor. — Perithecia 110-150 \approx 65-90; rostrum 1,17 mm. long.; sporidia 75 \approx 3,5.
7. **Ceratomyces furcatus** Thaxt. In *Beroso striato* in Amer. bor. Perithecia 130-150 \approx 45-60; sporidia 85-90 \approx 4.
8. **Ceratomyces terrestris** Thaxt. In *Lathrobio punctulato* in Amer. bor. — Perithecia 75-90 \approx 22-29; sporidia 15 \approx 2,5-3.
9. **Ceratomyces oontortus** Thaxt. In *Beroso striato* in Amer. bor. — Perithecia 200-260 \approx 35-45; sporidia 80-85 \approx 3-3,5.
10. **Ceratomyces humilis** Thaxt. In *Beroso striato* in Amer. bor. — Perithecia 100 \approx 25; sporidia 22 \approx 3.

ZODIOMYCES Thaxt. Mon. p. 369. — Syll. IX, p. 1130. — Receptaculum parenchymatico-multicellulare; perithecia numerosa, appendicibus sterilibus ex apice eorum cupulato orientibus coronata.

1. **Zodiomyces vorticellarius** Thaxt. In *Hydrocombo lacustri* et *H. fimbriato* etc. in Amer. bor. — Perithecia 55 \approx 15; sporidia 45 \approx 2,5-3.

DISCOMYCETÆ Fr.

Syll. VIII, p. 3, X, p. 1, XI, p. 391

Fam. 1. Helvellaceæ Sw.

Sect. 1. Hyalosporæ.

MORCHELLA Dill. — Syll. VIII, p. 8, X, p. 1, XI, p. 391.

1. **Morchella Spongiola** Boud. Bull. Soc. mycol. 1897, p. 138. — 2771

Minuta v. media, 3-7 cm. alta; ascomate subgloboso, rarius breviter oblongo, fulvo-griseo, plus minus pallido, alveolis numerosis, valde irregularibus, parvis, plus minus distincte marginatis, costis primariis raro appendiculatis, sinuosis, sæpe ferrugineo-tinctis; stipite albido, basi leviter incrassato, sat crasso, sublevi; sporidiis 20-25 × 12-13.

Hab. in Gallia meridionali et occidentali, præcox.

2. **Morchella umbrina** Boud. Bull. Soc. Myc. 1897, p. 138. — Minu- 2772

ta, 3-7 cm. alta; ascomate rotundato, atro, fere nigricante, alveolis minutis, regularibus, subrotundis, apertis, costis pallidioribus, fere ferrugineis, vix sinuosis; stipite parvo, albo, exili, glabro, basi incrassatulo; paraphysibus coloratis, non incrassatis; sporidiis 18-23 × 9-12, præcocibus.

Hab. in silvaticis Gallie, Germaniæ, Italiæ. — Ascomate nigro, parvo etc. distinguitur.

3. **Morchella rudis** Boud. Bull. Soc. Myc. 1897, p. 140. — Minu- 2773

tula, 6-7 cm. alta; ascomate fulvo, ovato v. ovato-conico, alveolis amplis, profundis, subirregularibus, intus plicatis, costis primariis flexuosis, raro appendiculatis interpositis; stipite fulvo-pallido, grosse furfuraceo, valleculis inæqualiter impresso, basi æquali; paraphysibus gracilibus, vix clavatis; sporidiis 20-25 × 13-15.

Hab. prope Compiègne et Lyon Gallie.

4. **Morchella intermedia** Boud. Bull. Soc. Myc. 1897, p. 144, *Mor-* 2774

chella conica Krombh. Tab. 16, f. 7-8 et 10, nec Pers. — Minuta, 3-8 cm. alta; ascomate conico dein oblongo v. ovato-oblongo, fulvo v. fulvo-olivaceo, alveolis secundariis minus regulariter se-

riatis, costis primariis plerumque divisis, nigricantibus; stipite albicante ascoma non æquante, basi incrassatulo et sulcato; paraphysibus ramosis clavulatis; sporidiis 22-27 \times 12-15.

Hab. in regione submontana Galliæ, Italiæ, Germaniæ. — Var. **acuta** Boud. l. c. Krombh. Tab. 16, f. 14-16. — Ascomate multo acutiore, saturatius colorato. In Gallia et Germania.

5. **Morchella hortensis** Boud. Bull. Soc. Myc. 1897, p. 145. — Media 2775
5-12 cm. alta; ascomate stipiti adnato sed vallecule exigua distincto, brunneo, costis primariis, longitudinalibus, simplicibus v. divisis, paullo pallidioribus, flexuosis appendiculatisque, inter se alveolos fusiformes, multos alios alveolos depressiones includentes, formantibus; stipite albo-flavido, subtomentoso-furfuraceo, ascomate breviori basi que vix incrassato; paraphysibus coloratis, sursum clavulatis; sporidiis 25-30 \times 16-18.

Hab. in hortis, calidariis, florum ollis in Gallia. — Var. **vaporaria** De Brond. Agen. p. 33, f. 9. Luxurians, major, alveolis minus regularibus. In calidariis, Agen Galliæ.

6. **Morchella inamœna** Boud. Bull. Soc. Myc. 1897, p. 149. — Me- 2776
dia, 6-9 cm. alta, tota olivacea, stipite paullo pallidior; ascomate brevi, conico, alveolis sat amplis irregularibus, non v. vix seriatis, costis nigricantibus; stipite valde scabro et valleculis impresso; paraphysibus vix clavulatis; sporidiis 25-28 \times 15-18.

Hab. ad terram pr. Nizza (BARLA). — Odor fere *Sclerodermatis*.

7. **Morchella libera** QuéL. XX Suppl. 1895, p. 6, t. IV, f. 16 (Assoc. 2777
franç. avanc. Sc.). — Stipite subcoriaceo, tubuloso, 5-8 cm. longo, sub apice ascomatis aperto et infra paginam inferiorem ascomatis expanso et adhærente, intus et extus furfuraceo, ochraceo-albo: ascomate carnosocoriaceo, campanulato, apice convexo, alveolis oblongis sinuosis venosisque, ex costis longitudinalibus simplicibus bifurcatisque transverse anastomosantibus formatis; hymenio glabro, cerino-olivascens; sporidiis ellipsoideis, 20 μ . longis utrinque leniter tenuatis, hyalinis.

Hab. in silvis ad terram humosam a foliis putridis formatam, Vosges (V. DEMANGE). — Affinis *M. hybridæ*, a qua differt ascomate omnino libero, alveolis profundioribus etc.

GYROMITRA Fr. — Syll. VIII, p. 15.

1. **Gyromitra brunnea** Underw. Proc. Ind. Acad. 1893, p. 33. — Ascomate carnosocoriaceo, stipitato, 8-13 cm. alt., valde contorto, brunneo, 5-12 cm. cr., inæqualiter lobato-plicato, costulis indistincte ana- 2778

stomosantibus in areolas partito; ascis octosporis; sporidiis ovoideis $20-30 \times 14$, leviter rugoso-tuberoulatis, nucleo 11μ . d. v. 14×11 , valde refringenti præditis, hyalinis; paraphysibus tenuibus sursum incrassatis, septulatis.

Hab. in silvis præsertim inter folia faginea, Putnam county Ind. Amer. bor. (Doct. W. V. Brown). — Optime vesca. Singulum exemplar subinde 175-190 gr. ponderis.

HELVELLA Linn. — Syll. VIII, p. 17, XI, p. 391.

1. *Helvella alpestris* Boud. Bull. Soc. Myc. 1895, p. 28, tab. II, 2779 fig. 2. — Ascomate non deflexo, cupulato, stipitato, extus sub lente breviter velutino, non squamoso-hirto, atro, marginæ subcrenulato albicante; stipite concolori, similiter puberulo, ad basim subincrassato et sulcato, non pallescente, carne alba; hymenio atro receptaculo vix obscuro; paraphysibus fuliginis, ad apicem incrassatis, clava 5-6 μ . crassa, ad basim sæpius septatis, intus granulosis; ascis octosporis, cylindricis, ad basim attenuatis et flexuosis, $300 \times 16-20$, hyalinis; sporidiis ellipticis, apicibus obtusis, hyalinis, levibus intus more generis guttula oleosa crassa et rarius granulis parvis præcipue in junioribus præditis, $22-25 \times 14-15$.

Hab. ad terram in pratis alpinis in Helvetia. — $1\frac{1}{2}$ cm. alta, tota nigra.

2. *Helvella grisea* Clem. Bot. Surv. of Nebraska IV Lincoln 1896, 2780 p. 8. — Ascomate adpresso, persistenter bilobo v. subreniformi vix inflato, subtus venulis prominulis numerosis anastomosantibus percurso reticulatoque, pallido, hymenio levi persistente pallide griseo-brunneo vestito; stipite concolori v. vix pallidiore, initio longitudinaliter sulcato dein lacunoso-sulcato; ascis cylindræis, 200-250 \times 15, octosporis, paraphysibus filiformibus, septatis, hyalinis, 4 μ . crassis obvallatis; sporidiis monostichis late ellipticis, intus guttula oleosa crassa præditis, 18×10 .

Hab. ad terram, Nebraska Amer. bor. — Pileus 1-2 cm. altus, $1-2\frac{1}{2}$ cm. latus; stipes $1\frac{1}{2}-3$ cm. longus, 4-5 mm. crassus.

3. *Helvella sulcata* Afz.-Syll. VIII, p. 20. — Var. *minor* Clem. 2781 Bot. Survey of Nebraska IV Lincoln 1896, p. 8. — Ascomate 2-3 mm., raro 8 mm. lato, 2-5 mm. alto; stipite 2-3 mm., raro 10 mm. alto, $1\frac{1}{2}-3\frac{1}{2}$ mm. lato; sporidiis 15×10 .

Hab. in terra in Nebraska Amer. bor.

4. *Helvella albella* Quéf. XX Suppl. 1895, p. 6, t. VI, fig. 16 (As- 2782 soc. franç. avanc. Sc.). — Stipite cylindrico, medulla byssoidea

farceto, subcartilagineo; ascomate membranaceo, tenui, libero, in duos v. tres lobos orbiculares reflexo, lobis dorso applicatis, tenuiter flocculosis, niveo-albis; hymenio continuo, griseo-fusco, in sicco nigricante: sporidiis ellipsoideis, 18-20 μ . long., viridulo-nucleatis.

Hab. in albis maritimis (BARLA). — Affinis *H. capucinos*, a qua recedit ascomate discoideo et hymenio cinereo.

VERPA Sw. — Syll. VIII, p. 29.

1. *Verpa indigocola* Oud. Konink. Akad. Wetensch. Amsterdam 1897. 2783 p. 89 — Ascomate obtuso-conico glabro, sicco pallide, vegeto verisimiliter indigotico, margine integro, compacto. centro subgelatinoso, 8-11 mm. alto, 4-8 mm. lato; stipite fistuloso e duabus partibus consistente, parte epigæa glabra 1½-2 cm. longa, 3-5 mm. crassa. basi paululum incrassata, parte hypogæa glabra sine ullo filamento 8-12 cm. longa, sulco a parte epigæa separata; ascis sporidiisque non visis.

Hab. in ramulis foliisque Indigoferæ tinctoriæ in Java. — Ab omnibus speciebus generis *Verpæ* descriptis stipite partim hypogæo recedit.

2. *Verpa Sauteri* Rehm, Discomycet. p. 1199, *Verpa pusilla* Saut. 2784 Flora 1841, X, 1 nec Quél. — Ascomate 3 cm. alto, campanulato-digitaliformi, brunneo; stipite basi incrassato, brunneo 2 mm. lato.

Hab. ad lignum in Salisburgia (SAUTER).

MITRULA Fr. — Syll. VIII, p. 32, X, p. 1, XI, p. 392.

1. *Mitrula roseola* Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, 2785 p. 42, tab. III, fig. 16. — Ascomatibus capitatis, stipitatis; capitulo globoso v. obovoideo, cum stipite continuo, roseolo, intus albo; stipite brevi, crasso, erecto, solido, albo; ascis elongato-clavatis, 60-80 \times 7-8. breve stipitatis; paraphysibus filiformibus; sporidiis subdistichis, clavato-cylindraceis, hyalinis, continuis, 20-25 \times 2½.

Hab. in sabulosis, Columbia Amer. bor. (ATKINSON). — 4-8 mm. alta, capitulum 2-4 mm. diam.

2. *Mitrula gracilis* Karst. — Sacc. Syll. VIII, p. 34. — Var. *flavipes* 2786 Peck, 49 Rep. Stat. Bot. N. York, 1896, p. 32. — Stipite pallide luteo, cetera ut in typo.

Hab. inter muscos, Labrador Amer. bor. (WAGHORNE).

SPRAGUEOLA Masec, Journ. of Bot. 1896, p. 149, tab. 357, fig. 8-9 (Ety. a et botanico SPRAGUE). — Ascoma subglobosum, irregulariter nodosum, glabrum, sessile, solidum, hymenio extus obtectum; asci cylindræo-clavati, apice subtruncati, poro jodi ope colorato; sporidia octona, monosticha, continua, hyalina, levia, elliptica; paraphyses graciles, septatæ.

1. *Spragueola americana* Mass. l. c. tab. 357, fig. 8-9, *Mitruia cri-* 2787
spata Fr. in North, Am. Fungi p. 127; Sacc. Syll. VIII, p. 36 (diagnosis incompleta!). — Ascomatibus subglobosis, 1-1 1/2 cm. latis altisque. nodulosis v. lobatis, glabris, siccitate pallide ochraceis, carnosis solidis, intus albis; ascis anguste cylindræo-clavatis, apice subtruncatis, poro jodi ope cœrulescente, rectis, 70-75 \approx 5-6; sporidiis octonis, oblique monostichis, continuis, hyalinis, levibus, ellipticis, utrinque obtusis, 6 1/2-7 \approx 3 1/2; paraphysibus septatis, gracilibus, clavatis, apice 3 μ . crassis; excipulo ex hyphis ramosis dense intricatis esseptatis usque ad 5 μ . crassis formato.

Hab. ad humum inter Pini acus, New England Amer. bor. (SPRAGUE).

MICROGLOSSUM Sacc. — Syll. VIII, p. 39, X, p. 2, XI, p. 392.

1. *Microglossum lutescens* Boud. Bull. Soc. Myc. 1896, p. 14, t. IV, 2788
 fig. 1. — Ascomate longe stipitato, luteo-olivascense aut ochraceo-cinereo, pediculo 2-5 cm. longo concolore sed ad basim intus et extus virescente, minutissime squamuloso præcipue ad partem superam, clavula 15-20 mm. longa, 4-10 mm. lata, primo subcylindrica, dein medio longitudinaliter compressa, a stipite bene distincta lanceolata rarius ad apicem rotundata, intus solida pallide ochracea; paraphysibus hyalinis, septatis, filiformibus, ad basim vage ramosis, ad apices clavulatis, clavula subcapitata, 3-4 μ . crassa et muco gelatinoso sæpius obducta; ascis inoperculatis, 8-sporis, subclavatis, ad basim leviter attenuatis, 130-150 \approx 15-17; sporidiis oblongo-fusoideis, rectis aut leviter curvatis aut flexuosis, achrois et guttulis oleosis 3-4 majoribus, granulis pluribus immixtis repletis, 20-26 \approx 6-7.

Hab. ad terram argilloso-sabulosam ad latera viarum silvæ Montmorency Galliæ.

Sect. 2. Phragmosporæ.

LEPTOGLOSSUM Cooke. — Syll. VIII, p. 47, XI, p. 392.

1. **Leptoglossum latum** Peck, Bull. Torr. Bot. Cl. 1895, p. 210. — 2789

Ascomate clavulato 6-13 $\frac{1}{2}$ mm. longo latoque, in udo molli, in sicco subfragili, irregulariter compresso, toto nigro; stipite clavulam æquante, nigro; ascis clavato-cylindræcis, 118-131 \times 13. octosporis; sporidiis in asco confertis oblongis v. cylindræcis, rectis v. leniter curvulis, continuis (semper?) obtusis, hyalinis, 26-40 \times 5 $\frac{1}{4}$ -6 $\frac{1}{4}$; paraphysibus coloratis apicè incrassatis interdumque recurvatis.

Hab. ad terram arenosam, Labrador (WAGHORNE).

2. **Leptoglossum alabamense** Underw. Bull. Torr. Bot. Cl. 1897, p. 82. 2790

— Ascomatibus nigris, gregariis, 2-3 cm. altis; clavula circiter 1 cm. longa, applanata, sicca, 2 mm. lata, $\frac{1}{2}$ mm. crassa, rotundata, cornea, intus flava; stipite asperulo, basi incrassato; sporidiis hyalinis, rectis v. leniter curvulis, distichis, demum 4-septatis, 18-20 \times 4; paraphysibus copiosissimis, apicè incrassatis et obscurioribus.

Hab. ad terram, Alabama Amer. bor.

GEOGLOSSUM Pers. — Syll. VIII, p. 42, X, p. 2.

1. **Geoglossum lignicolum** Masee, Journ. of Bot. 1896, p. 150, t. 357, 2791

fig. 19-20. — Gregarium, 4-5 cm. altum, lignicolum, nigrum v. atro-purpureum; clavula tereti v. compressa, glabra, hymenio obducta, circiter 3 mm. crassa, cum stipite sterili minute velutino æquali gracili plerumque curvulo confluyente; ascis clavatis, apicè rotundatis ibique jodi ope cœrulescentibus, sæpe curvulis, 150 \times 15; sporidiis lineari-clavatis, apicem versus crassioribus, brunneis, pelucidis, plerumque lenissime curvulis, 7-septatis, in asco parallele dispositis, octonis; paraphysibus rectis, clavatis, septatis, apicè olivaceo-tinctis ibique 6 μ . crassis.

Hab. in ligno putrido, Tasmania (ARCHER).

2. **Geoglossum xylaricoides** Rehm, Hedw. 1896, p. 55. — Ascoma- 2792

tibus erectis, clavula elongato-ovata, obtusa, atra, subcalva, compressa, 2-5 mm. long., 0,2 mm. lat., sicca interdum longitudinaliter sulcata, in stipitem cylindricum, atrum, glabrum, 3-5 mm. long., 0,3-0,5 mm. lat. sensim abeunte; ascis clavatis, apicè rotundatis et incrassatis, usque ad 120 \times 18, octosporis; sporidiis cy-

lindriois, rectis v. subcurvatis, obtusis, primitus hyalinis, dein fuscis, transverse 7-septatis, quaque oellula nucleo oleoso magno prædita, 45-60 \times 5, parallele longitudinaliter positæ; paraphysibus filiformibus, septatis, apice subcurvatis, ca. 5. μ . crassis et fuscis; poris ascorum jodi ope cæruleo saturate tinctis.

Hab. ad terram Itatiaia Brasiliæ mer. (ULE). — A: *G. pumilo* Wint., quæ species est eadem magnitudine, sporidiis 8-cellularibus atque dividio minoribus differt.

Sect. 3. Scolecosporæ.

SPATHULARIA Pers. — Syll. VIII, p. 49.

1. *Spathularia rugosa* Peck. 50 Rep. p. 118. — Ascomate compresso, rugoso, oblongo, obovato v. spathulato, subinde irregulari, pallide flavido; stipite subæquali, tereti, sæpe præcipue basim versus pruinoso-velutino, albido v. pallido; ascis clavatis, in stipitem brevem sensim tenuatis, 75-100 \times 10-12; sporidiis filiformibus 40-60 \times 2 paraphysibus filiformibus, sursum leniter incrassatis curvulisque.

Hab. sub Coniferis, in circulos crescens, Old Forge, Herkimer county Amer. bor. — Affinis *S. clavata*.

Fam. 2. Pezizaceæ FR.

Sect. 1. Hyalosporæ.

GEOPYXIS Pers. — Syll. VIII, p. 63, X, p. 3, XI, p. 393.

1. *Geopyxis velata* (Quél.) Sacc. et Syd., *Peziza velata* Quél. XX 2794 Suppl. 1895, p. 7, t. VI, f. 17 (Ass. franç. avanc. Sc.). — Ascomate cupuliformi, stipitato 1 cm. lat. margine crenulato, fragili, translucido, ex albo cremeo-cinerecente, extus brunneo-granulato subpulverulento; hymenio cremeo, velo sericeo albo demum stellatim dehiscente obturato; sporidiis ellipsoideis, 15 μ . long., 2-guttulatis, hyalinis.

Hab. ad terram sub Fagis, Jura — Per. finis nisi varietas *G. cupularis*, teste ipso auctore.

PEZIZA Dill. — Syll. VIII, p. 73, X, p. 3, XI, p. 393.

1. *Peziza odorata* Peck, Bull. Torr. Bot. Cl. XXIII, 1896, p. 420. 2795 — Ascomatibus 1-8 cm. latis, gregariis v. sparsis, tenuibus, sessilibus, adis grumosis, expansis v. margine decurvato convexis,

initio brunneis, dein albis v., albidis, hymenio ochraceo-brunneo; ascis cylindræcis, 260-320 \times 16-21; sporidiis ellipticis, levibus, 21-23 $\frac{1}{2}$ \times 10 $\frac{1}{2}$ -13; paraphysibus filiformibus, obscure septatis, apice leviter incrassatis.

Hab. in cellario, Maine Am. bor. (HARVEY). — *P. Petersii* affinis.

Peziza prætervisa Bres. Malpighia XI, 1897, p. 266. — Ascomatibus ex hemisphærico subcampanulatis, expanso-concavis, sessilibus v. radicato-productis, extus leviter furfuraceis, glabrescentibus, pallide liaceis v. violaceis, 3-5 cm. latis; hymenio violaceo-vinoso, demum carneo-fuscidulo; carne subconcolori, vix odora; ascis cylindræceo-pedicellatis, 200-230 \times 8-10, jodo cœrulescentibus; paraphysibus 3 μ . crassis, apice clavato v. subcapitato sæpe curvato, luteolo farcto, 4-6 μ . crasso sporidiis ellipticis, biguttulatis, asperulis, 12-14 \times 5-6 2796

Hab. in carbonariis in Italia boreali. — *P. violacea* affinis, a qua ascomatibus majoribus et sporidiis asperis bene distincta

3. **Peziza olivacea** (Boud.) Sacc. et Syd. *Aleuria olivacea* Boud. Bull. Soc. Myc. de France 1897, p. 14, t. III, fig. I. — Major, sessilis, cupulata, 3-5 cm. lata, olivaceo-fusca extus concolor, furfuræo-granulosa, carne concolore sat tenui; paraphysibus gracilibus, vix ad apicem incrassatis, septatis, intus aliquoties subnebulosis, 5-6 μ . spissis, hyalinis aut vix tinctis; ascis octosporis, operculatis, cylindricis, ad basim paululum attenuatis, 250 μ . et ultra longis, 15 μ . circiter crassis, pallide fuscescentibus, jodo cœrulescentibus; sporidiis elliptico-fusiformibus, extus verruculosus non guttulosus, pallide (ut asci) fulventibus, 22-23 \times 10-11. 2797

Hab. ad terram pr. Nice Galliæ merid. (BARLA).

4. **Peziza paraphysata** Clem. Bot. Survey of Nebraska IV, Lincoln, 1896, p. 9. — Ascomatibus orbicularibus, applanatis, margine deflexo, carnosus, subtus fusco-ochraceis; disco castaneo, 1-2 cm. diam.; ascis cylindræcis, 8-sporis, elongatis, 325-350 \times 18; sporidiis late ellipsoideis, oblique monostichis, biguttulatis, levibus, 20 \times 15; paraphysibus septatis, late clavatis, dense fusco-granulosis, 5 μ . latis, apice clavatis, 50-60 \times 10-12 $\frac{1}{2}$. Jodi ope asci non tinguntur. 2798

Hab. in terra et ad lignum, Nebraska Am. bor. — *Discinæ orbicularis* Peck valde affinis.

5. **Peziza vinacea** (Clem.) Sacc. et Syd. *Plicaria vinacea* Clem. Bot. Surv. of Nebraska IV, Lincoln 1896, p. 9. — Ascomatibus concavis v. scutellatis tandem applanatis, carnosus, sessilibus, margine repando-flexuoso, hymenii superficie asperata, initio aurantiaco-vi-

nosis, dein vinoso-lateritiis, 7-15 mm. diam., subtus glabris pallidioribusque; ascis cylindraceis truncatulis, jodi ope omnino cærulescentibus, 225-250 \times 12-13, octosporis; sporidiis ellipticis, eguttulatis, monostichis, hyalinis, levibus, 16-20 \times 10-12; paraphysibus late filiformibus apiceque vix incrassatis, granulosis, 5 μ . crassis.

Hab. ad terram in silvis, Nebraska Amer. bor

6. **Peziza brunneo-vinosa** Clem. Bot. Survey of Nebraska IV, Lincoln 1896, p. 8. — Ascomatibus cæpitosus, sessilibus, primo cupuliformibus, denique applanatis, sæpe disciformibus et immarginatis, margine irregulari, vix lobato, 5-12 mm. diam.; disco brunneo, subtus obscuriore v. ochraceo; ascis cylindraceis, 250-300 \times 12-14; sporidiis ellipsoideis, levibus, biguttulatis, 16-20 \times 10; paraphysibus late linearibus, septatis, sursum-fuliginosis. Jodi ope asci non tinguntur.

Hab. in terra arenosa in Nebraska Am. bor.

7. **Peziza quitensis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 216 (*Aleuria*). — Sessilis, carnosa, 4-12 mm. diam., concava, demum explanata, margine integro, acuto, hymenio levi, badio-rufo, extus pallide fulva v. albida, sub lente furfuracea; ascis cylindraceis, 160-200 \times 10-12, operculatis, undique cærulescentibus; paraphysibus filiformibus; sporidiis ovoideis, non guttulatis, levibus, 16 \times 10.

Hab. in muro udo pr. Quito in Æquatoria. — *P. applanata* Fr. affinis.

OTIDEA Pers. — Syll. VIII, p. 94, X, p. 4, XI, p. 394.

1. **Otidea abietina** Fuck. — Syll. VIII, p. 80 (*Peziza*) — var. **nigra** Rick, Oesterr. bot. Zeitschr. 1898, n. 1-2. — A typo differt colore nigro et paraphysibus sursum radiatim divisis.

Hab. in alpinis Vorarlberg, alt. circ. 1500 m.

2. **Otidea olivacea** Th. Bucholtz, Verz. im Sommer 1896 in Michailowskoje (Moskau) gesamm. Pilze in Bull. Soc. imp. Naturalistes de Moscou, 1897, n. 2, p. 325. — Ascomatibus breve stipitatis, uno latere usque ad basim fissis reflexisque, erectis, 2 cm. lat. et altis, extus pruinosis, rugulosis, flavo-brunneolis; stipite obscuriore, fere nigricante, disco atro-olivaceo, velutino, margine involuto; ascis elongatis, deorsum tenuatis, 100 \times 7; sporidiis ellipsoideis hyalinis, curvulis, 1-guttatis, 13-15 \times 3-4; paraphysibus filiformibus; sursum incrassatulis, viridulis, 4 μ . cr.

Hab. in caudicibus putridis, Michailowskoje Rossie. — Ad subgenus *Wynellam* spectat.

3. *Otidea auriculariiformis* P. Henn. Hedw. 1897, p. 232. — Asco- 2304
 mate substipitato, carnosio-subcoriaceo, sicco castaneo, auriculariiformi, extus levi, glabro, intus rimoso, usque ad 6 cm. lato altoque; ascis cylindraceutis, apice obtuso-rotundatis, basi angustioribus vel stipitatis, 8-sporis, 230-300 \times 18-22; sporidiis monostichis, ellipsoideis, utrinque rotundatis, hyalinis, 26-31 \times 13-15, episporio subfuscidulo; paraphysibus filiformibus, clavatis, fuscidulis, usque ad 10 μ . crassis.

Hab. ad lignum pr. Rio de Janeiro Brasiliæ (GLAZIOU).

4. *Otidea subnotica* P. Henn. Hedw. 1897, p. 232. — Ascomate 2305
 stipitato, carnosio, uno latere elongato, 4 cm. alto, 3 mm. alto, subauriformi, extus coccineo, intus subminiato, dein rimoso; stipite compresso, rugoso, pallidiore, basi tomentoso; ascis cylindraceut-clavatis, 60-75 \times 8-10, apice obtusis, octosporis; paraphysibus filiformibus, 2-3 . crassis, basi ramosis; sporidiis oblique monostichis, ellipsoideis, utrinque rotundatis, 11-13 \times 6-7 1/2.

Hab. ad terram in Brasilia (SELLO). — Externo habitu *Otideis leporinæ* et *onoticæ* valde affinis, sed ascis sporidiisque multo brevioribus differt.

DISCINA Fr. — Syll. VIII, p. 99, X, p. 4, XI, p. 395.

1. *Discina? submembranacea* P. Henn. Hedw. 1895, p. 327. — Asco- 2306
 mate carnosio-membranaceo, sessili, explanato undulatoque, repando, lobato, extus pallido, subtomentoso, intus atro-sanguineo, ca. 3 cm. diam.; ascis cylindraceutis, obtusis, octosporis, 150-180 \times 15-18; paraphysibus filiformibus, flexuosis, flavescentibus; sporidiis oblongo-ellipsoideis, utrinque obtusis, continuis, hyalinis v. intus subflavescentibus, monostichis, 18-20 \times 11-13; episporio 1 μ . crasso, hyalino, levi.

Hab. ad terram arenosam in Transvaalia (SCHLECHTER).

2. *Discina Biondiana* Arcang. Bull. Soc. bot. Ital. 1896, p. 188. — 2307
 Ascomate sessili, badio-umbrino, in laminas contortas irregulares costato-rugosas dissecto; ascis cylindraceutis, apice leviter angustatis, truncatis, parce callosis; sporidiis octonis, ellipsoideis, hyalinis, levibus, 40 \times 10, in sicco eguttulatis; paraphysibus raris, filiformibus, apice clavulatis.

Hab. in caulibus putridis in China.

DETONTIA Sacc. — Syll. VIII, p. 105.

1. *Detonia nigrans* Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, 2308

p. 43, tab. III, fig. 72 (*Peziza*). — Ascomatibus initio cupulatis, orbicularibus, demum explanatis, plus minus irregularibus, extus pallide fumosis, glabris, fibris gracilibus solo affixis; hymenio atro; ascis cylindræis, octosporis, p. sp. 60-70 \times 10; sporidiis in asci superiere parte monostichis, globosis dense verrucosis, fumoso-hyalinis, 8-9 μ . diam.; paraphysibus filiformibus, apice clavasis.

Hab. ad terram ustam, Ohio Amer. bor. — Ascoma 1-2 cm. latum.

GALACTINIA Cooke. — Svll. VIII, p. 106, XI, p. 395.

1. **Galactinia Lefebvrei** Pat. Enum. Champ. Tunisie 1892, p. 9, t. II, 2809
fig. 3. — Sessilis, cupulata, turbinata, margine integro v. inciso, primo incurvo, dein erecto, carnosa, vix crassa, extus brunneola furfuræa, basi pallidior, hymenio levi, violaceo-brunneo; ascis elongatis, gracilibus, cylindræis, 250 \times 10, apice operculatis, octosporis, jodi ope supra cærulescentibus; sporidiis levibus, hyalinis, ovoideis, uniseriatis, grosse biguttatis, 14-16 \times 8-9; paraphysibus ascos æquantibus, non articulatis, gracilibus, apice incrassatis

Hab. ad terram nudam in Tunisia.

2. **Galactinia tunetana** Pat. Énum. Champ. Tunisie 1892, p. 10, t. II, 2810
fig. 4. — Cæspitosa v. sparsa, sessilis, cupulata v. convoluta, margine erecto, integro v. inciso, extus glabra, alba; hymenio roseo v. violaceo-brunneo, interdum pallidissimo; ascis cylindræis, angustis, 250 \times 12-15, operculatis, octosporis, apice jodi ope cærulescentibus; sporidiis monostichis, ovalibus, levibus, hyalinis, grosse biguttatis, 12-15 \times 8; paraphysibus gracilibus, ascos æquantibus, apice brunneolis, incrassatis, rectis v. curvulis.

Hab. ad terram nudam in Tunisia.

3. **Galactinia viridi-tincta** Clem. bot Surv. of Nebraska IV, Lincoln 2811
1896, p. 9. — Hemisphærica, cupulata, sessilis, lactescens, extus griseo-tomentosa v. minute verrucosa, dilute olivæa, hymenio brunneo-olivæo, carne tactu ad viride vergente, lacte griseo-virescente, $\frac{1}{2}$ -1 cm. lata; ascis cylindræis jodi ope cærulescentibus, 250-300 \times 12-14, paraphysibus linearibus vix vel non incrassatis, hyalinis, multiseptatis, 5-7 μ . crassis obvallatis; sporidiis ellipsoideis, 1-2-guttatis, irregulariter dispositis, levibus, 15 \times 8.

Hab. ad terram nudam umbrosam in silvis, Nebraska Amer. bor.

BARLÆINA Sacc. Tab. comp. gen. p. 30, *Barlæa* Sacc. (1889) Syll. VIII, p. 111, X, p. 5, XI, p. 396, nec Reichenb. (1877).

1. *Barlæina Constellatio* B. et Br. — Syll. VIII, p. 111 (*Barlæa*) — 2812
 var. *minuta* Clem. Bot. Survey of Nebraska IV, Lincoln 1896, p. 10.
 — Ascomatibus plerumque immarginatis, convexis, aurantiacis,
 raro rubescentibus, $\frac{1}{3}$ - $\frac{1}{2}$ raro usque ad 1 mm diam.

Hab. in terra in Nebraska, Amer. bor.

2. *Barlæina eubaurantiaca* Massée, Journ. of Bot. 1896, p. 147 (*Bar-* 2813
læa). — Ascomatibus subsessilibus, in basim brevissimam stipiti-
 formem contractis, convexo-expansis, demum planis margine in-
 tegro, extus albidis, asperis, circiter 1 cm diam; disco umbilicato,
 plerumque radiatim sulcato, sordide luteo; excipulo ex hyphis dense
 intricatis septatis, circiter 6-7 μ . crassis composito, pseudo-paren-
 chymatico; ascis cylindraceutis, apice subtruncatis, octosporis, basi
 in pedicellum longum attenuatis; sporidiis oblique monostichis,
 hyalinis, 1-guttulatis, verrucosis, globosis v. subglobosis, 14 μ . diam.;
 paraphysibus septatis, apice clavatis ibique 7-8 μ . crassis.

Hab. ad terram, Victoria Australiæ.

3. *Barlæina Rickii* Rehm in Rick Oesterr. bot. Zeitschr. 1898 n. 1-2 2814
 sub *Barlæa* (absque diagnosi).

Hab. ad terram Reichenfeld. — Sporidiis multo minoribus a
 ceteris speciebus dignoscenda.

4. *Barlæina (Leptopezza) fuscobadia* Otth, Bern. Mittheil. 1870, p. 94. 2815
 — Disciformis, integra, dein biloba, opposite profunde incisa, te-
 nuis, nullo subiculo interposito, matrici arcte applicata, margine
 homogeneo; disco impolito, fusco-badio, aquoso molli, fragili; exci-
 pulo nullo; ascis cylindricis basi breviuscule tenuatis, apice rotun-
 datis, 8-sporis; sporidiis globosis, monostichis, hyalinis, 13 μ . diam.,
 episporio crassiusculo crebre echinulato; paraphysibus tereti-cla-
 vatis, ascos vix superantibus.

Hab. ad terram arenosam in Helvetia. — Genus *Leptopezza*
 Otth, si genuinum, distinguitur a typo *Barlæine* ascomatibus di-
 scoideis, bilobis, excipulo nullo.

HUMARIA Fr. — Syll. VIII, p. 118, X, p. 4, XI, p. 396.

1. *Humaria rubens* Boud. Bull. Soc. Myc. de Fr. 1896, p. 13, tab. II, 2816
 fig. 3. — Ascomate minuto 3-4 mm. lato, hemisphærico, margi-
 nato, margine minutissime denticulato, extus glabro aut vix fur-
 furaceo, carneo, hymenio concolore aut subsaturatiore. paraphysi-
 bus rubescentibus, septatis, ad apicem clavatis, intus guttulis oleo-
 sis coloratis plus minusve repletis, clavula 11-12 μ . crassa; ascis
 operculatis, octosporis, cylindricis, ad basim paululum attenuatis,

170-180 \approx 18-19; sporidiis levibus, elliptico-ovoideis, ovoideis, achrois, intus guttulam unicam crassam sine granulis continentibus, 18-19 \approx 12-13.

Hab. ad terram arenosam muscosam, Bois de Beauchamp Galliæ. — Colore carneo peculiari a multis recedit.

2. **Humaria clausa** Clem. Bot. Survey of Nebraska IV, Lincoln 1896, 2817 p. 10. — Ascomatibus cæspitosis, carnosis, subglobosis v. subhemisphæricis, subhysteriiformibus, pruinulosis, luteo-griseis, $\frac{3}{4}$ -2 mm. latis; ascis clavatis, octosporis, 250 \approx 35; sporidiis magnis, oblongis, levibus, hyalinis, eguttulatis, 32-37 \approx 12,5-16; paraphysibus dense dispositis, filiformibus, apice vix incrassatis.

Hab. ad terram, Nebraska Amer. bor.

3. **Humaria subcrenulata** Clem. Bot. Surv. of Nebraska IV, Lincoln 1896, p. 11. — Ascomatibus carnosis, stipite brevissimo crasso hypogæo suffultis, e globoso hemisphæricis v. interdum subconcavis, ochroleucis v. ochraceis, 2-5 mm. latis, margine leniter incurvato subcrenulatoque; ascis anguste cylindræcis in stipitem desinentibus, 200 \approx 10; sporidiis ellipsoideis levibus, eguttulatis, hyalinis, 12 $\frac{1}{2}$ -15 \approx 8-10; paraphysibus ascos subæquantibus filiformibus, septatis, granulis repletis, 3 μ . crassis.

Hab. ad terram arenosam inter muscos, Nebraska Amer. bor.

4. **Humaria Sabranskyana** Bäuml. Beitr. Pressb. Pilze 1896, p. 162. 2819 — Ascomatibus primitus globosis dein scutellatis, tandem planis, plerumque distincte umbilicatis, subtus parum pubescentibus pallidisque, margine crenato, disco aurantiaco, in stipitem brevem desinentibus, 5-8 mm. latis; ascis clavatis, 100-110 \approx 8-10, octosporis; sporidiis apice ascorum plerumque distichis, fusoides, apicibus attenuatis, hyalinis, levibus, guttulis duabus magnis vel quattuor minoribus ornatis, 14-20 \approx 4-5; paraphysibus numerosissimis, plerumque ramosis, 1 μ ., apice 2 μ . crassis.

Hab. ad terram muscosam pr. Pressburg Hungariæ.

5. **Humaria obtusipila** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 94. — 2820 Sessilis, concava, carnosâ, 1 cm. lata, aurantiaca, extus pallidior, villosula, versus marginem pilis brunneis, mollibus, fimbriata; aseis cylindræcis, operculatis, 200 \approx 10-12, octosporis; paraphysibus linearibus, apice clavato (6 μ .), aurantiaco; sporidiis ovoideis, levibus, hyalinis, 13-15 \approx 8.

Hab. ad terram in silva in Tunisia.

6. **Humaria Nymani** (Starb.) Sacc. et Syd., *Melachroia Nymani* Starb. 2821 Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, p. 38, fig. 28. — Gre-

garia v. *sparsa*, late breviterque cylindrica, olivacea v. fusco-olivacea, squamulosa, disco repando, convexulo v. plerumque applanato, viridi-vel ærugineo-olivaceo, margine flexuosa paullumque crenulata, sicca umbonata v. fere cupularis, junior disco læte viridi, extus fusca, veterrima nigricans, 0,5-1,5 mm. lata, 0,3-1 mm. alta, ad basim hyphis 2-5 μ . latis, ramosis, parcissime septatis, fuscescentibus, sæpe subiculum crassum, i quo ascomata immersa, fulgineo-theobrominum efformantibus obsessa; textura corneo-gelatinosa, partis fundi excipuli et hypothecii intricata, partis parietis excipuli fere typice globulosa vel laxiore, virescenti-flavida; ascis 8-sporis, cylindræo-clavatis, sursum rotundatis, breviter pedicellatis, 114-120 \times 9-10; sporidiis monostichis, ellipsoideis, guttula unica ornatis, 10-12 \times 4-5; paraphysibus numerosissimis, gracillimis, elegantissime flexuosis, sursum irregulariter ramosis, ramulis uncinatim v. spiraliter v. aliter curvatis, rarissime 5 μ . incrassatis.

Hab. in terra, Jemtland Sueciæ (E. NYMAN). — Propter texturam ascomatis formamque paraphysum nec non subiculo præsentem sub *Melachroia* locanda species, quæ autem ab *H. xanthomela* forma coloreque ascوماتum aliis notis exceptis, plane differt.

7. *Humaria phycophila* Clem. Bot. Surv. of Nebraska IV, Lincoln 2822 1896, p. 10. — Ascomatibus minutissimis sessilibus, scutellatis, demum convexis, gregariis, margine integris, hymenio incarnato v. miniato-aurantiaco, extus pallidiore, 300-500 μ . diam.; ascis clavato-cylindræis oblique operculatis, jodi ope haud cœrulescentibus, 60-67 \times 9-15, octosporis; sporidiis ellipticis oblique monostichis v. sæpe etiam distichis, apicibus leniter truncatis, vulgo 1-guttatis, levibus, hyalinis, 10-12 $\frac{1}{2}$ \times 6-7 $\frac{1}{2}$; paraphysibus filiformibus supra furcatis, granulis aurantiacis faretis apiceque valde recurvatis, 1-2 μ . diam.

Hab. ad terram inter filamenta Lyngbyæ spec., Nebraska Amer. bor. — Ad *Ascophanum* vergit.

8. *Humaria leucolomoides* Rehm - Sacc. Syll. XI, p. 396. — Var. 2823 *pseudoleucoloma* Rehm, Hedw. 1896, p. (32). — Sporidiis fusiformibus, 21 \times 9; paraphysibus aduncis, septatis, apice 3-4 μ . latis.

Hab. ad terram pr. Berolinum Germaniæ (SYDOW).

9. *Humaria viridulo-fusca* Rehm, in Riek Oesterr. bot. Zeitschr. 1898, 2824 N. 1-2 (absque diagnosi).

Hab. ad terram Reichenfeld, Vorarlberg. — Pulchella species paraphysibus crasse clavatis distincta.

10. *Humaria leporum* (Fekl.) Cke. - Sacc. Syll. VIII, p. 138. — Var. 2825

macrospora El. March. Bull. Soc. Roy. Bot. Belg. 1896, p. 130.
— Sessilis, concava, extus rugulosa, disco fusco-rubra; paraphysibus tenuibus, inferne ramosis septatisque; sporidiis ovoideis, majoribus, 15-17 \times 9-12.

Hab. in stercore leporino in Belgio.

11. **Humaria Gollmeri** P. Henn. Hedw. 1897, p. 233. — Ascomate 2826
cupulato-explanato, extus subfarinaceo, olivaceo, 2-4 mm. diam. disco olivaceo, margine virescenti, sicco subaurantio; ascis clavatis, octosporis, 180-220 \times 10-12; paraphysibus filiformibus, apice sæpe furcatis, hyalinis; sporidiis ellipsoideis, uniguttulatis, utrinque rotundatis, hyalinis, 14-16 \times 9-11.

Hab. in fimo vetusto vaccino pr. Caracas Venezuelæ (GOLLMER).

12. **Humaria tofacea** Clem. Bot. Survey of Nebraska IV, Lincoln 2827
1896, p. 11. — Ascomatibus sessilibus, carnosis, concavis, luteoligriseis, vix marginatis v. margine valde depresso, 2-3 cm. diam.; ascis cylindraceis, jodo non cærulescentibus, 200 \times 10-12; sporidiis ellipsoideis, levibus, æguttulatis, monostichis, 15 \times 8-9; paraphysibus filiformibus, 2 $\frac{1}{2}$ μ . latis.

Hab. in fragmentis ligni Pini ponderosæ, Nebraska, Am. bor.

13. **Humaria trachyderma** Ell. et Ev. Americ. Natur. 1897, p. 426. 2828
— Ascomatibus sessilibus, applanato-cupulatis, 2-4 mm. diam., carnosis, marginem versus tenuioribus, colore ligni, extus furfuraceo-verruculosis, siccis hymenio subhepatico, margine divergente, sicco anguste involuto; ascis cylindraceis, 200 \times 12-14, apice truncatis; sporidiis monostichis, oblongo-ellipticis, hyalinis, levibus, 14-18 \times 10-12; paraphysibus incrassatis.

Hab. in ligno putrido in Nebraska Amer. bor. (BATES). — *Peziza vesiculosæ* affinis.

14. **Humaria uvarum** Rehm, Discomyc. p. 1242. — Ascomatibus gre- 2829
gariis v. confertissimis, sessilibus, primo globoso-clausis, dein cupularibus v. patelliformibus, aurantiacis, carnosis, 1-3 mm. latis, margine subtilissime crenulato, sicco involuto; ascis cylindraceis, superne rotundatis, 90-100 \times 8-9, octosporis; sporidiis ellipticis, obtusis, levibus, unicellularibus, hyalinis, 9-10 \times 6, monostichis; paraphysibus filiformibus, 1-1 $\frac{1}{2}$ μ . latis, apice plerumque reduncis.

Hab. in vinaceis dejectis et putrescentibus pr. Trento Ital. bor. (BRESADOLA).

15. **Humaria alpigena** Lind. Hedw. 1896, p. 57. — Solitaria, cupu- 2830
lata, sessilis, lutea v. luteo-aurantiaca, $\frac{1}{2}$ - $\frac{3}{4}$ mm. circiter lata, in sicco parum complicata vixque conspicua, glabra, disco pallidiore,

plano, margine prominulo; ascis clavatis sursum subattenuatis rotundatisque, 60-70 \times 8-10, jodo non cœrulescentibus; sporidiis ellipsoideis utrinque obtusis v. fusoideis et utrinque subacutatis, hyalinis, eguttulatis, 11-14 \times 3-4; paraphysibus filiformibus apicem versus vix incrassatis usque 4 μ . latis, hyalinis, simplicibus, jodi ope fusciscentibus.

Hab. in charta putrida ad Kaiserjoch Tirolæ.

PSILOPEZIA Berk. — Syll. VIII, p. 152, XI, p. 398.

1. **Psilopezia aurantiaca** Gill. — Sacc. Syll. VIII, p. 152. — * **P. xylogena** Sacc. Malpighia 1896, p. 271, tab. V, fig. 2. — Ascomatibus disciformibus, 0,5-0,7 mm. diam., inter fibras nidulantibus; aurantiis, excipulo margineque subnullis, siccis rugulosis; ascis clavatis, 140-160 \times 18-20, apice rotundatis, octosporis; paraphysibus sursum rubescentibus; sporidiis ellipsoideis, levibus, 17-19 \times 8-10, hyalinis, dein dilutissime rufulis.

Hab. in ligno emortuo decorticato Populi laurifoliæ in Sibiria.

SARCOSCYPHA Fr. ex p. — Syll. VIII, p. 153, XI, p. 398.

1. **Sarcoscypha groenlandica** P. Henn. in Allescher et P. Hennings, Pilze aus dem Umanakdistrikt 1897, p. 5. — Stipitata; ascomate cyathiformi, aurantiaco (in alcohole atrobrunneo), extus pruinoso-farinoso, ca. 1 cm. lato, margine subintegro; stipite concolori, tereti, tomentoso-piloso, pilis simplicibus septatis, obtusis, rufo-fuscis, usque ad 150 μ . longis, 5-7 μ . crassis; ascis cylindraceo-clavatis, 8-sporis, apice obtusis, pedicellatis, 80-100 \times 9-12; sporidiis monostichis, 9-13 \times 5-6, oblongis, interdum inæquilateralibus, utrinque obtusis, 2-guttulatis, hyalino-subfuscidulis; paraphysibus filiformibus, septatis, apice obtusis, fuscidulis.

Hab. ad terram inter Hypnum Umanakfjord, Kome-Asakak Groenlandiæ (VANHÖFFEN). — *Sarcoscypha occidentali* Schw. videtur affinis.

2. **Sarcoscypha alpina** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 281. — Stipitata, 2 cm. alta; stipite 1 $\frac{1}{2}$ cm. alto, circiter 2 mm. crasso, sursum in cupulam cyathiformem sensim dilatato; cupula $\frac{1}{2}$ cm. alta, 3-4 mm. lata, margine erecto sublobato, extus cum stipite tomento brevi griseo-albo velata, pilis paucis albis obsessa, carnosae, roseo-tincta; hymenio aurantiaco; ascis cylindraceis, 210-250 \times 20-22; sporidiis monostichis ellipticis, subinæquilateralibus, apicem

basimque versus subattenuatis sed obtusis, nucleo uno magno ac duobus minoribus præditis, 30-35 \times 13-16; paraphysibus clavatis, apice incrassatis.

Hab. ad terram, Colorado Amer. bor. — *S. floccosæ* valde affinis, sed pilis copiosis longis carens.

3. **Sarcoscypha roseo-tincta** Clem. Bot. Surv. of Nebraska IV, Lincoln 1896, p. 11. — Ascomatibus cæspitosis, cupulatis, tandem sæpe concavis, carnosis, extus amœne papillato-tomentosis, albis, ætate sordidis, margine crenato, tomentoso-ciliato; contextu excipuli denso, cellulis 20-25 μ . diam.; hymenio cræneo v. ochraceo; stipite lato, raro 1-3-lacunoso, tomentoso-papillato, supra in cupulam expanso, roseo v. roseolo; ascis cylindræcis jodi ope non cœrulescentibus, 125 \times 8-10, octosporis; sporidiis ellipsoideis, hyalinis, monostiche dispositis, 2-guttatis, 10 \times 5; paraphysibus linearibus, supra guttulis oleosis in 1 vel 2 series dispositis farctis, 2 $\frac{1}{2}$ μ . crassis

Hab. in fimo equino in silvis, Nebraska Amer. bor.

4. **Sarcoscypha striispora** Ell. et Ev. Bull. Labor. Nat. Hist. Univ. Iowa IV, 1896, p. 69. — Stipitata, tenuis, cupulata, 4-6 mm. diam., extus flava, pilis sparsis brunneolis continuis, 1-1 $\frac{1}{2}$ mm. longis, basi 35-40 μ . crassis apicem cersus tenuatis vestita; stipite cylindrico, subæquali, ca. 5 mm. longo, $\frac{1}{2}$ mm. crasso; hymenio pallide aurantiaco; ascis cylindræcis, sessilibus, 120-130 \times 15; sporidiis oblongo-ellipticis, monostichis, hyalinis, 22-27 \times 12, utrinque subacutis, medio constrictis, subtiliter 1-septatis, distincte in longitudine striatis; paraphysibus filiformibus, supra ramosis, ad apicem paululum incrassatis.

Hab. in ligno vetusto, Castillo Nicaraguæ (SMITH). — *Sarcoscyphæ floccosæ* affinis, sed pilis sporidiisque striatis majoribus diversa.

LACHNEA Fr. emend. — Syll. VIII, p. 166, X, p. 5, XI, p. 398.

1. **Lachnea superans** Boud. Bull. Soc. Sc. Nat. de l'Ouest de la Fr. 2835
Nantes VII, fasc. 2, 1897, p. 148, tab. III, fig. 1. — Ascomate sessili, primo cupulari terra subimmerso, dein epigæo ruguloso, pallide fulvo, pilis acutis, septatis, brunneo-fulvis, 30-800 μ . longis, fasciculatis, ad basim subincrassatis, ad marginem longioribus vestito, dein inciso, lobato, contorto, hymenio undulato, plus minusve grosse tuberculoso, colore albido-cinereo aut glaucescente; paraphysibus tenuibus, septatis, ad apicem minus incrassatis, 5-7 μ .

cr., achrois, intus nebulosis; ascis operculatis, cylindrico-clavatis, hyalinis, octosporis, ad basim attenuatis, 250-280 \times 20-25; sporidiis achrois, ellipticis, omnino levibus, intus guttulis duabus maximis, rarius in unam coalitis et guttulis minutis inæqualibus parcioribus præsertim ad medium positis repletis, 23-25 \times 12-13.

Hab. ad terram glareosam secus vias et in carbonariis in Gallia. — Pro genere majuscula, 2 1/2-6 cm. lata, *L. hemisphæricæ* colore et velo etiam similis, sed magis irregularis et sporidiis aliis, levibus, diversa.

2. *Lachnea rubro-purpurea* (Clem.) Sacc. et Syd. *Sepultaria rubro-purpurea* Clem. Bot. Survey of Nebraska IV Lincoln 1896, p. 15. 2837

— Ascomatibus primo urceolatis, dein cupulatis, raro parum scutellatis, extus brunneo-fuliginis, pilis rigidis, concoloribus, pluriseptatis, apice rotundatis, 150-200 \times 8-10 μ . densissime obsitis, margine vix distincte ciliatis; disco dilute rubro-purpureo, 3-5 mm. diam.; ascis cylindræis, jodi ope dilute viridescens, 250 \times 15-18; sporidiis ellipsoideis, verrucosis, biguttatis, monostichis, 23-25 \times 12 1/2; paraphysibus septatis, rubro-purpureis, 3-4 μ . latis, abrupte supra incrassatis, 7 μ . latis.

Hab. ad terram arenosam, Nebraska, Amer. bor. — *L. cubensi* B. et C. affinis.

3. *Lachnea pygmæa* (Clem.) Sacc. et Syd. *Sepultaria pygmæa* Clem. 2838

Bot. Surv. of Nebraska IV Lincoln 1896, p. 14. — Ascomatibus minutissimis, 1/2-3/4 mm. rarius 1 mm. diam., gregariis, carnis, scutellatis, hymenio griseo v. fusco, extus et ad marginem pilis strictissimis brunneis septatis acutis v. sæpe truncatis, 175-250 \times 12 1/2 μ . metientibus obsitis; ascis cylindræis, 125-150 \times 9-10; sporidiis ellipsoideis, levibus, 12 \times 7; paraphysibus numerosis filiformibus.

Hab. ad terram pinguem uliginosam inter filamenta *Lyngbyæ* spec., Nebraska Amer. bor. — *L. bryophila* affinis.

4. *Lachnea pseudocrenulata* (Clem.) Sacc. et Syd. *Sepultaria pseudocrenulata* Clem. Bot. Survey of Nebraska IV, Lincoln 1896, p. 14. 2839

— Ascomatibus profunde concavis, carnis; disco luteo-griseo, extus pallidiore, 5 mm. lato; pilis brevibus, septatis, subhyalinis, 80-100 μ . longis; margine crenulato, pilis fasciculatis; ascis cylindræis, octosporis, 200-225 \times 12-15; sporidiis ellipsoideis, levibus, hyalinis, monostichis, 18 \times 10; paraphysibus filiformibus, superne vix incrassatis.

Hab. ad terram humosam inter filamenta *Lyngbyæ* spec., Nebraska Amer. bor.

5. *Lachnea maranguensis* P. Henn. Pilz. Ostaf. p. 31. — Ascomatibus aggregatis v. sparsis, sessilibus, 6-9 mm. diam., ceraceo-membranaceis, cupulato-hemisphæricis v. irregulariter explanatis, extus dense tomentosus, pilis brevibus, fuscis vestitis; disco levi. glabro, flavo-aurantio: ascis clavatis, stipitatis, obtusis, 8-sporis; sporidiis oblique monostichis, ellipsoideis v. oblongis, hyalino-subflavescentibus, 18-24 × 12-15, episporio minute granulato, 3-4 μ . crasso.

Hab. ad terram udam gregatim in Africa trop. (VOLKENS).

6. *Lachnea Menieri* Boud. Bull. Soc. Sc. Nat. de l'Ouest de la Fr. 2841 Nantes VII, fasc. 2, 1897, p. 147, tab. III, fig. 2. — Ascomate sessili, cupulari, regulari, extus pallido, pilis brevioribus minus fasciculatis, ad marginem vix longioribus, acutis, septatis, brunneo-fulvis, 100-600 μ . longis, 8-10 μ . crassis, intus hymenio glaucescente aut albido-glaucescente; paraphysibus achrois, septatis, tenuibus sed ad apicem clavatis, intus vix spumosis, simplicibus aut ad basin divisis, clava 7-8 μ . lata; ascis cylindricis, operculatis, octosporis, hyalinis, ad basin subattenuatis, 250-280 × 20; sporidiis achrois, primo levibus dein maturis tenuiter verrucosis, intus duabus guttulis oleosis crassis et guttulis minutis, numerosis, inæqualibus fæctis, 18-20 × 10-11.

Hab. in sabulosis silvarum in Gallia. — Media, 1-1½ cm. lata, sessilis. *L. hemisphæricæ* simillima, sed differt pilis brevioribus, colore hymenii magis glaucescente, sporidiis minoribus et diversis.

7. *Lachnea hemisphærioides* Mout. Compt. rend. Bull. Soc. Roy. Bot. 2812 Belg. XXXVI, 1897, 2 part. p. 21, tab. A, fig. 10. — Ascomate cupulato urceolato, dein hemisphærico-concavo, 5-15 mm. diam., extus præsertim marginem versus pilis simplicibus, rectis, fuscis, pluriseptatis, sursum sensim attenuatis, 10 μ . crassis, ¼-½ mm. longis, vestito; hymenio concavo, albo-glaucescente; ascis cylindraceis, jodio non cærulescentibus, 8-sporis, 200 × 10; paraphysibus hyalinis, linearibus, 2 μ ., septatis, apice vix incrassatis, ascos æquantibus; sporidiis monostichis, ellipticis, levibus, 13-15 × 7-8, utrinque guttula oleosa mediocri præditis.

Hab. ad terram carbonaceam in pinetis pr. Liège Belgii. — *L. hemisphæricæ* ad spectu, sed statura minore, pilis minus densis et dilutioribus, sporidiisque omnino diversa.

8. *Lachnea grisea* (Clem.) Sacc. et Syd. *Sepultaria grisea* Clem. Bot. 2843 Surv. of Nebraska IV, 1896, p. 13. — Ascomatibus subterraneis gregariis, sæpius confertis, hemisphærico-cupulatis, extus pilis paucis septatis flexuosis, pallide brunneis v. isabellinis apicem versus

hyalinis 150-400 \times 6-7 metientibus tectis, brunneo-ochraceis, 3-4 mm. latis; hymenio griseo; ascis late cylindraceis octosporis, 200 \times 15-20, paraphysibus clavatis, apice 7-8 μ . crassis obvallatis; sporidiis ellipsoideis, levibus, 1-2-guttatis, monostichis, 20-25 \times 12 $\frac{1}{2}$ -15.

Hab. ad terram arenosam inter muscos, Nebraska Amer. bor.

9. *Lachnea bicuspis* Boud. Bull. Soc. Myc. de Fr. 1896, p. 11, t. III, 2844 fig. (*Giliaria*). — Sparsa aut aggregata, minuta, 1-3 mm. lata, albido-glauca, receptaculo hemisphærico, marginato, pallido, extus pilis longis, sparsis, intense fuscis, acutissimis, septatis continuisve, ad basim sæpius longè et acute productis, ad marginem membranaceum longioribus, 200-600 μ . (sine append.), 300-800 μ . (cum app.), 13-16 μ . crassis; hymenio plano aut in adultis parum convexo, albido-cæsi; paraphysibus gracilibus, ramosis, ad apicem non crassioribus, 3 μ . crassis; ascis operculatis, octosporis, ad basim paululum attenuatis, 250-300 \times 16-17; sporidiis achrois, levibus, breviter ellipticis, intus primo granulosis, dein evidenter biguttulatis, sed guttulis crassis tamen subobliteratis, 16-18 \times 12-13.

Hab. ad terram giareosam in silvis pr. Montmorency, Gallia.

10. *Lachnea bryophila* (Clem.) Sacc. et Syd. *Sepultaria bryophila* Clem. 2845 Bot. Survey of Nebraska IV, Lincoln 1896, p. 13. — Ascomatibus gregariis, hemisphæricis, dein profunde scutellatis; pilis septatis, fuscis, obtusis v. acuminatis, 250-400 \times 8-10; disco concavo, griseo, 1-2 mm. lato, roseo-tinoto; ascis cylindraceis, octosporis, 250-300 \times 12-14; sporidiis ellipticis, hyalinis, levibus, minute biguttulatis, 16-20 \times 10-12; paraphysibus guttulatis, filiformibus, 3-4 μ . latis.

Hab. ad terram arenosam inter muscos, Nebraska, Amer. bor.

— Ad *Lachneam creteam* Cke. accedit.

11. *Lachnea aspera* (Clem.) Sacc. et Syd. *Sepultaria aspera* Clem. 2846 Bot. Surv. of Nebraska IV, Lincoln 1896, p. 12. — Ascomatibus late cupulatis, partim subterraneis, ceraceo-carnosis, pilis brevibus crassis flexuosis, fumosis, e 3-6 cellulis compositis, 80-200 \times 12-15 tectis, castaneis, margine irregulariter 3-4-lobato; hymenio badiocastaneo; ascis cylindraceis jodo non cœrulescentibus, 200 \times 12 $\frac{1}{2}$ -15; sporidiis fuscoide-ellipticis, monostichis, 2-3-guttatis, hyalinis, prominenter tuberculis v. verrucis obsitis, 25 \times 12 $\frac{1}{2}$; paraphysibus totis fusco-olivaceis, clavulatis, 7-8 μ . crassis.

Hab. ad terram umbrosam, Nebraska Amer. bor. — Ascema 3 cm. altum, 2 cm. latum. *L. fusicarpæ* affinis, sed margine lobato, pilis sparsis sporidiisque tuberculatis distincta species.

12. *Lachnea aurantia* (Clem.) Sacc. et Syd. *Sepultaria aurantia* Clem. 2847

Bot. Survey of Nebraska IV, 1896, p. 12. — Ascomatibus subhypogæis, hemisphærico-cupulatis, extus fusco-brunneis; pilis numerosis, longissimis, septatis, concoloribus, 500-600 \times 10; disco dilute aurantiaco, 5-7 mm. lato; ascis anguste cylindræis, longe stipitatis, jodo non cœrulescentibus, 250 \times 8-10; sporidiis ellipsoideis, levibus, monostichis, uniguttulatis, 16-18 \times 8-9; paraphysibus filiformibus, aurantiaco-granulosis, 2 1/2 μ . latis.

Hab. ad terram inter foli emortua, Nebraska, Amer. bor. — *L. lapidariæ* Cke. similis.

13. *Lachnea cinerella* Rehm, Discomyc. 1896 p. 1243. — Ascomatibus confertissimis, e mutua pressione pluries impressis, primitus globosis, clausis, dein apertis ac discum urceolatum demum scutellatum, luteolum nudantibus, marginem versus pilis simplicibus, rectis, septatis, obtusis, basi brunneolis sursum hyalinis, 100-180 \times 9-10 (basi) dense munitis, 2-4 mm. latis, carnosio-mollibus, contextu parenchymatico, brunneolo; ascis cylindræis, apice rotundatis, 250 \times 12, octosporis; sporidiis ellipticis, obtusis, levibus, unicellularibus, hyalinis, 15-18 \times 10-12, monostichis: paraphysibus filiformibus, 3 μ . crassis, hyalinis.

Hab. in cinere ad Berolinum Germaniæ (Sydow).

14. *Lachnea pediseta* (Clem.) Sacc. et Syd. *Sepultaria pediseta* Clem. 2849
Bot. Survey of Nebraska IV, Lincoln, 1896, p. 13. — Ascomatibus gregariis v. cæspitosis, primo hemisphæricis, vix apertis, dein scutellatis, extus tomentoso-tuberculatis, tuberculis pallide luteis, e cellulis agglutinatis 20-25 μ . diam. compositis; setis sparsis, longissimis, strictis, valde attenuatis, pallide fuscis; 9-10-septatis, 450-500 \times 18 (basi), apice 5 μ . cr., solitarie e tuberculis oriundis; disco dilute aurantiaco, extus pallidiore, 3-5 mm. diam.; ascis cylindræis, jodi ope non cœrulescentibus, 175 \times 10; sporidiis ellipsoideis, levibus, monostichis, 15 \times 8; paraphysibus sursum vix latioribus, apice 5 μ . latis, viridulis.

Hab. in fimo equino, Nebraska, Amer. bor. — *Lachnea dalmeniensi* Cke. similis.

15. *Lachnea nivalis* (Boud.) Sacc. et Syd. *Ciliaria nivalis* Boud. Bull. 2860
Soc. bot. Fr. 1894, p. CCXL. Bull. Soc. Mycol. Franc. 1895, p. 29 tab. II, fig. III. — Ascomate marginato, hemisphærico v. applanato, sessili, extus pallidiore, 1 cm. circiter lato; pilis fuscis, septatis, acutis, ad marginem longioribus, 600-1200 \times 30-40 (ad basim); hymenio rubro-aurantiaco; paraphysibus septatis, ad apicem rufescentem clavatis et sæpius vage nebulosis, clava 7-10 μ . crassa;

ascis hyalinis, octosperis, operculatis, cylindricis, ad basim paululum attenuatis, 300-350 \times 25; sporidiis ellipticis, albis, intus guttulis oleosis repletis, 25-30 \times 17-18, junioribus levibus, maturis episporio minutissime verruculoso.

Hab. ad sterces vaccinum in pratis turfosis, Simplon Helvetiæ (DUMÉE)

16. *Lachnea samoensis* P. Henn. Engl. Jahrb. XXIII, 1896, p. 289. 2351

p. 289. — Ascomatibus sparsis, sessilibus, tenuibus, cupulato-explanatis, flavo-brunneis, 4-6 mm. diam., extus pilis brunneis. subulatis, usque ad 500 μ . longis, basi 30-40 μ . crassis, apice obtusis vel acutiusculis tectis; disco applanato, albedo; ascis cylindraceis, stipitatis, apice rotundato-obtusis, 8-sporis, ca. 130-160 μ . longis; paraphysibus filiformibus; sporidiis monostichis, ellipsoideis, utrinque obtusis, hyalinis vel subflavescentibus, intus granulato-punctatis, 15-18 \times 10-12, episporio granuloso-verruculoso.

Hab. ad cortices in ins. Upolu ins. samoens. (REINKE).

17. *Lachnea punicea* (Clem.) Sacc. et Syd. *Sepultaria punicea* Clem 2352

Bot. Survey of Nebraska IV, Lincoln 1896, p. 14. — Ascomatibus subgregariis, superficialibus v. leniter innatis, primo hemisphaericis, clausis, dein anguste apertis, ore setis dense vestito, extus setis densissimis, brunneis, septatis, acutis, 300-400 \times 16-20 obsitis; disco dilute minato, $\frac{1}{2}$ -2 mm. diam.; ascis cylindraceis. 225-230 \times 10-14; sporidiis ellipticis, levibus, hyalinis, monostichis 10-12 \times 7-9; paraphysibus filiformibus clavulatis, granulis aurantiacis dense repletis.

Hab. in ligno putrido, Nebraska, Amer. bor.

18. *Lachnea Balnei* Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2353

pag. 39, fig. 29. — Gregaria v. aggregata, superficialis, sessilis, primo globosim clausa, demum patellariter aperta, olivascens, pilis firmis, setaceis, marginalibus, 0,2-1 mm. longis, demum 18-30 μ . crassis, ceteris circ. 200 \times 10-12 μ ., septatis, fuscis dense obsessa, disco applanato v. sæpigissime convexo, ochroleuco v. fere avellaneo, 2-4 mm. lata; textura carneo-ceracea partis fundi excipuli et hypothecii fere intricata, hyphis dense septatis, oculis infatis, irregularibus composita, in partibus extremis parietis excipuli globulosa; ascis 8-sporis, fere sessilibus, sursum rotundatis, 180-210 \times 17-20; sporidiis recte monostichis, ellipsoideis intra ascos sæpe guttula una ornatis, extra ascos endoplasmate granuloso, membrana echinulata (?), 17-20 \times 10-12; paraphysibus filiformibus, simplicibus, parce septatis, sursum fere lanceolatis in clavula 24-

30 × 6-7¹/₂, septo limitata, incrassatis et cum illa ascos superantibus.

Hab. ad ligna fabrefacta madidaque balneorum pr. Nerike Sueciæ. — Inter *Lachneas* disco pallido *L. erinaceæ* proxima est, quacum multis notis congruit, pilis autem septatis, colore disco, magnitudine pilorum differre videtur. A. *L. sublicida* Sacc. pilis fuscis, ascomatibus minoribus sporidiisque satis divergit. Jodi ops nulla.

19. *Lachnea jaluitensis* P. Henn. Notizbl. Koenigl. Bot. Gart. u. Mus. Berlin 1897, n. 7, p. 229. — Lignicola, sessilis, applanata, miniata, 3-4 mm. diam., extus versusque marginem setosa, setis simplicibus, subulatis, septatis, rufo-brunneis, 250-350 × 15-24, introrsum glabris; ascis cylindræis, apice rotundatis, 8-sporis, 150-200 × 15-18; paraphysibus filiformibus, 3-4 μ . crassis, apice clavatis, 5-6 μ . crassis, flavido-granulosis; sporidiis oblique monostichis, ellipsoideis, hyalinis, verrucosis, 16-19 × 9-12.

Hab. ad ligna putrida, Marshall-Inseln.

20. *Lachnea Jungneri* P. Henn. Fungi camerun. I in Engl. Jahrb. XXII, 1895, p. 74. — Ascomatibus sessilibus, ceraceo-carnosis, cupulato-scutellaribus v. discoidæis, 3-5 mm. diam., intus pallidis, levibus, extus rufo-brunneis, setis concoloribus, rigidis, circiter 1 mm. longis; ascis cylindræo-clavatis, obtusis, stipitatis, octosporis, 170-210 × 13-17; sporidiis oblique monostichis, ellipsoideis, obtusis, hyalinis, granulato-subreticulatis, sæpe grosse guttulatis, 17-24 × 10-12, episporio minute granulato, 1 μ . crasso; paraphysibus filiformibus.

Hab. ad ligna putrida, Kamerun (JUNGNER).

NEOTTIELLA Cooke — Syll. VIII, p. 190, XI, p. 400.

1. *Neottiella zonulata* (Roll.) Sacc. et Syd. *Arachnoscyptha zonulata* Roll. Bull. Soc. Myc. 1898, p. 83, t. IX, f. 4. — Gregaria, hyalina, eximie et subtiliter ciliata; ascomate turbinato, sicco plano v. subcavo, udo hemisphærico, tumido, hyalino, 0,5 mm. lat.; ascis clavatis, breve obtuseque stipitatis, ad apicem attenuatis, 80 × 12, octosporis; sporidiis 2-3-stichis, cylindricis deorsum leviter tenuatis, flavidulo-piuri-guttulatis, hyalinis, 28-30 × 4; paraphysibus filiformibus, ramosis.

Hab. ad conos putres Pini maritimæ prope Corte Corsicæ. — Pili ascomatis cuspidati, rigidi, crebre septati, 100-120 × 3. Ascorum apex jodi ope cærulescit.

2. *Neottiella Hetieri* Boud. Bull. Soc. Myc. de Fr. 1896, p. 12, t. III, 2857
fig. 2. — Minuta, 1-2 mm. lata; ascomate hemisphærico aut cono-
oaviusculo, aurantiaco, marginato, extus tomentoso et pilis hyalinis
ad marginem longioribus dupliciformibus: his septatis rigidis,
acutis, 150-200 \times 7-10: illis continuis gracilioribus, 200-250 \times 4-5,
hymenio aurantiaco; paraphysibus vix septatis, ad apicem clavatis,
intus granulatis aurantiacis repletis, clavulis 3-6 μ . crassis; ascis
cylindricis, octosporis, operculatis, ad basim paululum attenuatis,
200-210 longis, 15-17 crassis; sporidiis hyalinis, levibus, ellipticis,
16-19 \times 7-11, intus guttula crassa præditis.

Hab. in montibus Juræ ad terram adustam inter muscos
(HETIER).

SCLEROTINIA Fuck. — Syll. VIII, p. 195, X, p. 6, XI, p. 401.

1. *Sclerotinia infundibuliformis* Peck, Bull. Torr. Bot. Cl. XXIII, 2858
1896, p. 420. — Ascomatibus tenuibus, regulariter infundibulifer-
mibus, glabris, stipitatis, rugosis, 7-9 mm. latis altisque, badiis; hy-
menio levi, badio; stipite circiter 1 $\frac{1}{3}$ cm. longo, gracili, flexuoso,
deorsum attenuato, badio, interdum basim versus obscuriore, e scler-
otio minuto, rugoso, nigro oriundo; ascis cylindræcis, octosporis,
130-160 \times 10 $\frac{1}{2}$ -13; sporidiis ellipticis, 13 \times 6 $\frac{1}{2}$; paraphysibus
filiformibus, apice leniter incrassatis.

Hab. in ligno putrido, Newfoundland, Amer. bor. (WAGHORNE).

2. *Sclerotinia Johansonii* Starb. Bih. K. Sy. Vet. Ak. Handl. XXI, 2859
1895, III, n. 5, pag. 37, fig. 27. — Singula vel 2-3 cæspitosim
vel solitarie e sclerotio magnitudine et forma valde variabili, ple-
rumque polygono, interdum elliptico v. sphaeroideo v. lenticulari,
primo foliis languescentibus velato, mycelio arachnoideo plus mi-
nusve cincto, intus albido, extus opace nigerrimo, deinde emergen-
te, sicco rugoso-plicato, erumpentibus, initio globosis, clausis, deinde
cupularibus v. planiusculis, tenuibus, vix marginatis, alutaceo-
ochraceis, 2-5 mm. latis, stipite firmulo, flexuoso, basim versus
nigricante, 1-20 mm. longo præditis; ascis 8-sporis, cylindræcis
v. cylindræco-clavatis, sursum rotundatis, 90-110 \times 6-8, sporidiis
in suprema parte asci sitis, oblique monostichis, ellipsoideis v. fere
ovoideis, 6-8 \times 4-5; paraphysibus numerosissimis, filiformibus, ad
basim flexuosis, ramulosis, sursum sensim latioribus, 3 μ . crassis.

Hab. inter folia languescentia Arabidis alpinæ in horto
bot. Upsaliensi Suecic. — *S. Candolleana* proxima, sclerotii præ-
sertim differt. Asci jodi ope ad apicem lenissime cœrulescunt.

CIBORIA Fuck. — Syll. VIII, p. 201, XI, p. 402.

1. **Ciboria Liquidambaris** Ell. et Ev. Proc. Acad. Philad. 1895, p. 428. 2860
 — Ascomatibus gregariis, stipitatis, 4-5 mm. altis, 2 mm. latis, orbicularibus, siccis convexis et brunneolis, margine pallidiore; stipite albo v. sordide albido, puberulo; ascis clavatis, stipitatis, 75-80 \times 7-8; sporidiis subdistichis, oblongis, hyalinis continuis 8-11 \times 3; paraphysibus filiformibus.

Hab. in capsulis dejectis Liquidambaris, Delaware, Amer. bor. (COMMONS).

2. **Ciboria gemmincola** Rehm, Discomycet. p. 1233, Wagner in Hedw. 2861
 1895, p. 212 cum icone. — Ascomatibus gregariis calyciformibus, primitus clausis dein apertis, extus glabris, 1-5 mm. latis, castaneis, in sicco obscurioribus plicatisque, ceraceis; disco urceolato v. patellato, brunneo. Stipite cylindraco 1-3 mm. longo, $\frac{1}{2}$ mm. crasso, castaneo; ascis clavatis apice rotundatis, jodii ope cœrulescentibus, 50-65 \times 8-9, octosporis; sporidiis oblongis rotundatis, reticatis, unicellularibus, distichis, hyalinis, 8-9 \times 3 $\frac{1}{2}$; paraphysibus laxè dispositis filiformibus, 3 μ . latis, hyalinis.

Hab. in gallis putridis Cynipis gemmæ in Saxonia (WAGNER).

HELOTIUM Fr. — Syll. VIII, p. 210, X, p. 6, XI, p. 402.

1. **Helotium camerunense** P. Henn. Fungi camerun. I, in Engl. Jahrb. 2862
 XXII, 1895, p. 73. — Ascomatibus gregariis, stipitatis, aurantiis; cupula primo convexula, dein discoidea, plana, margine undulato-repanda, disco aurantio, extus pallidiore, subpruinoso, 2-3 mm. lato; stipite flavo, 1-2 mm. longo, vix 0,5 mm. crasso, subcurvato; ascis clavatis, apice rotundatis, vix stipitatis, 8-sporis, 120-140 \times 11-14; sporidiis subdistichis v. oblique monostichis, longe fuscoides, curvulis, apicibus acutis, primo guttulatis, dein obsolete septatis, hyalinis v. subflavescentibus, 24-29 \times 4-6; paraphysibus filiformibus, guttulatis, apice subclavatis, rotundatis.

Hab. ad ramos putridos, Kamerun (DUSÈN).

2. **Helotium subturbinatum** P. Henn. Hedw. 1897, p. 233. — Asco- 2863
 mate subturbinato, cupulato-explanato, brunneo, extus pallidiore, levi, 1-2 mm. diam.; stipite subclavato, vix 1 mm. longo, 0,5 mm. crasso, prunoso; ascis cylindraco-subclavatis, substipitatis, 8-sporis, 100-140 \times 11-14; paraphysibus superantibus, filiformibus, septatis, fuscidulis, 1-2 μ . crassis; sporidiis subclavatis v. subfusoides, oblique monostichis, hyalinis, intus pluriguttulatis, 19-24 \times 5-6.

Hab. ad ramos pr. Blumenau Brasiliae (MÖLLER).

3. **Helotium aurantio-rubrum** Bres. Hedw. 1896, p. 295. — Ascomatibus stipitatis, ceraceo-tenacellis, glabris, aurantiacis, disco plano-concavo, aurantio-rubro, 2-4 mm. lato; stipite tereti, 3-4 mm. longo, $\frac{2}{3}$ mm. crasso, basi nigricante; ascis cylindræis, utrinque attenuatis, 180-200 \times 12-14; paraphysibus filiformibus, ramosis, 2 μ . latis; sporidiis navicularibus, interdum uno latere apiculatis, demum uniseptatis, 22-30 \times 8. 2864

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER). — Forte huc aucendum est *Helotium Buccina*.

4. **Helotium fulvum** Boud. Bull. Soc. Mycol. de France 1897, p. 16, tab. III, fig. III. — Minutum, musciculum, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latum et altum, stipite plus minusve longo suffultum, vix marginatum, extus glabrum, hymenio convexo aut plano paululum saturatiore; stipite æquali aut deorsum attenuato, colore intensiore præcipue ad basim; ascis clavatis amplis, inoperculatis, ad basim attenuatis, hyalinis, octosporis, 150-200 \times 17-18; sporidiis oblongo-ellipticis, albis, rarius curvulis, apicibus obtusis, intus granulis variæ magnitudinis repletis, 16-21 \times 7-10; paraphysibus fulvis, vix septatis, simplicibus, rarius divisis, ad apicem subcrassioribus, 3-4 μ . spissis. 2865

Hab. ad muscos minores, axillis foliorum innascens, locis arenosis secus vias in silvis Galliæ.

5. **Helotium Cuniculi** Boud. Bull. Soc. Mycol. de France 1897, p. 16, tab. III, fig. IV. — Pro genere medium, stipitatum, 2-3 mm. latum et totidem altum, extus leve, luteo-ochraceum, pediculo concolore crasso, deorsum attenuato, hymenio saturatiore aliquoties sublateritio et margine fulvo cincto; ascis elongato-clavatis, inoperculatis, hyalinis, octosporis, 200-230 \times 12-13; sporidiis oblongo-fusiformibus, albis, intus granulis inæqualibus pluribus ad extremitates positis repletis, continuis, dein medio uniseptatis, 16-20 \times 6-7; paraphysibus tenuibus, elongatis, ad apicem crassioribus, ad basim divisis et subseptatis, intus granulis minutis nebulosis, 4-5 μ . crassis. 2866

Hab. in silva ad fimum Cuniculorum in Gallia.

6. **Helotium viridiflavescens** Karst. Hedw. 1896, p. 46. — Ascomatibus sessilibus, ceraceis, mollibus; cupula orbiculari, subinde margine repanda, convexa, pertenui, nigrescente, sicca extus fuliginea epithecioque flavicante, 300-400 μ . lata; excipulo parenchymatico-contexto, fuligineo; ascis cylindræo-subclavatis, 45 \times 3-4; sporidiis octonis, elongatis, rectis, continuis, hyalinis, 4-5 \times 1; paraphysibus parum notabilibus. 2867

Hab. in cortice Alni incanæ, Mustiala Fennicæ.

7. **Helotium subcastaneum** P. Henn. in litt. *Helotium castaneum*. P. 2868
Henn. in Hedw. 1897, p. 233, nec Sacc. et Ell. — Ascomate e convexo explanato, margine undulato, disco castaneo, levi, extus pallide alutaceo, subfarinoso, 3-5 mm. diam., 100-130 μ . crasso; stipite farcto, tereti, pallido, $1\frac{1}{4}$ -2 mm. longo, vix 0.5 mm. crasso; ascis cylindraceo-clavatis, apice rotundatis, basi stipitato-attenuatis, 34-45 \times 4-5; sporidiis oblongo-subcylindræis, obtusiusculis, hyalinis, $4-4\frac{1}{2}$ \times $1\frac{1}{2}$, oblique monostichis.

Hab. ad ramos pr. Blumenau Brasiliæ (MÖLLER). — Habitu externo *Helotio cupreo* Bres. valde affine, sed notis microscopicis diversum.

8. **Helotium myriadeum** Karst. Hedw. 1896, p. 46. — Ascomatibus 2869
confertim gregariis, sessilibus, ceraceis, convexis, immarginatis, nudis, albis vel albidis, 200 μ . circiter latis; stipite papilliformi; ascis cylindræo-clavatis, 40-45 \times 3; sporidiis octonis, elongatis, rectis v. curvulis, continuis, vulgo guttulatis, hyalinis, $4-5$ \times $\frac{1}{2}$ -1; paraphysibus parum notabilibus.

Hab. supra corticem Populi Tremulæ, in agro Mustialensi, Fennia.

9. **Helotium cupreum** Bres. Hedw. 1896, pag. 295. — Ascomatibus 2870
plano-infundibuliformibus v. convexo-umbilicatis, 4-5 mm. latis, cupreis, extus dilutioribus; stipite basi attenuato, concolori, deorsum fusciscenti, 2-3 mm. longo, vix 1 mm. crasso; substantia concolori, ceraceo-membranacea; ascis cylindræo-subclavatis, basi stipitato-attenuatis, 80-90 \times 4-5; sporidiis elongato-subclavatis, 6-8 \times 2-2 $\frac{1}{2}$.

Hab. ad ligna pr. Blumenau Brasiliæ (MÖLLER).

10. **Helotium carpnicolum** Rehm, Hedw. 1896, p. 146. — Ascoma- 2871
tibus gregariis, brevissime stipitatis, primitus clausis, dein disciformiter apertis, planis, denique subconvexis, rotundis, tenuissime marginatis, lacteo-flavidulis, extus glabris, subhyalinis, subprosenchymatice contextis, 1-3 mm. lat., siccis vix corrugatis, flavis; ascis clavatis, apice rotundatis et incrassatis, 60-90 \times 12. 8-sporis; sporidiis subfusiformibus, subobtusis, rectis vel subcurvatis, 1-cellularibus, utroque apice nucleolo oleoso, hyalinis, 12-15 \times 4-5, distichis; paraphysibus filiformibus, hyalinis, 3 μ . lat.

Hab. ad folia putrida Carpini Betuli et Fagi silvaticæ prope Berolinum Germaniæ (SYDOW). — Colore ascomatum atque sporidiis biguttulatis a speciebus affinibus diversum.

11. *Helotium flexuosum* Mass. British Fungi, IV, pag. 263. — Asco-²⁸⁷²
matibus gregariis v. sparsis, subsessilibus v. in basim brevissimam
stipitiforem attenuatis, primo clausis, mox apertis planisque, mar-
gine sæpe flexuoso, superficie plus minusve undulata; disco ob-
scure aurantiaco v. rarius dilute luteo, subtus glabro ac luteo-albo,
 $\frac{1}{2}$ - $1\frac{1}{2}$ mm. diam.; excipulo hyalino; hypothecio hyalino, ex hyphis
firmis dense intricatis composito; ascis anguste cylindrico-clavatis
apice leniter attenuatis, octosporis; sporidiis irregulariter distichis
hyalinis, continuis, levibus, rectis v. lenissime curvulis, $8-10 \times 1\frac{1}{2}$;
paraphysibus gracilibus, hyalinis, apice lenissime incrassatis.

Hab. in culmis *Dactylidis* etc. in Britannia.

12. *Helotium spathicolum* P. Henn. Fungi camerun. I, in Engl. Jahrb. ²⁸⁷³
XXII, 1895, p. 74. — Ascomate longipedicellato, tenui, disciformi
v. subcupulato, margine undulato, $1-1\frac{1}{2}$ mm. diam., disco griseo-
flavo; stipite gracili, setiformi, obscuriore, 2-3 mm. longo; ascis
cylindraco-clavatis, stipitatis, 8-sporis, $45-55 \times 6-8$; sporidiis sub-
fusoidis, oblique monostichis, hyalinis, $6-7 \times 2-2\frac{1}{2}$.

Hab. in vaginis putridis foliorum, Kamerun (ZENKER et STAUDT).

13. *Helotium subaurantiacum* P. Henn. in litt., *Helotium aurantia-* ²⁸⁷⁴
cum P. Henn. in Fungi camerun. I, in Engl. Jahrb. XXII, 1895,
p. 73. — Ascomatibus stipitatis, aurantiacis, extus farinaceo-to-
mentosulis, disco concavo, appanato, glabro, vix 1 mm. d., mar-
gine farinoso, involuto; stipite gracili, tomentosulo, flavo-auran-
tiaco, vix curvato, usque ad 1 mm. longo; ascis cylindracois, ob-
tusis, octosporis, $45-60 \times 4-5$; sporidiis monostichis, ellipsoideis,
hyalinis, $3-4\frac{1}{2} \times 2-2\frac{1}{2}$; paraphysibus filiformibus, ascos supe-
rantibus.

Hab. ad truncos et petiolos *Filicum*, Kamerun (JUNGNER).

PHIALEA Fr. — Syll. VIII, p. 251, X, p. 9, XI, p. 403.

1. *Phialea bicolor* Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, ²⁸⁷⁵
III, n. 5, p. 33, fig. 26. — Solitaria, sparsa, vix gregaria, primi-
tus sphæroidea, clausa, immersa, deinde erumpens, turbinata vel
crasse breviterque stipitata, cupulariter margine crassiuscula, a-
perta, rugosiuscula, fumoso-fuliginea v. umbrina, disco pallide ro-
seo vel roseo-albido, sicca sæpissime a lateribus compressa, hyste-
rioidea, fusca vel interdum fere atrata, $0,5-1$ mm. diam.; textura
partis supernæ parietis typice evanescente, in parte autem inferna
fundī excipuli fere intricata; ascis 8-sporis, cylindraco-clavatis,
sessilibus, sursum rotundatis, $50-65 \times 6-8$; sporidiis distichis, fusoi-

deis, rectis v. curvulis, utrinque acutiusculis, guttulis apicalibus duabus sæpe ornatis (12-) 17-22 \times 2-5 $\frac{1}{2}$; paraphysibus filiformibus v. filiformi-clavatis, superne 3-4 μ . crassis.

Hab. in caulibus aridis Loti corniculati pr. Drübak Norvegiæ. — *Ph. hysteroïdi* Rehm affinis, sed plane differt præsertim sporidiorum forma modisque. Jodi ops nulla.

2. **Phialea ambigua** Bres. et P. Henn. Hedw. 1896, p. 295. — Ascomati- 2876
bus breviter stipitatis, plano-concavis, 2-4 mm. latis, extus griseolis, puberulis, disco albido-griseo; stipite brevi, griseo-fuscido, puberulo. $\frac{1}{2}$ mm. circiter longo crassoque; ascis cylindræco-subclavatis basi attenuato-flexuosis, 80-90 \times 7-8, jodo poro apicali leviter cærulescentibus; paraphysibus filiformibus, 1 $\frac{1}{2}$ μ . circiter latis; sporidiis elongatis, subcurvulis, hyalinis, primitus biguttulatis, dein granulosis, 10-12 \times 2 $\frac{1}{2}$; pube ascomatis ex cellulis septatis, sub microscopio luteolis, subfusoides, cæspitulosas, 20-25 \times 7-9.

Hab. ad caules herbarum pr. Blumenau Brasiliæ (MÖLLER). — Species ambigua inter *Phialeas* et *Helotia nutans*.

3. **Phialea subhyalina** Rehm, Discomycet. p. 1233. — Gregaria, pri- 2877
mitus calyciformis, dein aperta, extus glabra, nivea, 300-400 μ . lata, in sicco flavescens; disco plano tenuiter marginato; stipite cylindræco, 150 \times 100 μ .; ascis clavatis, apice obtuse acuminatis, ibique incrassatis, 100-110 \times 9-10, jodi ope cærulescentibus, octosporis, paraphysibus filiformibus, laxè dispositis, 2 μ . crassis obvallatis; sporidiis fusoides, rectis v. leniter curvulis, unicellularibus, hyalinis, 14-18 \times 5, distichis; excipuli contextu prosenchymatico, hyalino.

Hab. ad petiolos putrescentes Aceris Pseudoplatani in Saxonia (WAGNER).

4. **Phialea nigriflula** Rehm, Discomycet. p. 1233. — Gregaria vel fa- 2878
sciculata, subsessilis, primo globoso-clausa, dein aperta, in stipitem tenuem, 150 μ . longum attenuata, 200-300 μ . lata, extus glabra brunneola, in sicco nigriflula; disco patelliformi, crasse marginato; ascis clavatis, apice rotundatis, 90-100 \times 6-7, octosporis, jodi ope cærulescentibus; sporidiis distichis vel etiam tristichis, rectis vel subcurvatis, subacicularibus, hyalinis, 15-18 \times 1 $\frac{1}{2}$, tandem bicellularibus; paraphysibus filiformibus hyalinis, 3 μ . crassis.

Hab. in acubus putridis Pini silvestris in Saxonia (WAGNER).

5. **Phialea fumosellina** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2879
p. 34, fig. 25. — Gregaria, primitus obconice v. globosim clausa,

deinde aperta, applanata, tenuiter marginata, stipite firmo, striatula v. fere striatulo-squamulosa, caesio-fusco-pruinosa, disco excipulo pallidiore, fusco-umbrino, vel magis evoluto, fusco-cinereo v. interdum fere ochraceo-griseo, siccitate margine connivente; stipite sæpe flexuoso; textura excipuli obsoleta, deorsum autem membranaceo epidermica; ascis 8-sporis, lineariter clavato-cylindræis, sursum acutiuscule obtusatis, 90-100 \times 4-5; sporidiis distichis, aciculari-fusoideis, rectis v. inæquilateralibus, multiguttulatis (an semper?), 16-20 \times 2; paraphysibus numerosissimis, gracillimis, filiformibus, ascos superantibus.

Hab. ad acus languas. A bietis, Oestergötland Sueciæ (HAGLUND).

— Totus fungus atrò-fuscus v. fere nigricans, 0,5-1 mm. latus, cum stipite æque altus.

6. *Phialea minutula* Sacc. Malpighia XI, 1897, p. 268. — Ascomatibus gregariis, concavo-cyathoideis, perexiguis, 0,3-0,5 mm. diam., breve stipitatis, ceraceis, totis albo-cremeis, glabris, margine in sicco incurvo fimbriatulo; stipite cupulæ diam. subæquante, crassiusculo; ascis cylindræis, deorsum acutatis, 30-36 \times 5, octosporis, filiformi-paraphysatis; sporidiis distichis, fusoideis, curvulis v. rectis, 6-7 \times 1-1 $\frac{1}{2}$, continuis, hyalinis.

Hab. in caulibus emortuis Cirsii in Italia boreali (CARESTIA).

7. *Phialea Starbäckii* Rehm, Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2881 III, n. 5, p. 33, fig. 24. — Sparsim gregaria, primo plane globulosa, clausa, deinde ore orbiculari, albide tenerrimeque marginato aperta, sphæroideo-cupulata, sioca vix contracta, stipite firmulo cupula vix longiore prædita, sordide albescens v. pallide fuscescens, disco paullo pallidiore, præsertim marginem versus rugosiuscula v. villosula, 0,2-0,5 mm. lata, una cum stipite 0,4-1 mm. alta; textura fere omnino evanescente; ascis 8-sporis, anguste clavatis, pedicellatis, sursum rotundatis, 35-45 \times 5; sporidiis distichis v. oblique monostichis, cylindricis v. fusiformibus, interdum guttulatis, simplicibus, hyalinis, 5-8 \times 1 $\frac{1}{2}$ -2; paraphysibus numerosis, filiformibus, obtuse acutiusculis, ascos paullo superantibus, 2-3 μ . latis.

Hab. ad caules aridos Umbelliferarum pr. Dråbak Norvegiæ. — *Ph. glanduliformi* Rehm proxima. Cupula præsertim ad marginem crystallis calcio-oxalatis incrustata.

8. *Phialea violascens* Rehm n. sp. in litt. — Ascomatibus sparsis, 2882 primitus globosis, dein urceolatis, demum disco plano tenuissime marginato, 0,3-1,2 mm. diam., glabris, albo-violaceis, stipite tenuissimo fuscidulo usque ad 1 mm. alto, $\frac{1}{4}$ mm. crasso, mollibus; ascis

o cylindraceis, rotundatis, octosporis; sporidiis ellipticis, haud gutturalis, unicellularibus, hyalinis, distichis, 8-10 \times 4 $\frac{1}{2}$; paraphysibus hyalinis, filiformibus, apice 2 $\frac{1}{2}$ -3 μ . crassis.

Hab. in foliis, filamentis algæ ejusdam omnino tectis, Alni glutinosæ ad Berolinum Germaniæ (SYDOW).

9. **Phialea ampla** Ell. et Ev. Torr. Bot. Cl. 1897, p. 135. — *Gregaria*, stipitata, obconica v. initio clavata, demum expansa, 3-4 mm. diam; disco citrino, extas pallidiore, farinoso-pubescente vel minute striato, margine integro involutoque; stipite firmo, 1-2 mm. longo, in maturitate plerumque diametro disci brevior; ascis clavato-cylindraceis, 110 \times 6, paraphysibus filiformibus obvallatis; sporidiis monostichis ex asco excedentibus, obovatis, hyalinis, 11-12 \times 3 $\frac{1}{2}$ -4. 2883

Hab. in ligno vetusto salicino, Washington Amer. bor. (SUKSDORF). — Margine involuto præcipue a *Ph. citrina* recedens.

10. **Phialea arenicola** Ell. et Ev. Americ. Natur. 1897, p. 426. — *Ascomatibus* stipitatis, concavis, dein planis vel leniter convexis; disco obscure aurantiaco, 2-3 mm. lato, subpruinoso, extus dilutiore; stipite firmo, 2-4 mm. longo, substriato, superne gradatim dilatato, obscure aurantiaco; ascis angustis, linearibus, rectis, breve stipitatis, 60-65 \times 4, paraphysatis, octosporis; sporidiis subdistichis, oblongis, hyalinis, continuis, 6-8 \times 1 $\frac{1}{2}$. 2884

Hab. in terra arenosa, Delaware Amer. bor. (COMMONS). — Difert a *Ph. epigæa* Karst. ascomatibus majoribus et sporidiis multo minoribus.

PEZIZELLA Fuck. — Syll. VIII, p. 275, X, p. 10, XI, p. 405.

1. **Pezizella albo-nivea** Rehm, Discomycet. p. 1231. — *Ascomatibus* gregariis sessilibus, e globoso patellatis, basim versus paululum contractis, extus glabris subcandidis, siccis involutis luteisque. $\frac{1}{3}$ -2 mm. latis, ceraceis; disco tenuiter marginato tardius complicato, undulato-oronulato; contextu prosenohymatico, hyalino; ascis clavatis apice rotundatis, 40-50 \times 6-7, jodo cærulescentibus, octosporis; sporidiis distichis, oblongis, apice obtusis, rectis v. leniter curvulis, unicellularibus, hyalinis, 6-10 \times 2 $\frac{1}{2}$; paraphysibus filiformibus, hyalinis. 5 μ . crassis. 2885

Hab. ad petiolos aridos Robiniæ macrophyllæ ad Berolinum Germaniæ (SYDOW). — An potius varietas *P. dilutelloidis*?

2. **Pezizella minor** (Rehm) Starb. Hedw. 1896, p. (146). — *Ascomatibus* gregariis, sessilibus, disco demum plano tenuissime marginato, 2886

hyphis sparsis hyalinis marginalibus instructis, hyalinellis, extus glabris, in sicco cinerellis, haud corrugatis, 200-250 μ . diam.; ascis clavatis subcurvatis, apice rotundatis, 25-30 \times 5, paraphysibus paucis filiformibus obvallatis, 4-8-sporis; sporidiis fusiformibus, rectis v. subcurvatis, unicellularibus, hyalinis, 8-12 \times 2.

Hab. in foliis Aceris platanoidis et A. Pseudoplatani pluribus locis in Germania, nec non in Suecia.

3. **Pezizella? Lyonsiæ** Cobb in Mc. Alp. Arrang. Austral. Fungi 2887 p. 200 (*Peziza*). — Ascomatibus amphigenis, laxè gregariis, in maculis subrotundis cinereo-griseis insidentibus, sessilibus, applanatis, orbicularibus, coccorum scutella e longinquo imitantibus.

Hab. in foliis Lyonsiæ reticulatæ, 'N. S. Wales Australiæ.

4. **Pezizella Mikaniæ** Rehm, Hedw. 1896, p. (146). — Ascomatibus 2638 sessilibus, sparsis, interdum gregariis, subglobosis, disco plano, carneo, ex fibris rectis, hyalinis vel subflavidulis, c. 1,5 μ . lat., 200-300 μ . long., laxè prosenchymatico-contextis succineis, c. 200 μ . lat.; ascis clavatis, apice rotundatis, 35-40 \times 6-7, octosporis; sporidiis subcylindraceis, rectis, obtusis, 1-cellularibus, interdum nucleolis instructis, hyalinis, 5-6 \times 1,5, 2-3-stichis; paraphysibus filiformibus, hyalinis, laxis, 5-6 \times 2.

Hab. ad paginam inferiorem foliorum vivorum Mikaniæ pr. San Jorge, Prov. Pichincha Æquatoriæ (LAGERHEIM).

5. **Pezizella myriadea** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. 2889 XXXVI, 1897, 2 part. p. 17. — Dense gregaria, 60-100 μ . diam., sessilis, alba, subtus puncto affixa, disco plano vel convexiusculo, contextu hyalino, prosenchymatico, margine in hyphas breves, minute angulosas, 1-2-septatas, teretes exeunte; ascis clavatis, sursum late obtusis, jodo non cærulescentibus, 8-sporis, 35-40 \times 6-7; paraphysibus 2 μ . crassis, sursum paullo incrassatis, hyalinis, ascorum longitudine; sporidiis biseriatis, ovatis vel oblongis, eguttulatis, 5-8 \times 2.

Hab. in foliis dejectis Castaneæ pr. Liège Belgii.

6. **Pezizella rubescens** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. 2890 XXXVI, 1897, 2 part. p. 18. — Ascomatibus gregariis, sessilibus, interdum basi protractis, planiusculis, aquose griseis, siccitate concavis, griseo-virescentibus, contextu glabro hyalino prosenchymatico coriaceo, 0,2-0,4 mm. diam.; ascis clavatis, antice obtusis, obturaculo iodo cærulescente, 8-sporis, 60-70 \times 8; paraphysibus linearibus, septatis, hyalinis, apice paululum incrassatis et nonnullas gut-

tas oleosas includentibus; sporidiis distichis, cylindrico-oblongis, vulgo rectis, utroque fine minute guttulis, $15-18 \times 3 \frac{1}{2}$.

Hab. in foliis putrescentibus *Quercus*, *Castaneæ*, *Betulae*, *Rubi*, *Coryli* pr. Liège Belgii.

7. **Pezizella acerina** Mout. *Compt. rend. Bull. Soc. Roy. Bot. Belg.* 2891
XXXVI, 1897, 2 part. pag. 17, tab. A, fig. 15. — Ascomatibus dense sparsis, sessilibus, orbicularibus, $\frac{1}{5}-\frac{1}{4}$ mm. diam., lentiformibus, hyalino-albidis, in sicco concavis, griseo-fuscidulis et extus albedo-pruinosis, contextu prosenchymatico luteolo, minute puberulis ex hyphis tenuibus, vix 1μ . crassis, brevibus, esepatis, tortuosis, $5-10 \mu$. longis; ascis sessilibus, clavatis, 8-sporis, jodo non cœrulescentibus, filiformi et parve paraphysatis, $38-45 \times 7-8$; sporidiis distichis aut oblique monostichis, ovatis, continuis, eguttulatis, $6-8 \times 3 \frac{1}{2}$.

Hab. in foliis delapsis *Aceris Pseudoplatani* pr. Liège Belgii.

8. **Pezizella pseudopezizoides** Rehm, *Discomycet.* p. 1231. — Asco- 2892
matibus gregariis, in maculis flavescensibus sessilibus, primo globosis, clausis, dein patellatis, subhyalinis, pellucidis, siccis urceolatis, involutis, tenuiter marginatis, ochroleucis v. fuscidulis, $100-250 \mu$. latis, ceraceis, prosenchymatico-contextis; disco patelliformi, tenuiter marginato; ascis clavatis, apice rotundatis, $40-45 \times 6-7$, octosporis, jodo cœrulescentibus; sporidiis ovoideis, unicellularibus, biguttulatis, hyalinis, $5 \times 2 \frac{1}{2}$, distichis; paraphysibus filiformibus, 2μ . crassis, hyalinis.

Hab. ad folia decidua *Euphorbiæ dulcis* in Saxonia Germaniæ (KRIEGER).

9. **Pezizella saxonica** Rehm in *Ascomycetes* exs. fasc. XXIV, n. 1219, 2893
Hedw. 1898, p. (142). — Ascomatibus gregariis, sessilibus, primitus globosis, dein disco appanato, flavidulo, margine tenuissime puberulo, albescente cinctis, extus aquose hyalino-flavidulis, glabris, haud stipitatis, $0,2-1$ mm. diam., siccis corrugatis, extus albescentibus, prosenchymatice contextis, margine distincte fimbriatis; ascis subclavatis, apice subacutatis, octosporis, usque ad 60μ . longis, $2-8 \mu$. latis; sporidiis fusiformibus, obtusis, rectis, guttulis oleosis $2-4$ submagnis præditis, hyalinis, $12 \times 2 \frac{1}{2}-3$, distichis; paraphysibus filiformibus, hyalinis, 2μ . crassis.

Hab. ad caules *Chærophylli* aromatici, Saxonia (KRIEGER). — Ascii jodi ope cœruleo tinguntur. A *P. effugiens* præcipuo ascis sporidiisque majoribus distincta.

10. *Pezizella (Ctenoscypha) helotioides* Starb. Bih. K. Sv. Vet. Ak. Handl. 2894.

XXI, 1895, III, n. 5, p. 32, f. 23. — Gregaria, superficialis; ascomatibus rarissime nonnullis connatis, late sessilibus, primo globosis, clausis, deinde cupulatis, demum patellaribus, margine obtusis, albido-furfuraceis, flavescens, disco fulvo v. sulphureo, siccis saturatoribus, usque ad 1 mm. latis; textura partis parietis excipuli prismatica, textura partis fundi hypothecium versus magis typice globulosa, margine crassa, fere omnino ex filamentis, 40-50 μ . longis, paraphysibus simillimis composita; ascis 8-sporis, clavatis, pedicellatis, sursum rotundatis, 60-70 \times 5-7; sporidiis oblique monostichis v. distichis v. irregulariter ordinatis, fusoideis, utrinque guttula una ornatis et acutatis, simplicibus, hyalinis, 10-14 \times 1 $\frac{1}{2}$ -2; paraphysibus numerosissimis, filiformibus, ramosis, sat firmulis, sursum uncinato-curvatis, ascos obvallantibus.

Hab. in caulibus aridis Lillii Martagonis ps. Venersborg Sueciæ (ELIASSON). — Jodi ops nulla. — Affinis est *P. dilutelloidi* Rehm, ceteris notis exceptis, filamentis marginis dimidio brevioribus differt. In *P. dilutelloidi* ceterum est textura partis fundi excipuli intricata.

11. *Pezizella atomaria* Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 2895

1895, III, n. 5, p. 31. — Sparsa, superficialis, primitus globosa, deinde ore orbiculari aperta, cupulata, vix unquam planiuscula, rugosa, sordide albida v. ochracea, sicca plus minusve contracta, saturate flavescens, 0,1-0,2 mm. lata; textura mollissime ceracea, prismatica; filamentis marginis longiusculis, obclavulatum filiformibus, apice acutatis, hyalinis, 60 μ . longis; ascis 8-sporis, cylindraceis, sessilibus, sursum rotundatis, 40-45 \times 5-6; sporidiis monostichis vel distichis, fusoideis vel ellipsoideo-cylindraceis, 5-7 \times 1 $\frac{1}{2}$ -2; paraphysibus sparsis, filiformibus, vix sursum incrassatulis.

Hab. ad lignum induratum Pini, Oestergötland Sueciæ (HAGLUND). — Species vilis a *P. granulosella* et *P. hyalina*, cui proxima, cupulis minutissimis, sporidiis angustis distincta, a *P. candida* colore cupularum nec non forma filamentorum marginis plane differt.

12. *Pezizella resinicola* Rehm, Compt. rend. Bull. Soc. Roy. Bot. 2896

Belg. XXXVI, 1897, 2 part., p. 16. — Sessilis, primo turbinata, dein applanata, margine tenui, 0,15-0,3 mm. diam., disco albido pruinoso, externa facie sicut contextu fusciscente; ascis subcylindraceis, apice late rotundatis, basi lata, 8-sporis, 50-60 \times 8-10, jodo

non cœrulescentibus; paraphysibus paucis hyalinis, linearibus, 6μ .; sporidiis distichis, elliptico-ovatis, hyalinis, $8-10 \times 3\frac{1}{2}-4$, raro medio tenuiter septatis

Hab. in ramulis dejectis Pini silvestris, præsertim ad cicatrices et nodos, pr. Liege Belgii.

13. *Pezizella (Eupezizella) candida* Starb. Bih. K. Sv. Vet. Ak. Handl. 2897
XXI, 1895, III, n. 5, pag. 30, fig. 16. — Sparsa, superficialis, primo globosa, clausa, deinde irregulariter aperta, deorsum angustior v. obconica, extus rugosiuscula, candida vel bene humectata hyalino-albida, disco æque colorato, siccitate margine connivente, ad basim hyphis paucissimis, hyalinis, repentibus prædita, $0,1-0,25$ mm. diam.; textura prismatica, extrema parte marginis filamentis filiformibus, longissimis, apice obtusatis, circ. 200μ . longis, $2-3 \mu$. latis composita; ascis 8-sporis, cylindræis v. cylindræo-clavatis, sessilibus, sursum rotundatis, $32-40 \times 4-5$; sporidiis distichis v. oblique monostichis, ellipsoideis, inæquilateralibus vel curvulis, plerumque guttulis duabus apicalibus vel interdum pluribus ornatis, demum verisimillime medio septatis, $5-6\frac{1}{2} \times 2\frac{1}{2}-3$; paraphysibus sat numerosis, filiformibus, gracilibus, sursum non incrassatis, $1\frac{1}{2} \mu$. latis.

Hab. ad lignum betulinum, Oestergötland Sueciæ (HAGLUND). — Species a proximis forma ascomatis longissimis filamentis marginis plane distincta. In affini *P. hyalina* illa sunt $40-50 \mu$., in *P. granuloseella* $50-100 \mu$. longa. Jodi ops nulla.

14. *Pezizella anonyma* Rehm, Hedw. 1895, p. (165). — Ascomatibus 2898
gregariis, sessilibus, primitus globosis, dein patellaribus, tenuissime marginatis, demum planis, brevissime tenuissimeque stipitatis, $0,1-0,5$ mm. diam., gelatinoso-mollibus, hyalino-flavidulis, in sicco succineis, prosenchymatice conflatis; ascis cylindræis, apice rotundatis, ca. 45×5 ; sporidiis?; paraphysibus filiformibus, hyalinis, $2\frac{1}{2} \mu$. latis.

Hab. in Auerswaldia Baccharidis Pat. parasitans, Prov. de Pichincha Æquatoris (LAGERHEIM).

PSEUDOHELOTIUM Fuck. — Syll. VIII, p. 291, XI, p. 406.

1. *Pseudohelotium isabellinum* Clem. Bot. Survey of Nebraska IV, 2899
Lincoln 1896, p. 15. — Cupulatum, stipitatum, margine crasso sæpe flexuoso; disco concavo isabellino v. pallide fulvo, subtus pallidior, pilis brevibus, $25-40 \times 8-10$ puberulo, $\frac{1}{2}-2$ mm. diam.; stipite brevi $\frac{1}{2}-\frac{1}{2}$ mm. longo; ascis cylindræis jodo non cœru-

lescentibus, 75-95 \times 6-7; sporidiis monostichis oblongis, 7-12 $\frac{1}{2}$ \times 5; paraphysibus filiformibus, nucleis oleosis magnis omnino repletis.

Hab. in ramis in Nebraska Amer. bor.

2. **Pseudohelotium canadense** E. et Dearn. Proc. of the Canad. Inst. 2900
1897, p. 89. — Ascomatibus sparsis, breve stipitatis, albido-flaviscantibus, 1 mm. diam., puberulis, margine pilis fasciculatim junctis brevibus, albidis fimbriato; excipulo fibroso; disco concavo flavido; ascis clavato-cylindræis paraphysatis, 40 \times 4; sporidiis distichis, oblongis, obtusis, plerumque rectis, hyalinis, 8-12 \times 1,5-2.

Hab. in caulibus emortuis Lappæ officinalis, London, Canada.

3. **Pseudohelotium granulosellum** (Karst.) Sacc., Syll. VIII, p. 303. 2901
— Var. **Sydowii** Rehm, Discomycet. p. 655. — Gregarium, sessile, luteo-albidum, in sicco aureum, extus tenuiter granuloso-asperum, 0,2-0,8 mm. latum; cetera ut in typo.

Hab. in ligno putri pineo pr. Berolinum et Cladow Borussiae (SYDOW). — Ob colorem ascum semper plus minusve luteum a typo præcipue recedens.

PEZICULA Tul. — Syll. VIII, p. 310 et 489, X, p. 11.

1. **Pezicula Callunæ** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. 2902
XXXVI, 1897, 2 part. p. 15, t. A. fig. 12. — Subsessilis, extus nigricans, humida, hymenio convexo, albido, siccitate nigrescente, $\frac{1}{2}$ -1 mm., glabra, contextu parenchymatico fusciscente; ascis subclavatis, 4-8-sporis, 90-100 \times 15, obturaculo jodo violascente; paraphysibus linearibus, septatis, 1 $\frac{1}{2}$ μ . crassis, hyalinis, apice sphaeroideo (10 μ .) incrassatis; sporidiis distichis, oblongis, apicibus obtusis, rectis v. curvulis, plasmate guttulato, continuo, 20-22 \times 6.

Hab. in caulibus emortuis Callunæ vulgaris pr. Liège Belgii. — *P. myrtillinæ* Karst. affinis, sed colore non eadem.

CHLOROSPENIUM Fr. — Syll. VIII, p. 315, X, p. 12, XI, p. 407.

1. **Chlorosplenium striisporum** Ell. et Dearn. Proc. Acad. Philad. 2903
1895, p. 429. — Sessile, hemisphaericum, 1-1 $\frac{1}{2}$ mm. diam., virescenti-luteum, tenue, margine incurvo denticulato, extus verrucososquamosum, intus pallide luteum, contextu carnoso; ascis clavato-cylindræis, p. sp. 70-75 \times 15-20; sporidiis inasco irregulariter confertis, primitus levibus, hyalinis, in maturitate pallide brunneis et in longitudine striatis, 15-20 \times 9-11; paraphysibus filiformibus, ascos superantibus.

Hab. in foliis putrescentibus, Canada (DEARNES).

MOLLISIA Fr. — Syll. VIII, p. 321, X, p. 12, XI, p. 407,

1. **Mollisia umbrina** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2904

III, n. 5, p. 24, fig. 15. — Gregaria vel fere cæspitosa, primum clausa, globosa, deinde cupulariter aperta, mox autem applanata, sessilis vel potius ad basim angustior, fere turbinata, sed non vere stipitata, tenuiter marginata, pallide umbrina v. fulva, disco albido-ochraceo v. isabellino, sicca margine lobata, vix paullum connivente, sæpe fere æque aperta ac humectata, avellaneo-olivacea, 0,2-1 mm. diam.; textura parenchymatica, cellulis ad marginem seriatis paullum attenuatis; ascis 8-sporis, cylindræis, sessilibus, sursum rotundatis et non paullum incrassatis, 25-36 \times 4-5; sporidiis distichis breviter fusoides vel cylindricis, 5-7 \times 1 $\frac{1}{2}$ -2; paraphysibus parvis, filiformibus, firmulis, 2 $\frac{1}{2}$ μ . latis.

Hab. ad caules aridos herbæ maximæ cujusdam, Oestergötland Sueciæ. Jodi ops nulla. — *M. Polygoni* proxima, differt autem jodi reactione, sporidiis ascisque minoribus, nec non colore pallidior siccitate vix mutato.

2. **Mollisia Asclepiadis** Ell. et Ev. Proc. Acad. Philad. 1895, p. 428. 2905

— Ascomatibus primitus epidermide tectis, dein erumpenti-superficialibus, orbicularibus, $\frac{3}{4}$ mm. diam., pallide ardesiacis margine subintegro v. dense denticulato, plano-convexis, siccis valde complicatis; ascis cylindræis, breve stipitatis, paraphysatis, octosporis, 55-60 \times 6; sporidiis plerumque distichis, subinæquilateraliter ellipticis, biguttulatis, hyalinis, 8-10 \times 3.

Hab. in caulibus emortuis *Asclepiadis* spec., Canada (DEARNESS).

3. **Mollisia lilacina** Clem. Bot. Survey of Nebraska IV, Lincoln 2906

1896, p. 15. — Gregaria, sessilis, disciformis, lilacina v. pallide livida, in statu siccio testacea, subtus pallidior, margine elevato, albido-crenulato, $\frac{1}{3}$ -1 mm. diam.; ascis minutis, clavatis, stipitatis 30-40 \times 3-4; sporidiis cylindræis, rectis v. curvatis, 1-3 guttulis v. spurie septatis, distichis v. monoſtichis, 7-10 \times 1 $\frac{1}{2}$ -2; paraphysibus cylindræis, granulosis, 2 μ . latis.

Hab. in cortice Ulmi americanæ, Nebraska, Amer. bor.

4. **Mollisia Cytisi** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 98. — 2907

Gregaria vel sparsa, sessilis, plana v. concava, albido-carnea, margine integro, repando-sinuoso, extus pruinosa, contextu albido, $\frac{1}{3}$ - $\frac{1}{2}$ mm. lata; ascis clavatis, 40-50 \times 5-6, filiformi-paraphysatis; sporidiis hyalinis, simplicibus, cylindræis, rectis v. curvulis, 6-7 \times

Hab. in ramis emortuis *Cytisi triflori* in Tunisia.

5. *Mollisia affinis* Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2908 III, n. 5, p. 23, fig. 10. — Sparsa, superficialis, primo clausa, globosa, sessilis, deinde ore orbiculari aperta, demum patellariter cupulata, deorsum paullo angustior, siccitate varie contracta, extus rugosiuscula, fusco-nigricans, disco pallide olivaceo vel ochraceo-olivaceo, 0,2-1 mm. lata; textura parenchymatica, molliter coriacea vel coriaceo-ceracea, margine cellulis claviformibus, 40-50 \times 4-5 composita; ascis 8-sporis, cylindræis, superne perpaulum obscure aurantiis, sessilibus, 45-55 \times 5-6; sporidiis monostichis, distichis vel stipatis, ellipsoideis v. ellipsoideo-allantoideis, hyalinis, 6-9 \times 2 $\frac{1}{2}$ -3; paraphysibus parvis, firmulis, filiformibus, 2 μ . latis.

Hab. ad lignum induratum pineum, Oestergötland Sueciæ (HAGLUND). — Iodi ope asci cærulescunt.

6. *Mollisia microsperma* Mout. Compt. rend. Bull. Soc. Roy. Bot. 2909 Belg. XXXVI, 1897, 2 part. p. 16, tab. A fig. 11. — Sessilis, plano-scutellata, subtus nigricans, hymenio fuligineo, siccitate tota nigra, $\frac{1}{2}$ mm. diam., contextu pachydermatico brunneo; ascis clavatis, sursum paullo angustioribus, obturaculo iodo cærulescente, 8-sporis, 50 \times 5; paraphysibus filiformibus, 2 μ . crassis, hyalinis, ascos æquantibus; sporidiis irregulariter distichis, breve ellipticis, apicibus obtuse angulatis (quare fere rhombicis), cum duabus guttulis, 4-5 \times 2-2 $\frac{1}{2}$.

Hab. in ligno humi jacente pr. Liège Belgii.

7. *Mollisia chionea* Masee et Crossl. Journ. of Bot. 1896, p. 154, 2910 tab. 357, fig. 21-24. — Ascomatibus gregariis v. confertis, sessilibus, tenuibus, fragilibus, niveis, udis subpellucidis, siccis albidis, initio subglobosis et clausis, demum planis v. subconvexis; margine minute fimbriato, delicate pruinoso, circiter 1 mm. lato; cellulis contextus hexagonalibus, marginem versus elongatis, 20-25 \times 10-12; ascis cylindræo-clavatis, apice attenuatis, 40-45 \times 5-6, octosporis; sporidiis irregulariter distichis, hyalinis, continuis, levibus, anguste cylindræo-oblongis, utrinque obtusis, rectis v. lenissimè curvulis, 6-8 \times 1 $\frac{1}{2}$ -2; paraphysibus cylindræis, circiter 2 μ . crassis, paucis.

Hab. in culmis emortuis *Caricis pendulæ* in Britannia.

TAPESIA Pers. — Syll. VIII, p. 371, X. p. 18, XI, p. 410.

1. *Tapesia tumefaciens* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 281. 2911

ascomatibus dense gregariis v. per corticis rimas seriatim erumpentibus, udis orbicularibus, circiter 2 mm. diam., murinis, disco convexo, margine leniter incurvato, contextu carnoso, celluloso, versus marginem hyphis olivaceis septatis rectis, circiter 75 μ . longis, apice 3-4 μ . crassis insertis; ascis clavato-cylindraceis, 70-75 \times 8-10, breve stipitatis, octosporis; sporidiis oblique monostichis, ellipticis, hyalinis, 8-11 \times 5-6; paraphysibus simplicibus, supra subundulatis, circiter 2 μ . crassis.

Hab. in ramis mortuis *Bigeloviae graveolentis*, Colorado Amer. bor.

PIROTTÆA Sacc. — Syll. VIII, p. 386, X, p. 19.

1. *Pirottæa setulosa* (Mass. et Crossl.) Sacc. Hedw. 1895, p. XXXVI, 2912
Echinella setulosa Mass. et Crossl. British Fungi IV, p. 305. — Ascomatibus sparsis v. gregariis, sessilibus, primo clausis sphaericis, dein planis, sæpe irregularibus, margine leviter incurvato, undulato, 1 mm. diam.; disco griseo, interdum pallide rosaceo, extus atrolivaceo, margine albido, setuloso; excipulo ex hyphis hyalinis valde intricatis circiter 4 μ . crassis composito; contextu distincte parenchymatico, basim versus cellulis irregulariter polygonalibus subolivaceis, 8-10 μ . ad marginem in pilis leviter clavatis plerumque continuis pallidis excurrentibus, pilis nonnullis superficiem exteriorem tegentibus; ascis anguste clavatis, apice punctiformibus, pedicello firmo sæpe curvulis, octosporis; sporidiis parallele fasciculato-dispositis, hyalinis, elongatis, anguste cylindraceo-fusoideis, plerumque curvulis, maturitate 38-45 \times 2 $\frac{1}{2}$ -3; paraphysibus subfirmis, hyalinis, cylindraceis, circiter 3 μ . crassis.

Hab. in ramulis decorticatis *Callunæ vulgaris* in Britannia. — Genus *Echinella* et quia jam usurpatum et quia supra typum primarium *Pirottææ* exstructum, non accipiendum.

2. *Pirottæa Crosslandi* (Mass.) Sacc. Hedw. 1895, p. XXXVI, *Echi-* 2913
nella Crosslandi Mass. British Fung. IV, p. 306. — Ascomatibus gregariis v. interdum subconfertis, sessilibus, basi angustatis, initio clausis, dein explanatis, margine plus minus erecto, circiter 1 mm. diam., disco pallido, extus pallide brunneo, sicco pallide luteo-griseo, dense villosa, pilis cylindraceis, obtusis, minute asperulis, 70-125 \times 4-5, erectis, non v. vix septatis, luteo-brunneis, apice pallidioribus; contextu parenchymatico, cellulis irregulariter polygonalibus, 5-6 μ . diam.; ascis cylindraceo-clavatis, apice leviter angustatis, octosporis; sporidiis irregulariter distichis, levibus, hya-

linis, ellipticis, multiguttulatis, dein 3-septatis, 12-15 \times 4; paraphysibus gracilibus, hyalinis, cylindraceis.

Hab. in ligno decortico in Britannia (CROSSLAND). — Habitu externo *Dasyscypham corticalem* in mentem revocat.

LACHNELLA Fr. — Syll. VIII, p. 391, X, p. 19, XI, p. 411.

1. *Lachnella albilabra* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 467. 2914

— Ascomatibus sessilibus, 1-1 $\frac{1}{4}$ mm. diam., initio subclausis et depresso-globosis, demum subplanis, extus villosco-tomentosis, sordide olivaceo-brunneis, margine incurvo pilis sordide albis laxè intricatis, levibus, septatis, 300-400 \times 3-4, tecto; disco primitus cupulato, livido, subardesiaco; ascis attenuato-stipitatis, oblongo-cylindraceis, 50-55 \times 7; paraphysibus deficientibus (?); sporidiis plerumque distichis, clavato-oblongis, hyalinis, continuis, utrinque nucleo minuto præditis, 6-10 \times 2-2 $\frac{1}{2}$.

Hab. in ramis emortuis Ribis prostrati, Colorado Amer. bor. — Affinis *L. cœnangioidi* et *L. Meleagri*.

2. *Lachnella Symphoricarpi* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2915 p. 467. — Ascomatibus gregariis, sessilibus, $\frac{3}{4}$ -1 $\frac{1}{2}$ mm. diam., primitus clausis, dein expansis v. cupulatis, extus atro-brunneis, adpresso-hirsutis, carnosocoriaceis, margine incurvato, sicco hysteriiformiter involuto; disco concavo, sordide albo, roseo-tincto; ascis clavato-cylindraceis, 40-45 \times 6-7; sporidiis distichis, allantoideis, hyalinis, continuis, modice curvulis, 8-10 \times 1 $\frac{1}{2}$; paraphysibus firmis, cylindraceis, ascos æquantibus, apice vix incrassatis.

Hab. ad ramos emortuos Symphoricarpi, Colorado in America boreali.

3. *Lachnella Pini* Brunch. — Sacc. Syll. XI, p. 411 — est *Dasyscypha* 2916 *fusco-sanguinea* Rehm, Sacc. Syll. VIII, p. 459 (teste Karsten, Hedw. 1895, p. 8).

TRICHOPEZIZA Fuek. — Syll. VIII, p. 401, X, p. 20, XI, p. 412.

1. *Trichopeziza coarctata* Ell. et Ev. Americ. Natur. 1897, p. 427. — 2917

Ascomatibus sparsis, superficialibus, sessilibus, hemisphærico-cupulatis, fumigatis, 300-400 μ . diam., tenuiter membranaceis, primo margine valde contracto et minute apertis, pilis brevibus fasciculatis levibus, 25-30 \times 2-2 $\frac{1}{2}$ fimbriato; ascis clavato-oblongis, 30-35 \times 5-6; sporidiis distichis, ovatis, hyalinis, biguttulatis, 4-5 $\frac{1}{2}$ \times 2 $\frac{1}{2}$ -3.

Hab. in ramulis emortuis Vaccinii myrtilloidis pr. Was-

lington Amer. bor. (SUKSDORF). — *T. confusæ* Sacc. valde affinis, sed differt pilis et ascis longioribus.

2. **Trichopeziza virescentula** Mout. Compt. rend. Bull. Soc. Roy. 2918 Bot. Belg. XXXVI, 1897, p. 19, tab. A. fig. 13. — Sessilis, obconica, $\frac{1}{10}$ mm. diam., extus pilis patentibus simplicibus, viridibus, a basi sursum attenuatis, 2-3-septatis, graniferis, 50-80 \times 4, vestita, disco livido-hyalino; ascis cylindraccis, sessilibus, filiformi-paraphysatis, obturaculo jodo cœrulescente, 8-sporis, 45-50 \times 6; sporidiis biseriatis oblongis, obtusis, continuis, 10-12 \times 3.

Hab. in foliis putrescentibus Carpini pr. Liège Belgii.

3. **Trichopeziza pygmæa** Mout. Compt. rend. Bull. Soc. Roy. Bot. 2919 Belg. XXXVI, 1897, 2 part. p. 19, tab. A. fig. 14. — Sparsa, sessilis, late obconica, $\frac{1}{10}$ mm. diam., albida, extus ciliata, ciliis hyalinis, erecto patentibus, 3 μ . crassis, basi ampliatis, sursum attenuatis, rugulosis, continuis, 50-100 μ . longis; hymenio pallido; ascis clavatis, 8-sporis, filiformi-paraphysatis, 24 \times 4, obturaculo jodo cœrulescente; sporidiis distichis subovatis, hyalinis, 3 $\frac{1}{2}$ -4 \times 1,2-1,5.

Hab. in foliis putrescentibus Carpini pr. Liège Belgii. — Omnino diversa ab *Hyalopeziza ciliata* Fckl.

4. **Trichopeziza Fraxini** Boud. Bull. Soc. Myc. de France 1896, 2920 p. 15, t. IV, f. III. — Ascomatibus minutissimis, 0,2-0,3 mm. latis aggregatis, sessilibus, urceolatis, puberulis, cinereo-nigrescentibus, margine pallidiore, carne fuliginosa, humectis plus minusve applanatis, hymenio intense cinereo vix ætate pallescente; pilis curtis, 20-40 μ . longis, continuis, acutis, undulatis, ad marginem longioribus et pallidioribus; ascis minutis, octosporis, inoperculatis, cylindricis, ad basim non attenuatis sed contra sæpe crassioribus, 35-45 \times 9-10; sporidiis fusoidis, hyalinis, intus non aut vix nebulosis, 6-10 \times 2 $\frac{1}{2}$ -3, continuis sed aliquoties uniseptatis; paraphysibus gracilibus, non clavulatis, hyalinis aut intus subgranulosis, inconspicue septatis, 1-1 $\frac{1}{3}$ μ . crassis.

Hab. ad basim ramulorum decorticatorum Fraxini excelsioris in silvis, Montmorency, Gallia.

5. **Trichopeziza candida** Clem. Bot. Survey of Nebraska, IV, Lincoln 2921 1896, p. 15. — Ascomatibus cæspitosis, sessilibus, ceraceis, tenacibus, late infundibuliformibus v. scutellatis, intus extusque candidis; disco denique cinereo; pilis densissimis, longis, hyalinis, granulis confertis asperulis; margine ciliato, crispato-lobato, incurvato; ascis clavulatis, apice subacutis, 75-100 \times 5-8; sporidiis non visis

Hab. in cortice et in ramis *Tiliæ americanæ* Nebraska, Amer. bor.

DASYSCYPHA (Fr.) Fuck. — Syll. VIII, p. 432, X, p. 21, XI, p. 412.

1. **Dasyscypha Soppittii** Mass. British Fung. IV, p. 330. — Asco- 2922
matibus sparsis, stipitatis, niveis, globosis, initio clausis, dein sub-
planis, margine ciliato, $\frac{1}{8}$ - $\frac{1}{2}$ mm. diam., extus dense pilosis; pilis
cylindræcis parce septatis erectis, minute asperulis, 60-90 \times 4;
contextu parenchymatico, cellulis subquadraticis, 8-9 μ . diam.,
deorsum angustioribus et elongatis; ascis late cylindræceo-clavatis,
apice obtusis, octosporis, pedicello brevi, firmo; sporidiis irregulari-
ter distichis, levibus, hyalinis, ellipticis, utrinque acutis, erectis,
maturitate uniseptatis, 9-11 \times 3; paraphysisibus lanceolatis, apice
acutis, 3-5-septatis, ad septa sæpe leniter constrictis, ascis dimidio
minoribus, in parte incrassata 5-6 μ . crassis.

Hab. in foliis emortuis dejectis quercinis in Britannia (SOPPITT).

2. **Dasyscypha scintillans** Mass. British Fung. IV, p. 328. — Asco- 2923
matibus sparsis, stipitatis, globosis, clausis, dein explanatis, $\frac{1}{4}$ - $\frac{1}{2}$
mm. latis altisque, tenuibus, extus albis, pilosis, excipulo paren-
chymatico, cellulis plus minusve quadraticis, basim versus longis
angustisque; pilis ad marginem longis et numerosis, 40-60 \times 5-6,
apice obtusis v. levissime incrassatis, septatis, sæpe minute aspe-
rulis; disco albido v. subluteolo; stipite brevissimo; ascis cylin-
dræceo-clavatis, octosporis, basi crassioribus; sporidiis irregulariter
distichis, cylindræcis, 7-8 \times 1; paraphysisibus lanceolatis, apice acutis,
ascis duplo longioribus, 4-5 μ . crassis, hyalinis.

Hab. in foliis emortuis quercinis in Britannia.

3. **Dasyscypha ciliaris** (Schrad.) Sacc.-Syll. VIII, p. 443. — Var. 2924
carpineæ Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. XXXVI,
1897, 2 part. p. 20 (*Lachnum*). — A. typo differt ascomatibus
gracilioribus et sporidiis constanter brevioribus; ascis 55 \times 7; spori-
diis late fusiformibus, 10-12 \times 3 $\frac{1}{2}$; pilis 4 μ . crassis.

Hab. in foliis putrescentibus Carpini pr. Liège Belgii.

4. **Dasyscypha aurea** Masee, Journ. of Bot. 1896, p. 146. — Asco- 2925
matibus gregariis, sessilibus, in basim brevem stipitifermem an-
gustatis, depresso-globosis, initio clausis, dein expansis, margine
plus minusve erecto, tenuibus, 1 $\frac{1}{2}$ -2 mm. diam., sulphureis, extus
dense villosis; pilis confertis, rectis v. levissime flexuosis, tenui-
tunicatis, parce septatis, cylindræcis, apice obtusis, minute aspe-
rulis, pallide lateis, 150-200 \times 4-5; hypothecio et excipulo paren-

chymaticis; cellulis corticalibus hexagonalibus v. suboblongis, elongatis, 7-9 \times 4-5, pallide luteis; ascis late clavatis, apice obtusis rotundatisque, deorsum gradatim angustatis, octosporis, jodi ope non cœrulescentibus; sporidiis irregulariter distichis, hyalinis, continuis, levibus, cylindræis, utrinque obtusis, sæpe biguttulatis, rectis v. leniter curvulis, 18-20 \times 5; paraphysibus cylindræis, hyalinis, fere 2 μ . crassis, ascos superantibus.

Hab. in corticibus, Victoria Australiæ (READER). — Habitu externo omnino *Erinellæ Novæ-Zelandiæ*.

5. **Dasyscypha Moutoni** (Rehm) Sacc. et Syd. *Lachnum Moutoni* Rehm 2926
Compt. rend. Bull. Soc. Roy. Bot. Belg. XXXVI, 1897, 2 part. p. 19. — Ascomatibus subsessilibus v. breviter stipitatis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. latis, extus puberulo-albidis, pilis brevibus 4 μ . crassis apice non attenuatis minute rugulosis hyalinis obsitis; disco planiusculo, ochraceo; ascis subclavatis, 50-55 \times 6, octosporis; sporidiis distichis, strictè fusiformibus, vulgo rectis, continuis, 12-15 \times 1 $\frac{1}{2}$ -2; paraphysibus subulatis,asco longioribus, 4 μ . crassis, jodo sæpe rubescentibus.

Hab. in calamis Junci conglomerati pr. Liège Belgii. — *D. Staritzii* affinis, videtur præcipue colore distincta.

6. **Dasyscypha apocrypha** Rehm, Discomycet. p. 1237. — Ascomatibus sessilibus, primo globosis, clausis, dein apertis, extus pubescentibus, hyalinis, 0,3-1 mm. latis, tenuissimis, ceraceis; pilis simplicibus, rectis, hyalinis, 90 \times 1; disco patelliformi, tenuiter marginato, plano; ascis clavatis, apice rotundatis, 40-45 \times 6-7, octosporis; sporidiis anguste fusiformibus, rectis, unicellularibus, hyalinis, 6 \times 1 $\frac{1}{2}$, distichis; paraphysibus filiformibus, longis, hyalinis, 1 $\frac{1}{2}$ μ . crassis.

Hab. ad folia graminum in Helvetia.

7. **Dasyscypha clavispora** Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. XXXVI, 1897, 2 part. p. 18, tab. A, fig. 6. — Ascomatibus subsessilibus, quandoque in stipitem usque 200 \times 60 productis, primo cupulatis, dein concaviusculis, 0,2-0,5 mm. latis, extus fusciscentibus, pilis fuscidulis, septatis, plerumque rectis, non attenuatis, 3-4 μ . crassis, minute rugulosis, usque 100 μ . longis, vestitis; hymenio roseo-aurantiaco aut lateritico; ascis tereti-clavatis, 8-sporis, 60-80 \times 8-10, obturaculo iodo cœrulescente; paraphysibus vulgo longioribus, sursum incrassatulis, 2 μ ., hyalinis; sporidiis clavulatis, hoc est postice attenuatis, plerumque inæquilateris, continuis, 15-20 \times 4-5.

Hab. in culmis Moliniæ et Junci conglomerati pr. Liège Belgii.

8. **Dasyscypha Queleti** Sacc. et Syd. Sic dicenda est *Dasyscypha puberula* (Quél.) Sacc. in Syll. VIII, p. 444, quum exstet anterior *D. puberula* (B. et G.) Sacc. in Syll. VIII, p. 461.

Sect. 2. Phæosporæ.

PHÆOPEZIA Sacc. — Syll. VIII, p. 471, X, p. 24, XI, p. 414.

1. **Phæopèzia vinacea** Clem. Bot. Survey of Nebraska IV, Lincoln, 2929 1896, p. 16. — Ascomatibus primo late cupulatis v. concavis, dein applanatis, sessilibus, carnosis, extus pallide brunneo-verrucosis, atro-vinosis; disco vinoso, 5-10 mm. diam.; ascis cylindraceis, jodo cærulescentibus, obtusis v. truncatis, 250-300 × 12-15; sporidiis ellipticis, pallide fuscis, echinatis, uniguttulatis, monostichis, 15-18 × 10; paraphysibus linearibus, supra fuscis, vix incrassatis, 3 μ . latis.

Hab. in terra humida, Nebraska, Amer. bor.

2. **Phæopezia elæodes** Clem. Bot. Survey of Nebraska IV, Lincoln 2930 1896, p. 16. — Ascomatibus hemisphærico-cupulatis, raro scutellatis, ceraceis, sessilibus, extus verrucosis, brunneo-atris; disco olivaceo, margine sæpe irregulari, flexuoso; ascis cylindraceis, truncatis, octosporis, 200-300 × 15-18; sporidiis monostichis, sphaericis, guttula oleosa magna 8 μ . diam. præditis, dense concentrice verruculosis, fuscis, 12-15 μ . diam.; paraphysibus linearibus, pluriseptatis, 5-6 μ . latis.

Hab. ad terram arenosam, Nebraska, Amer. bor. — Ascoma 8-20 mm. latum, 5-13 mm. altum.

3. **Phæopezia tahitensis** Pat. Bull. Soc. Myc. de Fr. 1896, p. 135. 2931 — Ascomatibus gregariis, sessilibus, applanatis, 1-4 mm. diam., fusco-atris, coriaceis, tenuibus, margine acuto, integro, involuto; hymenio glabro, cinereo-atro, pagina externa pilosa, pilis prostratis, obscure fuscis, simplicibus v. ramosis, mollibus, 1 mm. longis, 10-16 μ . crassis, rarissime septatis; contextu coriaceo, fusco, grosse celluloso (cellulis polygonis, 10-40 × 20-25); ascis cylindraceis, paraphysatis, 8-sporis; sporidiis monostichis, ovoideis, simplicibus, pallide brunneis, levibus, 10 × 6.

Hab. in ligno decorticato, ins. Tahiti. — *P. splendens* proxima.

4. **Phæopezia splendens** Pat. Bull. Soc. Myc. de Fr. 1895, p. 219. 2932 — Ascomatibus sparsis vel 3-5 gregariis, sessilibus, 3-10 mm.

diam., atris, coriaceis, tenuibus, vix 1 mm. crassis, margine acuto, integro, involuto; hymenio glabro, atro; pagina externa pilosa, pilis olivaceo-nigris, simplicibus v. ramosis, mollibus, 1 mm. longis, 16-20 μ . crassis, transverse septatis; contextu coriaceo (nec carnoso, nec gelatinoso), lateritio-rubro, grosse celluloso, cellulis polygonis, 30-35 μ . latis; ascis cylindraceutis, 100-130 \times 5-6, octosporis; paraphysibus subhyalinis, cylindraceutis, ramosis, 130 \times 1 $\frac{1}{2}$; sporidiis monostichis, ovoideis, sæpius medio constrictis, levibus, olivaceo-brunneis, 2-guttulatis, uniseptatis, 8-10 \times 4-5.

Hab. ad ligna putrida in Æquatoria (v. LAGERHEIM). — *Ph. elasticæ* affinis.

Sect. 3. Hyalodidymæ.

HELOTIELLA Sacc. — Syll. VIII, p. 474, XI, p. 415.

1. **Helotiella herpotrichoides** Rehm, Hedw. 1895, p. (161). — Ascomatibus in centro macularum fuscæ hypophyllarum 2-5 mm. lat. dense gregariis, sessilibus, piriformibus, primitus clausis, dein urceolatis, disco albido-flavo, plano, tenerrime marginato, flavide fuscidulis, prosenchymatice e cellulis elongatis laxè connexis et marginem superantibus contextis, basi fusca et hyphis fuscidulis, brevibus vestitis, 200 μ . altis, 90-100 μ . latis; ascis clavatis, apice rotundatis, 90-100 \times 18, octosporis; sporidiis oblongis, rectis, rarius subcurvatis, 1-, dein 2-cellularibus, episporio crasso, hyalinis, dein fuscidulis, 18 \times 9, distichis; paraphysibus filiformibus, laxis, hyalinis 2 μ . crassis.

Hab. in pagina inferiore foliorum vivorum *Gunneræ* spec. in Prov. de Pichincha Æquatoriæ (LAGERHEIM).

NIPTERA Fr. em. — Syll. VIII, p. 480, X, p. 24, XI, p. 416.

1. **Niptera turicensis** Rehm, Hedw. 1895, p. (160). — Ascomatibus gregariis, ab initio sessilibus, primitus globosis, dein disco patellari plano, tenuissime fusce marginato, denique subconvexo, flavofuscidulo, extus fuscis, parenchymatice e cellulis parvis, fuscis contextis, 0,4-0,5 mm. diam.; ascis clavatis, apice rotundatis et incrassatis, usque 75 μ . longis, 15 μ . latis, octosporis; sporidiis oblongis v. ellipticis, obtusis, primitus unicellularibus, hyalinis, rarius fuscidulis, 14-17 \times 6-7, distichis; paraphysibus superne di- vel trichotomis, apice irregulariter 6-8 μ . latis, fuscis, epithecium fuscidulum formantibus. Porus ascorum ope jodi valde cœrulescit.

Hab. ad acus siccus Juniperi Sabinæ in arboreto Turicensi Helveticæ (F. v. TAVEL).

2. **Niptera tristis** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2935 III, n. 5, p. 25, fig. 14. — Sparsa, superficialis, matricem atro-inquinans (?), primo globosa, clausa, deinde aperta, concaviuscula, mox patellariter planiuscula, late sessilis, crassissime marginata, extus rugosa, fuligineo-nigricans, disco æque colorato, sicca complicata, nigerrima, 0,2-1,5 mm. diam., textura cellulis seriatis, semper autem isodiametricis; ascis 8-sporis, cylindræis, sursum rotundatis, sessilibus, 50-60 \times 6-8; sporidiis distichis, elongatis v. elongato-fusiformibus, utrinque obtusiusculis, primo multiguttulatis, deinde bipartitis, hyalinis, 9-15 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$; paraphysibus numerosis, firmis, clavulato-filiformibus, sursum 2-3 μ . latis, ramulosis, ascos paulo superantibus.

Hab. ad lignum vetustate vel fungillo nigrefactum pr. Nerike Sueciæ. — Ascii jodo cœrulescunt.

3. **Niptera invisibilis** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2936 III, n. 5, p. 26, fig. 12. — Sparsim gregaria, superficialis, sessilis vel deorsum angustior, primitus globosa, clausa, deinde applanata vel convexulo hymenio marginem superante, albido-hyalina vel luteo-rufescens, pellucida, sicca globosa, sordide albida v. isabellina, in margine cellulis seriatis, omnibus globuliformibus; ascis 8-sporis, clavatis, breviter pedicellatis v. sessilibus, sursum obtusatis, 55-65 \times 7-9; sporidiis oblique monostichis, distichis vel conglobatis, ellipsoideis vel fere ovoideis, hyalinis, primo biguttulatis, demum medio septatis, 6-9 \times 3-4; paraphysibus filiformibus, sursum interdum clavula longiuscula usque 3 μ . lata coronatis.

Hab. ad lignum vetustum Betulæ, Oestergötland Sueciæ (HAGLUND). — Jodi ops nulla. *N. subbiatorinæ* Rehm proxima videtur, quamquam etiam ab illa longe differt. Ascomatibus madore convexulis et textura hyalina ad *Orbilias* hæc species spectaret, marginis autem structura melius *Mollisicis* adscribenda est.

4. **Niptera duplex** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 2937 III, n. 5, p. 26, fig. 11. — Gregaria, primo globosa, clausa, demum aperta, cupularis vel patellariter turbinata, disco applanato, margine acuta, flexuosa v. lobata, vix lacerata, pallide fuscescens, disco albo-griseo, sicca extus umbrina vel fere nigricans, disco ochraceo-fulvo, varie sed non multum contracta, 0,5-1 mm.; textura partis parietis excipuli parenchymatica, cellulis fuliginis, partis fundi intricata, cellulis hyalinis; ascis 8-sporis, longe cla-

vatis, fere sessilibus, sursum obtusatis, 65-80 \times 6-8; sporidiis oblique monostichis v. distichis, fusoides v. elongatis, utrinque obtusis, primo simplicibus granulosis, demum uniseptatis, 9-16 \times 2 $\frac{1}{2}$ -4; paraphysibus firmulis, filiformi-clavulatis, sursum paullo (3 μ .) incrassatis.

Hab. in ligno indurato Juniperi, Vestergötland Sueciæ (ELIAS-SON). — Asci jodo cœrulescentes.

5. **Niptera Lagerhelmi** Pat. Bull. Soc. Myc. de Fr. 1895, p. 216. — 2938

Ascomatibus sparsis vel gregariis, sessilibus, turbinatis, margine repando, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ochraceo-pallidis, levibus, glabris, contextu ceraceo; ascis clavatis, 30 \times 6-7, octosporis; sporidiis distichis, hyalinis, ovato-elongatis, utrinque obtusis, medio 1-septatis, non constrictis.

Hab. in truncis Chusqueæ in Æquatoria (v. LAGERHEIM).

6. **Niptera Nitschkei** (Körb.) Rehm, Discomycet. p. 561, *Nesolechia* 2939

Nitschkei Körb. Parerg. lich. p. 462. — Ascomatibus gregariis, sessilibus, initio globoso-clausis, dein urceolatis, disco tenui albo-griseo, sæpe albido-marginato, extus nigris v. nigro-brunneis, levibus, asperulis, 0,1-0,25 mm. latis, ceraceis, contextu parenchymatico, brunneo; ascis clavatis, apice rotundatis, 36-45 \times 7-9, octosporis; sporidiis oblongo-fusoides, obtusiusculis, rectis, primo unicellularibus biguttulatisque, dein bicellularibus, hyalinis, 8-9 \times 2 $\frac{1}{2}$, distichis; paraphysibus filiformibus, 1 $\frac{1}{2}$ μ . circiter crassis, apice non incrassatis, subhyalinis.

Hab. in thallo Thelotrema^s lepadini in Germania.

SOLENOPEZIA Sacc. — Syll. VIII, p. 477.

1. **Solenopezia tetraspora** P. Henn. Pilz. Ostfr. p. 30. — Asco- 2940

matibus sparsis, ceraceis, minutissimis, circ. 200 μ ., suburceolatis, sessilibus, extus villosis, citrinis; ascis oblongis v. subclavatis, obtusis, stipitatis, 4-sporis, 50-65 \times 12-15; sporidiis fusiformibus, medio septatis, non constrictis, utrinque apiculatis, hyalino-flavescentibus, di- vel monostichis, 15-18 \times 5-8 $\frac{1}{2}$.

Hab. in thallo Physciæ integratæ in Africa trop. (HOLST).

2. **Solenopezia Unedonis** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 97. 2941

— Gregaria, sessilis, urceolata, $\frac{1}{2}$ -1 mm. diam., pallide fusca, puberula, margine ciliato, hymenio concavo, lutescente; ascis cylindraceutis, 60 \times 6-8, octosporis; paraphysibus linearibus, hyalinis, 2 $\frac{1}{2}$ -3 μ . crassis; sporidiis hyalinis, levibus, fusiformibus, uniseptatis, 10 \times 3.

Hab. in ramulis emortuis Arbuti Unedonis, in Tunisia.

Sect. 4. Phragmosporæ.

VELUTARIA Fuck. — Syll. VIII, p. 488.

1. *Velutaria subsessilis* A. L. Smith, Journ. of Bot. 1895, p. 343. 2942

— Cupulis gregariis, tum sessilibus, tum brevissime stipitatis, discretis vel confluentibus, usque ad $\frac{1}{2}$ mm. latis, extus pulveraceo-tomentosis, brunneo-flavis; disco plano caviusculove fusco; ascis stipitatis, clavatis, 8-sporis, 130×15 ; sporidiis lineari-ellipticis, utrinque parum attenuatis, 4-septatis, hyalinis, 30×5 .

Hab. in corticibus vetustis in Africa orient. (ELLIOT).

DERMATELLA Karst. — Syll. VIII, p. 489, XI, p. 416.

1. *Dermatella Betulæ* (Rehm) Sacc. et Syd. *Dermatea Betulæ* Rehm, 2943

Hedw. 1896, p. (32), Discomycet. p. 1221. — Solitaria, sed gregaria, erumpens, dein sessilis, globosa clausa dein expansa aperta, 0,3-1 mm. lata, deorsum in partem stipitiforem brevissimam attenuata, pallide ochracea, albido-pruinosa, ceracea; disco lenticulari, tenuissime marginato; ascis clavatis apice rotundatis incrassatisque, $75-90 \times 18-24$, jodi ope violascentibus, octosporis; sporidiis distichis oblongis, rotundatis, plerumque rectis, bicellularibus, dein 4-cellularibus, hyalinis, $15-20 \times 6-7$; paraphysibus supra furcatis ibique usque ad 6μ . latis, hyalinis.

Hab. in cortice *Betulæ* albæ ad Berolinum Germaniæ (SYDOW), in truncis *Juniperi* communis in Saxonia (WAGNER). — *D. eucritæ* atque *lividæ* præcipue affinis, sed sporidiis multo brevioribus bene distincta.

BELONIUM Sacc. — Syll. VIII, p. 492, X, p. 26, XI, p. 417.

1. *Belonium sulphureo-tinctum* Rehm, Hedw. 1896, p. (146). — Asco- 2944

matibus plerumque gregariis, sessilibus, primitus clausis, globosis, dein disco plano, tenuiter marginato, flavidulo apertis extus glabris, plus minusve subsulphureis, prosenchymatice contextis, siccis corrugatis, 0,2-0,5 mm. latis; ascis clavatis, apice rotundatis, $45-50 \times 6-8$, 8-sporis; sporidiis bacillaribus, rectis vel subcurvatis, 2-cellularibus, hyalinis $14-18 \times 2$, distichis; paraphysibus paucis, filiformibus, hyalinis, 3μ . lat.

Hab. ad folia putrida quercina prope Berolinum Germaniæ (SYDOW).

2. *Belonium Carestianum* Sacc. Malpighia XI, 1895, pag. 271. — 2945

Ascomatibus gregariis, superficialibus, scutellatis, sessilibus, totis nigris, excluso margine albo, glabris, in sicco urceolatis, $\frac{1}{2}$ mm. diam., excipulo fibroso atrofuligineo, apice subfimbriato; ascis cylindræis, brevissime stipitatis, apice rotundatis, $75 \approx 9-10$; paraphysibus bacillari-clavulatis; sporidiis octonis, distichis v. oblique monostichis, fusoideis v. fusoideo-clavulatis, rectis v. curvulis, $18 \approx 3-4$, triseptatis, non constrictis, hyalinis.

Hab. in ligno Sorbi Aucupariæ, Riva-Valsesia, Italia (CARESTIA).

3. *Belonium orbilioides* Rehm, Discomycet. p. 1232. — Ascomatibus 2946 gregariis, sessilibus, primo globosis, dein patellatis, ochroleucis, subhyarnis, glabris, $\frac{1}{2}-1$ mm. latis, ceraceis, siccis complicatis, prosenchymatico-contextis; disco plano, tardius paulum convexo, tenuissime marginato, sicco flavo; ascis clavatis, apice obtuse acuminatis, $100-120 \approx 10-12$, octosporis; sporidiis elongato-fusiformibus, obtusis, rectis, bicellularibus, hyalinis, $15-17 \approx 3\frac{1}{2}-4$, distichis; paraphysibus filiformibus, apice rotundatis, hyalinis, $5-8 \mu$. crassis.

Hab. ad caules aridos Umbelliferarum in Helvetia.

BELONIELLA Sacc. em. Rehm, Disc. p. 638.

1. *Beloniella Wagneriana* Rehm, Discomycet. p. 1230. — Ascoma- 2947
tibus gregariis, primo globosis, clausis, epidermide tectis, dein eam rumpentibus, apertis, extus vix brunneolis, $\frac{1}{2}-1\frac{1}{2}$ mm. latis, ceraceis, contextu prosenchymatico, tenui, brunneolo; disco patelliformi, flavescente, albescenti-marginato; ascis fusiformibus, apice acuminatis, longe stipitatis, $100-120 \approx 12$, octosporis; sporidiis anguste fusiformibus v. clavatis, rectis v. leniter curvulis, unicellularibus, 2-4-guttatis, demum 4-6-cellularibus, hyalinis, $24-27 \approx 3\frac{1}{2}$, distichis; paraphysibus filiformibus, supérne tortuosis, laxis, 1μ . crassis, hyalinis.

Hab. ad Opuntiam Rafinesquianam putridam in Saxonia Germaniæ (WAGNER). — Species probabiliter importata.

BELONIDIUM Mont. — Syll. VIII, p. 496, X, p. 27, XI, p. 417.

1. *Belonidium Haglundi* Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 2948
1895, III, n. 5, p. 27, fig. 13. — Gregarium, sæpe mutua pressione difforme, interdum confluens, crustam latam longamque efformans, primitus globosum, clausum, mox apertum, demum fere applanatum, patelliforme, late sessile, ad basim hyphis fuscis, flexuosis, ramosis, $3-4 \mu$. latis obsessum, ceterum glabrum, nigerrimum,

disco murino v. livido-cinerecente v. interdum atrato, margine crasso, inflexo, nigro, in extrema parte albido, siccum plus minusve plicatum 0,5-2 mm. latum; textura merenchymatica in margine cellulis magis rectangularibus seriatis; ascis 8-sporis, clavatis, fere sessilibus sursum rotundatis, 60-75 \times 6-8; sporidiis distichis, fusoidis, rarissime rectis plerumque curvulis, guttulis pluribus sæpe quattuor ornatis, denique verisimillime septatis, 13-22 \times 2 $\frac{1}{2}$ -3; paraphysibus numerosis, firmis, filiformibus, ascos paullum superantibus, 2-3 $\frac{1}{2}$ latis.

Hab. in caulibus aridis, Oestergötland Sueciæ (HAGLUND). — Asci jodo cærulescunt.

2. **Belonidium andinum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 247. — 2949
 Ascomatibus sparsis v. gregariis, sessilibus, ceraceis, aureis, 1 $\frac{1}{2}$ mm. diam., glabris, margine integro, hymenio depresso; ascis cylindræis, 60 \times 6, paraphysibus linearibus, simplicibus v. ramosis septulatisque obvallatis; sporidiis chlorino-hyalinis, 8-10 \times 2, subfusoidis, triseptatis.

Hab. ad ligna putrida in Æquatoria (v. LAGERHEIM).

3. **Belonidium Schnablium** Rehm, Discomycet. p. 1228. — Asco- 2950
 matibus sparsis, raro gregariis, sessilibus, primo globosis, clausis, dein patellatis, extus glabris, subhyalinis, $\frac{1}{2}$ -2 $\frac{1}{2}$ mm. latis, siccis parum involutis, carnosio-ceraceis, margine cano-farinoso-pulverulento; disco patelliformi, stellatim complicato, albescente, involuto; hypothecio hyalino; ascis cylindræo-clavatis, apice rotundatis, 120-130 \times 10-12, 4-sporis; sporidiis ellipticis, rotundatis, 4-6-septatis, demum muriformiter multicellularibus, oculis uniguttulatis, 18-21 \times 9-10, monostichis; paraphysibus ramosis, $\frac{1}{2}$ μ . crassis, apice latioribus, cæruleo-viridibus; epithecium formantibus.

Hab. ad ramos decorticatos *Lonicerae nigrae* in Bavaria superiore (SCHNABL). — Asci jodi ope violaceo tinguntur. Ob sporidia muriformi-septata a typo *Belonidii* recedit et in genus proprium (*Schnablia* Sacc. et Syd.) erigi meretur.

4. **Belonidium pulvinatum** Boud. Bull. Soc. Myc. de France 1896, 2951
 p. 14, tab. IV, fig. II. — Ascomatibus minutissimis, sessilibus, $\frac{1}{4}$ - $\frac{1}{2}$ mm., lenticularibus, submarginatis, glabris, fuscis, subtus fulvellis, hymenio convexo, applanato, albido-cinereo leniter purpurascente; ascis crassis, clavatis, octosporis, inoperculatis, 90-100 \times 15-16; sporidiis elongatis, majoribus, scoleciformibus, achrois, subclavatis, rectis v. sæpius undulatis aut rarius curvatis, 15-septatis et intus guttulis oleosis numerosis repletis, 80-105 \times 5; pa-

raphysibus continuis, ad apicem clavatis, clavâ distinctâ oblongo-piriformi, $4\frac{1}{2}$ -8 μ . crassâ, 20-30 μ . longâ, a filamento septo separatâ, intus oleo pallide fusco rarius in guttulas diviso repletâ.

Hab. ad basim culmorum putridorum Junci capitati in paludibus silvæ Montmorency, Gallia.

5. **Belonidium Chusqueæ** Pat. Bull. Soc. Myc. de Fr. 1895, p. 217. 2952

— Ascomatibus 1-2 mm. latis, ceraceis, laxe gregariis, stipitatis, extus villosulis, pallide fuscis, margine integro plus minus sinuato, hymenio rufo; pilis prostratis, hyalinis, acutis, mollibus, granulosis, 3-4 μ . crassis; stipite villoso, brevi; ascis cylindræis, apice acuminatis, 100-150 \times 12, octosporis, filiformi-paraphysatis; sporidiis hyalinis, subcylindricis, rectis v. curvulis, obscure 3-septatis, 46-50 \times 3-4.

Hab. in truncis emortuis Chusqueæ in Æquatoria (v. LAGERHEIM).

6. **Belonidium microscopicum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 217. 2953

— Minutissimum, vix 300 μ . latum, pulcre aurantiacum, glabrum, subiculo nullo; cupulis turbinatis, ceraceis; ascis cylindræo-clavatis, apice rotundatis, 80-100 \times 5, octosporis; paraphysibus filiformibus, apice globosis, hyalinis; sporidiis filiformibus, utrinque acutis, rectis, hyalinis, indistincte guttulis, 23-30 \times 1 $\frac{1}{2}$.

Hab. in mycelio Perisporiaceæ cujusdam ad folia arborum, Æquatoria (v. LAGERHEIM).

7. **Belonidium fimisedum** Mout. Compt. rend. Bull. Soc. Roy. Bot. 2954

Belg. XXXVI, 1897, 2 part. p. 20. — Ascomate late sessili, applanato, margine in sicco incurvo, 1 mm. diam., glabro, ochraceo-fusco contextu tenui fuscidulo; ascis cylindræo-clavatis, stipitatis, 8-sporis, 60-70 \times 8, obturaculo jodo cœrulescente; paraphysibus linearibus, 2 μ . sursum fuscidulis, ascos æquantibus; sporidiis biseriatis, fusoideis, rectis, 4-guttatis, demum triseptatis, 16-18 \times 3 $\frac{1}{2}$.

Hab. in vetusto excremento canino pr. Liège Belgii.

PAZSCHKEA Rehm in Rabenhorst-Pazschke, Fungi europ. n. 4172

(Etym. a doct. O. PAZSCHKE egregio mycologo germanico). — Ascoma sessile in thallo tenuissime membranaceo, parenchymatico, gonidiis carente, primitus globosum, dein disciforme, parenchymatice contextum, subgelatinosum; asci fusiformes, octospori; sporidia fusiformia, pluries transverse septata, hyalina, subparallela posita; paraphyses gelatinose conglutinatæ, epithecium formantes. — A *Trichobelonio* subgen. *Belonii* differt præcipue thallo tenuissime membranaceo, parenchymatico, hyalino, gonidiis carente.

1. **Pazschkea lichenoides** Rehm l. c. — Ascomatibus sparsis, sessilibus in thallo paginæ superiori foliorum imposito, tenuissime parenchymatice membranaceo, e frustulis punctiformibus plus minusve congregatis composito, gonidiis plane carente, irregulariter subrotundo, albescente, ca. $1/2$ - $1\frac{1}{2}$ mm. diam., primitus globosis, dein disco rotundo tenuissime marginato, disciformibus, violaceo-atris, glabris, in sicco atris, 0,3-0,5 mm. diam., parenchymatice e cellulis parvulis compositis, gelatinosis mollibus; ascis fusiformibus sessilibus, crasse tunicatis, 90×18 , octosporis, jodo cœrulescentibus; sporidiis cylindraceo-fusoideis, subobtusis, subcurvatis, 16-cellularibus una alterave majorum cellularum longitudinaliter divisa, hyalinis, 70×7 -8, subparallele positis; paraphysibus gelatinose conglutinatis, epithecium violaceum formantibus.

Hab. in foliis vivis Miconiæ flammæ, Sao Francisco Brasiliæ (ULE).

LASIOBELONIUM Sacc. — Syll. VIII, p. 502.

1. **Lasiobelonium subflavidum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 136. — Sparsum, breviter stipitatum, dilute flavidum v. lateritium, initio clausum atque clavatum, dein apertum cupulatumque, $1-1\frac{1}{2}$ mm. latum, fibroso-contextum, pilis adpressis tectum, margine pilis brunneis parce septatis, $2-2\frac{1}{2}$ μ . crassis obsitum; ascis gracilibus clavato-cylindraceis, $85-95 \times 6$, paraphysibus filiformibus obvallatis; sporidiis fusoideis, hyalinis, leniter curvulis, non strictis, $15-20 \times 2-2\frac{1}{2}$.

Hab. in ligno salicino, Washington Amer. bor. (SUKSDORF).

Sect. 5. Scolecosporæ.

ERINELLA Sacc. — Syll. VIII, p. 507, X, p. 30, XI, p. 419. — Cfr. *Belonidii* species.

1. **Erinella viridula** Pat. Bull. Soc. Myc. de Fr. 1895, p. 218. — Ascomatibus laxè gregariis, turbinatis, 1 mm. latis, extus cinereo-viridibus, furfuraceis; pilis hyalinis, cylindraceis, flexuosis, rugulosis, $30-50 \times 5$; margine involuto, integro, albido; hymenio concavo, pallide aurantiaco vel incarnato; ascis claviformibus, $110-130 \times 6-8$, octosporis; paraphysibus hyalinis, cylindraceis, 3-4 μ . latis, transverse septatis, apice incrassatis; sporidiis baciliaribus, rectis vel curvulis, hyalinis, $60-70 \times 1\frac{1}{2}$ -2, 7-9-septatis.

Hab. in ramulis emortuis in Æquatoria (v. LAGERHEIM).

2. *Erinella? citrina* P. Henn. Hedw. 1897, p. 233. — Ascomatibus 2958
sparsis vel gregariis, stipitatis, minutis, citrinis, ex cupulato plano-
concavis, extus dense pilosis. 250-300 μ . diametro, setis 50-90 μ .
longis, $3\frac{1}{2}$ -4 μ . crassis, simplicibus, fuscidulis; stipite 150-180 μ .
longo, 70-80 μ . crasso, setuloso, citrino; ascis subclavatis, ad basim
angustioribus, 30-40 \times 5-6; sporidiis elongatis, hyalinis, pluriguttu-
latis, an septatis?

Hab. in caulibus pr. Blumenau Brasiliæ (MÖLLER).

3. *Erinella discolor* Mout. Compt. rend. Bull. Soc. Roy. Bot. Belg. 2959
XXXVI, 1897, 2 part. p. 20, tab. A, fig. 16. — Sessilis, concava,
1-1 $\frac{1}{2}$ mm. diam., extus strigoso-hirsuta, pilis numerosis, cylindri-
cis, septatis, simplicibus, plus minus fasciculatis, superioribus albis,
inferioribus aureis (saltem pro parte), 4 μ . crassis, usque 500 μ .
longis, contextu brunneolo; hymenio incarnato-ochraceo; ascis
clavatis, obturaculo minuto, jodo cœrulescente, 100-120 \times 8; para-
physibus ascorum longitudine, sursum leniter attenuatis, hyalinis,
2-3 μ . crassis; sporidiis fasciculatis, vermiformibus, vulgo curvatis,
postice attenuatis, pluriguttulatis, demum tenuiter septulatis, 50-
70 \times 2-2 $\frac{1}{2}$.

Hab. in caulibus Urticæ et Clematidis pr. Liège Belgii.

4. *Erinella cervina* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 468. — 2960
Gregaria, sessilis, subglobosa, urceolata, $\frac{3}{4}$ mm. diam., cervina,
breve tomentosa, supra striata, ligno insidens, pro parte a cortice
tectâ, margine subfimbriato pallidiore, valde incurvo; disco palli-
do; ascis cylindræis, breve stipitatis, paraphysatis, octosporis,
75-85 \times 7-9; sporidiis fasciculatis, acicularibus, hyalinis, utrinque
attenuatis, continuis, subtiliter nucleolatis, 50-60 \times 2-2 $\frac{1}{2}$; paraphy-
sibus firmis, ascos superantibus, 2-2 $\frac{1}{2}$ μ . crassis, apice incrassatis
ibique leniter undulatis v. curvulis.

Hab. in ramis putridis Betulæ, Colorado Amer. bor. — Aspe-
ctu externo *Soleniam anomalam* in memoriam revocat.

5. *Erinella Novæ-Zelandiæ* Masee, Journ. of Bot. 1896, p. 147. — 2961
Ascomatibus gregariis, stipite brevi fultis, initio clavatis, clausis,
demum expansis, piriformibus, 2-3 mm. diam., margine pilis se-
ptatis, obtusis, cylindræis, brunneis, rugosis, 60-80 \times 4-5 metientibus
dense ciliato; disco concavo, pallide luteo; excipulo parenchyma-
tico, cellulis 6-9 μ . diam., ascis clavatis, apice obtusis, deorsum in
pedicellum curvatum exilem attenuatis, octosporis; sporidiis pa-
rallele dispositis, anguste clavatis, rotundatis, basim versus atte-
nuatis, multiseptatis, hyalinis, levibus, rectis v. leniter curvulis,

85-95 μ . longis, apice 5 μ . crassis; paraphysibus septatis, hyalinis, apice non incrassatis, 2 $\frac{1}{2}$ -3 μ . crassis.

Hab. in ligno et cortice putrido, Nova Zelandia.

6. *Erinella similis* Bres. Hedw. 1896, p. 296. — Ascomatibus bre- 2962

viter stipitatis ex hemisphærico plano-concavis, 2-4 mm. latis, extus albis, villosotomentosus, disco flavo-aurantiaco; stipite brevi, albo, villosotomentoso, 1 mm. circiter longo; ascis subfuscideis, octosporis, 100-120 \times 7-8, poro jodi ope cœrulescente; paraphysibus septatis, apice acutatis, ascos superantibus, inferne 2-3 μ . latis; sporidiis fusiformibus, rectis v. curvulis, pluriguttulatis, demum spurie pluriseptatis, hyalinis, 36-45 \times 2-3; pilis ascomatis sub microscopio hyalinis cylindraceis, fasciculatis, granulosis, 3 μ . latis.

Hab. in cortice arborum pr. Blumenau Brasiliæ (MÖLLER). — Habitu et coloribus prorsus cum *Dasyscypha calycina* convenit, a qua notis micrologicis abunde diversa; videtur tamen magis cum *D. lachnoderma* (Berk.) Rehm affinitate conjuncta, at colora hymenii, sporidiis et ascis majoribus et pilis ascomatis minus latis, videtur satis distincta.

7. *Erinella marginata* Pat. Ann. Jard. Buitenz. 1897, I suppl. p. 120. 2963

— Ascomatibus sparsis, sessilibus, cylindraceis, 300 μ . altis, albidis, glabrescentibus, floccoso-marginatis; hymenio depresso, albido vel luteolo; ascis cylindraceis, apice obtusis, 100-115 \times 5-7, ope jodi vix cœrulescentibus; paraphysibus gracilibus, flexuosis; sporidiis filiiformibus, guttulatis, demum septatis (?), ascum æquantibus.

Hab. in foliis coriaceis indeterminatis, Buitenzorg, Java (MAS-SART).

8. *Erinella bambusina* Bres. Hedw. 1896, p. 296. — Ascomatibus 2964

breviter stipitatis, turbinatis, 1-1 $\frac{1}{3}$ mm. latis, extus villosis, luteo-cerinis, margine aureo-ciliato, disco flavido; stipite brevi, concolori v. fusco, tomentosulo, 1 mm. circiter longo, $\frac{1}{2}$ mm. crasso; ascis clavato-fusoides, octosporis, basi attenuato-pedicellatis, 80-100 \times 7-9, poro jodi ope cœrulescente; paraphysibus septatis, apice attenuato-subacutatis, medio 1 $\frac{1}{2}$ -2 μ . latis, ascos superantibus; sporidiis clavatis v. fusiformibus, rectis v. curvulis, hyalino-stramineis, continuis v. demum spurie septatis, 35-45 \times 2 $\frac{1}{5}$ -3; pilis ascomatis sub microscopio luteolis, granulatis, 3-4 μ . latis.

Hab. in culnis Bambusæ pr. Blumenau Brasiliæ (MÖLLER). — *Erinellæ orinocensi* Pat. et Gaill. proxima, a qua tamen notis datis bene distincta.

Fam. 3. Ascobolaceæ.

Sect. 1. Hyalosporæ.

CUBONIA Sacc. — Syll. VIII, p. 527.

1. *Cubonia dentata* Boud. Bull. Soc. Mycol. de France 1897, p. 15, 2965
tab. III, fig. II. — Media, hemisphærica, 2-6 mm. lata, extus le-
vis, marginata, pallide badia, margine membranaceo elevato den-
tibus triangularibus fisso, hymenio plano aut convexulo concolore
aut saturatiore; ascis operculatis, octosporis, hyalinis, cylindricis, sed
basim attenuatis, 200-250 \times 16-17; sporidiis perfecte rotundatis, al-
bis, intus non granulosis, 9-10 μ . crassis; paraphysibus hyalinis
ad apicem septatis, subarticulatis et paululo crassioribus, simpli-
cibus aut divisis, colore badio subinctis, 6-7 μ . crassis.

Hab. ad terram sabulosam a cuniculis stercoreatam et in ster-
core ipso, rarius in nemoribus in Gallia.

BOUDIERELLA Sacc. Bull. Soc. Roy. Bot. Belg. XXXIV, 1895, p. 130
(Ety. a *Boudiera*, cui analogum genus). — Ascomata carnosula,
sessilia, hemisphærica. Discus planus, margine ciliatus, ascis papil-
latus. Asci oblongi, 4-spori, fissura longitrorsus dehiscentes, para-
physati. Sporidia globosa, hyalina, laciniis seu squamis numerosis,
angustis, insigniter contacta. — A gen. *Boudiera* differt sporidiis
non octonis nec coloratis ascisque longitrorsus dehiscentibus.

1. *Boudierella cana* El. March. l. c. p. 131, tab. I, fig. 4-4 c. — 2966
Ascomatibus sparsis, 300-500 μ . diam., albis, sessilibus, margine
pilis subflexuosis hyalinis ciliato; paraphysibus numerosis, filifor-
mibus, articulatis, 1 $\frac{1}{2}$ -2 μ . crassis, superne ramosis, ascos supe-
raantibus; ascis rectis, 95-115 \times 20-25, subsessilibus, superne rotun-
datis, jodi ope haud cœrulescentibus; sporidiis monostichis, globo-
sis, 15-17 μ . diam., albidis (rarissime albido-cinerescentibus), opi-
sporio laciniis irregulares flexuosas gerente.

Hab. in fimo vulpino in Arduennis.

LASIOBOLUS Sacc. — Syll. VIII, p. 536.

1. *Lasiobolus horrescens* Roll. Bull. Soc. Myc. Fr. 1898, p. 83, t. IX, 2967
f. 3. — Gregarius, minutus, turbinatus, pilis albis longiusculis
extus hirsutus, disco papillato, albido, 300 μ . lato; ascis clavatis,
sursum dilatatis, breve rotundato-stipitatis, 110-120 \times 15, octospo-

ris; sporidiis late ovatis, hyalinis, monostichis, episporio granulato donatis, $12 \approx 9$.

Hab. ad folia Oleæ et sepala Rosæ marcescentia, Golf-Juan Galliæ. — Pili tenues 300 μ . et ultra longi, rigidi, continui, cuspidati.

ASCOPHANUS Boud. — Syll. VIII, p. 528, X, p. 32, XI, p. 421.

1. **Ascophanus Opuntia** Pat. Enum. Champ. Tunisie, 1892, p. 10, 2968
tab. II, fig. 5. — Minutus, 2-3 mm. diam., convexus, carnosus, tenuis, pallide roseus, subalbus v. carneus, siccitate obscurior, supra concavus, sessilis, centro filamentis hyalinis adfixus; contextu vix roseo, e cellulis angulosis formato; ascis elongatis, 15-20 μ ., rotundatis, apice obtusis operculatisque, basim versus attenuatis, jodi ope omnino cærulescentibus, octosporis; sporidiis subdistichis, ovoideis, hyalinis, levibus, 15-18 \approx 10-12; paraphysibus elongatis, apice leviter incrassatis.

Hab. ad terram humidam in silvulis Opuntiarum, Tunisia.

2. **Ascophanus Zukalii** Rehm, Discomycet. p. 1244. — Ascomatibus 2969
gregariis, sessilibus, globosis, dein patellatis, disco plano, luteo-brunneolis, 200-400 μ . latis, mollibus, basi hyphis numerosis, brunneolis, septatis, plerumque simplicibus, longis, usque ad 6 μ . crassis obsitis; ascis clavatis, apice truncatis, circiter 120 \approx 30, octosporis; sporidiis ellipticis, levibus unicellularibus, hyalinis, 25 \approx 12-14, distichis; paraphysibus filiformibus, reduncis, septatis, 3 μ . crassis.

Hab. in stercore anserino in Bohemia (ZUKAL).

3. **Ascophanus pyronemoides** Rehm, Discomycet. p. 1244. — Asco- 2970
matibus confertissimis, sessilibus, primo globosis, dein patellatis, extus glabris, sordide brunneo-luteis, 0,4-0,5 mm. latis, mollibus, contextu parenchymatico, tenui, flavescente; disco plano, immarginato; ascis cylindraceutis, apice rotundatis, 150-180 \approx 12, octosporis; sporidiis ellipticis, rotundatis, unicellularibus, levibus, hyalinis, 15 \approx 9, monostichis; paraphysibus filiformibus, hyalinis, 2 μ . crassis, apice 3-4 μ . crassis.

Hab. in solo stercoreato pr. Berolinum Germaniæ (SYDOW).

Sect. 2. Phæosporæ.

ASCOBOLUS Pers. — Syll. VII, p. 514, X, p. 31, XI, p. 420.

1. **Ascobolus roseo-purpurascens** Rehm, Discomycet. p. 1122. — 2971
Ascomatibus gregariis, sessilibus, clausis, globosis, dein apertis, ex-

tus glabris, pallide roseis, 0,3-0,8 mm. latis, gelatinoso-carnosis; disco plano, purpureo, subtiliter nigro-punctato; ascis clavatis, apice obtusis, usque 180 μ . longis, 25 μ . latis, octosporis, jodi ope cærulescentibus; sporidiis oblongo-ellipticis, obtusis, levibus, ex hyalino roseo-violaceis et in longitudine striatis, unicellularibus, 18-20 \times 8-9, distichis; paraphysibus ramosis, apice arcuatis, 2-3 μ . crassis, hyalinis, muco luteolo obductis.

Hab. in fimo cervino in Saxonia (KRIEGER). — *A. vinoso* proximus.

2. **Ascobolus Winteri** Rehm, Discomycet. p. 1124. — Ascomatibus ²⁹⁷² gregariis, hemisphaericis, sessilibus, luteo-brunneis, demum subnigris, glabris, 0,2-0,4 latis, gelatinosis, disco immarginato; ascis clavatis, apice rotundatis, 180-200 \times 30-33, octosporis, jodi ope cærulescentibus; sporidiis ellipticis, rotundatis, unicellularibus, ex hyalino brunneis, levibus, 24-30 \times 12-16, distichis, jodo violascentibus; paraphysibus filiformibus septatis, circiter 2½ μ . crassis, apice interdum paulum incrassatis, muco luteolo obductis.

Hab. in fimo anserino in Saxonia (WINTER) — var. **maucus** Rehm l. c. Ascomatibus, 0,1-0,2 mm. latis, atro-brunneolis; ascis 90-120 \times 24; sporidiis 18-22 \times 10, levibus, violaceis v. brunneis. In fimo cuniculorum pr. Berolinum Germaniæ (SYDOW).

3. **Ascobolus glaber** Pers.-Sacc. Syll. VIII, p. 517. — var. **albidus** ²⁹⁷³ El. March. Bull. Soc. Roy. Bot. Belg. XXXIV, 1895, p. 131. — Sessilis, albidus, glaber, externe levis, 1-1½ mm. diam.; ascis angustioribus; sporidiis 17-19 \times 10-12; paraphysibus ascos subæquantibus.

Hab. in fimo leporino in Belgio.

4. **Ascobolus Massei** Sacc. et Syd. Sic nominandus est *Ascobolus marginatus* Mass. in Syll. XI, p. 420, quum exstet anterior *Ascobolus marginatus* Pat. in Syll. VIII, p. 516.

Fam. 4. Dermateaceæ.

Sect. 1. Hyalosporæ.

DERMATEA Fr. — Syll. VIII, p. 550, XI, p. 422.

1. **Dermatea olivacea** Oth. Bern. Mittheil. 1868, p. 40. — Ascomatibus ²⁹⁷⁴ flavo-fulvidis, disco glauco-olivascens convexulo, leviter scabroso; ascis clavatis, 8-sporis; sporidiis oblongo-fusoideis, curvulis,

16-18 \times 5-6, subhyalinis, 4-guttatis; paraphysibus linearibus, dilute flavidis.

Hab. in ramis siccis Pruni avium in Helvetia.

2. **Dermatea Pini** Otth, Bern. Mittheil. 1868, p. 40. — Ascomatibus 2975
primum rotundato-obtusis, subpiriformibus, atris, cartilagineis, cæspitose erumpentibus, disco explanato-cavo, atro; ascis anguste clavatis, paraphysatis; sporidiis (immaturis visis).

Hab. in truncis Abietis excelsæ dejectis pr. Steffisburg Helvetiæ. — Status pycnidicus *Microperam* sistens: conceptaculis sessilibus subglobosis, nigris, carnosogrunosis, estiolis punctiformi; sporulis fusoidelongatis, continuis guttulis, stipatissimis, demum liberis, arcuatis, 67 \times 3.

3. **Dermatea ficicola** Pat. Journ. de Bot. 1897, p. 346. — Ascomatibus 2976
ex epidermidis rimis prodeuntibus, sessilibus, solitariis v. binis trinis associatis ac stromate indistincto insidentibus, orbicularibus v. ellipticis, $\frac{1}{2}$ -1 mm. diam., suberosis, duris, margine obtusis, fufure sordido-luteo conspersis; disco plano v. concavo, interdum lineari, demum nudo ac brunneo; ascis clavatis, apice rotundatis, crasse tunicatis, jodi ope non cærulescentibus, 150 \times 23-26, paraphysibus hyalinis simplicibus v. ramosis apice parum incrassatis obvallatis; sporidiis octonis distichis, ovoideis, hyalinis, levibus, 28-33 \times 12-15.

Hab. in cortice Fici, Tonkin.

CENANGIUM Fr. — Syll. VIII, p. 556, X, p. 36, XI, p. 423.

1. **Cenangium aureum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 468. 2977
— Ascomatibus erumpentibus, solitariis vel binis trinis consociatis, aureis, cupulatis, 2-3 mm. diam., floccoso-furfuraceis, demum subglabris, stipitatis, margine pallidiore, subfimbriato-floccoso, incurvo; stipite brevi, firmo, 1 mm. longo; ascis clavato-cylindraceis, 90-110 \times 7-8, octosporis, basim versus gradatim attenuatis; sporidiis monostichis, ovatis v. piriformibus, continuis hyalinis, 7-10 \times 3 $\frac{1}{2}$; paraphysibus filiformibus, ascos æquantibus, apice vix incrassatis.

Hab. in ramis emortuis Ceanothi velutini, Colorado Amer. bor. — *C. rubiginello* affine.

2. **Cenangium rosaceum** Rehm, Discomycet. p. 1220. — Ascomatibus 2978
gregariis, primo globosis, clausis, epidermide tectis, eam elevantibus et denique erumpentibus, patellatis, extus glabris, brunneolis, siccis involutis, contextu albescente, parenchymatico, $\frac{1}{2}$ -1 mm. la-

tis, coraceis; disco patelliformi, tenui, sublobato, pallide marginato, rosaceo; ascis clavatis, apice rotundatis atque incrassatis, 45-60 \times 6-7, octosporis; sporidiis oblongis, rotundatis, rectis v. leniter curvulis, unicellularibus, hyalinis, 7-9 \times 2, distichis; paraphysibus filiformibus, septatis, apice 4-5 μ . crassis, luteo-brunneolis, epithemium formantibus.

Hab. ad ramos aridos Hippophaës rhamnoidis in Helvetia.

3. **Cenangium populneum** (Pers.) Rehm - Sacc. Syll. VIII, p. 565. — 2979
 Var. **singulare** Rehm, Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, III, n. 5, p. 19, fig. 7. — Ascomatibus solitariis, nunquam fasciculatis, gregariis, superficialibus; sporidiis 8-12 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$; paraphysibus sursum vix vel perpauillum incrassatis.

Hab. ad peridermium internum denudatum truncorum veterum Populi Tremulæ pr. Nerike Sueciæ (SERANDER).

4. **Cenangium conglobatum** Ell. et Ev. Proc. Acad. Philad. 1895, 2980
 p. 428. — Ascomatibus in stromate communi 3-4 mm. diam. dense cæspitosis, cupuliformibus, intus extusque ferrugineis, margine pallidior, pilis brevibus pallidis levibus vestito, extus granuloso-pilosis; ascis clavato-cylindraceis, sessilibus, 8-sporis, 30 \times 5-6, subferrugineis; sporidiis subdistichis, allantoides, biguttulatis, hyalinis, obtusis, leniter curvulis, 5-6 $\frac{1}{2}$ \times 2-2 $\frac{1}{2}$; paraphysibus filiformibus, apice incrassatis, subferrugineis.

Hab. in ramis emortuis arborum et fruticum, Newfoundland Amer. bor. (WAGHORNE).

5. **Cenangium fuscum** Bres. Malpighia XI, 1897, p. 272. — Asco- 2981
 matibus laxè gregariis, erumpenti-superficialibus, ceraceo-coriaceis, e globoso turbinato-cyathoides v. rarius scutellatis, sessilibus, nigris, primo clausis, dein irregulariter dehiscentibus, $\frac{3}{4}$ -1 mm. latis; hymenio pallido; ascis fuscoideo-ventricosis, longe pedicellatis, 100-110 \times 14-18, jodo haud cærulescentibus; paraphysibus filiformibus, 1 $\frac{1}{2}$ -2 μ . crassis; sporidiis hyalinis, subreniformibus, 18-21 \times 7-9.

Hab. in ramis Abietis excelsæ in Italia (CARESTIA).

6. **Cenangium alpinum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 468. 2982
 — Ascomatibus sparsis, erumpentibus, nigris, $\frac{3}{4}$ -1 mm. diam., initio clausis, dein minute apertis, margine semper incurvato, fimbriato; disco sordide albo, urceolato; ascis dense aggregatis, cylindraceis, sessilibus, 50-55 \times 6-7; sporidiis subdistichis, allantoides, hyalinis, leniter curvulis, 2-3-nucleatis, 10-14 \times 2 $\frac{1}{2}$; paraphysibus filiformibus, apice non incrassatis.

Hab. in ramis decorticatis *Abietis*, Colorado Amer. bor. —

C. laricino proximum.

7. **Cenangium albo-atrum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2983

p. 136. — Ascomatibus gregariis obconicis breviter stipitatis, globosis clausis, dein discoideo-planis, $\frac{3}{4}$ -1 mm. diam., hymenio ardesiaco, anguste albo-marginato, demum omnino obscuro; ascis clavatis breviter stipitatis, 35-45 \times 6, paraphysibus linearibus obval-latis; sporidiis submonostichis ovato-ellipticis, hyalinis, continuis, 3-4 \times 2-2 $\frac{1}{2}$.

Hab. in ligno decorticato *Castaneæ vescæ*, W. Virginia Amer. bor. (NUTTALL).

8. **Cenangium trybliioides** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 2984

p. 136. — Ascomatibus gregariis sessilibus, nigris glabrisque, fibroso-contextis, lateraliter compressis, 1 mm. circiter longis, labiis incurvis, margine albido v. transverse ruguloso; hymenio pallido; ascis clavato-cylindraceutis stipitatis, 55-60 \times 8, paraphysatis, octosporis; sporidiis oblongis v. oblongo-ellipticis, hyalinis, continuis, 6-10 \times 2 $\frac{1}{2}$ -3, leniter curvulis, suballantoideis.

Hab. in ligno decorticato *Salicis*, Washington Amer. bor. (SUKSDORF).

9. **Cenangium australe** Pat. Bull. Soc. Myc. de Fr. 1895, p. 219. 2985

— Ascomatibus gregariis, coriaceo-membranaceis, turbinatis, substipitatis, 3-6 mm. diam., glabris, fusco-brunneis, disco concavo, fusciscente; ascis cylindraceutis, apice obtusis, 60 \times 5-8, octosporis, parcissime paraphysatis; paraphysibus linearibus, hyalinis; sporidiis monostichis, ovoideis, hyalinis, 6-5 \times 3 μ .

Hab. in lignis putridis in *Æquatoria* (v. LAGERHEIM).

10. **Cenangium Maydis** Rehm ap. Bäumlcr, Beitr. Pressb. Pilze 1896, 2986

p. 177. — Ascomatibus gregariis, primitus immersis, dein emergentibus, globosis, apice aperientibus et urceolatis, sessilibus, 2-3 mm. diam., parenchymatice fusco-rubro-contextis, scabris, in sicco fuscis, disco subfusco, hypothecio fuscidulo, crasso; ascis cylindraceutis, octosporis, 120 \times 10; sporidiis oblongis, obtusis, unicellularibus, haud nucleatis, hyalinis, monostichis, 10-12 \times 6-8; paraphysibus filiformibus, versus apicem irregulariter usque ad 3 μ . crassis, epithecium fuscidulum formantibus.

Hab. in culmis vetustis *Zeæ Maydis* pr. Pressburg Hungariæ.

11. **Cenangium tahitense** Pat. Bull. Soc. Myc. de Fr. 1896, p. 135, 2987

t. IX, f. 2. — Ascomatibus turbinatis, subsessilibus, gregariis, coriaceo-membranaceis, vix 1 mm. diam., glabris, obscure lateritiis,

clausis, dein apertis, margine tumido excedenti, disco concavo, atro-cinereo; ascis cylindraceis, gracilibus, 50-80 \times 5, dense stipatis paraphysatis, 8-sporis; sporidiis monostichis, ovoideis, hyalinis, minutis, 6-7 \times 3.

Hab. in Hypoxylis parasitans ad truncos, Ins. Tahiti.

12. **Cenangium biparasiticum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 2986

219. — Ascomatibus sessilibus, caespitosis, coriaceis, cupuliformibus, globosis clausisque, dein apertis, disco concavo, rufis, extus minute furfuraceis, margine involuto, crasso; ascis clavulatis, 110 \times 10-12, filiformi-paraphysatis; sporidiis 4-8 (plerumque 4-5), hyalinis, ovoideis, hyalinis, 10 \times 7.

Hab. in peritheciis Perisporiaceæ ejusdam ad folia arborum in Æquatoria (v. LAGERHEIM).

TYMPANIS Todæ — Syll. VIII, p. 578, X, p. 36, XI, p. 424.

1. **Tyimpanis Krietiana** D. Sacc. in Contrib. alle fl. mic. di Schemnitz. 2989

p. 21 in Atti di Soc. Ven. Trent. d. sc. nat. 2 ser. III, fasc. 1.
— Ascomatibus erumpentibus, nigris, griseo-pruinosis, coriaceis, cupulatis, siccis subtrigonis, disco concavo, griseo-azureo; ascis cylindraceo-clavatis, polysporis, 45-50 \times 4-5; sporidiis allantoides, hyalinis, 4-5 \times 1 $\frac{1}{2}$; paraphysibus ramosis, arcuatis.

Hab. in ramis emortuis Cratægi Oxyacanthæ in Hungaria (A. KMET). — *T. conspersæ* affinis.

Sect. 2. Didymosporæ.

CENANGELLA Sacc. — Syll. VIII, p. 587, X, p. 37, XI, p. 424.

1. **Cenangella abietina** Ell. et Ev. Proc. Acad. Philad. 1895, p. 429. 2990

— Ascomatibus erumpenti-superficialibus, gregariis, nigris, orbicularibus, circiter $\frac{1}{2}$ mm. diam., margine tenui, suberecto; ascis clavato-cylindraceis subsessilibus, 60-75 \times 12, 8-sporis; sporidiis ovato-ellipticis, distichis, luteolis, demum brunneis, 2-nucleatis, uniseptatis, 12-18 \times 6-7.

Hab. in vertice Abietis, Newfoundland, Amer. bor. (WAGHOENE).

2. **Cenangella tachnoides** Rehm in Rabenhorst-Pazschke, Fungi europ. 2991

n. 4170. — Ascomatibus gregariis, immersis, in pagina foliorum inferiore erumpentibus, dein sessilibus, primitus clausis, rotunde apertis, disco urceolato, crasse marginato, subhyalinis, extus ferrugineis, scabris, excipulo molli, crasso, flavo-fusco, parenchymatice

contextis, siccis plus minusve involutis, ceraceis, 0,5-0,8 mm. diam.; ascis cylindraceutis, apice rotundatis, $75 \approx 9$, octosporis; sporidiis oblongis, primitus hyalinis, dein fuscidulis, bicellularibus, ad septum hyalinum laud constrictis, $6-7 \approx 4$, monostichis; paraphysibus filiformibus, $2\frac{1}{2} \mu$. diam., hyalinis; hypothecio flavido.

Hab. in foliis *Ocoteæ* spec., Sao Francisco Brasilæ (ULÉ).

Sect. 3. Phragmosporæ

SCLERODERRIS Fr. — Syll. VIII, p. 594, X, p. 37, XI, p. 425.

1. **Scleroderris rubra** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 2992 1895, p. 43, tab. III, fig. 18. — Ascomatibus gregariis, erumpentibus, demum superficialibus cupulatisque, 2-3 mm. latis, coriaceis, extus brunneis, furfuraceis; hymenio rubro, atate brunneo; ascis cylindraceutis, octosporis, $130-150 \approx 12-15$, breve stipitatis; sporidiis oblique monostichis, oblongis, brunneis, 3-septatis, ad septa constrictis, loculis nucleatis, $20-30 \approx 8-10$; paraphysibus numerosis, filiformibus, ascos superantibus.

Hab. in ramulis emortuis *Asiminæ* trilobæ, Ohio Amer. bor.

2. **Scleroderris Spirææ** Rehm, Discomycet. p. 1220. — Ascomatibus 2993 gregariis, primo globosis, cortici immersis, erumpentibus, dein apertis, subtiliter rimosis, extus brunneis, levibus, siccis rugosis, striatis, $\frac{1}{2}$ -2 mm. latis, 10 mm. altis, contextu parenchymatico, molli; disco urceolato, albescente, margine lato, subtiliter fimbriato; ascis cylindraceutis, apice rotundatis, $80-90 \approx 8-9$, octosporis, jodo cærulescentibus; sporidiis subcylindraceutis, rectis vel leniter curvulis, 3-septatis, ad septa paulum constrictis, hyalinis, $30-36 \approx 3$, distichis; paraphysibus filiformibus, hyalinis, 1μ . crassis.

Hab. ad ramos aridos *Spirææ* ariæfoliæ ad Muskau Silesiæ (SYDOW) et pr. Rathenow Marchiæ. — Probabiliter importata et verisimiliter *Dermatea Spirææ* Schw. huc pertinet.

3. **Scleroderris abietina** Ell. et Ev. Americ. Natur. 1897, p. 427. 2994 — Ascomatibus erumpenti-superficialibus nigris, obconicis, circiter $\frac{1}{2}$ -mm. diam., hymenio discoideo v. convexo, areolatis, margine angustissimo, tenui, subobsoleto; ascis clavato-oblongis, sessilibus, apice rotundatis, $70 \approx 15$, octosporis; sporidiis fasciculatis, clavato-cylindraceutis, multiguttulatis, dein multiseptatis, $50-65 \approx 3-4$, hyalinis; paraphysibus filiformibus, ascos superantibus.

Hab. in cortice *Abietum* in Newfoundland Amer. bor. (WAGHORNE).

4. **Scleroderris cœrulea** Pat. Bull. Soc. Myc. de Fr. 1895, p. 220. — 2995

Ascomatibus erumpenti-superficialibus, sessilibus, rarius solitariis, sæpius in cæspitulos minutos, vix 1 mm. latos sociatis (insimul 2-8), glabris, nigris, concavis, margine crasso, $\frac{1}{4}$ mm. diam.; contextu coriaceo, celluloso-anguloso, intense cœruleo-brunneo; sporidiis fusioideo-ovoideis, rectis v. subinæquilateralibus, hyalinis, triseptatis, 23×10 .

Hab. ad ramos corticatos putres in Æquatoria v. LAGERHEIM).

5. **Scleroderris virescens** Mass. Journ. of Bot. 1896, p. 148, t. 357, 2996

fig. 5. — Ascomatibus interdum solitariis, subinde in cæspitulos sociatis (2-3 insimul) et basi plus minus connatis, suberumpentibus, primitus clausis et globosis, dein expansis, margine incurvo, glabris, atro-brunneis, siccis olivaceis, circiter 1 mm. diam., tenacibus; hypothecio et excipulo ex hyphis gracillimis intricatis viridibus marginem versus in cellulas transformatas compositis; ascis subcylindraceis, apice rotundatis, basi abrupte in pedicellum brevissimum contractis, jodi ope non cœrulescentibus, $85-95 \times 18$; sporidiis octonis, irregulariter distichis, hyalinis, levibus, rectis v. leniter curvulis, cylindrico-ellipsoideis, utrinque obtusis, 5-7-septatis, $32-35 \times 8-9$; paraphysibus numerosis, gracillimis, septatis, apice corymboso-ramosis, ramulis sursum incrassatis et viridi-tinctis.

Hab. in ligno dejecto putri, Bethlehem Amer. bor.

6. **Scleroderris Arundinariæ** Atk. Bull. Cornell Univ. III, n. 1, 2997

1897, p. 14. — Ascomatibus sessilibus, applanatis, $\frac{1}{2}$ -1 mm. diam. interdum margine irregulariter incurvato, atro-brunneis; disco pallido; ascis cylindraceis v. clavatis, $100-120 \times 12-14$, paraphysatis, octosporis; sporidiis distichis, clavato-cylindraceis vel fusioideis, hyalinis, plerumque 3-4-septatis, $35-40 \times 3-4$.

Hab. in culmis emortuis Arundinariæ tectæ, Auburn, Alabama Amer. bor.

Sect. 5. Scolecosporæ.

POCILLUM De Not. — Syll. VIII, p. 605.

1. **Pocillum Needhami** Mass. et Crossl. British Fungus-Flora IV, 2998

p. 498. — Hypophyllum, sparsum, subcylindraceum v. turbinatum, in basim stipitiforem brevissimam angustatum, disco circulari, planum, truncatum, albidum v. subcarneolum, siccum subsuccineum, circiter $\frac{1}{2}$ - $\frac{2}{3}$ mm. latum altumque, contextu ex hyphis parallelis, septatis, ad marginem brunneis, 4 μ . crassis, interdum ramosis; ascis

clavatis, apice angustatis, sæpe leniter curvulis, octosporis; sporidiis irregulariter distichis, hyalinis, levibus, continuis, sæpe guttatis, anguste ellipticis v. interdum levissime subclavatis, 18-20 \times 3-4; paraphysibus cylindraceis, gracilibus, hyalinis.

Hab. in foliis dejectis, verisimiliter Salicis Capræ in Britannia.

Fam. 5. Bulgariacæ Fr.

Sect. 1. Hyalosporæ.

OMBROPHILA Fr. — Syll. VIII, p. 613, X, p. 38, XI, 425.

1. *Ombrophila subsquaiida* Rehm, Discomycet. p. 1226. — Ascomatibus gregariis, sessilibus, primo globosis, clausis, dein apertis, extus brunneis, gelatinosis, 0,2-0,8 mm. latis, siccis involutis et extus rugosis; disco urceolato, dein patelliformi v. convexo, tenuissime marginato, hyalino; contextu parenchymatico e cellulis seriatim dispositis, minutis, brunneis composito; ascis anguste clavatis, apice rotundatis et incrassatis, 50-75 \times 8, octosporis; sporidiis bacillaribus, obtusis, rectis, unicellularibus, hyalinis, 9-12 \times 3 $\frac{1}{2}$, oblique monostichis; paraphysibus repetite furcatis, septatis, gracillimis, hyalinis, laxis.

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Hab. in foliis putridis Alni glutinosæ et Populi tremulæ in Saxonia (KRIEGER).

2. *Ombrophila dermatoides* Rehm, Discomycet. p. 1226. — Ascomatibus sparsis, sessilibus, primo globosis, clausis, dein patellatis, extus brunneolo-flavis, 1-6 mm. latis, in stipitem angustissimum et brevissimum angustatis, siccis involutis, carnosogelatinosis; contextu parenchymatico, crasso, extus brunneolo-flavo; disco plano, patelliformi, dein vix convexo, subtiliter marginato, purpureo-rubro; ascis clavatis, apice rotundatis et incrassatis, 60-80 \times 9-10, 4-8-sporis, jodo cærulescentibus; sporidiis ellipticis v. ovoideis, unicellularibus, hyalinis, 9-12 \times 4-5, oblique monostichis; paraphysibus filiformibus, laxis, hyalinis, 2 $\frac{1}{2}$ μ . crassis.

300

Hab. ad folia putrida Salicum pr. Berolinum Germaniæ (Sydow). — *O. Clavo* affinis, sed nullo stipite et sporidiis monostichis diversa.

3. *Ombrophila aterrима* Masee, Journ. of Bot. 1896, p. 148. — Ascomatibus sparsis v. gregariis, subobconicis, vix stipitatis, gelatinosis, siccitate corneo-rigidis et patellaribus, nigris; disco plano, distincte marginato, interdum levissime umbilicato, glabro, 3-4 mm.

3001

diam.; ascis cylindræcis, apice rotundatis, basi in pedicellum gracilem attenuatis, octosporis; sporidiis oblique monostichis, hyalinis, continuis, levibus, typice 2-guttulatis, ellipticis, utrinque subobtusis, 10-12 \approx 7; paraphysibus numerosis, gracilibus, hyalinis, apice piformi-incrassatis ibique 6-8 μ . crassis.

Hab. in ligno dejecto putri, ins. Juan Fernandez. — Habitu externo *Bulgariam inquinantem* colore nigro optime simulat.

4. *Ombrophila helotioides* Rehm in Rick Oesterr. bot. Zeitschr. 3002 1898, n. 1-2 (absque diagnosi).

Hab. in area ustulata ramulorum Abietis, Vorarlberg.

5. *Ombrophila roseola* Bres. Hedw. 1896, p. 296. — Ascomatibus 3003 stipitatis, plano-convexis, vel plano-subdepressis, carnosogelatinosis, glabris, roseis, 2-4 mm. latis; stipitibus albo-roseolis, compressis, sæpe connato-stipatis, faretis, 5-6 mm. longis, 1 $\frac{1}{2}$ -3 mm. crassis; ascis clavatis, octosporis, 80-90 \approx 6-8; paraphysibus ramosis filiformibus apice quoque hyalinis, 1 $\frac{1}{2}$ μ . circiter crassis; sporidiis subdistichis, clavatis, hyalinis, 8-10 \approx 3.

Hab. ad terram limosam pr. Blumenau Brasiliæ (MÖLLER). — Aspectu externo prorsus *Tremellam sarcoïdem* simulat, at affinitate *Ombrophilæ Clavi* proxima.

6. *Ombrophila microspora* (Ell. et Ev.) Sacc. et Syd., *Coryne mi-* 3004 *crospora* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 282. — Cæspitosa; ascomatibus carnosogelatinosis, dilute hepaticis, $\frac{1}{2}$ -1 cm. diam., centro depressis, deorsum in stipitem brevem crassum contractis, siccitate plus minusve rugosis; ascis cylindræcis, stipitatis, paraphysatis, 70-75 \approx 5-6, octosporis; sporidiis monostichis ellipticis, 2-nucleatis, hyalinis, 5-6 \approx 2 $\frac{1}{2}$ -3.

Hab. in trunco putrido, Canada Amer. bor. (MACOUN). — Habitu *Corynes urnalis*, sed ascomatibus majoribus ac sporidiis multo minoribus distincta species.

ORBILIA Fr. — Syll. VIII, p. 621, X, p. 40, XI, p. 426.

1. *Orbilia serpentina* Pat. Enum. Champ. Tunisie 1892, p. 11, t. II, 3005 fig. 6. — Ascomatibus roseis, cylindræco-disciformibus, planis v. subconcavis, $\frac{1}{2}$ mm. latis, gelatinosis; ascis magnis, 60-70 \approx 6, apice truncatis, basi calcaratis, octosporis; sporidiis magnis, 10-12 \approx 3-4, levibus, fusiformibus, utrinque acutis, intus granulosis; paraphysibus linearibus, ascos æquantibus, apice globosis, hyalinis, 5-6 μ . latis.

Hab. in caulibus emortuis Artemisiæ Herbæ-albæ, Tunisia.

2. **Orbilia arctica** Allesch. in Allescher et P. Hennings, *Pilze aus* 3006
dem Umanakdistrikt. 1897, p. 5. — Ascomatibus minutis, sparsis
vel laxe gregariis, erumpentibus, convexiusculis, immarginatis,
circularibus, pallide roseis; ascis clavatis, polysporis, ca. 40-60 ×
10-14; sporidiis innumeris, perexiguis, hyalinis, dein flavescensibus.

Hab. in caulibus foliisque *Potentillæ niveæ* var. pro-
stratæ pr. Umanak-Station Groenlandiæ (VANHÖFFEN). — *Orbi-*
liæ myriosporæ (Phill. et Harkn.) Sacc. valde affinis, hinc ad sub-
gen. *Myriellam* Sacc. spectat.

3. **Orbilia flavido-roseola** Rehm, *Discomycet.* p. 1224. — Ascoma- 3007
tibus gregariis, primo immersis, dein erumpentibus, patelliformi-
bus, flavido-roseis, 0,3-0,8 mm. latis, siccis involutis roseis v. in-
carnatis, parenchymatico-contextis; disco patelliformi, subtilissime
marginato; ascis clavatis, apice rotundatis, 30-45 × 5, octosporis;
sporidiis oblongis v. subfusiformibus, obtusis, rectis v. leniter cur-
vulis, unicellularibus, hyalinis, 7-9 × 2, distichis; paraphysibus fili-
formibus, apice 2-3 μ . crassis et interdum reduncis, hyalinis.

Hab. in caulibus aridis *Vincetoxici officinalis* pr. Nauen
Borussiæ (SYDOW). — *O. glaciali* Rehm proxima, sed colore asco-
matum et ascis multo angustioribus diversa.

4. **Orbilia andina** Pat. Bull. Soc. Myc. de Fr. 1895, p. 218. — Ses- 3008
silis, concaviuscula, gelatinosa, succinea, pellucida, 1-5 mm. diam.;
ascis claviformibus, 23-33 × 6-7, octosporis, coalescentibus; sporidiis
bacillaribus, rectis vel curvulis, hyalinis, 5-13 × 1; contextu exci-
puli anguloso-celluloso, cellulis 20-30 × 13-15; pagina externa non-
nullis pilis longissimis, hyalinis, septatis, 60-150 × 6-8, repentibus
prædita.

Hab. in truncis putridis *Chusqueæ* in Æquatoria (v. LAGER-
HEIM). — Var. *lateritia* Pat. l. c. *Lateritio-rubra*; sporidiis 5 × 1 μ .
— *O. Lanciculæ* (Mont.) Pat. affinis.

5. **Orbilia atro-purpurea** Clem. Bot. Survey of Nebraska IV, Lin- 3009
coln. 1896, p. 16. — Ascomatibus superficialibus, confertis, sessili-
bus, gelatinosis, in statu sicco corneis, concavis v. applanatis, ob-
scure purpureis, excipulo denso, fusco, 2-5 mm. diam.; ascis elon-
gatis, anguste cylindræis, jodo non cœrulescentibus, 150-160 ×
8-10; sporidiis hyalinis, granulosis, interdum spurie uniseptatis,
late fusoides, utrinque parum obtusis, confertis, monostichis, 20-
25 × 5-6; paraphysibus filiformibus, angustis, 1 μ . latis, apice cla-
vula minuta.

Hab. in ligno emortuo, Nebraska, Amer. bor.

GLEOPEZIZA Zukal — Syll. X, p. 41.

1. **Gleopeziza Zukalii** Rehm, Hedw. 1896, p. (147). — Ascomatibus 3010
gregariis, subplanis, sessilibus, dilute roseolis, excipulo plane caren-
tibus, intus hyalinis subgelatinosis, 0,2-0,8 mm. lat.; ascis cylin-
draceis, apice rotundatis, sæpe subcurvatis, 75 \times 9, 8-sporis; spo-
ridiis ellipticis vel ovatis, glabris, 1-cellularibus, nucleo unico,
oleoso, magno, centrali præditis, hyalinis, 9-11 \times 5, monostichis; pa-
raphysibus filiformibus, apice interdum hamulatis, hyalinis, 1 μ . lat.

Hab. parasitica supra Algas ad fossam silvestrem prope Mo-
nacum Baviariæ (ARNOLD). — Ascomatibus majoribus, ascis, para-
physibus non clavatis a *Gleopeziza Rehmii* Zuk. diversa.

Sect. 2. Phæosporæ.**SARCOSOMA** Casp. — Syll. X, p. 42, XI, p. 427.

1. **Sarcosoma camerunense** P. Henn. Engl. Jahrb. XXIII, p. 537, 3011
tab. XIV, fig. 1 a, b, c. — Ascomatibus gelatinosis, sessilibus,
turbinatis, dein subhemisphæricis, extus castaneis, tomentosis, 2-
3 $\frac{1}{2}$ cm. diam.; disco pallido, flavo-einescente, patelliformi, plano,
margine cincto, intus pallidis gelatinosis; ascis clavato-cylindraceis,
apice obtusis, basi angustioribus, curvatis, 8-sporis, circiter 300-
350 μ . longis, p. sporif. circiter 150-190 μ . longa, 16-20 μ . lata;
paraphysibus filiformibus, ascos vix superantibus clavatisque, fuscis,
4-10 μ . latis, intus guttulatis; sporidiis oblique monostichis, oblongo-
ellipsoideis, 2-3-guttulatis, utrinque obtuso-rotundatis, 18-32 \times 14-
18, episporio levi 1-1 $\frac{1}{2}$ μ . crasso, fuscidulo.

Hab. ad terram in Camerunia (ZENKER).

BULGARIA Fr. — Syll. VIII, p. 636, X, p. 41.

1. **Bulgaria mexicana** Ell. et Holw. Bot. Gaz. 1897, p. 37. — Ob- 3012
conica, stipitata. 2 $\frac{1}{2}$ -3 $\frac{1}{2}$ cm. diam., carnosogelatinosa, siccitate
dura ac rigida; margine involuto, rugosa, glabra, olivaceo-nigra, in-
tus albida; hymenio rubescenti-brunneo, rimoso; stipite centrali,
brevis, firmo, in sicco rugoso; ascis cylindraceis, stipitatis, 8-sporis,
250-270 \times 15; sporidiis monostichis allantoides, utrinque rotundatis,
leniter curvulis, centro vulgo vacuolo magno donatis, subhyalinis,
25-34 \times 8-10; paraphysibus filiformibus, apice leniter incrassatis
ibique brunneolis.

Hab. ad truncos, Cuernavaca, Mexico (HELWAY).

Sect. 3. Didymosporæ.

CALLORIA — Syll. VIII, p. 639, XI. p. 427.

1. *Calloria tricho-rosella* Rehm, Discomycet. p. 1225. — Ascomatibus 3013
gregariis, primo immersis dein erumpentibus et sessilibus, globosis,
clausis, demum patelliformibus, fulvis, siccis involutis et subcinna-
barinis, 0,2-0,4 mm. latis, ceraceis, extus setis paucis acutis sim-
plicibus, nitidis, hyalinis, $15 \approx 3-5 \mu$. vestitis, contextu gracillimo,
subhyalino, prosenchymatico; disco patelliformi, plano, tenuiter
marginato; ascis clavatis, apice rotundatis et incrassatis, $60-90 \approx$
12, octosporis; sporidiis oblongis, obtusis, primo unicellularibus
biguttulatis, denique bicellularibus, hyalinis, $10-12 \approx 4-5$, oblique
mono-vel distichis; paraphysibus filiformibus, 2μ . crassis, apice
 $3-5 \mu$., hyalinis.

Hab. in caulibus aridis Cirsii spinosissimi in Helvetia.

2. *Calloria? incarnata* Bres. Malpighia XI, 1897, p. 273 — Asco- 3014
matibus sparsis v. gregariis, ceraceo-gelatinosis e subgloboso pa-
tello-marginatis, sessilibus, 1-2 mm. latis, extus roseolis, sub
lente puberulis; hymenic roseo-incarnato; ascis cylindræo-sub-
clavatis, $66-75 \approx 5-6 \frac{1}{2}$, jodo leviter cœrulescentibus; sporidiis hya-
linis, fusoidis v. subclavatis, uniseptatis, $8-10 \approx 3-3 \frac{1}{2}$, non v. vix
constrictis; paraphysibus crebris, apice clavato, $3-4 \mu$. lato.

Hab. in Hepaticis in Italia (CARESTIA).

Sect. 4. Scolecosporæ.

AGYRIOPSIS Sacc. et Syd. *Agyriella* Ell. et Ev. in Bull. Torr. Bot.

Cl. 1897, p. 470 nec Sacc. (Etym. *Agyrium* et *opsis*, facies). —

Ab *Agyrio* tantum differt sporidiis linearibus, multicellularibus.

1. *Agyriopsis Betheli* (Ell. et Ev.) Sacc. et Syd. *Agyriella* Ell. et Ev. 3015
l. c. — Ascomatibus orbicularibus, convexo-discoideis, carnosogelatinosis, fumoso-griseis, intus et marginem versus dilutionibus,
 $\frac{1}{2}-\frac{3}{4}$ mm. diam., tota superficie inferiori matrici affixis; ascis
cylindræis, sessilibus, $120-150 \approx 10-12$; sporidiis linearibus, $50-60$
 μ . longis, e cellulis globosis v. ellipticis circiter 4μ . diam. v. $5-6 \approx$
 $3 \frac{1}{2}-4$ metientibus, facile jam inasco secedentibus compositis; pa-
raphysibus filiformibus, 2μ . crassis, apice parce ramosis ibique non
incrassatis.

Hab. in ramulis Bigeloviæ, Colorado Amer. bor. (BETHEL).

HOLWAYA Sacc. — Syll. VIII, p. 646.

- 1.
- Holwaya tiliacea**
- Ell. et Ev. Americ. Natur. 1897, p. 427. — 3016

Ascomatibus gregariis v. solitariis, subcupulatis, dein explanatis, planis, siccis tenuibus, margine subundulato, 2-4 mm. diam., nigris, stipite brevi crasso; ascis cylindraceis, breve stipitatis, 120-150 \times 7-8; sporidiis fasciculatis v. subdistichis, anguste fusoido-cylindraceis, subrectis, multiguttulatis, hyalinis, 40-62 \times 3-3 $\frac{1}{2}$; paraphysibus (?).

Hab. in cortice emortuo tiliaceo in Canada (MACOUN). — Habitu externo *Bulgariam inquinantem* in memoriam revocat; status conidioph. verisimiliter est *Stilbum magnum* Peck.

Fam. 6. Stictidaceæ

Sect. 1. Hyalosporæ.

PROPOLIS Fr. — Syll. VIII, p. 648. X, p. 44.

- 1.
- Propolis viridis**
- Duf. ap. Roll. Bull. Soc. Myc. de Fr. 1896, p. 1, 3017

tab. I, fig. 1. — Infossa, secus fibras erumpens et matricis frustulis cincta, elongata, circiter 1-2 $\frac{1}{2}$ mm., æruginosa; ascis cylindricis, pedicellatis, 90-100 \times 18-20, octosporis; sporidiis hyalinis, mono-vel subdistichis, oblongis, inæquilateralibus, guttatis, 16-17 \times 5-7; paraphysibus filiformibus, coalitis, ad apicem colore saturate viridi tinctis et noduloso-ramosis.

Hab. ad radices *Ericæ arboreæ* etc. pr. Cannes Gallia. — Hanc speciem (ut subspeciem notatam) a *Propoli versicolore* separandam censeo; quippe a typo Friesiano forma semper oblongata, colore saturate æruginæ, nec non organis hymenii certe distat (Rolland. l. c.)

OCELLARIA Tul. — Syll. VIII, p. 654, X, p. 45.

- 1.
- Ocellaria Masseana**
- Sacc. et Syd.
- Ocellaria succinea*
- Mass. Bri- 3018

tish Fungus-Flora IV, p. 83, nec Sacc. — Erumpens, plerumque 3-4 consociatæ, subturbinata, disco subplano v. lenissime convexo, margine gracili primo connato cincta, subsuccinea, uda subtranslucens. $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam.; excipuli contextu parenchymatico, cellulis 6-8 μ . diam.; ascis clavatis, apice angustatis, octosporis, pedicello longo, gracili; sporidiis irregulariter distichis, levibus, hyalinis, anguste ellipticis, 14-16 \times 6; paraphysibus numerosis, filiformibus, apice non incrassatis, 1 $\frac{1}{2}$ μ . crassis, agglutinatis.

Hab. in cortice fagineo in Britannia.

NÆVIA Fr. — Syll. VIII, p. 658, X, p. 45, XI, p. 428.

1. *Nævïa Belladonnæ* Rehm, Discomycet. p. 1216. — Ascomatibus 3019
gregariis, primo immersis, dein per epidermidem longitudinaliter
erumpentibus, sessilibus, orbicularibus v. oblongo-ellipticis, 0,2-
0,5 mm. longis, 0,2-0,3 mm. latis, ceraceis, siccis complicatis, atro-
rubris, contextu tenuissimo, pallido; disco plano v. vix fornicato,
tenui, marginato; aseis clavatis, apice rotundatis, 60-70 \times 10-12,
octosporis; jodi ope ascorum poro cœrulescente; sporidiis ellipticis,
subobtusis, rectis v. leniter curvulis, unicellularibus, hyalinis, 12-
14 \approx 3-3 $\frac{1}{2}$, distichis; paraphysibus filiformibus, septatis, 2 $\frac{1}{2}$, apice
usque ad 5 μ . crassis, hyalinis.

Hab. in caulibus aridis *Atropæ Belladonnæ* in Saxonia
(KRIEGER). — Ad *Briardiam* accedit.

2. *Nævïa monjliispora* Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 3020
III, n. 5, p. 17, fig. 3. — Ascomatibus sparsis, primitus immersis,
clausis sphæroideis, deinde margine, cum epidermide lacerata con-
junctis erumpentibus, circulariter patellaribus, fuscis v. castaneis
disco pallide fulvo-melleo, 0,3-0,5 mm. diam., texturæ cellulis mi-
nutis globulosis, marginem versus seriebus cellularum attenuatis
perpaullum inter se distantibus; aseis 8-sporis, clavatis, sursum
rotundatis, sessilibus, 42-52 \times 6-7; sporidiis monostichis modo omni-
bus, modo nonnullis transversim jacentibus, ovoideis v. ovoideo-
ellipsoideis, simplicibus, kalio adjecto endoplasmate partito, 6-7 \times
3-3 $\frac{1}{2}$; paraphysibus numerosis, filiformibus, firmulis, sursum sen-
sim latioribus, ad apicem 4 μ . latis, simplicibus, hyalinis, sparsim
septatis, ascos æquantibus vel fere superantibus.

Hab. in foliorum aridorum superiore pagina Rubi Chamæ-
mori, Oestergötland Sueciæ (HAGLUND).

3. *Nævïa obscuro-marginata* Starb. Bih. K. Sv. Vet. Ak. Handl. 3021
XXI, 1895, III, n. 5, pag. 18, fig. 4. — Ascomatibus gregariis
sæpe longe lateque culmos ambientibus, sphæroideis vel late len-
ticularibus, primitus clausis, immersis, deinde per epidermidem
sæpe quadristellatim vel longitudinaliter fissam erumpentibus, ma-
defactis superficiem matricis conice superantibus ore latiusculo,
circulari vel polygono, non raro quadrigono apertis, pallide ochra-
ceis v. flavescensibus, margine lacerato, obscuriore rufescente, 0,2-
0,3 mm. diam., textura globulosa cellulis minutis, marginem versus
seriebus cellularum permultum productis, 1,5-2 μ . latis; aseis 8-
spor. cylindræo-fusiformibus, sursum angustioribus, attenuatim
obtusatis, 40-50 \times 4 $\frac{1}{2}$ -5; sporidiis distichis, aciculari-fusoideis vel

perpaullum clavulatis, simplicibus, hyalinis, $12\frac{1}{2}$ - $17 \approx 2$; paraphysibus teretiuseculis, gracilibus, 2μ . latis.

Hab. in culmis aridis Junci effusi pr. Dröbak Norvegiæ.
— *N. Lamyi* (Mont.) Rehm affinis margine obscuro sporidiisque angustioribus mox differt.

Sect. 2. Didymosporæ.

DIPLONÆVIA Rehm — Syll. VIII, p. 666, XI, p. 428.

1. *Diplonævia Chærophylli* (Rehm) Sacc. et Syd. *Phragmonævia Chærophylli* Rehm, Discomycet. p. 1218. — Ascomatibus gregariis, primo clausis, immersis, dein epidermidem rumpentibus, emergentibus, orbicularibus, siccis parum complicatis, 0,3-0,7 mm. latis, contextu molli, luteo-brunneo; disco plano, subtilissime et irregulariter marginato, brunneo v. rubro-brunneo; ascis clavatis, apice rotundatis, 80-90 \approx 15, octosporis; sporidiis fusiformibus, bicellularibus, hyalinis, 12-15 \approx 5, distichis; paraphysibus septatis, apice furcato-ramosis, 3-5 μ . latis, flavescensibus, epithecium formantibus.

Hab. ad caules aridos Chærophylli aromatici in Saxonia (KRIEGER).

Sect. 3. Phragmosporæ.

PROPOLIDIUM Sacc. — Syll. VIII, p. 667, XI, p. 429.

1. *Propolidium ambiguum* Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 3023 1895, III, n. 5, p. 19, fig. 6. — Ascomatibus sparsim gregariis, primo clausis, plane globosis, deinde ore plerumque circulari apertis, margine pallido, tumidulo, pro maxima parte ligno elevato figuratis, matricem fere plane immutatam superantibus, discum fulvido-ochraceum detegentibus, 0,2-0,3 mm. diam.; ascis 8-sporis, cylindraceis, sessilibus, sursum rotundatis, 50-55 \approx 6-7; sporidiis oblique monostichis vel plerumque distichis, fusiformibus vel fusiformi-elongatis, hyalinis, primo continuis, deinde 3-septatis, 13-17 \approx $2\frac{1}{2}$ -3; paraphysibus numerosis, filiformibus, hyalinis, ramosis, sursum clavulatis vel globulosis, 2μ . incrassatis.

Hab. in ligno pineo carioso pr. Norrköping Sueciæ (HAGLUND).
— Jodi ops nulla. Species cum *Cryptodisco niveo* primo aspectu fere omnino congruit, ascis jodo non cœrulescentibus, generico autem facile dignoscenda est.

CRYPTODISCUS Corda. — Syll. VIII, p. 669.

1. **Cryptodiscus Andersoni** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3024 p. 469. — Ascomatibus pallide carneis, ellipticis, $\frac{1}{2}$ mm. longis, initio epidermide tectis, dein, eâ acuto-elliptice fissâ, erumpentibus; ascis clavato-cylindraceis, 27-30 \approx 4, sessilibus, octosporis; sporidiis distichis, fusoido-cylindraceis, 3-septatis, 11-14 \approx 1 $\frac{1}{2}$ -2; paraphysibus filiformibus, apice subramulosis ibique conidia subglobosa hyalina 2 μ . diam. metientia gerentibus.

Hab. in stipitibus emortuis Pteridis aquilinæ, Newfield N. J. Amer. bor. (ANDERSON).

PHRAGMONÆVIA Rehm. — Syll. VIII, p. 674.

1. **Phragmonævia alpina** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 3025 1895, III, n. 5, p. 18, f. 5. — Ascomatibus laxè gregariis, primo sphæroideis, clausis, deinde per epidermidem elevatam 4-5-stellatim erumpentibus, fusco-nigricantibus, disco ochraceo v. fuscescente, vix matricis superficiem superantibus, 0,2-0,5 mm. diam., textura cellulis minutis prismatica; ascis 8-sporis, clavatis, sursum obtusato-rotundatis, fere sessilibus, 45-55 \approx 6-7; sporidiis distichis v. tristichis, aciculari-vel fusoido-clavulatis, superne rotundatis, inferne acutatis, rectiusculis v. sæpissime curvatis, primo continuis, deinde 1-2-septatis, 18-25 \approx 2 $\frac{1}{2}$ -4; paraphysibus filiformibus, ramosis, sensim sursum 2-4 μ . clavulatim incrassatis.

Hab. in caulibus siccis Ranunculi acrotifolii, Jemtland Sueciæ (GREVILLIUS). — Species quam maxime *Ph. emergenti* Karst. proxima sporidiis longioribus, præsertim autem paraphysibus plane planeque differt. In siccitate maculas tantum minutissimas, rotundas, nigerrimas fungillus præbet.

XYLOGRAMMA Wallr. — Syll. VIII, p. 677, XI, p. 429.

1. **Xylogramma graminis** Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 14. — Ascomatibus linearibus, obscure brunneis, immersis, epidermidem atratam findentibus, 2-4 mm. longis; disco dilute colorato, margine non elevato; ascis oblongis v. cylindraceis, breve 3026 stipitatis, 40-60 \approx 10-12, paraphysatis; sporidius octonis, distichis, oblongis v. clavatis, uno apice attenuatis, subtiliter 3-4-septatis, hyalinis, 12-15 \approx 2-3.

Hab. in culmis Chrysopogonis nutantis, Auburn, Alabama Amer. bor.

Sect. 4. *Scolecosporæ*.

KARSTENIA Fr. — Syll. VIII, p. 702.

1. **Karstenia subillacina** Ell. et Ev. Bull. Labor. Nat. Hist. Univ. 3027

Jowa IV, 1896, p. 69. — Ascomatibus 2-4 mm. diam. applanatis, tenuibus, dilute glauco-lilacinis, primitus velo tenui dilute colorato membranaceo inclusis, mox erumpentibus et fragmentis veli disrupti et epidermidis lobis ruptæ limitatis; ascis clavato-ellipsoideis subsessilibus, 110-120 \times 25-30; sporidiis conglobatis fasciculatis, vermiculari-fusoideis, hyalinis, 75-85 μ . longis, subundulatis v. leniter curvulis, medio 12 μ . circiter crassis, utrinque attenuatis, nucleis 15-24 ellipticis transverse dispositis repletis; paraphysibus copiosissimis simplicibus, ascos superantibus, supra stratum e conidiis luteolis subglobosis 4 μ . diam. compositum gerentibus.

Hab. in cortice viridi arboris minutæ pr. Castillo Nicaraguæ (SMITH).

CARESTIELLA Bres. Malpighia XI, 1897, p. 274 (Etym. a strenuo collectore et botanico Ab. ANT CARESTIA). — Ascomata immersa, immarginata, ceracea, ambitu subregularia, concava; ascis clavati, polyspori; sporidia hyalina, subfusoideo-acicularia, pluriseptata.

1. **Carestiella socia** Bres. l. c. — Ascomatibus immersis, concavis, 3028

gregariis, orbicularibus, 1 mm. circiter latis, margine vix erumpente subinciso; hymenio atro-olivaceo v. nigro; ascis clavatis, plurisporis, 90-106 \times 11-15, jodo poro transitus cærulescente; paraphysibus apice clavato, olivaceo-granuloso, 3-4 μ . crasso; sporidiis hyalinis, utrinque attenuato-convexis, 5-8-septatis, 36-45 \times 2.

Hab. in ramis Populi tremulæ, Riva-Valsesia, Italia (CARESTIA).

STICTIS Pers. — Syll. VIII, p. 681, X, p. 46, XI, p. 429.

1. **Stictis maritima** Roll. Bull. Soc. Myc. 1898, p. 84, t. IX, f. 5. 3029

— Gregaria, immersa, orbiculariter aperta, 0,5 mm. diam., disco urceolato, albido, margine sordide albo stellatim denticulato cincto; ascis cylindricis, apice abrupte conico-mamillatis, crasse et breve stipitatis, 80-95 \times 8-10, octosporis, jodi ope ultimo apice cærulescente; sporidiis filiformi-clavatis, extra ascos curvulis, 8-10-septatis, hyalinis, 60-80 \times 1,5-2; paraphysibus numerosis, filiformibus, hyalinis, apice aliquando leviter incrassatis.

Hab. ad conos dejectos Pini maritimæ pr. Corte Corsicæ.

— A *St. Caresticæ* parvitate ascorum et colore ascomatis differt.

2. **Stictis Rubiacearum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 220. — 3030

Hypophylla, maculicola; maculis amphigenis, rufulis, irregularibus, 2-3 cm. longis; ascomatibus immersis, dein erumpentibus, margine triangulatim 5-8-fisso, demum reflexo, cinotis; disco $\frac{1}{3}$ - $\frac{1}{2}$ mm. late, plano, ceraceo, pallide rufo; ascis 8-sporis, 80-100 \times 6-8; paraphysibus linearibus, apice ramulosis; sporidiis chlorino-hyalinis, filiformibus, flexuosis, 7-10-septatis, utrinque acutis, 65-75 \times 2.

Hab. in foliis Rubicæe ejusdam in Æquatoria (v. LAGERHEIM).

3. **Stictis serpentaria** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 469. 3031

— Ascomatibus erumpentibus, orbicularibus v. ellipticis, 1-2 mm. longis, intus cinereis, disco ardesiaco suburceolato, margine griseo dentato-lobato, revoluto; ascis cylindræeis, subsessilibus, 300-350 \times 15; sporidiis octonis, fuscoideo-cylindræeis, multiseptatis (50-60-ies), ad septa leniter constrictis, inasco parallele recteque dispositis, extra ascos serpentino-collectis, circiter 300 \times 4-5; paraphysibus filiformibus, apice vix incrassatis ibique dilute coloratis.

Hab. in ligno decorticato Salicis, Washington Amer. bor. (SUKSDORF). — *S. pachysporæ* proxima.

4. **Stictis fusca** Ell. et Barth. Erythea 1896, p. 3. — Immersa, 3032

urceolata, orbicularis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; excipulo hymenioque olivaceo-nigris; margine albo-pruinoso, erumpenti, constricto; ascis cylindræeis, 180-200 \times 5-6, octosporis; sporidiis filiformibus, nucleatis, ascos subæquantibus, $1\frac{1}{2}$ μ . crassis; paraphysibus filiformibus, $1-1\frac{1}{4}$ μ . crassis, supra plus minusve ramosis, vix incrassatis.

Hab. in raris emortuis Symphoricarpi occidentalis, Kansas Amer. bor. (BARTHOLOMEW). — *S. atro-albæ* proxima.

5. **Stictis corticioides** Pat. Bull. Soc. Myc. de Fr. 1895, p. 220. — 3033

Sparsa, ligno immersa, orbicularis, 3-6 mm. diam., clausa, dein aperta, margine tenui erecto, irregulariter inciso, luteolo, glabro, cincta; disco plano, aurantio-luteo, ceraceo; ascis cylindræeco-clavatis, apice poro pertusis, 250-300 \times 16-20; sporidiis hyalinis, filiformibus, utrinque acutis, rectis v. flexuosis, transverse multiseptatis, 150-200 \times 4-4 $\frac{1}{2}$; paraphysibus hyalinis, filiformibus, 4 μ . crassis, coalescentibus, copiosissimis, superne furcatis acutisque, epithecium flavidulum formantibus, ramulis 20 μ . longis.

Hab. ad ligna putrida in Æquatoria (v. LAGERHEIM).

SCHIZOXYLON Pers. — Syll. VIII, p. 697, X, p. 47, XI, p. 430.

1. **Schizoxylon microstomum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3034

p. 136. — Ascomatibus sparsis v. gregariis, conico-papilliformibus, orbicularibus v. subellipticis, 1-1 $\frac{1}{4}$ mm. diam., primitus epidermide pustulatim elevata velatis, dein suberumpentibus atque disco minutum $\frac{1}{2}$ mm. latum nigrum circularem, margine subelevato pallidiore limitatum nudantibus; ascis cylindraceis, 250 \times 12-14, basi abrupte in stipitem brevem contractis paraphysibusque copiosissimis filiformibus ramosis obvallatis; sporidiis cylindraceis hyalinis, fasciculatis, ascos subæquantibus, demum in articulos cylindraceos 3-6-septatos 10-30 \times 3 $\frac{1}{2}$, ad septa constrictos secedentibus.

Hab. in ramis emortuis *Andromedæ ligustrinæ*, New Jersey Amer. bor. — Aspectu externo *Didymosphaeriam grumatam* in memoriam revocat.

2. **Schizoxylon andinum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 220. — 3035

Sparsum vel gregarium, cortice immersum, dein erumpens, subglobosum, 1 mm. altum, pulverulentum, carnosulum, rufulo-atrum, apice poro pertusum; disco pallido, subgelatinoso; ascis cylindraceis, 8-sporis, 600 \times 8-10; paraphysibus filiformibus, hyalinis, simplicibus; sporidiis linearibus, hyalinis, multiseptatis, longissimis, 3 μ . crassis, articulis 5-6 μ . longis.

Hab. ad fragmenta dejecta in *Æquatoria* (v. LAGERHEIM).

3. **Schizoxylon bicolor** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 469. — 3036

Ascomatibus erumpentibus, 1-2 mm. diam. initio membrana tenui olivaceo-grisea clausis, dein ore rotundo apertis, margine horizontaliter incurvato, albo, pulverulento, subfimbriato; disco cupulato-urceolato, dilute aurantiaco; ascis cylindraceis, supra attenuatis, 200-250 \times 6-8, subsessilibus, paraphysibus filiformibus obvallatis; sporidiis filiformibus, ascos æquantibus, multinucleatis, dein multiseptatis, involutis, 1 $\frac{1}{2}$ -2 μ . latis, in articulos 15-30 μ . longos semicirculares v. varie curvulos secedentibus.

Hab. in ligno decorticato *Salicis*, Colorado Amer. bor.

Sect. 5. Dictyosporæ.

MELITTOSPORIUM Corda. — Syll. VIII, p. 704.

1. **Melittosporium Lindavianum** P. Henn. Hedw. 1897, p. 234. — 3037

Ascomatibus subcarnosis, immerso-erumpentibus, primo subhemisphæricis, dein cupulatis, minutis, flavo-rubrescentibus, dein atris; ascis oblique ovatis vel ellipticis, sessilibus, raro subpedicellatis, 8-

sporis, 100-130 \times 45-65; sporidiis subconglobatis, oblongis, utrinque obtusis, 7-8-septatis, muriformibus, loculis subquadratis.

Hab. in caulibus *Adesmiæ trijugæ* var. *robustæ* in prov. Mendoza Argentina (Kurtz).

2. **Melittosporium lichenicolum** (Mont.) Mass. *Stictis lichenicola* Mont. 3038
Ann. Sc. Nat. 1836, v. p. 281, tab. XIII, fig. 3, Phil. Brit. Disc. f. 382, Cke. Hdbk. p. 735, Masee, British Fungus-Flora IV, p. 88 cum fig., *Urceolaria scruposa* var. *parasitica* Sommerf. Supplem. Fl. Lapp. 1826, p. 100. — Initio immersum, dein erumpens, explanatum planumque; margine atro, leniter clavato, minute lacerato; disco atro; ascis elliptico-clavatis, subsessilibus, basi latis, 4-sporis; sporidiis late ellipticis, 5-septatis, muriformibus, pallide olivaceis, 30-35 \times 12-14; paraphysibus numerosis, filiformibus, apice leniter incrassatis, hyalinis.

Hab. parasiticum in thallo *Cladoniæ pyxidatæ* etc. in Britannia, Gallia, Lapponia.

Fam. 7. Phacidiaceæ FR.

PHACIDIUM Gr. — Syll. VIII, p. 709, X, p. 48, XI, p. 431.

1. **Phacidium Populi** Lasch in Rehm, Discomycet. p. 1212. — Spar- 3039
sum. erumpens, subrotundum, initio clausum, dein inæqualiter obtusato-lobato-rimosum, extus pallidum, disco plano, brunneolo; ascis clavatis, magnis, paraphysatis.

Hab. in foliis putrescentibus *Populi* in Germania. Species dubia.

2. **Phacidium Arctostaphyli** Karst. - Sacc. Syll. VIII, p. 711. — forma 3040
Rhododendri Sacc. Malpighia XI, 1897, p. 275. — Sporidiis paullo crassioribus, 12-15 \times 6; ascomatibus remotioribus.

Hab. in foliis *Arctostaphyli officinalis* in Italia (CARESTIA). — Forma **Vitis-Idææ** Sacc. l. c. p. 276. — Sporidiis angustioribus, magis curvis, 15-17 \times 3-3 $\frac{1}{2}$; ascis 60 \times 12. In foliis *Vaccinii Vitis Idææ* in Italia boreali (CARESTIA).

PSEUDOPEZIZA Fuck. — Syll. VIII, p. 723, XI, p. 431.

1. **Pseudopeziza Kriegeriana** Rehm, Discomycet. p. 1229. — Asco- 3041
matibus gregariis, maculis flavescentibus foliorum insidentibus, primo immersis, dein emergentibus, patelliformibus, disco orbiculari tenuiter marginato, rubro-albis, 50-100 μ . latis, ceraceis, siccis subochraceis; ascis clavatis, apice obtuso-acuminatis, sessilibus, 24-27 \times 7-8, octosporis, jodi ope cœrulescentibus; sporidiis cunei-

formibus, rectis, unicellularibus, hyalinis, 6-8 × 2-3, distichis; paraphysibus filiformibus, 2 μ . crassis, hyalinis; contextu parenchymatico, flavescens

Hab. in fronde *Struthiopteridis germanicæ* in Saxonia (KRIEGER).

TROCHILA Fries — Syll. VIII, p. 728, X, p. 49.

1. **Trochila Astragali** Rehm, *Discomycet.* p. 1214. — Ascomatibus gregariis, primo globosis, clausis, sub epidermide immersis, dein eam elevantibus et multilobate rumpentibus, emergentibus, sessilibus, patellatis, disco plano, tenui, griseo, tenuiter et irregulariter marginato, siccis corrugatis et extus griseo-pulverulentis, contextu parenchymatico, brunneo, ceraceo, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latis; ascis cylindraceo-clavatis, apicæ rotundatis, 50-60 × 6-7, octosporis; sporidiis ellipticis, unicellularibus, minute biguttulatis, hyalinis, 8 × 4, monostichis; paraphysibus sursum usque ad 4 μ . latis et flavescens. 3042

Hab. ad caules aridos *Astragali glycyphylli* in Saxonia (KRIEGER).

STEGIA Fr. — Syll. VIII, p. 733.

1. **Stegia quercea** Fautr. et Lamb. *Rev. Mycol.* 1896, p. 144. — Ascomatibus epiphyllis v. hypophyllis, numerosissimis, griseolis, in maturitate operculo oaduco tectis, hymenio pallido; ascis linearibus, apice attenuatis, circiter 40 × 4-5; sporidiis sursum in ascis oblique dispositis, fusiformibus, 5-7 × 1-1 $\frac{1}{2}$; paraphysibus acicularibus, sæpe ascos superantibus. 3043

Hab. in foliis *Quercus rubræ* in Gallia.

2. **Stegia Caricis** Peck, 49 *Rep. Stat. Bot. N. York* 1896, p. 23. — Ascomatibus orbicularibus, 180-260 μ . latis vel late ellipticis et 250-350 μ . longis, sparsis, nigris, primo epidermide tectis, dein erumpentibus, partim absconditis; ascis oblongis v. subcylindraceis, circiter 50 μ . longis; sporidiis confertis, anguste fusiformibus, rectis v. leniter curvulis, 13-16 × 3, plerumque 2-4-nucleatis; paraphysibus subclavatis, acuminatis, ascos superantibus. 3044

Hab. in foliis *Caricis pennsylvanicæ*, New York Amer. bor.

PHÆOPHACIDIUM P. Henn. et Lind. *Hedw.* 1897, p. 234 (Etym. *phaios* obscurus et *Phacidium*) — Mycelium intercellulare; ascomata superficialia, submembranacea, pulvinato-applanata, irregulariter laciniato-dehiscentia, atra; asci clavati, octospori, paraphy-

sati; sporidia oblonga, continua, fusco-atra. — *Pseudorhysmatium* et *Stictophaacidium* affine.

1. **Phæophaacidium Escallonix** P. Henn. et Lind. l. c. — Ascomatibus 3045
hypophyllis superficialibus, sparsis vel gregariis, interdum confluentibus, subpulvinatis, acutangulis, submembranaceis, irregulariter laciniato-dehiscentibus, applanatis, atris $\frac{1}{2}$ - $1\frac{1}{2}$ mm. diam.; ascis clavatis, apice obtuso-rotundatis, basi pedicellatis, 90-110 \times 18-22, octosporis; paraphysibus filiformibus, simplicibus, $3\frac{1}{2}$ -4 μ . crassis, apice clavatis, $5\frac{1}{2}$ -6 . incrassatis; sporidiis oblique monostichis v. subdistichis, ellipsoideis, utrinque rotundatis, primo hyalinis, dein fusco-atris, 15-18 \times 8-9.

Hab. in foliis Escallonix rubræ in Chile (NEGER).

COCCONIA Sacc. — Syll. VIII, p. 738, X, p. 50, XI, p. 432.

1. **Cocconia kilimandscharica** P. Henn. Pilz. Ostaf. p. 31. — Asco- 3046
matibus amphigenis v. cauliculis, tuberculato-pulvinatis, atris. oblongis v. rotundatis, circ. 1 cm. diam., subrugosis v. irregulariter costatis, inæqualiter rimosis; ascis subclavatis, substipitatis, 8-sporis, 50-70 \times 14-18; sporidiis di-subtristichis v. conglobatis, cylindræo-oblongis v. oblongo-ovoideis, utrinque obtusis, medio 1-septatis, non constrictis, fuscis, 17-24 \times 7-9; paraphysibus filiformibus, 2-3 μ . crassis, hyalinis.

Hab. in foliis et inflorescentiis Mayepeæ Gilgianæ, Kilimandscharo, Africa (VOLKENS).

FABRÆA Sacc. — Syll. VIII, p. 735, X, p. 50.

1. **Fabræa implexa** Bres. et Car. Malpighia XI, 1897, p. 276. — 3047
Ascomatibus innato-superficialibus, gregariis, concavo-marginatis, atris, margine albo-pulverulento, subfimbriato, $\frac{1}{4}$ mm. circiter latis, contextu parenchymatico, nigro; ascis clavato-subfusoides, 60-75 \times 10-13. jodo apice cærulescente; sporidiis obovato-elongatis, hyalinis. uniseptatis, 16-18 \times 5-7, distichis v. agglomeratis; paraphysibus ascos excedentibus. apice clavato. 3 μ . crasso.

Hab. in foliis Lychnidis Flos-Jovis in Italia (CARESTIA).

2. **Fabræa abietina** Sacc. Malpighia XI, 1897, p. 276. — Asco- 3048
matibus laxè gregariis, plerumque hypophyllis, innato-erumpentibus, epidermide laciniata cinctis, patellato-scutellatis, olivaceo-atris, 0,7 mm. diam., contextu carnosulo olivaceo-fusco; ascis cylindræis, brevissime noduloso-stipitatis, apice rotundatis, 110-130 \times 10-14; paraphysibus filiformibus, 1-2-furcatis; sporidiis obi-

que monostichis, elliptico-oblongis, utrinque rotundatis, 15-18 × 5-6, hyalino-farctis, initio muco obvolutis, tandem et leviter constrictis.

Hab. in foliis *Abietis excelsæ* in Italia boreali (CARESTIA).

RHAGADLOBIUM P. Henn. et Lind. Engl. Jahrb. XXIII, 1896, p. 287, fig. 8. — Ascomata superficialia, coriaceo-membranacea, sessilia, laciniato-dehiscentia, laciniis revolutis, appanato-scutellata, atra. Asci cylindraco-clavati, 8-spori, paraphysati. Sporidia oblonga, clavata vel subfusioidea, 1-septata, hyalina.

1. **Rhagadlobium Hemitheliæ** P. Henn. et Lind. l. c. — Ascomatibus 3049
superficialibus, tenui-membranaceis, sessilibus, hypophyllis, atris, stellulato-laciniatis, laciniis revolutis, cuneatis, mox evanidis; disco appanato-scutellato, ca. 1 mm. diam.; ascis cylindraco-clavatis, apice obtuso-rotundatis, 8-sporis, 50-70 × 4-5; sporidiis di-vel monostichis, clavatis vel subfusioideis, hyalinis, medio 1-septatis vix constrictis, 8-10 × 3 1/2-4; paraphysibus filiformibus, apice subclavatis, subfusoidulis.

Hab. in pagina inferiore foliorum *Hemitheliæ samoensis* in ins. Upulu ins. samoens. (REINECKE).

DIDYMASCUS Sacc. Malpighia 1896, p. 278, tab. V, fig. 3 (Etym. *didymos* duplex et *ascus*, quasi *Ascomyces* didymosporus). — Hypophyllus, initio epidermide velatus, ex ascis paraphysibusque stipatis muco tenui tectis formatus, excipulo omnino nullo; ascis clavati, subsessiles, 6-8-spori; sporidia obovata, hyalina, 1-septata.

1. **Didymascus Kitmanoffi** Sacc. l. c. (ex errore *Metkinoffi*). — Pastu- 3050
lis hypophyllis, appanatis, suborbicularibus, inæqualibus, 1/2 mm. diam., subinde confluentibus, initio epidermide velatis, diaphanis, aureis, teneris, ex ascis paraphysibusque stipatis muco tenui tectis, formatis; excipulo omnino nullo; ascis verticalibus, stipitatis, clavatis, subsessilibus, 60-65 × 20, indistincte 6-8-sporis; paraphysibus interjectisasco longioribus, paliformibus, sursum aureis; sporidiis rariis evolutis, obovatis, 15 × 8-9, hyalinis, 1-septatis, non constrictis.

Hab. in foliis viventibus *Actææ spicâtæ* in Sibiria (KITMANOFF). — Genus dubium, rursus inquirendum, *Koosceis* quoque affine. Mycelium ob specimina exstacata et contracta non clare visum.

SPHÆROPEZIA Sacc. — Syll. VIII, p. 740, XI, p. 432.

1. **Sphæropezia Andromedæ** (Fr.) Rehm. — Sacc. Syll. VIII, p. 741. — 3051
 subsp. ***S. Rhododendri** Sacc. Malpighia XI, 1897, p. 277. — Ascomatibus primo clausis rotundis, dein applanatis, $\frac{1}{2}$ - $\frac{3}{4}$ mm., nigris, lucidis, dein in lacinias irregulares dehiscentibus; disco brunneo-pallido; ascis 80-90 \times 9-10; sporidiis fusiformibus, apice acutis, uniseptatis, 18-21 \times 3-4, hyalinis; paraphysibus filiformi-clavatis, hyalinis.

Hab. in pagina superiore foliorum *Rhododendri ferruginei*, Riva-Valsesia, Italia bor. (CARESTIA).

RHYTISMA Fr. — Syll. VIII, p. 752, X, p. 51, XI, p. 433.

1. **Rhytisma Itatiaiaë** Rehm, Hedw. 1896, p. 54. — Ascomatibus 3052
 epiphyllis, immersis et cum epidermide foliorum vivorum superiore connatis, eamque irregulariter corrugatam, atro-nitidam plus minusve pustulatim elevantibus, maculis rotundis v. oblongis 0,5-12 mm. longis latisque, denique partem nigratam longitudinaliter vel e centro radiatim rimose dilacerantibus, discum aperientibus, intus hyalinis; ascis clavatis, apice rotundatis, curvatis, 75-90 \times 18, octosporis; sporidiis subfusiformibus v. elongato-cuneiformibus, apice superiore plerumque latiore, rectis v. subcurvatis, unicellularibus, hyalinis, dein flavidulis, 20-30 \times 5-6, distichis; paraphysibus filiformibus, 3 μ . crassis, apice subcurvatis, hyalinis.

Hab. in pagina superiore foliorum vivorum *Agaristæ intermediaë*, Itatiaia Brasiliæ (ULE).

2. **Rhytisma Pieridis** Pat. Journ. de Bot. 1897, p. 347. — Orbicu- 3053
 lare, sparsum v. confluens, 5-8 mm. diam., nigrum, paginam superiorem foliorum occupans, plus minusve nitens, planum, centro depressum, margine definito cinctum, punctato-granulosum; spermatiis e granulis centralibus oriundis, hyalinis, rectis simplicibusque, utrinque attenuatis, 5-6 \times 1; stromate albo, margine macularum crasso; ascis in parte superiore stromatum ortis; sporidiis maturis nondum visis.

Hab. in foliis *Pieridis* spec., in Tonkin

DUPLICARIA Fuck. — Syll. VIII, p. 764, X, p. 51.

1. **Duplicaria acuminata** Ell. et Ev. Proc. Acad. Phil. 1895, p. 429. — 3054
 Ascomatibus sparsis, scutellatis, $\frac{1}{4}$ -1 mm. diam., astomis, convexis, siccis collabentibus et rugosis, atro-nitidis, non dehiscentibus; ascis clavato-cylindraceis, apice obtusis, basim versus gradatim angu-

statis, 80-110 \times 11-12, **aparaphysatis**; sporidiis octonis, irregulariter confertis, bifusoideis, 30-35 \times 2 $\frac{1}{2}$ -3, hyalinis, utrinque præcipue basi acuminatis.

Hab. in calamis Junci Drummondii, Colorado, Amer. bor. (GRANDALL).

COCCOMYCES De Not. — Syll. VIII, p. 744, X, p. 51, XI, p. 432.

1. **Coccomyces pampeanus** Speg. Contr. Fl. Sierra Ventana 1896, 3055 p. 85. — Amphigenus, solitarius v. laxissime gregarius, maculis albo-pallescentibus indefinitis insidens; ascomatibus aterrimis epidermide nigrificata subnitente tectis, repando-ellipticis v. subquadratis, 0,5-1 mm. diam., margine integris, superne applanatis sed centro subpustulatum erumpenti-dehiscentibus; ascis clavatis antice abrupte rotundato-acutatis, postice longe attenuatis, brevissime noduloseque stipitatis, 55-60 \times 9-10, paraphysibus non v. vix longioribus filiformibus apice vix incrassatulis rectis obtusis simplicibus obvallatis; sporidiis fasciculatis, octonis, linearibus utrinque acutiuscule rotundatis, 45-50 \times 1, continuis, hyalinis.

Hab. in foliis emortuis et putridis Eryngii paniculati, Sierra de la Ventana, Argentina.

2. **Coccomyces rubicola** E. et D. Proc. of the Canad. Inst. 1897, 3056 p. 90. — Ascomatibus epidermide adnata tectis, hemisphæricoprominulis; pustulis centro perforatis, dein radiatim laciniatis, apertis, discum albo-melleum 0,5-1 mm. diam., dentato-marginatum ostendentibus; ascis oblongo-cylindricis, sessilibus, 60-70 \times 7; sporidiis fasciculatis, nucleatis, hyalinis, deorsum tenuatis, 45-60 \times 2-2,5.

Hab. in sarmentis emortuis Rubi strigosi, Granton, Canada.

Fam. 8. Patellariaceæ Fr.

PATINELLA Sacc. — Syll. VIII, p. 769, X, p. 52, XI, p. 433.

1. **Patinella coracina** Bres. Malpighia XI, 1897. p. 278. — Asco- 3057 matibus dense gregariis, superficialibus, sessilibus, patellatis, 1 $\frac{1}{2}$ mm. latis, nigris; hymenio rufescenti-fusco; ascis cylindræis, 135-150 \times 10, jodo non tinctis; sporidiis ellipticis, 18-20 \times 9-11; paraphysibus filiformibus, 2 μ . crassis

Hab. in ligno aqua submerso in Italia boreali (CARESTIA).

PSEUDOPHACIDIUM Karst. — Syll. VIII, p. 777.

1. **Pseudophacidium Hellebori** Rehm, Discomycet. p. 1214. — Asco- 3058

matibus gregariis, amphigenis, clausis sub epidermide immersis, eam elevatibus et rumpentibus, 0,3-1. mm. latis; disco patelliformi, griseo, nigritulo-marginato; ascis clavatis, apice rotundatis, 42-50 \times 7-9, octosporis; sporidiis fusiformibus, rectis, unicellularibus, utroque apice nucleolo præditis, hyalinis, 9-12 \times 3, distichis; paraphysibus filiformibus, laxis, hyalinis, 1 $\frac{1}{2}$ μ . latis.

Hab. in foliis Hellebori altifolii in Carniola (Voss).

2. **Pseudophacidium Couepiæ** P. Henn. Hedw. 1895, p. 324. — Ascomatibus hypophyllis, gregariis, erumpentibus, superficialibus, basi epidermide rupta cinctis, urceolato-scutellatis, laciniato-fissis, rugulosis, subcarbonaceis, nigris; ascis clavatis, raro subovoideis, octosporis, plerumque pedicellatis, 50-80 \times 14-20; paraphysibus filiformibus, flexuosis, 1 $\frac{1}{2}$ -2 μ . crassis; sporidiis monostichis v. subdistichis, interdum conglobatis, continuis, late ellipsoideis, hyalino-subflavescentibus, intus granulatis, 12-15 \times 9-11. 3059

Hab. in foliis Couepiæ formosanae pr. Goyaz Brasiliæ (ULE).

3. **Pseudophacidium necans** Rehm, Discomycet. p. 1213 — Ascomatibus gregariis, rotundis, clausis sub epidermide, eam elevatibus et irregulariter rumpentibus, apertis, 1-3 mm. latis, disco crenulato, subochroleuco, contextu molli, brunneo, sicco farinoso-pulverulento; ascis cylindræis, apice rotundatis, 180-200 \times 12-15, octosporis; sporidiis ellipticis, rotundatis, unicellularibus, hyalinis, 18-20 \times 7-8, monostichis; paraphysibus filiformibus, apice arcuatis, hyalinis, circiter 4 μ . crassis. 3060

Hab. ad ramos emortuos Coryli Avellanæ, Corni sanguineæ et Pruni spinosæ in Helvetia.

RHYMBOCARPUS Zopf, Nov. Act. LXX, 1897, p. 126, t. II, f. 1-11 (Etym. a *rhymbos* tympanum, *carpos* fructus). — Ascomata innata, excipulo nullo manifesto cincta; asci anguste clavati, octospori; sporidia unicellularia, hyalina; paraphyses parce ramosæ, cellulis terminalibus vesiculosis carentes; epithecio vesiculoso, hypothecio hyalino. Asci jodi ope non cœrulescentes v. rubescentes.

1. **Rhymbocarpus punctiformis** Zopf, l. c. — Ascomatibus tympaniformibus, 40-140 μ . latis, usque ad 120 μ . altis, epithecio obscure æruginoso; ascis cylindræis v. elongato-clavatis, breve stipitatis, octosporis, 50-53 \times 9; paraphysibus crassis, septatis, parce ramosis, hyalinis, ad septa non constrictis; sporidiis monostichis, elongato-ellipsoideis v. leniter curvulis, raro fusiformibus, 10 $\frac{1}{2}$ -12 $\frac{1}{2}$ \times 3 $\frac{1}{2}$ -5 $\frac{1}{2}$, unicellularibus, guttulatis. 3061

Hab. in thallo *Rhizocarpi geographicici* in *Alpibus* (ARNOLD).

BIATORELLA De Not. — Syll. VIII, p. 469 (*Tromera*), X, p. 23.

1. *Biatorella microhæma* Norm. in Rehm, *Discomycet.* p. 1222; *Le-* 3062
cidea microhæma Nyl. Sällsk. fauna et flora fenn. Förh. XIII,
 p. 337. — Ascomatibus gregariis, sessilibus, disco immarginato
 convexo, demum subglobosis, sanguineis, 50-200 μ . latis; ascis
 ventricosis, polysporis; sporidiis globosis, unicellularibus, guttula
 magna præditis, hyalinis, 3-4 μ . latis; paraphysibus tenuissimis,
 apice latioribus ac rubescenti-brunneis; hypothecio hyalino.

Hab. in ligno pr. Bozen in Tirolia.

PATELLEA Fr. — Syll. VIII, p. 783.

1. *Patellea hysterioides* Ell. et Ev. Proc. Acad. Philad. 1895, p. 429. 3063
Cenangella thujina Ell. et Barth. Eryth. 1896, p. 3. (ex auctoribus
 ipsis). — Ascomatibus erumpenti-superficialibus, $\frac{1}{3}$ - $\frac{3}{4}$ mm. diam.,
 gregariis v. subsparsis, nigris, siccis involutis et *Hysterii* spe-
 ciem simulantibus; ascis obovatis, 30-40 \times 20, stipite brevi, nodu-
 loso; sporidiis confertis, obovatis, uniseptatis, ad septum constri-
 ctis, 14-18 \times 8-10, utrinque rotundato-obtusis, hyalinis; paraphy-
 sibus supra in epithecium nigrum v. purpureo-nigrum conjunctis.
Hab. in ligno pineo aeri diu exposito, Kansas, Amer. bor.
 (BARTHOLOMEW).

KARSCHIA Körb. — Syll. VIII, p. 779, X, p. 56 XI, p. 434.

1. *Karschia impressa* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 470. 3064
 — Ascomatibus superficialibus, gregariis, applanatis, tenuibus, ni-
 gris, globosis, circiter $\frac{1}{2}$ mm. diam., margine angusto, basi pilis
 brunneis repentibus ornato; disco minute hemisphærico-ruguloso
 v. papilloso; ascis oblongis, sessilibus, 40-45 \times 8-10; sporidiis ovato-
 oblongis, 1-septatis, non constrictis, flavis, 8-10 \times 5; paraphysibus
 apice plus minus incrassatis arcuatisque, interdum parce ramosis.
Hab. in ramis vivis *Symphoricarpi*, Colorado Amer. bor.
2. *Karschia? fulvodisca* Pat. Bull. Soc. Myc. de Fr. 1895, p. 218. 3065
 — Ascomatibus superficialibus, gregariis, sessilibus, vix 1 mm.
 diam., ceraceo-membranaceis, atris, glabris, primum clausis, dein
 ore denticulato late apertis, margine inflexo, laciniato v. integro;
 disco plano, fulvo, contextu minute celluloso anguloso, brunneo,
 cellulis 8-12 μ . latis; ascis inoperculatis, aparaphysatis, oblongo-

clavatis, sursum obtusis, deorsum attenuatis, crasse tunicatis, 80-90 \times 20-23, octosporis, ope iodi undique cœrulescentibus; sporidiis brunneis ovatis, utrinque obtusiusculis, levibus, medio septatis, leviter constrictis, 20 \times 10-12.

Hab. in corticibus arborum Æquatoriæ (v. LAGERHEIM).

3. *Karschia Taveliana* Rehm, Discomycet. p. 1223. — Ascomatibus 3066 aggregatis, sessilibus, primo globosis, clausis, dein orbicularibus, disco plano, tenuiter marginato, deorsum angustatis, siccis inflexis, atris, nitentibus, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latis, ceraceis; ascis clavatis, apice rotundatis, 65-70 \times 8-10, octosporis; sporidiis fusiformibus, non acutis, rectis, bicellularibus, brunneis, 15-17 \times 5, distichis; paraphysibus filiformibus, apice subspadiceis, 4-6 μ . crassis, demum brunneis, epithecium efformantibus; hypothecio brunneo.

Hab. in ligno putrido in Helvetia (v. TAVEL). — Habitu externo *Lecanidion atratum* optime simulat.

4. *Karschia tegularum* (Arnold) Rehm, Discomycet. p. 1223; *Buellia* 3067 *teguarum* Arn. Lich. flor. München. p. 180. — Ascomatibus sparsis, sessilibus, disco subplano indistincte marginato, nigris, 100-200 μ . latis; ascis clavatis, apice rotundatis, octosporis; sporidiis ellipticis, obtusis, bicellularibus, medio non constrictis, brunneis, 10-12 \times 5-7, distichis; paraphysibus apice 6 μ . crassis, epithecium obscure brunneum formantibus; hypothecio brunneo.

Hab. in thallo sterili *Blasteniæ arenariæ* in Bavaria.

LECANIDION Rabenh. — Syll. VIII, p. 795, X, p. 60.

1. *Lecanidion corticolum* (Starb.) Sacc. et Syd. *Patellaria corticola* 3068 Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, III, n. 5, p. 23, fig. 9. — Ascomatibus solitariis vel plerumque in cæspitulos per corticem erumpentibus, initio globosis, clausis, mox orbiculariter apertis, cupularibus et demum patellaribus, margine crasso, nec non striatulo-crenulato, fusco-nigricantibus, puberulo-rugosis, disco nigerrimo, 0,5-1,5 mm. lato; texturâ excipuli cellulis minutis carbonacea, hypothecio crasso, hyalino-flavescente præsentem; ascis 8-sporis, cylindraceo-clavatis, sursum rotundatis, 100-110 \times 8-10; sporidiis distichis vel conglobatis, primum simplicibus multiguttulatis, demum tri-vel multiseptatis, hyalinis, fuscoideo-clavulatis, deorsum semper aciculariter attenuatis, sursum obtusatis vel acutiuseule obtusatis, recte vel sæpissime deorsum curvatis, 24-40 \times 3-4; paraphysibus filiformibus, numerosissimis, sursum in clavulas fuscolivaceas, 2-3-septatas vel continuas, interdum dichotome ramosas,

desinentibus vel interdum globulosim incrassatis, epithecium cras-
sum fusco-atrum efficientibus.

Hab. ad ramulos corticatos *Cratægi?* pr. *Venersborg Sueciæ* (ELIASSON). — *Durellæ Carestiæ* (De Not.) Sacc. proxima hæc species manifestim, aliis notis exceptis, sporidiis tantum nec non matrice divergit.

2. **Lecanidion Lambottianum** Fautr. Rev. Mycol. 1896, p. 143. — 3069
Ascomatibus minutis, sessilibus, margine elevato; ascis cylindra-
draceis, 80×8 ; sporidiis cylindræis, curvulis, 3-septatis, 16×5 .

Hab. in ramis siccis *Rosæ caninæ*, socia *Discella Rosæ* in Gallia.

DURELLA Tui. — Syll. VIII, p. 790, X, p. 59.

1. **Durella vilis** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, 3070
III, n. 5, p. 22, fig. 8. — Laxe gregaria, superficialis, concaviu-
scula vel cupulata. siccitate marginæ connivente lophioideo, mar-
ginata, atro-brunnea, hymenio vix pallidiore, 200-300 μ . diam.;
textura fere porrecta, hyphis arctissimis conglutinatis, paullum
flexuosis composita; ascis 8-sporis, late clavatis, breviter pedicel-
latis, sursum rotundatis, 95-115 \times 15-18; sporidiis elongato-cylin-
dricis vel fere fusoides, interdum clavulatis, utrinque plerumque
obtusis, rarissime obtuse acutiusculis, rectis, inæquilateralibus vel
leniter curvulis, primo guttulis 8, rarissime 9 ornatis, deinde 7-
rarissime 8-septatis, (30-)40-50 \times 6-7; paraphysibus numerosissimis,
gracillimis, ad basim ramosis, eleganter flexuosis, ascos superantibus
et obvallantibus sed epithecium conglutinatum non formantibus.

Hab. in ramulis decorticatis *Loniceræ Xylostei* et *Viburni*
Populi pr. *Venersborg Sueciæ* (ELIASSON). — *Patellariæ Loniceræ*
Phill. proxima hæc species sporidiis 7-septatis præsertim differt.

MYCOBILIMBIA Rehm — Syll. X, p. 60.

1. **Mycobilimbia Arnoldiana** Zopf, Nov. Act. LXX, 1897, p. 156 3071
cum fig. 44-47. — Ascomatibus irregulariter sparsis, raro 2-3-
consociatis, subglobosis, atris, nitentibus, 150-430 μ . latis; ascis
breviter clavatis, vertice late rotundatis, basi attenuatis, 44-64 \times
15-22, jodo intense cœrulescentibus, octosporis, raro 6-sporis; spo-
ridiis fusiformibus, plerumque leniter arcuato-curvulis, 2-8-cellu-
laribus, ad septa hæud v. vix constrictis, 15-28 $\frac{1}{2} \times$ 4-5 $\frac{1}{2}$; para-
physibus tenuibus, gracilibus, parce ramosis, septatis, ascos supe-
rantibus, gelatinosis.

Hab. in thallo *Solorinæ crocææ* in Tirolia.

BLITRYDIUM De Not. — Syll. VIII, p. 802, XI, p. 435.

1. *Blitrydium punctum* Pat. Bull. Soc. Myc. de France 1895, p. 87. 3072
 — Sparsum, scutelliforme, minutum, 300-400 μ . diam., nigrum, orbiculare, ceraceo-coriaceum, glabrum, planum v. convexum; ascis 75 \times 20; paraphysibus filiformibus, coalescentibus, hyalinis, apice nigro-viridulis; sporidiis octonis, ovali-oblongis, medio constrictis, fuliginis, 26-32 \times 10-15, transverse 3-4-septatis, in longitudine pluriseptatis.

Hab. in cortice Tamarindi spec. in Ægypto.

SCUTULARIA Karst. — Syll. VIII, p. 807, XI, p. 435.

1. *Scutularia gallica* Masee, Journ. of Bot. 1896, p. 148. — Sessilis, 3073
 applanata, uda subcarnosa, pallide brunnea, sicca rigida, nigrescens; disco plano v. leviter convexo, immarginato, 2-3 μ . crasso, sicco subconcaulo; hypothecio et excipulo parenchymaticis, hyalinis, cellulis polygonalibus 12-15 μ . diam.; ascis elongatis, anguste cylindraceutis, apice rotundatis, deorsum in pedicellum tenuem sæpe curvatum attenuatis, octosporis; sporidiis hyalinis, filiformibus, ascum subæquantibus, 60-70 \times 1 $\frac{1}{2}$, subflexuosis, in asco parallele dispositis, continuis, multiguttulatis; paraphysibus copiosis, gracilibus, fere 2 μ . crassis, septatis, hyalinis, apice subclavatis.

Hab. in ligno dejecto putri, Normandia Galliæ.

Fam. 9. Exoascaceæ Sadeb.

EXOASCUS Fuck. — Syll. VIII, p. 816, X, p. 69, XI, p. 435.

1. *Exoascus flavo-aureus* Cocc. Mem. Accad. Bol. Sez. S. N. 1894, 3074
 p. 187. — Maculis aureis, torsiones varias in foliis gerentibus; ascis inæqualiter cylindraceutis, octosporis, modo longiuscule attenuato-stipitatis, modo sessilibus; sporidiis ovoideis. subinde in asco ipso germinantibus.

Hab. in foliis Populi pyramidalis. Corticella pr. Bologna.
 — *Exoasco flavo* et *E. aureo* affinis sed ascis quoad basim ludi- bundis distingui videtur.

2. *Exoascus acerinus* Eliass. et *Taphrina acerina* Eliass. Bih. K. 3075
 Svenska Vet.-Akad. Handl. 1895, Bd. XX, Afd. III. n. 4, p. 3, cum tab. — Mycelio inter cuticulam et epidermidem ramulorum juniorum foliorumque vivorum crescente; ascis totam fere paginam occupantibus eamque rugosam et glauco-pruinosa reddentibus, in utraque (maxime tamen in inferiore) pagina insidentibus, late cy-

lindraceis v. clavatis, apice rotundatis v. truncatis, ad basim sæpe attenuatis, cellula stipitis ornatis, 15-23 \times 9-12; cellula stipitis epidermidem non intrante, basi rotundata, 7-9 μ . alta, 12-15 μ . lata; sporidiis octonis, globosis, 4-5 μ . diam.

Hab. in foliis vivis Aceris platanoidis ad Stafsund pr. urbem Upsala Sueciæ.

3. **Exoascus Janus** Thomas, Forstl.-Naturw. Zeitschr. 1897, Heft. 8, 3076 p. 312. — Ascis epiphyllis v. hypophyllis, magnas pustulas circumscriptas pallide rosaceas formantibus, 52-63 \times 9-15, etiam in maturitate connatis (6-18 μ .); sporidiis globosis, 3-5 μ . diam.

Hab. in foliis ramulisque vivis Betulæ verrucosæ, Arosa, Helvetia.

TAPHRINA Fr. — Syll. VIII, p. 812, X, p. 67, XI, p. 437.

1. **Taphrina Pseudo-Cerasi** Shirai, Bot. Mag. Tokyo, 1895, p. 163, 3077 t. V. — Ramos inflat formatque scopas erectas v. pendentes ramoso-cæspitosas, extremitatibus acutis; foliis deminutis, pallidis, infra hymenio tectis; ascis tereti-clavatis, apice rotundatis, polysporis, 40-44 \times 6-9, cellula basilari 6-9 μ . alta; sporidiis subglobosis 4,5-5 \times 3,5-4,5, hyalinis.

Hab. in foliis ramisque Pruni Pseudo-Cerasi et P. Mi-quelianæ in Japonia.

2. **Taphrina virginica** Seym. et Sad. Ber. Deutsch. Bot. Ges. 1895, 3078 p. 275. — In foliis maculas atque bullas efficiens; ascis hypophyllis, inter cellulas epidermidis penetrantibus, cylindricis, tota in longitudine æqualiter crassis, 25 \times 10, basi semper truncatis, apice plerumque subrotundatis v. interdum truncatis, cellula basilari nulla; sporidiolis plerumque globosis, minutissimis, ascum omnino implentibus.

Hab. in foliis Ostryæ virginicæ in Amer. bor.

Fam. 10. Gymnoascaceæ Baran.

GYMNOASCUS Bar. — Syll. VIII, p. 823, X, p. 71, XI, 437.

1. **Gymnoascus ossicola** E. Rostr. Bot. Tidsskr. 1897, p. 45. — Glo- 3079 merulis subsphæroideis v. pulvinatis, 1-3 mm. diam., primo albis, dein pallidis; hyphis ramosis intricatis, uncinatis, hyalinis, 2 μ . crassis; ascis botryoso-congestis, breve stipitatis, 8-9 μ . diam.,

sphæroideis; sporidiis subglobosis, hyalinis, octonis, $3\frac{1}{2}$ - $4\frac{1}{2}$ μ . diam., uniguttulatis.

Hab. in ossibus Rheæ americanæ in Dania.

Fam. 10 Monascacæ Schröt.

MONASCUS Van Tiegh. — Syll. IX, p. 373.

1. **Monascus purpureus** Went. in Ann. Sc. nat. Bot. 1895, Septbr. 3080
tab. I-II. — Maculas purpureas formans; hyphis filiformibus, septatis, parce ramosis, subinde conidiophoris; sporangiis globosis, varia magnitudine, 30-75 μ . diam., crebre polysporis; hyphis variis obvolutis; sporidiis initio angulosis dein sphæroideis, 5-6,5 μ . diam. purpureis; conidiis breve oatenulatis e globoso angulosis, sæpe irregularibus, æque coloratis.

Hab. in caryopsidibus Oryzæ coctis, quas fungillus rubro-tingit et ex quibus contritis substantia tinctoria purpurea oritur, quam Sinenses *Ang-Quac* dicunt, lateque fungilli culturâ obtinent.

Fam. 11. Caliciacæ Fr.

CONIOCYBE Ach. — Syll. VIII, p. 828.

1. **Coniocybe pilacriformis** Rehm, Discomycet. p. 1223. — Ascoma- 3081
tibus gregariis, capitatis, capitulo globoso, brunneolo, farinaceo; 0,4-1,2 mm. lato; stipite cylindræo, fusco, recto v. curvulo, glabro, 3-5 \approx 0,1-0,3 mm.; ascis cylindræo-clavatis, apice rotundatis, 45-55 \approx 6-8, octosporis; sporidiis globosis v. oblongo-globosis, unicellularibus, hyalinis, 6-7 \approx 5, monostichis; paraphysibus filiformibus, longissimis, septatis, circiter 3 μ . crassis.

Hab. in radicibus Rosarum et Paliuri in Germania (LINDAU, HENNINGS).

TUBEROIDEÆ Vittad.

Syll. VIII, p. 868, X, p. 80, XI, p. 441.

Fam. 1. Phymat sphæriaceæ Speg.

ASCOMYCETELLA Ellis — Syll. VIII, p. 846.

1. **Ascomycetella quitensis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 231. 3082
— Receptaculis epiphyllis, sparsis v. gregariis, applanato-convexis, 150-350 μ . diam., ochraceis (in sicco nigro-fuscis), gelatinosis, astomis, ambitu sinuato, contextu celluloso-radiato parum distincto, pallide fuscidulo, pellucido; loculis clavatis, hyalinis, gelatinosis; ascis 60-80 \times 16, elongatis, apice obtusis, 8-sporis, aparaphysatis; sporidiis ellipticis, hyalinis, 12-18 \times 5-6, medio constrictis, transverse uni-dein triseptatis (!), septo longitudinali vix distincto aut nullo.

Hab. in foliis Cordiaceæ cujusdam in Æquat. (v. LAGERHEIM).
— Est *Henningsiella quitensis* Rehm in Hedw. 1895, p. (159).

Fam. 2. Tuberaceæ Fr.

TERFEZIA Tul. — Syll. VIII, p. 902, XI, p. 445.

1. **Terfezia Leonis** Tul. - Sacc. Syll. VIII, p. 903. — Var. **heterospora** Chat. Compt. rend. CXXIII, 1896, p. 211, et Bull. Soc. bot. Fr. 1896, p. 399. — A typo præcipue differt verrucis sporidiorum truncatis, intermixtis autem nonnullis conoideis v. rotundatis. 3083

Hab. ad terram, Larache in Marocco (MELLERIO).

2. **Terfezia Mellerionis** Chat. Compt. rend. CXXIII, 1896, p. 211, et Bull. Soc. bot. Fr. 1896, p. 398. — A *Terfezia Leonis* differt ascomatibus forma magis regulariter rotundata, stipite minus evoluto et carne potius fumosa quam rosea; sporidiis, ut in *T. Leonis*, 22-26 μ . diam. t uncatoverrucosis. 3084

Hab. ad terram in Marocco et Hispania.

3. **Terfezia ovalispora** Pat. in Dybowski, L'extrême sud Alger. 1892, p. 54, t. IV, fig. 3. — *Terfeziæ Leonis* forma et statura proxima, sed distinctius fiava; ascis ovoideo-lageniformibus, 55 \times 40, 3085

plus minus longe stipitatis; sporidiis ovoideis, hyalinis, 17-20 \times 12-15, initio levibus, dein minute asperulis, crasse 1-guttatis.

Hab. ad terram in Algeria australi.

4. **Terfezia Aphroditis** Chat. Bull. Soc. Bot. France 1897, p. 290, 3086
tab. IX. — Ascomatibus ficiformibus v. rotundatis, majusculis, pondere 30-50 gr., basi conoideo-caudiculatis, atro-brunneo-corticatis, tomentellis impolitis; gleba atro-fuliginea, inæqualiter marmorata, carnosio-friabili; ascis e globoso ovoideis, 4-6-sporis, raro 2-sporis; sporidiis globosis, nigro-fuligineis, 28-32 μ . diam., verruculis obtusis crebris conspersis.

Hab. in insula Cypro prope rudera templi Aphroditis (GENADIUS). — Odor gratus, fere sapæ, h. e. musti cocti.

5. **Terfezia Goffartii** Chat. Compt. rend. 1895, 1 juill. p. 3 extr. — 3087
Globosa v. ovoidea; cortice fuligineo, velo tenuissimo agglutinato prædito; gleba in juventute alba, dein flavo-grisea; ascis rotundatis, octosporis, breviter pedicellatis. sporidiis dilute coloratis, globosis, aculeis longis inæqualibus interdum flexuosis obsitis, 25 μ . diam. (sine aculeis).

Hab. ad terram sabulosam, Tanger (l. GOFFART). — *T. leptodermæ* proxima.

6. **Terfezia Genadii** Chat. Bull. Soc. bot. France. 1896, p. 611, c. 3088
icon. — Ascomatibus nucem avellanam, vix juglandinam, æquantibus, carne griseo-brunnea albo-marmorata; ascis oblongis, breve stipitatis, apice rotundatis sub-bisporis; sporidiis globosis, 45-50 μ . diam., rarissime abortu ellipsoideis 46 \times 36, eximie areolatis, luteo-brunneis.

Hab. in herbidis, siccis, vere, Dymæ in Peloponneso. — Odor subnullus. Nonnullis notis *Tuberi magnatum* proxima, sed odor nullus, statura multo minor etc.

7. **Terfezia Hanotauxii** Chat. Bull. de la Soc. Bot. de Fr. 1895, 3089
p. 619 cum fig. — Ovoidea; cortice nigro (an semper?); gleba molli; ascis octosporis; sporidiis areolatis et grosse obtuseque verrucosis, hyalino-flavidis, 23-25 μ . diam.

Hab. ad terram pr. Teheran Persiæ.

8. **Terfezia Pfeilli** P. Henn. Fungi camerun. I, in Engl. Jahrb. 3090
XXII, 1895, p. 75. — Subglobosa, magnitudine fructus pomi, carnosa, pallida, intus pallide flava, venis diffornibus subcurvatis; ascis subglobosis v. ellipsoideis, raro ovoideis, 5-8-sporis, 46-62 \times 45-60; sporidiis globosis, primo hyalinis, dein fusco-brunneis v. fuscis, 17-21 μ .; episporio 1-1 $\frac{1}{2}$ μ . crasso, levi v. minute papilloso.

Hab. ad terram, Damaraland, Africa (Comes FREIL). — *Edulis.*

9. *Terfezia Boudieri* Chat.-Sacc. Syll. XI, p. 445. — *Var. pedunculata* Pat. Cat. rais. pl. cell. Tunisie 1897, p. 90, Explor. Tun. Illustr. bot. tab. V, fig. 5.; Morot, Journ. de bot. VIII, p. 182. — *Subglobosa*, 2-4 cm. diam, fusco-brunnea, basi cylindræa, $\frac{1}{3}$ -1 cm. longa, 5-6 mm. crassa, recta aut curvata instructa; gleba carnosa, cinerea, maculis angulosis, subatris marmorata, venis albis roseisve percursa; sporidiis 25 μ . diam., intense fuliginosis.

Hab. in Tunisia (LEFEBVRE).

SACCHAROMYCETÆ Rees.

Syll. VIII, p. 916, XI, p. 457.

SACCHAROMYCES Meyen. — Syll. VIII, p. 916, XI, p. 457.

1. *Saccharomyces cretaceus* Mez, Mikroskop. Wasseranalysen. 1898, 3092 p. 72. — Cellulis vegetativis globosis, 4-6 μ . diam., solitariis v. in glomerulos minutos conjunctis.

Hab. in aqua et in aere atmosphærico, Germania. — Coloniae in gelatina sæpe cretaceæ, dacryoideæ. *S. minori* Engel affinis.

SCHIZOSACCHAROMYCES Beyer. — Syll. XI, p. 458.

1. *Schizosaccharomyces Pombe* Lindn. in Wochenschr. f. Brauerei. 3093 1893, p. 1298. — Cellulis cylindricis, non modo *Saccharomyces cerevisiæ* in globulos pullulantibus; sed modo bacilli crescentibus; ascis 4-sporis, qui substrato solido vel liquido oriuntur; sporidiis globosis; fermentationem efficit in solutionibus Saccharosi, Dextrosi, Maltosi, Dextrini, simul liquorem acidificans; temperatura optima fermentationis 25-30° C.

Hab. in cerevisia nigritarum (POMBE) in Africa tropica.

PROTOMYCETÆ de Bary.

Syll. VII, p. 319, IX, p. 363.

PROTOMYCES Ung. — Syll. VII, p. 319, IX, p. 363.

1. **Protomyces Bellidis** Krieger, Hedw. 1896, p. (144). — **Maculis** 3091
ochroleucis v. subochraceis, subrotundis, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. latis, sparsis
v. gregariis, non v. parum callosis; sporangiis perdurantibus hya-
linis v. pallide flavis, globosis v. oblongo-globosis, 30-45 μ . latis,
episporio levi, 1 $\frac{1}{2}$ -3 μ . crasso.

Hab. in foliis *Bellidis* perennis pr. Königstein Saxoniae.

ENDOGONE Link — Syll. VIII, p. 905.

1. **Endogone reniformis** Bres. Hedw. 1896, p. 297. — **Ascomatibus** 3095
reniformibus, luteolis v. stramineis, 4-5 mm. latis, cortice tenuis-
simo ex hyphis e capillitio prodeuntibus efformato; **gleba** subgra-
nulosa, concolori, hyphis capillitii hyalinis, 3-5 μ . latis; ascis ex
hyphis oriundis, globosis v. subellipticis, interdum irregularibus
margine tortuoso, 21-30 \times 17-24, monosporis; sporidiis globoso-
subellipticis, luteis, protoplasmate granuloso, 15-24 \times 15-18.

Hab. in foliis pr. Blumenau Brasiliae (MÖLLER). — In hac
specie sporidia bene evoluta ab ascis clare distincta, at extra ascis
non visa sunt, nec modus, quo ascis dehiscunt, cognosci poterat.

2. **Endogone Moelleri** P. Henn. Hedw. 1897, p. 211. — **Pulvinato-** 3096
subreniformis, 10-15 mm. diametro, cortice olivaceo-tomentoso
floccoso, intus ochraceo-subgranulosa; hyphis racemosis, ochraceo-
olivaceis, ca. 15 μ . latis; sporis ovoideis, piriformibus vel ellipsoi-
deis, haud globosis, atro-olivaceis vel atris, levibus, 100-120 \times 80-90.

Hab. ad terram pr. Blumenau Brasiliae (MOELLER).

3. **Endogone pulvinata** P. Henn. Hedw. 1897, p. 212. — **Hemisphae-** 3097
rico-pulvinata, subreniformis, 5-10 mm. diam.; cortice tenui, gra-
nuloso, alutaceo, haud floccoso, gleba concolori; **sporibus** globosis,
55-75 \times 52-72, intus granulosis, olivaceo-fuscis, episporio 3 $\frac{1}{2}$ -4 $\frac{1}{2}$ μ .
crasso, flavescenti-fuscidulo.

Hab. ad terram pr. Caracas Venezuelae (GOLLMER).

Genera Ascomycetum dubia.

CELTIDIA Janse, Ann. Jard. Buitenzorg. XIV, 1896, p. 202, t. XII, (Etyim. ab arbore *Celtide*). — Fungus hypogæus, rhizophilus, tuberculiformis, minutissimus. Asci octospori. Sporidia 1-septata, granulosa v. spinulosa, fusca. — Genus dubium, *Elaphomycei* affine.

1. *Celtidia duplicispora* Janse l. c. — Minutissima, vix $\frac{1}{4}$ mm. diam. 3098
Hab. ad radices tenuiores Celtidis in insula Java.

MYLITTA Fr. — Syll. VIII, p. 907.

1. *Mylitta australis* Berk. Cfr. Bommer et Ferry in Rev. mycol. 1895, p. 162, ubi singularis fungus ut ascophorus (e Tuberaceis) simul et basidiophorus illustratur, quod tamen, ut opinamur, novis observationibus confirmari meretur.
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MYXOMYCETÆ Wallr.

Syll. VII, p. 322, X, p. 83, XI, p. 462.

Fam. 1. Myxomycetaceæ Wallr.

Sect. 1. Amaurospora.

PHYSARUM Pers. — Syll. VII, p. 336, X, p. 84, XI, p. 462.

1. **Physarum Guelmæ** Penz. Myxom. Buitenz. Leid. 1898, p. 34. — 3099

Peridiis sessilibus confertis, globosis, 2-3 sæpe confluentibus, 0,5-0,6 mm. diam., rufo-brunneis, rugulosis; pariete duplici, externo granulis calcareis brunneolis et passim concretionibus calceis sphaericis prædito, interno tenui, levi; capillitii filamentis sparsis, hyalinis nodisque calcareis crassis, inæqualiter ramosis; columella nulla; sporis globosis, 10-12 μ . diam., episporio fragili, minute punctato, atro-brunneo-purpureis.

Hab. in inflorescentia vetusta Elettariæ in horto bot. Buitenzorg Javæ.

2. **Physarum tucumanense** Speg. Rev. Agr. y Veter. La Plata 1896, 3100

p. 237. — Peridiis exacte sphaericis minutis, 300-500 μ . diam., inferne non umbilicatis, rugulosis, ochraceis, tunica duplici, externa calcarea, interna tenui anhistâ, irregulariter dehiscente, gleba atra, pedicello longiusculo rigidulo persistente conoideo-elongato, 1-1 $\frac{1}{2}$ mm. long., 150-350 μ . diam., levi glabro, deorsum subexpanso candido, sursum attenuato plus minusve ochroleuco suffultis; capillitio valde flexuoso hyalino tenui, parce ramoso, ad angulos incrassato; sporis globosis, 9-10 μ . diam., levibus, tenuiter tunicatis, fusco-subvinosis; granulis calcareis, numerosissimis globulosis minutissimis; columella non visa.

Hab. in foliis et culmis putrescentibus Sacchari officinarum et in saccharificio prov. Tucuman, Argentina.

3. **Physarum mucoroides** Schilb. Bot. Centralbl. LXVI, 1896, p. 84, 3101

tab. I. — Peridiis globosis, supra applanatis, nigris, pedicellatis, tunica tenuissima, hyalino-brunnea granulis calcareis minutis inæqualibus instructa; stipite peridiorum diametrum æquante recto v. plus minusve curvato, in longitudine irregulariter striato, deor-

sum æqualiter dilatato, ferrugineo; capillitii tubulis tenuissimis, in rete densum irregulariter incrassatis, interdum granulis calcareis repletis; sporis subglobosis æqualiter crassiusculeque tunicatis, umbrinis, levibus, intus inæqualiter granulosis.

Hab. ad caules foliaque Sedi carnei in calidario, Budapestini Hungariæ. — Totus fungus 1 mm. circiter altus.

4. **Physarum gravidum** Morg. Journ. Cinc. Soc. Nat. Hist. XIX, 3102 1896, p. 24. — Peridiis depresso-globosis, basi umbilicatis, stipitatis, tunica tenui, violacea basi brunnea, granulis calcareis minutis albis farcta; stipite longo, erecto, brunneo v. rubescenti-brunneo, deorsum obscuriore, sursum attenuato, ex hypothallo minuto oriundo; capillitii tubulis gracilibus, in rete contextis, angulis plus minus expansis, granulis calcareis repletis; nodulis calcariferis albis, gracilibus, valde elongatis, ramosis, lobatis; sporis globosis, minutissime verrucosis, obscure violaceis, 11-13 μ . diam.

Hab. ad culmos vetustos Zeæ Maydis, Ohio Amer. bor. — Peridium 5-6 mm. diam.; stipes circiter 10-12 mm. longus.

5. **Physarum relatum** Morg. Journ. Cinc. Soc. Nat. Hist. XIX, 1896, 3103 p. 26, tab. II, fig. 63. — Peridiis globosis, umbilicatis, stipitatis, sæpe cernuis, tunica tenui membranacea, violacea, rugulosa, granulis calcareis minutis rotundatis v. irregularibus albis tecta; stipite longo, erecto v. inclinato, ex hypothallo tenui oriundo, sursum attenuato, albo, cremeo v. ochraceo; capillitii tubulis dense in rete contextis, angulis plus minusve expansis, plerumque omnino granulis calcareis albis repletis; sporis globosis, sublevibus, violaceis, 8-9 μ . diam.

Hab. ad lignum putridum, Ohio Amer. bor. — Peridium 5-6 mm. diam.; stipes circiter 10-12 mm. longus.

6. **Physarum Serpula** Morg. Journ. Cinc. Soc. Nat. Hist. XIX, 1896, 3104 p. 29, tab. III, fig. 65. — Plasmodiocarpis rotundis, oblongis v. elongatis, curvatis, annulosis flexuosisque, interdum reticulatim conjunctis, tunica membranacea, firma, flava, granulis calcareis ochraceis v. aurantiacis tecta; capillitii tubulis dense in rete contextis, granulis calcareis repletis; nodulis magnis, numerosis, albis v. luteis, angulosis, lobatis ramosisque; sporis globosis, minute verrucosis, obscure violaceis, 9-11 μ . diam.

Hab. in foliis, corticibus etc. in America boreali. — Plasmodiocarpum 3-4 mm. latum, variæ longitudinis.

ERIONEMA Penz. Myx. Buitenz. Leid. 1898, p. 36 (Etym. *erion* lana et *nema* filam). -- Plasmodium hyalinum v. flavidum. Peridia breve stipitata, longe cylindræa, simplicia v. raro dichotome divisa. Parietis simplex, membranaceus, granulis calcareis, flavis, amorphis refertus, irregulariter rumpens. Capillitium persistens; rete ex filamentis tenuissimis, achrois, pluries anastomotico-ramosis et in discos horizontales ramulis inter se connexos digestis; nodulis calcareis subnullis; columella nulla.

1. **Erionema aureum** Penz. l. c. — Peridia aurea, 0,25-0,35 mm. cr., 3105 usque 1 cm. alta; stipite brevissimo flavo; sporis globosis, levibus, violaceo-brunneis. 6,5-7,5 μ . diam.

Hab. in culmis siccis et in residuis Polypori cujusdam lignei in horto bot. Buitenzorg Javæ.

CYTIIDIUM Morg. Journ. Cinc. Soc. Nat. Hist. XIX, 1896, p. 8 (Etym. dim. a *cytos*, cavitas, urna). — Sporangium globosum v. raro ellipsoideum, stipitatum, membrana tenui, irregulariter rumpente, granulis calcareis minutis. Stipes plus minus elongatus, sursum attenuatus, basi sporangii in columellam transeunte. Capillitium e columella oriundum, tubulis gracilibus, calcareo-nodulosis, ramis transversis in reticulum conjunctis. Sporæ globosæ, violaceæ. — A *Physaro* differt columella, e qua oritur capillitium.

Sect. I. Eucyctis Morg.

Sporangium globosum, columella non usque ad centrum sporangii procedens

1. **Cytidium pulcherrimum** (B. et R.) Morg. l. c. p. 8, *Physarum pulcherrimum* B. et R. — Sacc. Syll. VII, p. 341.
2. **Cytidium citrinum** (Schum.) Morg. l. c. p. 9, *Physarum citrinum* Schum. — Sacc. Syll. VII, p. 340.
3. **Cytidium rufipes** (Alb. et Schw.) Morg. l. c. p. 9, *Physarum aurantiacum* var. *rufipes* Alb. et Schw. et *Ph. aureum* var. *chrysopus* Lév. — Sacc. Syll. VII, p. 340.
4. **Cytidium Ravenelii** (B. et C.) Morg. l. c. p. 10, *Didymium Ravenelii* B. et C. — Sacc. Syll. VII, p. 333.
5. **Cytidium globuliferum** (Bull.) Morg. l. c. p. 10, *Physarum globuliferum* (Bull.) Rost. — Sacc. Syll. VII, p. 339.
6. **Cytidium molleum** (B. et Br.) Morg. l. c. p. 11, *Didymium molleum* B. et Br. — Sacc. Syll. VII, p. 340.

Sect. II. *Rextelia* Morg.

Sporangium ellipsoideum vel piriforme, columella usque ad apicem fere procedens

7. *Cytidium penetrale* Rex, l. c. p. 11. — Peridiis ellipsoideis v. pi- 3106
riformibus, stipitatis, pariete tenui-membranaceo, pellucido, granulis calcareis prædito, flavo-griseo v. viridi-flavo, maturitate in segmenta duo v. quatuor fisso; stipite longo, tenui, pallide v. atro-rubescente, sursum tenuato in peridium fere ad apicem, tamquam columella, penetrante; capillitii tubulis tenuibus e punctis variis columellæ orientibus, rete delicatum minutissime areolatum formantibus; calcis nodulis minutis, non copiosis, rotundis v. obtuse angulosis, albis v. flavidis; sporis globosis minutissime verrucosis, pallide violaceis 5,5-6,5 μ . diam.

Hab. in ligno putrescenti, Miami Valley, Ohio Amer. bor. — An huc *Tilmadoche hians* Rost.?

CRATERIUM Trent. — Syll. VII, p. 355, XI. p. 463.

1. *Craterium Maydis* Morg. Journ. Cinc. Soc. Nat. Hist. XIX, 1896, 3107
p. 15, tab. II, fig. 57. — Peridiis globosis v. obovoideis, stipitatis, superne membrana flava tenui, fragili, succinea v. aurea, granulis calcareis magnis crassisque prædita, basi crassioribus, plicatis, rubro-brunneis; stipite rubro-brunneo, longo, gracili, plicato, ex hypothallo minuto oriundo; tubulis crassis, reticulum formantibus; nodulis calcareis magnis, numerosis, luteis, anguloso-lobatis, ramosis; sporis globosis, minutissime verrucosis, pallide violaceis, 9-10 μ . diam.

Hab. in culmis vetustis Zeæ Maydis, Ohio Amer. bor. — Peridium cum stipite 1-1 $\frac{1}{2}$ mm. altum, 4-6 mm. latum.

CHONDRIODERMA Rost. — Syll. VII, p. 362, X. p. 85, XI. p. 464.

1. *Chondrioderma quitense* Pat. Bull. Soc. Myc. de Fr. 1895. p. 212. 3108
— Peridiis sparsis vel gregariis, subinde confluentibus, sessilibus, applanato-rotundatis, membrana externa crustacea, interna viridescente; capillitio parco, violaceo; tubulis 1 $\frac{1}{2}$ -2 μ . crassis, levibus, rectis v. flexuosis, anastomosantibus; sporis globosis, 13-15 μ . diam., atro-violaceis, verrucosis.

Hab. ad folia putrida dejecta in Æquatoria (v. LAGERHEIM).

— *Ch. difformi* affine, sed sporis verrucosis differt.

2. *Chondrioderma cinereum* (Morg.) Sacc. et Syd. *Diderma cinereum* 3109
Morg. Journ. Cinc. Soc. Nat. Hist. 1894, p. 70, tab. XII, f. 46.

— Peridiis subglobosis, plus minusve irregularibus, leniter depressis, sessilibus, 300-500 diam., cæspitosis, interdum confluentibus; hypothallo tenui, membranaceo, pellucido v. interdum granulis calcareis obsito; tunica peridii tenuissima, levi v. rugulosa, cinerea, irregulariter fissa, granulis calcareis agglutinatis tecta; columella alba, hemisphærica v. depressa, interdum irregulari, granulosa; capillitii floccis tenuibus, coloratis, apicibus pellucidis, plus minusve ramosis; sporis globosis, minute verrucosis, violaceis, 9-11 μ . diam.

Hab. ad folia emortua et in lignis putrescentibus in silvis, Ohio Amer. bor. — Habitus externus omnino *Physari cinerei*.

DIACHÆA Fries — Syll. VII, p. 387, XI, p. 465.

1. **Diachæa Thomasii** Rex, Journ. Cinc. Soc. Nat. Hist. 1894, p. 57. 3110

— Peridiis globosis, interdum leviter depressis, 0,5-0,7 mm. diam.; tunica aurea, subpersistenti, irregulariter dehiscente; stipite crasso, sordide luteo-ochraceo, variæ longitudinis, interdum brevissimo v. obsoleto, ex hypothallo ochraceo oriundo; columella conica v. cylindræo-clavata, centrum peridii attingento; capillitii floccis gracilibus, brunneis, radiantibus, ramosis, reticulatim conjunctis, masculis elongatis; sporis globosis, minute verrucosis, violaceis, 11-12 μ . diam.

Hab. ad ligna, folia etc., North Carolina Amer. bor

DIDYMIUM Schroet. — Syll. VII, p. 375, X, p. 35, XI, p. 464.

1. **Didymium intermedium** Schroet. Hedw. 1896, p. 209. -- Peridiis 3111

gregariis, stipitatis; stipite ca. 1 mm. longo, superne subulato-tenuiori, pallide flavo, sublevi; sporangio hemisphærico, depresso, umbilicato, ca. 0,5 mm. diametro, pariete tenero, hyalino; floccis capillitii hyalinis, flexuosis, ramosis interdum torulosis; sporis globosis, 10-12 μ . diametro, episporio aterrimo sive violaceo, aculeato.

Hab. in foliis putrescentibus in prov. St. Catharina Brasiliæ (ULE).

2. **Didymium Anellus** Morg. Journ. Cinc. Soc. Nat. Hist. 1894, p. 64. 3112

tab. XII, fig. 41. -- Plasmodiocarpis articulatis dispositis, demum confluentibus elongatisque, irregulariter connexis, flexuosis, in hypothallum minutum venulosum basi dilatatis, 0,3-0,5 mm. diam.; tunica obscure colorata, irregulariter fissa, crystallis stellato-congestis tecta; columella ex squamis brunneis composita; capillitii floccis tenuibus, obscure coloratis, plus minusve ramosis, reticulatim junctis; sporis globosis, minutissime verrucosis, violaceis, 8-9 μ . diam.

Hab. ad folia putrida in-silvis, Ohio Amer. bor. — *D. Serpulæ* affinis, sed minus.

3. *Didymium minus* Lister, Journ. Cinc. Soc. Nat. Hist. 1894, p. 61, 3113
tab. XII, fig. 39 — Peridiis depresso-globosis, umbilicatis, stipitatis, raro sessilibus, 0,4-0,6 mm. diam.; membrana obscure colorata, crystallis stellato-congestis tecta, irregulariter fissa, deoidua; stipite erecto, interdum apice flexuoso, varie longitudinis, peridii diametrum æquante, interdum brevissimo v. obsoleto, pallide brunneo usque nigrescente, in hypothallum minutum basi dilatato; columella usque ad peridii centrum intrante, brunnea v. nigrescente, aspera, convexa, subglobosa v. pulvinata, substipitata; capillitii floccis tenuibus, decoloribus, radiantibus, apicem versus plus minusve ramosis; sporis globosis, minutissime verruculosis, violaceis, 8-10 μ . diam.

Hab. ad folia emortua et in lignis corticibusque putrescentibus, Ohio Amer. bor.

4. *Didymium parasiticum* Sacc. et Syd. Sic dicendum est *Didymium australe* Mass. in Syll. X, p. 85, quum exstet anterius *D. australe* Berk. in Syll. VII, p. 384.
5. *Didymium Masseurianum* Sacc. et Syd. Sic dicendum est *Didymium neglectum* Mass. in Syll. XI, p. 465, quum exstet anterius *D. neglectum* B. et Br. in Syll. VII, p. 384.

STEMONITES Gled. — Syll. VII, p. 397, X, p. 87, XI, p. 466.

1. *Stemonites microspora* Lister, Journ. Cinc. Soc. Nat. Hist. 1894, 3114
p. 54. — Plasmodio albo; peridiis elongatis, subcylindricis, apice obtusis attenuatisque hypothallo brunneo, late effuso insidentibus, cæspitosis; stipite brunneo, levi, sursum gradatim attenuato, apice in peridium intrante atque in columellam apicem peridii subattingentem producto, columella brevior; capillitii floccis gracilibus, flavo-brunneis, ramis simplicibus v. anastomosantibus; masculis superficialibus, minutissimis, polygonalibus, 4-20 μ . latis; sporis globosis, levibus, luteo-brunneis, 5-6 μ . diam.

Hab. ad lignum putridum, folia, corticem etc., Ohio Amer. bor. — Peridium cum stipite 7-15 mm. altum, 0,3-0,4 mm. crassum.

2. *Stemonites Webberi* Rex, Journ. Cinc. Soc. Nat. Hist. 1894, p. 55. 3115
— Peridiis subcylindricis, apice obtusis, deorsum gradatim attenuatis, cæspitosis, hypothallo communi insidentibus; stipite nigro, levi, brevissimo, 1-2 mm. longo, apice in peridium intrante atque in columellam apicem peridii subattingentem sursum plerumque flexuo-

sam producto; capillitii floccis gracilibus, flexuosis, brunneis, ramis anastomosantibus; masculis superficialibus, magnis, irregularibus, interdum elongatis, 40-150 μ . longis; sporis globosis, minutissime verrucosis, brunneis, 7-9 μ . diam.

Hab. in cortice et ligno vetusto, Ohio Amer. bor. — Peridium cum stipite 5-10 mm. altum, 0,3-0,4 mm. crassum.

COMATRICHA Preuss — Syll. VII, p. 394, X, p. 87, XI, p. 466.

1. *Comatricha Ellisii* Morg. Bull. Journ. Cinc. Soc. Nat. Hist. 1894, 3116

p. 49, tab. XI, fig. 29. — Peridiis brevibus, erectis, ovalibus, ovoidis v. oblongis; stipite erecto, brunneo, levi, ex hypothallo tenui pallido oriundo, sursum attenuato, plerumque columella erecta brunnea longiore; capillitii floccis gracilibus, pallide brunneis, reticulatim connexis, ramis ramulisque anastomosantibus, apice brevissime liberis; sporis globosis, levibus, pallide ochraceis, 6-7 μ . diam.

Hab. ad lignum pineum vetustum, N. Jersey Amer. bor. — Peridium 3-6 mm. altum, 0,3-0,5 mm. latum; stipes plerumque peridio longior.

2. *Comatricha floccida* Lister, Journ. Cinc. Soc. Nat. Hist. 1894, 3117

p. 51. — Peridiis cæspitosis, plus minus confluentibus, tunica fugaci; columellis ex hypothallo communi purpureo-brunneo oriundis, apicem peridii attingentibus ibique sæpe confluentibus; capillitii floccis gracilibus, brunneis, irregulariter ramosis anastomosantibusque, rete irregulare formantibus, ramis apicibus liberis; capillitiis sæpe confluentibus; sporis globosis, minutissime verrucosis, brunneis, 7-9 μ . diam.

Hab. in cortice vetusto Quercus, Salicis etc., Ohio Amer. bor. — Peridium 5-10 mm. longum.

3. *Comatricha crypta* (Schw.) Morg. Journ. Cinc. Soc. Nat. Hist. 3118

1894, p. 50, tab. XI, fig. 30; *Stemonitis crypta* Schw. N. A. Fungi n. 2351; *Comatricha irregularis* Rex. — Peridiis cylindraceis, curvatis v. flexuosis, plus minusve inclinatiss, in hypothallo conspicuo purpureo-brunneo gregariis; stipite levi, nigro; columella flexuosa v. spiraliter torta, levi, nigra, sursum attenuata, apicem peridii attingente, stipitem æquante; capillitii floccis irregularibus, curvulis, inferne brunneis, demum extus hyalinis, ramosis; ramis reticulum laxum formantibus, apicibus irregularibus simplicibus vel ramosis liberis; sporis globosis, brunneis, minute verrucosis, 7-9 μ . diam.

Hab. in cortice Aceris, Caryæ etc. in America boreali. — Peridium cum stipite 4-7 mm. altum, 0,25-0,30 mm. crassum.

4. **Comatricha cæspitosa** Sturgis, Journ. Cinc. Soc. Nat. Hist. 1894. 3119
p. 50. — Peridiis brevibus, clavatis, in hypothallo delicato dense confertis v. cæspitosis; tunica subpersistente, argentea, purpureo-tincta, nitida; stipite brevissimo v. subobsoleto; columella apicem peridiorum non attingente; capillitii floccis gracilibus, obscure brunneis, irregulariter ramosis anastomosantibusque, reticulatim junctis, apicibus longis liberis; sporis globosis, minute spinulosis, obscure violaceis, 10-12 μ . diam.

Hab. ad muscos et lichenes, Massachusetts Amer. bor. — Peridium 1-1½ mm. altum; stipes brevissimus v. obsoletus.

LAMPRODERMA Rost. — Syll. VII, p. 390, XI, p. 465.

1. **Lamproderma inconspicuum** Schroet. Hedw. 1896, p. 208. — Pe- 3120
ridiis sparsis, stipitatis, stipite setiformi usque ad 2 mm. longo superne tenuiori, curvato, atrobrunneo levi; sporangio globoso, vix 0,5 mm. diametro, columella brevissima; capillitio fasciculato, ramis repetito-dichotomis, ramulis arcuatis, reticulato-conjunctis, interdum torulosis, atro violaceo-brunneo; sporis globosis 6-8 μ . diametro, episporio pallide violaceo-brunneo, levi.

Hab. in cortice in pr. St. Catharina Brasiliæ (ULE).

Sect. 2. Lamprosporæ

LICEA Schrad. — Syll. VII, p. 404, X, p. 89, XI, p. 467.

1. **Licea Schoenleinii** Johow in Estud. sobre la flora de las Isl. de 3:21
Juan Fernandez. Santiago 1896, p. 195. — Sporangiiis globosis, leviter depressis, 5-7 mm. latis; peridio rigido, e fusco nigrescente; sporis globosis, fusco-flavis, episporio punctato-echinulato.

Hab. in ligno putrido in ins. Juan Fernandez (JOHOW).

ENTERIDIUM Ehrenb. — Syll. VII, p. 409, X, p. 90.

1. **Enteridium olivaceum** Ehrbg. — Sacc. Syll. VII, p. 409. — Var. 3122
liceoides Lister, Journ. of Bot. 1896, p. 210. — Plasmodiocarpis et absentia pseudocapillitii ut in *Licea flexuosa*, sporis vero glomerulatis ut in *Enteridio*.

Hab. ad fragmenta lignea in Britannia.

RETICULARIA Bull. — Syll. VII, p. 418, XI, p. 468.

1. **Reticularia nitens** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, 3123
p. 40, tab. II, fig. 11. — Æthelio pulvinato, vario, membrana

tenui fragili nitido incluso; tunicis peridii atris, nitidis, fibroso-incrassatis; sporis globosis, minute verrucosis, brunneis, 9-10 μ . diam.

Hab. in cortice vetusto, California. — *Æthalia* 2-3 cm. lata.

TRICHIA Hall. — Syll. VII. p. 438, X, p. 93, XI, p. 470.

1. **Trichia varia** Pers. — Sacc. Syll. VII, p. 442. — Var. *fimicola* El. 3124

March. Bull. Soc. Roy. Bot. Belg. XXXIV, 1896, p. 133. — Peridiis sparsis, ochraceis, stipite 250-400 \times 100-140; elateribus circiter 3 μ . crassis; sporis 7-9 $\frac{1}{2}$ μ . diam., pallide ochraceis.

Hab. ad fimum cuniculorum in Belgio.

HEMIARCYRIA Rost. — Syll. VII, p. 446, X, p. 98, XI, p. 471.

1. **Hemiarcyria montana** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 3125

1895, p. 40, tab. II, fig. 12. — Peridio globoso v. obovoideo, olivaceo-luteo, sessili v. substipitato, intus minute reticulato, extus levi, nitido, irregulariter aperto; stipite brevissimo v. obsoleto, ex hypothallo tenui oriundo; capillitii floccis 6-8 μ . crassis, repetite ramosis, anastomosantibus, reticulatim conjunctis, olivaceis, ramis apicibus liberis; tæniolis spiralibus 4-5, confertis v. laxis, spinulis minutis sparsis armatis; sporis olivaceis, globosis, minutissime verrucosis, 11-13 μ . diam.

Hab. gregaria ad lignum vetustum, California. — Peridium 1-1 $\frac{1}{2}$ mm. altum.

ARCYRIA Hall. — Syll. VII, p. 425, X, p. 92, XI, p. 469.

1. **Arcyria tenuis** Schroet. Hedw. 1896, p. 207. — Peridiis sparsis, 3126

cylindraceis subcinereis, stipitatis, stipite nigricanti; tubulis capillitii inæqualibus sublevibus et minute spinulosis; sporis globosis 5-7 μ . diametro, episporio levi, pallide flavo.

Hab. in foliis Palmarum in prov. St. Catharina Brasilæ (ULÆ).

PERICHÆNA Fr. — Syll. VII, p. 420, X, p. 91, XI, p. 468.

1. **Perichæna microspora** Penz. et List. Myx. Buitz. Leid. 1898, p. 76. 3127

— Plasmodiocarpis forma ludibundis, ellipsoideis v. oblongis v. cylindraceis, curvis et reticulatim junctis, superficie sublevi, nitente, 0,5 mm. cr. pulcre carneis; pariete externo crasso, interiore tenuissimo, papilloso, carneo; capillitii filamentis sparse ramosis, vix 2 μ . cr. subæqualibus, ubique verrucis prominentibus crebre asperatis; sporis sphaericis flavidis v. rubentibus, 6-7 μ . diam. levibus v. tenuiter spinulosis.

Hab. in foliis ramulisque dejectis in horto bot. Buitenzorg Javæ.

LYCOGALA Mich. — Syll. VII, p. 435, XI, p. 470.

1. *Lycogala repletum* Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 3128 1895, p. 40, tab. II, fig. 13. — Æthelio magno, pulvinate, opaco, griseo, maculis minutis brunneis adperso, irregulariter dehiscente, 4-7 cm. lato; tubulis liberis, clavatis; floccis gracilibus, longis, ramosis, 1-2 μ . crassis; massa sporacea cinereis sporis globosis, minute verrucosis, 6-7 μ . diam.

Hab. ad terram, in California.

*Fam. 2. Monadinactæ Cienk. *)*.

SAPPINIA Dang. Le Botan. 5 sér. Fasc. I, 1896, pag. 1. c. fig. (Etym. a cl. bio-mycologo doct. SAPPIN - TROUFFY, gallico ex Poitiers). — Plasmodia maculiformia, alba, lactea et myxoamœbis protiformibus formata; sporæ in massas inæquales aggregatæ, nudæ, globosæ v. anguloso-globosæ, sæpius in stipitem sporam æquantem basi productæ et cum eo matrici fixæ, distinctæ nucleatæ.

1. *Sappinia pedata* Dang. l. c.

3129

Hab. in fimo equino ad culturas micromycetum adhibito, in Gallia. — Quoad morphologiam cfr. l. c. ubi, more solito, diagnosis systematica desideratur.

TYLOGONUS Miliarakis, Tylog. ein Beitr. Athen. 1888 (Etym. *tylos* pulvinus et *goneo* genero) — Fungus gallas generans, *Plasmodiophoræ* subaffinis, dubius. Initio ex albo plasmodio et gelatina constat, dein formantur sporæ (?) globosæ, exiguæ, hyalinæ v. flaventes, acervatæ, intra-cellulares.

1. *Tylogonus Agaves* Mil. l. c. cum tab. — Sporæ 7-14 in quaque 3130 cellula matricis hypertrophica, minute granulosæ, 3-3,5 μ . diam. albæ, rarius flavidæ.

Hab. in foliis *Agaves americanæ* in Græcia. — In utraque pagina, præsertim autem in inferiore formantur pustulæ pulvinate, satis elevatæ, minutæ aggregatæ maculas generantes.

*) Au genera cuncta hic enumerata ad *Monadinactas* spectent, dubitandum.

AMYLOTROGUS Roze, Journ. de Bot. 1896, p. 424 (Etym. *amylum* et *trogo* edo). — Plasmodium simplex, discoideum, ad superficiem granulorum amyli incolens et eos solvens, plasmodiis similibus divisione ortis.

* Plasmodiis superficialibus.

1. **Amylotrogus lichenoides** Roze, Bull. Soc. Myc. de Fr. XIII, 1897. 3131
p. 5 extr. fig. 1-2.

Hab. in granulis amyli Solani tuberosi in Gallia.

2. **Amylotrogus vittiformis** Roze l. c. fig. 3-5. 3132

Hab. in granulis amyli Solani tuberosi in Gallia.

** Plasmodiis penetrantibus.

3. **Amylotrogus filiformis** Roze l. c. fig. 6-7. 3133

Hab. in granulis amyli Solani tuberosi in Gallia.

4. **Amylotrogus discoideus** Roze, Journ. de Bot. 1896 p. 424, fig. 1-6; 3134
Bull. Soc. Myc. de Fr. XIII, 1897, p. 6 extr. fig. 8-13.

Hab. in granulis amyli Solani tuberosi in Gallia.

5. **Amylotrogus ramulosus** Roze, Journ. de Bot. 1896, p. 424, fig. 7-11; 3135
Bull. Soc. Myc. de Fr. XIII, 1897, p. 7 extr. fig. 14-20.

Hab. in granulis amyli Solani tuberosi in Gallia.

VILMORINELLA Roze, Bull. Soc. Myc. de France 1897, p. 89, tab. XV
(Etym. a. cl. B. de VILMORIN): — Plasmodium simplex, minutum, subsphæroideum, cystam formans, intus vacuola 3-5 præbens, gemmatione (?) prolificans.

1. **Vilmorinella Micrococcorum** Roze l. c. p. 95. — Plasmodii sphæ- 3136
rulis 6-7 μ . diam. achrois, refringentibus.

Hab. in muco Micrococcorum ad tubera Solani tuberosi in Gallia.

XANTHOCHROA Roze, Bull. Soc. Myc. de France 1897, p. 154 (Etym. *xanthos* flavus et *chroa* color). — Plasmodium amorphum, flavum, in cystas sphaericas abiens.

1. **Xanthochroa Solani** Roze l. c. — Plasmodii cystis magnitudine 2137
variis a 30 ad 120 μ . diam., amyllum destruentibus, initio sulfuris, dein brunneo-rubentibus.

Hab. in cellulis tuborum Solani tuberosi in Gallia.

MYXOBACTERIACEÆ Thaxt.

Bot. Gaz. 1892, p. 399 et 1893, p. 29, 1897, p. 406; Sacc. Syll. XI, p. 460.

CHONDROMYCES B. et C. — Syll. IV, p. 576, XI, p. 460. — Cum hoc genere collidit genus *Myxobotryx* Zukal Ber. Deutsch. Bot. Gesellsch. 1896. p. 347 cum fig., nam *M. variabilis* Zukal l. c. eadem est ac *Chondromyces crocatus* B. et Br.

1. **Chondromyces gracilipes** Thaxt. l. c. p. 406, t. XXXI, f. 20-24. 3138
— Aurantio-ruber; cystophoris simplicibus sursum tenuatis, 25-40 μ . longis, rigidis, persistentibus; cystibus solitariis, terminalibus, oblongo-ovoideis, sursum rotundatis, basi subapplanatis, caducis, 35 \times 25; baculis 2-5 \times 0,6.

Hab. in fimo cuniculorum, Massachusetts Amer. bor.

2. **Chondromyces erectus** (Schroet.) Thaxt. l. c. p. 407, tab. XXXI, 3139
fig. 16-19; *Cystobacter erectus* Schroet. Kryptog.-Flora v. Schles. III. p. 170; Sacc. Syll. VIII, p. 1035.

Hab. in fimo equino, in Silesia et Massachusetts Amer. bor. — Rubro-aurantius, ad castaneum *vergens*; cystes 50 \times 40; baculi 2-5 \times 0,9.

3. **Chondromyces apiculatus** Thaxt. Bot. Gaz. XXIII, 1897, p. 405, 3140
tab. XXX, fig. 1-15. — Læte aurantius; cystophoris rigidis, simplicibus, raro parce ramosis, 0,5-1 mm. altis; cystibus forma et magnitudine variis, cylindraceis v. obclavatis, denique utrinque appendiculatis in capitula globosa radiatim congestis, 35 \times 18-28; baculis 3-20 \times 1.

Hab. in fimo Antiloparum in Liberia Africae. — Capitula 136-200 μ . diam.

4. **Chondromyces Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 3141
p. 252. — Maculis nullis, hypothallo anhyeto, tenuissime mucosomembranaceo, pallide rufescente arcte matrici adnato; stipitibus solitariis v. laxè gregariis erectis rectis v. flexuosulis, deorsum sæpius simplicibus, teretibus, sursum divaricato-ramulosis (rarius simplicibus) longiusculis, udis flexilibus, siccis rigidulis subcorneis,

sæpius spiraliter tortis, 800-2500 μ . long., 10-25 μ . crass., flavis, ex hyphis tenuissimis, 1-2 μ . crassis, arcuè coalescentibus pallide melles efformatis, longitudinaliter rugosis v. irregulariter costatis; apicibus ramulorum incrassato-capitatis, sæpius bilobo-bicapitatis (caput 10×10) dense minute brevissimeque papillatis concoloribus; conidiis (sporis) in apice papillarum solitarie acrogenis conicis v. ovatis, 16-25 \times 8-18, antice plus minusve obtuse rotundatis, postice truncato-umbilicatis ibique radiatim plicatulis, unicellularibus, levibus, ex hyalino flavescentibus.

Hab. in foliis, vaginis culmisque putrescentibus Sacchari officinarum, La Plata, Argentina.

MYXOCOCCUS Thaxt. — Syll. XI, p. 460. — Baculi exiles, curvati, mobiles, myxoamœboidei, tandem in massulas definitas, sporis cœciformibus refertas, cyste plus minus tectas abeuntes.

1. **Myxococcus stipitatus** Thaxt. Bot. Gaz. XXIII, 1897, p. 408, 3142 tab. XXXI, fig. 30-33. — Ex albo rubescens; sporarum massulis initio deliquescentibus, subsphæricis, 175 μ . diam., stipite distincto obtuso fultis; baculis 2-7 \times 0,5-0,7; sporis ovoideis 1-1,5 \times 0,8-1,2.

Hab. in fimo suino aliorumque animalium, pluribus locis in America boreali.

2. **Myxococcus cirrosus** Thaxt. l. c. p. 409, tab. XXXI, fig. 25-27. 3143 — Pallide rubens v. incarnatus; sporarum massulis plus minus elongatis, 50-100 \times 20, erectis, basi leviter incrassatis, sursum tenuatis; baculis 2-5 \times 0,8; sporis inæqualiter sphæricis 1 μ . diam.

Hab. in fimo gallinaceo in Amer. bor.

3. **Myxococcus cruentus** Thaxt. l. c. p. 409, tab. XXXI, fig. 28- 3144 29. — Atro-sanguineus; cystibus regulariter sphæricis, tunica plus minus definita obvolutis; baculis 8 \times 3-8; sporis ovoideis v. irregulariter oblongis, 1,2-1,4 \times 0,9-1; cystibus 90-125 μ . diam.

Hab. in fimo vaccino in Amer. bor.

4. **Myxococcus macrosporus** Zukal, Berichte deut. bot. Gesell. 1897, 3145 p. 551, t. XXVII, f. 1-2. — Carneus v. aurantiacus, subglobosus, dein guttiformis, 1-2 mm. diam.; sporis globosis periphericis, 3 μ . diam., tenui-tunicatis, strato mucoso obvolutis; bacteriosporis partem mediam et inferiorem occupantibus, bacillaribus, 4-7 \times 0,1-1,5, utrinque rotundatis, rectis v. curvulis.

Hab. in cortice udo Populi nigræ et albæ in laboratorio asservato, Vindobonæ.

POLYANGIUM Link — Syll. VII, p. 47 (inter dubia). — Huc du-
cendum est genus *Myxobacter* Thaxt., Syll. XI, p. 461, cujus
species *M. aureus* Thaxt. collidit cum *Polyungio vitellino* Link,
jam ab anno 1705 descripto, sed hucusque inter dubia relato.

SPHÆROPSIDACEÆ (Lev.) Sacc.

Syll. III, p. 1, X, p. 100, XI, p. 472.

Fam. 1. Sphæricoidaceæ Sacc.

Sect. 1. Hyalesporæ.

PHYLLOSTICTA Pers. — Syll. III, p. 3, X, p. 100, XI, p. 472.

1. **Phyllosticta Anemones** P. Brun. Sphærops. Char. 1889, p. 9. — 3146

Maculis rotundatis vel irregularibus, griseis vel griseo-brunneis,
margine obscurioribus; peritheciis minutissimis, erumpentibus, spar-
sis, nigris; sporulis ovoideis, hyalinis, continuis, $4\frac{1}{2}$ -6 \approx $2\frac{1}{2}$ -3.

Hab. in foliis *Anemones japonicæ*, Saintes Galliæ.

2. **Phyllosticta pygmæa** Allesch. in Allescher et P. Hennings, Pilze 3147

aus dem Umanakdistrikt. 1897, p. 10. — Peritheciis amphigenis,
sparsis, lenticularibus, nigris; sporulis oblongis, utrinque obtusis,
continuis, plerumque biguttulatis, hyalinis, ca. 5-8 \approx 2-3

Hab. in foliis languescentibus *Ranunculi pygmæi* pr. Ka-
rajak-Nunatak Groenlandiæ (VANHÖFFEN).

3. **Phyllosticta nigra** P. Brun. Act. de la Soc. Linn. de Bordeaux LII, 3148

III ser. 1898, p. 6 extr., *Ph. helleborina* P. Brun. Bull. Soc. Sc.

Nat. Nantes 1893, p. 217. — Maculis latissimis, interdum dimidium

folii occupantibus, intense brunneis, immarginatis; peritheciis ag-

gregatis v. nervos sequentibus, globulosis, minutis, tectis; sporulis

ovoides, oblongis, hyalinis, continuis, biguttulatis, 5-6 \approx $2\frac{1}{2}$.

Hab. in foliis languescentibus *Hellebori nigri*, Saintes in
Gallia.

4. **Phyllosticta intermedia** Allesch. Hedw. 1897, p. (159). — Maculis 3149

amphigenis, minutis, subcircularibus v. angulosis, candicantibus,

fusco-cinctis; peritheciis plerumque epiphyllis, interdum hypo-

phyllis, punctiformibus, atris; sporulis minutissimis, bacillaribus, hyalinis, 2-2½ mm. longis.

Hab. in foliis vivis Clematidis rectæ pr. Berlinum Germaniæ (SYDOW). — Inter *Ph. corrodentem* Pass. et *bacteriospermam* Pass. fere media.

5. **Phyllosticta clematidicola** P. Brun. Act. Soc. Linn. Bordeaux 3150 1898, p. 9, *Ph. Clematidis* P. Brun. Sphærops. Char. 1889, p. 9 nec Ell. et Dearn. — Maculis minutis irregularibus v. angulosis, brunneis, centro albicantibus v. griseis, late brunneo-marginatis; peritheciis sparsis numerosis, punctiformibus, brunneo-nigris; sporulis ovoideis, hyalinis, continuis, 5-6 × 3.

Hab. in foliis languescentibus Clematidis Vitalbæ, Saintes Galliæ.

6. **Phyllosticta Xanthorrhizæ** Ell. et Nutt. Field Columb. Mus. IX, 3151 1896, p. 105. — Maculis subellipticis, centro sordide albidis margineque obscuro cinctis ⅓-1 cm. longis, 2-8 mm. latis, tandem plus minusve deciduis; peritheciis parte albida macularum insidentibus, epiphyllis, subdiscoideis, supra perforatis, 60-75 µ. diam., sporulis oblongo-ellipticis hyalinis, binucleatis, 5-6 × 2½-3.

Hab. in foliis vivis Xanthorrhizæ apiifoliæ, W. Virginia Amer. bor. (NUTTALL).

7. **Phyllosticta mahoniæcola** (Pass.) Sacc. Syll. X, p. 100. — forma 3152 **microspora** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, p. 10 extr. — Sporulis minutissimis, 2;25 × 1

Hab. in foliis vivis Mahoniæ Bealii cultæ in Italia bor.

8. **Phyllosticta mahoniæcola** Pass.-Sacc. Syll. X, p. 100 — forma 3153 **Aquilfolii** P. Brun, Act. Soc. Linn. Bordeaux 1890, p. 32 extr. — Maculis ut in forma typica, sed brunneo-marginatis; peritheciis ut in forma typica, sed epidermide supra peritheciium non decorata; sporulis oblongis, hyalinis, biguttulatis, 8 × 2½.

Hab. in foliis Mahoniæ Aquifolii, Saintes in Gallia.

9. **Phyllosticta Chelidonii** Bres. Hedw. 1896, p. 199. — Maculis epiphyllis, irregularibus, luteo-fuscis, saturatius limitatis; peritheciis subcutaneis, globosis, 80-120 µ. diam.; sporulis cylindræis, continuis, 7-8 × 3, una alterave ad latera compressa; uniseptata, 10 × 3½.

Hab. in foliis Chelidonii majoris pr. Königstein Saxonie (KRIEGER).

10. **Phyllosticta Helianthemi** Roum.-Sacc. Syll. III, p. 88 — var. 3155 **major** P. Brun. Sphærops. Char. 1889, p. 9. — Sporulis 4 × 2½ µ.

Hab. in foliis *Helianthemum* vulgaris, Saintes Gallæ.

11. **Phyllosticta helianthemicola** Allesch. Ber. Bayr. Bot. Ges. IV, 3156
1896, p. 31. — Maculis irregularibus, ochraceo-griseis, indeterminatis, amphigenis; peritheciis epidermide tectis, dein erumpentibus, globoso-depressis, pertusis, nigris; sporulis oblongis, utrinque rotundatis, continuis, biguttulatis, hyalinis, ca. $5-8 \times 1\frac{1}{2}-2\frac{1}{2}$; basidiis non visis.

Hab. in foliis vivis *Helianthemum* vulgaris, Oberammergau, Bavaria.

12. **Phyllosticta Cardamines** Allesch. in Allescher et P. Hennings, 3157
Pilze aus dem Umanakdistrikt. 1897, p. 10. — Peritheciis minimis, tectis, erumpentibus, fuscis; sporulis ovoideis vel ovoideo-oblongis, utrinque rotundatis v. obtusis, eguttulatis, continuis, hyalinis, ca. $5-7 \times 2-3\frac{1}{2}$.

Hab. in foliis petiolisque emortuis *Cardamines bellidifolia* pr Karajak Nunatak Groenlandiæ (VANHÖFFEN).

13. **Phyllosticta alpina** Allesch. Hedw. 1895, p. 257. — Maculis nullis; 3158
peritheciis epiphyllis, gregariis v. sparsis, punctiformibus, globosis, pertusis, nigris; sporulis oblongis v. subcylindræis, rectis v. curvulis, utrinque rotundatis, continuis, biguttulatis, hyalinis, ca. $6-12 \times 2-3$.

Hab. in foliis languidis v. emortuis *Arabidis alpinae* in Bavaria australi.

14. **Phyllosticta Holosteæ** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3159
p. 15. — Maculis nullis, sed folio toto expallente; peritheciis plerumque epiphyllis, raro amphigenis, sparsis, globosis, pertusis, contextu parenchymatico, fusco nigro, $50-60 \mu$. diam.; sporulis minutissimis, ovoideis v. oblongis, continuis, utrinque rotundatis, hyalinis, magnitudine valde varia, $3-6 \times 1,5-3$.

Hab. in foliis emortuis *Stellaris Holosteæ* in Franconia super. bavar. (ROHNFELDER).

15. **Phyllosticta Clusiæ** Allesch. Hedw. 1897, p. 237. — Maculis minutis, indeterminatis, amphigenis, fusco-brunneolis; peritheciis hypophyllis, perexiguis, dense gregariis, numerosissimis, nigris; sporulis cylindræis, rectis, continuis, hyalinis, ca. $5-8 \mu$. long. $0,5-1\frac{1}{2} \mu$. crass.

Hab. in foliis emortuis *Clusiæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

16. **Phyllosticta Allescheri** Syd. Hedw. 1897, p. (157). — Maculis amphigenis, parvis, elatis, circularibus sinuosisve, albicantibus, li-

nea fusca cinctis, circiter 1-4 mm. diam.; peritheciis minutissimis, epidermide tectis, dein erumpentibus, gregariis, fusco-nigris; sporulis minutissimis, oblongis, continuis, 3-5 \times 1, hyalinis.

Hab. in foliis adhuc vivis Ampelopsidis quinquefoliæ pr. Berolinum Germaniæ (SYDOW).

17. **Phyllosticta neglecta** P. Brun. Sphærops. Char. 1889, p. 7. — 3162

Peritheciis hypophyllis, brunneo-nigris, perforatis, erumpentibus, globosis, consociatis in maculis minutis brunneis; sporulis oblongis, hyalinis, biguttulatis, 7 \times 2.

Hab. in foliis Camelliæ japonicæ, Saintes Galliæ.

18. **Phyllosticta Pterandræ** Allesch. Hedw. 1897, p. 237. — Maculis 3163

amphigenis, circularibus, brunneis, dein centro expallentibus, fere griseis, ca. 1-2 cm. diam.; peritheciis epiphyllis, perexiguis, numerosis, epidermide tectis, dein erumpentibus, globosis, nigricantibus; sporulis minutissimis, oblongis v. cylindræis, continuis, hyalinis, ca. 4-6 μ . longis, 1 μ . crassis.

Hab. in foliis Pterandræ spec. pr. Goyaz Brasiliæ (GLAZIOU).

19. **Phyllosticta Kielmeyeræ** Allesch. Hedw. 1897, p. 237. — Ma. 3164

culis parvis, amphigenis, circularibus, fusco-brunneis, dein expallentibus, rubro-cinctis, plerumque confluentibus et maculas magnas zonatas formantibus; peritheciis epiphyllis, erumpentibus, minutis, sparsis vel gregariis, globosis, poro pertusis, nigris; sporulis exiguis, oblongis vel subcylindræis, utrinque obtusis, continuis, sæpe biguttulatis, hyalinis, ca. 4-7 μ . longis, 4-2 μ . crassis.

Hab. in foliis languidis Kielmeyeræ spec. pr. Goyaz Brasiliæ (GLAZIOU).

20. **Phyllosticta desertorum** Sacc. Maipighia 1896, p. 272, t. V, f. 7. 3165

— Maculis suborbicularibus, amphigenis, parvis, fuscis, centro pallidioribus; peritheciis sæpius epiphyllis, globoso-depressis, minutissime papillatis, prominulis, 130 μ . diam., contextu fusco-ochraceo; sporulis ellipsoideo-oblongis, 6-8 \times 2-2 $\frac{1}{2}$, eguttulatis, hyalinis.

Hab. in foliis subvivi Astragali Alopecuri in desertis Sibiricæ. — Affinis *Ph. lathyricæ*.

21. **Phyllosticta Desmodii** Ell. et. Ev. - Syll. IX, p. 128 — var. **be** 3166

rolinensis Allesch. Hedw. 1896, p. (34). — Sporulis 4-6 \times 2-3, cetera ut in forma typica.

Hab. in foliis vivis Desmodii enjusdam pr. Berolinum Germaniæ (SYDOW).

22. **Phyllosticta Spæthiana** Allesch. et P. Syd. Hedw. 1897, p. (160). 3167

— Maculis minutis, irregularibus, albidis, linea fusca elata cinctis;

peritheciis epiphyllis, innatis, vix prominulis, fuscis; sporulis ovoideo-oblongis v. oblongis, utrinque rotundatis, continuis, hyalinis. ca. $5-7 \times 2\frac{1}{2}-3\frac{1}{2}$.

Hab. in foliis vivis Caraganae arborescentis pr. Berlinum Germaniæ.

23. **Phyllosticta cercidicola** Ell. et Ev. Field Columb. Mus. 1X, 1896, 3167^a p. 105. — Maculis suborbicularibus, $\frac{1}{2}$ -1 cm. diam., ferrugineis, pallescentibus, anguste purpureo-marginatis; peritheciis epiphyllis, convexis, suberumpentibus, sed epidermide tectis, 110-150 μ . diam.; sporulis oblongis, utrinque rotundatis v. subobtusis, hyalinis, 2-3-guttulatis, angustis, $15-20 \times 6-7$.

Hab. in foliis Cercidis canadensis in W. Virginia Amer. bor. (NUTTALL).

24. **Phyllosticta Bauhinia** Cke.-Sacc. Syll. III, p. 11. — Var. euro- 3168
pæa Allesch. Hedw. 1895, p. 215. — Maculis irregularibus, indeterminatis, dein folium totum occupantibus, amphigenis, fusco-brunneis; peritheciis minutis, sparsis, punctiformibus, epidermide tectis, dein erumpentibus, atris; sporulis ellipticis v. subfusiformibus, utrinque obtusiusculis, continuis, eguttulatis, hyalinis, $6-8 \times 2-2\frac{1}{2}$, sæpe leniter curvis.

Hab. in foliis languescentibus Bauhinia spec. in calidariis, München Baviariæ.

25. **Phyllosticta Prosopidis** P. Henn. Hedw. 1897, p. 238. — Ma- 3169
culis amphigenis, candidis, crasse brunneo-marginatis, oblongis; peritheciis sparsis, punctiformibus, semiimmersis, lenticularibus, atris; sporulis cylindraneo-oblongis, utrinque obtusis, hyalinis, continuis, $3-4 \times 0,5-0,7$.

Hab. in foliis vivis Prosopidis ruscifoliae in Argentina.

26. **Phyllosticta limitata** Peck, 50 Rep. p. 115. — Maculis orbicu- 3170
laribus, minutis. 2-6 mm. lat., passim confluentibus, brunneis v. rufo-brunneis, interdum totis v. centro cinerescentibus, margine angusto, elevato atro-brunneo cinctis; peritheciis epiphyllis, nigris, paucis, punctiformibus; sporulis ellipsoideis, $7-8 \times 4$.

Hab. in foliis vivis Piri Mali, Westbury, Queens county Amer. bor. (STEWART).

27. **Phyllosticta Leucocarpæ** Atk. Bull. Cornell Univ. III, n. 1, 3171
1897, p. 31. — Maculis amphigenis, suborbicularibus, albis, aridis, anguste brunneo-marginatis; peritheciis amphigenis, nigris, applanatis, prominulis, 120-140 μ . diam.; sporulis cylindraceutis, hyalinis, $10-14 \times 3-4$.

Hab. in foliis *Piri leucocarpæ*, Auburn, Alabama Amer. bor.

28. *Phyllosticta solitaria* Ell. et Ev. Proc. Acad. Philad. 1895, p. 430. 3172

— Maculis minutis, 1 mm. diam., rotundis, pallide albis, obscure marginatis; peritheciis epiphyllis, solitariis, 75 μ . diam.; sporulis subglobosis, hyalinis, nucleatis, 5-6 μ . diam.

Hab. in foliis *Piri coronariæ*, Jowa, Amer. bor. (UNDERWOOD).

29. *Phyllosticta perforans* Sacc. et Matt. sp. nov. — Maculis amphigenis 3173

circularibus v. ellipticis, arescentibus, dein exquisite circumscissis et facile dilabentibus; peritheciis in centro maculæ gregariis, plerumque epiphyllis, punctiformibus, atris, cuticula minutissime pustulata albida velatis; sporulis perexiguis, breve cylindræis, 3 \times 0,5, hyalinis.

Hab. in foliis *Pruni Lauro-cerasi*, quæ demum eximie pertusa conspiciuntur, Bononiæ Ital. bor. (MATTIROLO). — Affinis *Phyll. circumscissæ* Cooke (seu *Shot-hole-fungus*) et cum *Ocularia circumscissa* Sorok. et *Cercospora circumscissa* Sacc. analoga.

30. *Phyllosticta Padi* P. Brun. Sphærops. Char. 1889, p. 2. — Ma- 3174

culis suborbicularibus vel irregularibus, brunneis vel ochraceis, dein pallescentibus, anguste marginatis; peritheciis sparsis, nigris, minutissimis, poro pertusis; sporulis ovoideis vel ellipticis, hyalinis, continuis, 5-6 \times 3.

Hab. in foliis *Pruni Padi*, Saintes Galliæ.

31. *Phyllosticta casinalbensis* D. Sacc. Malp. 1898, p. 224, Tab. VIII, 3175

fig. 13. — Maculis hypophyllis, minutis, 1-1,5 mm. diam., albidis, margine distincto, prominulo; peritheciis subcutaneis, raris, punctiformibus, globoso-depressis, 150 μ . diam., anguste pertusis, nigris; sporulis ellipsoideis, subolivaceis, 5-6 \times 3,5.

Hab. in foliis *Cratægi Azaroli*, Casinalbo, Modena (HADR. FIORI). — A *Phyll. cratægicola* Sacc. differt peritheciis majusculis, sporulis crassioribus et subolivaceis.

32. *Phyllosticta Cotoneastri* Allesch. Hedw. 1897, p. (158). — Ma- 3176

culis minutis, subcircularibus, centro arescendo-griseis, rufo-brunneo-cinctis, 2-3 mm. diam., sæpe confluentibus; peritheciis epiphyllis, densiuscule sparsis, erumpentibus, punctiformibus, nigro-fuscis; sporulis ovoideis v. oblongis, utrinque rotundatis, continuis, hyalinis, biguttulatis, circiter 4-6 \times 2-3.

Hab. in foliis vivis *Cotoneastri* spec. pr. Berolinum Germaniæ (SYDOW). — *Phyllostictæ pirince* Sacc. proxima.

33. *Phyllosticta cydoniæcola* Allesch. Hedw. 1897, p. (158). — Ma- 3177

culis magnis, amphigenis, irregularibus, nervulis limitatis, brunneis; peritheciis epiphyllis, innatis, prominulis, dein epidermidem findentibus et erumpentibus, numerosis, nigris; sporulis ovoideis v. oblongis, utrinque rotundatis, continuis, sæpe guttulatis, hyalinis, ca. $4-6 \times 2-3\frac{1}{2}$.

Hab. in foliis adhuc vivis *Cydoniæ japonicæ*, socio *Cladosporio* pr. Berolinum (SYDOW). — A *Phyllosticta Cydoniæ* (Desm.) Sacc. maculis præcipue quo sporulis certe diversa.

34. **Phyllosticta Ariæfoliæ** Allesch. Hedw. 1897, p. (157). — Maculis 3178 amphigenis, subcircularibus irregularibusve, fusco-brunneis, medio demum expallentibus, circiter 4-6 mm. diam.; peritheciis innatis, vix prominulis, fuscis; sporulis ovoideo-oblongis, utrinque obtusis, continuis, hyalinis, magnitudine varia, ca. $4-7 \times 1\frac{1}{2}-3\frac{1}{2}$; basidiis filiformibus, hyalinis, ca. 10-15 \times 1.

Hab. in foliis vivis *Spirææ ariæfoliæ* pr. Berolinum Germaniæ (SYDOW).

35. **Phyllosticta salicifolia** P. Brun. Sphærops. Char. 1889, p. 3. — 3179 Maculis rotundatis vel irregularibus, griseis, sæpe marginalibus, brunneo-cinctis; peritheciis sparsis, minutis, erumpentibus, nigris; sporulis ovoideis, continuis, hyalinis, 3-5 \times 2-2 $\frac{1}{2}$.

Hab. in foliis *Metrosideri salicifoliæ* cultæ, Rochefort Galliæ.

36. **Phyllosticta Qualeæ** Allesch. Hedw. 1897, p. 238. — Maculis 3180 epiphyllis, in pagina inferiore folii minus distinctis, ochraceis, nigro-cinctis, confluentibus, magnis et nigro-zonatis; peritheciis epiphyllis, gregariis, minutis, punctiformibus, globosis, epidermide tectis, dein erumpentibus, nigris; sporulis cylindraceis, continuis, plerumque biguttulatis, hyalinis, ca. 5-7 μ . long., 1 μ . crassis.

Hab. in foliis vivis *Qualeæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

37. **Phyllosticta Lafoënsiæ** Allesch. Hedw. 1897, p. 237. — Maculis 3181 minutis, 2-4 mm. latis, ochraceis, dein plus minus albicantibus, rufo-brunneis marginatis, subcircularibus vel oblongis, sæpe confluentibus, amphigenis; peritheciis plerumque epiphyllis, minutis, punctiformibus, nigris; sporulis perexiguis, continuis, hyalinis, 2-4 μ . long., 0,5-1 μ . crassis.

Hab. in foliis vivis *Lafoënsiæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

38. **Phyllosticta Chamænerii** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3182 p. 31. — Maculis amphigenis, minutis, irregularibus angulosisve, nervulis limitatis, pallide ochraceis, dein albicantibus, rubrocinctis,

sæpe confluentibus et folium totum occupantibus; peritheciis plerumque hypophyllis, rarius epiphyllis, minutissimis, dense gregariis, erumpentibus v. subsuperficialibus, fuscis; sporulis ovoideis v. oblongis, utrinque rotundatis, continuis, interdum biguttulatis, magnitudine valde varia, ca. $5-7 \times 2-2\frac{1}{2}$, rarius $12 \times 3-4$, ex hyalino fuscidulis; basidiis non visis.

Hab. in foliis adhuc vivis *Epilobii angustifolii* pr. München Bavariæ.

39. **Phyllosticta Pittospori** P. Brun. Sphærops. Char. 1889, p. 1. — 3183

Maculis subrotundatis vel angulosis, dilute brunneis, obscure marginatis; peritheciis minutis, numerosissimis, nigris, erumpentibus, poro pertusis; sporulis hyalinis, ovoideis, continuis, $4-6 \times 2\frac{1}{2}$.

Hab. in foliis *Pittospori Tobiræ*, Saintes Galliæ.

40. **Phyllosticta opaca** Ell. et Ev. Field Columb. Mus. IX, 1896, 3184

p. 106. — Maculis plerumque marginalibus irregularibusque, 1-2 cm. diam., sordide albicantibus, margine elevato subferrugineo limitatis; peritheciis æqualiter sparsis subepidermicis, sublenticularibus, nigris, 200 μ . diam.; sporulis ellipticis, hyalinis, $3 \times 1\frac{1}{2}$.

Hab. in foliis vivis *Ilicis opacæ*, W. Virginia Amer. bor.

(NUTTALL).

41. **Phyllosticta Celastris** Ell. et Ev. Field Columb. Mus. IX, 1896, 3185

p. 104. — Maculis plerumque marginalibus, $8\frac{1}{2}-10$ mm. diam., ferrugineis, definitis, anguste obscuro-marginatis; peritheciis epiphyllis, subapplanatis, 150 μ . diam.; sporulis oblongis, $7-10 \times 2-2\frac{1}{2}$, hyalinis, biguttulatis.

Hab. in foliis *Celastris scandentis* in W. Virginia Amer. bor. (NUTTALL).

42. **Phyllosticta Begoniæ** P. Brun. Sphærops. Char. 1889, p. 10. — 3186

Maculis rotundatis, majusculis, dilute olivaceis, centro pallescentibus; peritheciis sparsis, minutissimis, nigris; sporulis ovoideis, hyalinis, continuis, 5×3 .

Hab. in foliis *Begoniæ* spec., Pessines Galliæ.

43. **Phyllosticta Ellisii** Sacc. et Syd. *Phyllosticta Ribis* Ell. et Ev. 3187

Field. Columb. Mus. IX, 1896, p. 102. — Maculis magnis irregularibus, 5×1 cm., margine folii sæpe confluentibus, ferrugineis, albescentibus, plerumque zonatis, definitis, sed nullo margine colorato cinctis; peritheciis epiphyllis, sparsis, 150-200 μ . diam., apice prominulo, atro; sporulis oblongo-ellipticis, hyalinis, granulosi, nucleatis, $15-22 \times 6-9$.

Hab. in foliis vivis *Ribis* spec. in Virginia (NUTTALL). —

Differt a *Phyllosticta ribicola* Fr. et *Ph. Grossulariae* Sacc. sporulis multo majoribus.

44. *Phyllosticta Tristaniae* D. Sacc. Malp. 1898, p. 212, tab. VIII, 3188 fig. 12. — Maculis albidis, plus minusve suborbicularibus, rufomarginatis; peritheciis epiphyllis, punctiformibus, nigris, 110-140 μ . diam.; sporulis ovoideis, bi-guttulatis, 6-8 \times 3-3,5, hyalinis,

Hab. in foliis *Tristaniae* confertae in horto bot. Padovae.

45. *Phyllosticta extensa* Ell. et Ev. *Phyllosticta Eucalypti* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 285, nec Thüm. — Peritheciis amphigenis, sparsis, innato-erumpentibus, globosis, 100-120 μ . diam.; sporulis oblongis, 5-8 \times 1 $\frac{1}{2}$ -2 $\frac{1}{2}$.

Hab. in foliis emortuis *Eucalypti* in California.

46. *Phyllosticta eucalyptina* Pat. Cat. rais. pl. cell. Tunisie, 1897, 3190 p. 114. — Peritheciis epiphyllis, numerosis, minutis, obscure atris, immersis, globosis, contextu celluloso; maculis maximis, sordide fuscis, dein albicantibus, anguste purpureo-cinctis; sporulis ellipsoideis. intus granulosis, 18-20 \times 5-6, hyalinis, rectis, muco hyalino obvolutis.

Hab. in foliis languescentibus *Eucalypti* Globuli in Tunisia.

— Affinis *Ph. Eucalypti* Thüm.; sed differt sporulis majoribus.

47. *Phyllosticta ampla* P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 8. 3191 — Maculis irregularibus majusculis, brunneo-viridibus v. sordide griseo-viridibus; peritheciis amphigenis minutis, globosis, sparsis, erumpentibus; sporulis cylindraceutis utrinque rotundatis, hyalinis, 7-8 \times 2.

Hab. in foliis languescentibus *Aucubae japonicae*, Saintes Galliae.

48. *Phyllosticta globifera* Ell. et Ev. Field Columb. Mus. IX, 1896, 3192 p. 104. — Maculis marginalibus, pallide fuscis, continuis, ab apice foliorum prodeuntibus, $\frac{1}{2}$ -1 cm. latis, anguste purpureo-marginatis; peritheciis amphigenis, discoideis, nigris, 100-112 μ . diam.; sporulis globosis v. breviter ellipticis, hyalinis, granulosis, 6-8 \times 5-6.

Hab. in foliis vivis *Corni floridae* in W. Virginia Amer. bor. (NUTTALL).

49. *Phyllosticta Heraclei* E. et D. Proc. of the Canad. Inst. 1897, 3193 p. 91. — Maculis 1-2 cm. lat. initio rufe-brunneis, flavido-marginatis, vagis, denique confluentibus et partem folii majorem occupantibus atque pallidam et siccam reddentibus; peritheciis plerumque epiphyllis, nigricantibus, suberumpentibus, 110-125 μ . diam.; sporulis oblongis, continuis, hyalinis, 3,5 \times 1,2.

Hab. in foliis *Héraclei lanati*, London, Canada.

50. **Phyllosticta hedericola** Dur. et Mont.-Sacc. Syll. III, p. 20. — 3194
 Var. **Araliæ** P. Brun. Sphærops. Char. 1889, p. 3. — Sporulis oblongis, biguttulatis, hyalinis, 5-7 \times 2 $\frac{1}{2}$; maculis et peritheciis ut in typo.

Hab. in foliis *Araliæ Sieboldii*, Rochefort Galliæ.

51. **Phyllosticta Falcaria** P. Brun. Sphærops. Char. 1889, p. 11. — 3195
 Maculis variis, minutis, pallescentibus; peritheciis minutissimis, nigris, haud numerosis; sporulis oblongis, hyalinis, continuis, 5-6 \times 2 $\frac{1}{2}$.

Hab. in foliis *Falcaria Rivini*, Saintes Galliæ.

52. **Phyllosticta groenlandica** Allesch. in Allescher et P. Hennings, 3196
 Pilze aus dem Umanakdistrikt. 1897, p. 10. — Peritheciis epiphyllis, innato-erumpentibus, nigris; sporulis ovoideo-oblongis, utrinque rotundatis, continuis, plerumque biguttulatis, hyalinis, ca. 4-6 \times 1 $\frac{1}{2}$ -2 $\frac{1}{2}$.

Hab. in foliis emortuis *Saxifragæ stellaris* var. *comosæ*, *S. oppositifoliæ*, *S. aizoides* in Groenlandia (VANHÖFFEN).

53. **Phyllosticta Saxifragæ** P. Brun. Sphærops. Char. 1889, p. 3. — 3197
 Maculis rotundatis, arescendo albicantibus, brunneo-marginatis; peritheciis punctiformibus, sparsis, non numerosis, nigris; sporulis oblongis, hyalinis, continuis, 5-6 \times 2 $\frac{1}{2}$.

Hab. in foliis *Saxifragæ Gei* pr. Rochefort Galliæ.

54. **Phyllosticta Saxifragarum** Allesch. in Allescher et P. Hennings, 3198
 Pilze aus dem Umanakdistrikt. 1897, p. 10. — Peritheciis amphigenis, innatis, erumpentibus, minutis, nigris; sporulis cylindræis, utrinque obtusis, rectis, biguttulatis, hyalinis, ca. 6-8 \times 1-1 $\frac{1}{2}$.

Hab. in foliis emortuis *Saxifragæ aizoides* in Groenlandia (VANHÖFFEN).

55. **Phyllosticta saxifragicola** P. Brun. Act. Soc. Linn. Bordeaux 3199
 1890, p. 57 extr. — Maculis rotundatis, disciformibus, brunneis, marginatis; peritheciis non numerosis, brunneis, minutissimis; sporulis oblongis, hyalinis, 5 \times 2.

Hab. in foliis *Saxifragæ cordifoliæ*, Bordeaux in Gallia.

56. **Phyllosticta Heucheræ** P. Brun. Act. Soc. Linn. Bordeaux 1890, 3200
 p. 57 extr. — Maculis minutis, subrotundatis v. irregularibus, griseis v. griseo-albidis; peritheciis sparsis, globosis, punctiformibus, nigris; sporulis ovalibus, hyalinis, continuis, 5-7 \times 3.

Hab. in foliis *Heucheræ glabræ*, Bordeaux in Gallia.

57. **Phyllosticta cylindrica** Sacc. et Syd. *Phyllosticta Heucheræ* F'

et Ev. Amer. Natur. 1897, p. 428, nec Brun. — Maculis orbicularibus, $\frac{1}{2}$ -1 cm. diam.; peritheciis amphigenis hemisphæricis, suberumpentibus, apice late perforatis, 110 μ . diam.; sporulis numerosis, cylindræis, hyalinis, 5-6 \times 1-1 $\frac{1}{4}$.

Hab. in foliis Heucherae cylindricæ, Idaho Amer. bor. (HELLER).

58. **Phyllosticta Alliariefoliae** Allesch. Pilze Deutschl. VI, p. 109. 3202

Phyllosticta fallax Allesch. in Hedw. 1897, p. (159) nec Sacc. et Roum. — Maculis epiphyllis, magnis, subcircularibus angulosive, cinereis, obscure marginatis, 4-12 mm. diam.; peritheciis epiphyllis, lenticularibus, erumpentibus, atris; sporulis ovoideis v. oblongis, minutis, plerumque 1-guttulatis, continuis, hyalinis, ca. 4-6 \times 2-3.

Hab. in foliis vivis Campanulae alliariefoliae pr. Berolinum Germaniæ (SYDOW). — *Phyllosticta Campanulae* Sacc. et Speg. valde affinis.

59. **Phyllosticta carpathica** Allesch. Hedw. 1897, p. (157). — Ma- 3203

culis minutis, oblongis v. irregularibus, amphigenis, albicantibus, fusco-marginatis; peritheciis amphigenis, minutis, sparsis, nigris; sporulis oblongo-subcylindræis, utrinque obtusis, continuis, rectis, ca. 8-12 \times 2-2 $\frac{1}{2}$, hyalinis.

Hab. in foliis Campanulae carpathicae pr. Berolinum Germaniæ (SYDOW). — A *Phyllosticta Campanulae* Sacc. et Speg. hæc species sporulis subcylindræis, hyalinis, 8-12 \times 2, diversa est.

60. **Phyllosticta Scævolæ** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 3204

p. 436. — Maculis orbicularibus, dilute brunneis, 2-3 mm. diam.; peritheciis hypophyllis, innato-superficialibus, nigris, 60-80 μ . diam., supra perforatis; sporulis clavato-oblongis. 2-3-nucleatis, hyalinis, 10-12 \times 2 $\frac{1}{2}$ -3.

Hab. in foliis Scævolæ Chamissonianæ in ins. Sandwichens. (HELLER).

61. **Phyllosticta Lampsanæ** Syd. Hedw. 1897, p. (159). — Maculis 3205

epiphyllis, sparsis, irregularibus. sæpe confluentibus, parvis, parum concavis, albicantibus, purpureo-marginatis; peritheciis sparsis, immersis, punctiformibus, circiter 100-150 μ . diam.; sporulis ellipsoideis v. cylindræis, utrinque rotundatis, hyalinis, ca. 5-6 \times 2-2 $\frac{1}{2}$.

Hab. in foliis vivis Lampsanæ communis pr. Berolinum Germaniæ. — Pagina superior foliorum a fungo purpureæ tingitur.

62. **Phyllosticta Hieracii** Allesch. Hedw. 1897, p. (159) — Maculis 3206

subcircularibus v. irregularibus, sæpe confluentibus, concentricè

sulcatis, ochraceis, centro interdum expallentibus; peritheciis tectis, minutis, erumpentibus, inæqualibus, nigris; sporulis ovalibus v. ovoideis, utrinque rotundatis, sæpe inæquilateralibus vel leniter curvulis, rarius guttulatis, continuis, hyalinis, ca. $4-7 \approx 2-3$.

Hab. in foliis vivis v. languidis Hieracii pseudocerinthæ culti pr. Berolinum Germaniæ (SYDOW).

63. **Phyllosticta Scolymi** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 115. 3207

— Maculis amphigenis, cinereo-plumbeis, angulosis; peritheciis numerosissimis, atris, semiimmersis, globosis, $100-150 \mu$. latis, apice poro pertusis, contextu celluloso, chlorino-fuliginoso; sporulis hyalinis, simplicibus, rectis v. curvulis, $4-6 \approx 1-1\frac{1}{2}$, numerosissimis.

Hab. in foliis Scolymi hispanici in Tunisia.

64. **Phyllosticta Asteris** Bres. Hedw. 1897, p. (157). — Maculis am- 3208

phigenis, fusco-ochraceis, saturatius marginatis, suborbiculari-angulatis; peritheciis epiphyllis, globoso-obovatis, vertice pertuso prominulis, $100-120 \mu$. diam., contextu parenchymatico; sporulis oblongo-ovoideis, $6-7 \approx 2\frac{1}{2}-3$.

Hab. in foliis adhuc vivis Asteris sinensis, pr. Berolinum Germaniæ (SYDOW).

65. **Phyllosticta austriaca** Sacc. Malpighia XI, 1897, p. 305. — 3209

Maculis internerviis brunneis; peritheciis epiphyllis laxiuscule gregariis, punctiformibus, fulvo-fuscis, $90-100 \mu$. diam., poro pertusis; sporulis cylindræis, sæpe inæquilateralibus, $5-6 \approx 1$, hyalinis.

Hab. in foliis languidis Doronici austriaci, Riva-Valsesia, Italia (CARESTIA).

66. **Phyllosticta Bupthalmi** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3210

p. 16. — Maculis variis, sæpe confluentibus et folium totum occupantibus, expallentibus, primò late violaceo-cinctis, epiphyllis, subtus minus distinctis; peritheciis gregariis, minutissimis, innatis, prominulis, dein erumpentibus, fusco-nigris; sporulis perexiguis, hyalinis, $3-5 \approx 1-2$.

Hab. in foliis languidis Bupthalmi salicifolii, socia *Ramularia Bupthalmi* Allesch. in Bavaria superiore.

67. **Phyllosticta Eupatorii** Allesch. Ber. Bayr. Bot. Ges. V, 1897. 3211

p. 15. — Maculis minutis, amphigenis, suborbicularibus, fusco-cinereiscentibus, obscure purpureo-cinctis, sæpe confluentibus et folii partem magnam v. folium totum occupantibus; peritheciis minutis, epiphyllis, plus minusve immersis, sparsis, globosis, nigris; sporulis subcylindræis, utrinque rotundatis, continuis 2-guttulatis, hyalinis, $10-15 \approx 3-4$.

- Hab.* in foliis languidis *Eupatorii cannabini*, socia *Septoria Eupatorii* Rob. et Desm. in Bavaria superiore.
68. **Phyllosticta Farfaræ** Sacc.-Syll. III, p. 45. — var. **major** P. 3212
Brun. Sphærospid. Char. 1889, p. 11. — Sporulis oblongis, biguttulatis, $7-8 \approx 2\frac{1}{2}$.
- Hab.* in foliis *Tussilaginis Farfaræ*, Gallia.
69. **Phyllosticta Inulæ** Allesch. Hedw. 1897, p. (159). — Maculis circularibus, fuscis, dein medio albicantibus, fusco-marginatis; peritheciis epiphyllis, innatis, prominulis, poro pertusis, pallide brunneis; sporulis minutis, ovoideo-oblongis v. ovoideis, ca. $4-6 \approx 2-3$. 3213
- Hab.* in foliis vivis v. languescentibus *Inulæ britannicæ*, socia *Septoria Inulæ* Sacc. pr. Berolinum Germaniæ (SYDOW).
70. **Phyllosticta Rudbeckiæ** Ell. et Ev. Proc. Acad. Philad. 1895, p. 430. — Maculis subnigris, irregulariter ellipticis v. suborbicularibus, $\frac{1}{2}$ - $\frac{3}{4}$ cm. diam., definitis, centro pallidioribus; peritheciis epiphyllis, sparsis, nigris, minutis, hemisphærico-prominentibus; sporulis oblongo-cylindræis, hyalinis, rectis v. leniter curvulis, obtusis, $8-12 \approx 2-2\frac{1}{2}$. 3214
- Hab.* in foliis *Rudbeckiæ laciniatæ*, Wisconsin, Amer. bor. (DAVIS).
71. **Phyllosticta sphærospora** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 286. — Maculis suborbicularibus albis, 3-10 mm. diam., linea angusta brunnea leniter elevata cinctis; peritheciis epiphyllis hemisphæricis, prominulis, nigris, 100-120 μ . diam.; sporulis obovato-ellipticis, 13-16 \approx 6-7, brunneolis, in basidiis longiusculis (iis *Sphærospidum* similibus), 15 \approx 2 $\frac{1}{2}$, insertis. 3215
- Hab.* in foliis *Solidaginis confinis*, Pasadena Californiæ (Mc CLATCHIE).
72. **Phyllosticta Zinnæ** P. Brun. Sphærosp. Char. 1889, p. 10. — Maculis angulosis vel irregularibus, primo brunneis, dein dilute olivaceis, denique griseo-luteis, brunneo-marginatis; peritheciis punctiformibus, sparsis, nigris; sporulis ovalibus, hyalinis, continuis, $5 \approx 3$. 3216
- Hab.* in foliis languescentibus *Zinnæ elegantis*, Fessines Galliæ.
73. **Phyllosticta Limonilustri** Pat. Énum. Champ. Tunisie 1892, p. 16. 3217
— Peritheciis nigris, sparsis, numerosis, semiglobosis, dein depressis, basi matriçi adnatis, circiter 300 μ . latis; ostiolo minuto, integro, sporulis numerosissimis, minutis, ovoideis, hyalinis, simplicibus, $4-5 \approx 1-2$.

Hab. in gallis *Limoniastri monopetali*, Tunisia.

74. *Phyllosticta Armeriæ* Allesch. in Allescher et P. Hennings, Pilze 3218
aus dem Umanakdistrikt. 1897, p. 10. — Peritheciis epiphyllis,
sparsis, erumpentibus, punctiformibus, nigris; sporulis ovoideis v.
ovoideo-oblongis, sæpe subellipticis, utrinque obtusiusculis, conti-
nuis, 1-2-guttulatis, hyalinis, ca. $5-8 \times 2-3\frac{1}{2}$.

Hab. in foliis emortuis *Armeriæ vulgaris* var. *sibiricæ*,
sæpe-socia *Septoria Armeriæ* Allesch. in Groenlandia (VANHÖFFEN).

75. *Phyllosticta Lantanoidis* Peck-Sacc. Syll. X, p. 113. — forma 3219
santonensis P. Brun. Act. Soc. Linn. Bordeaux 1888, p. 13 extr.
— Maculis majoribus, rotundatis v. irregularibus, griseis, brun-
neo-marginatis; peritheciis minutis, nigris, erumpentibus, perfora-
tis; sporulis oblongis, hyalinis, continuis, grosse 2-guttulatis,
10-12 \times 4.

Hab. in foliis vivis *Viburni Lantanae*, Saintes in Gallia.

76. *Phyllosticta coffeicola* Speg. Rev. Agr. y Veter. La Plata 1896, 3220
p. 345. — Maculis orbicularibus, majusculis, arescenti-albidis; pe-
ritheciis epiphyllis, parenchymate immersis, lenticularibus, 180-
200 μ . diam., atris, glabris, ostiolatis, contextu parum distincto;
sporulis cylindræcis, utrinque obtusiusculis atque minute 1-guttu-
latis, continuis, hyalinis.

Hab. in foliis vivis v. languidis *Coffeæ arabicæ*, Costa-
Rica.

77. *Phyllosticta Cunninghamsi* Allesch. Hedw. 1897, p. (158). — Ma- 3221
culis nullis; peritheciis epiphyllis, per totam paginam foliorum
superiorem gregarie sparsis, punctiformibus, epidermide dein rupta
tectis subglobosis, sæpe confluentibus, nigris; sporulis minutissi-
mis, unicellularibus, circiter $2-3 \times 1$, hyalinis.

Hab. in foliis *Rhododendri Cunninghamsi* pr. Beroli-
num Germaniæ (SYDOW). — *Ph. Saccardoi* Thüm. affinis, sed ma-
culis nullis differt.

78. *Phyllosticta Ericæ* Allesch. Hedw. 1897, p. (158). — Peritheciis 3222
plerumque hypophyllis, interdum etiam epiphyllis, epidermide te-
ctis, dein erumpentibus, globoso-depressis, nigricantibus, in-
foliis emortuis rubro-brunneo-coloratis; sporulis ovoideis v. ovoideo-ob-
longis, utrinque rotundatis, continuis, hyalinis, ca. $4-7 \times 2-4$.

Hab. in foliis emortuis *Ericæ carneæ* pr. Berolinum Ger-
maniæ (SYDOW).

79. *Phyllosticta Oxydendri* Ell. et Ev. Field Columb. Mus. IX, 1896, 3223
p. 104. — Maculis suborbicularibus v. ellipticis rubescenti-griseis,

demum sordide albicantibus, 3-8 mm. diam., margine angusto subelevato rufo limitatis; peritheciis epiphyllis subapplanatis, 100-120 μ . diam.; sporulis oblongo-ellipticis binucleatis, hyalinis, 7-8 \times 2 $\frac{1}{2}$ -3.

Hab. in foliis vivis *Oxydendri* arborei, W. Virginia Amer. bor. (NUTTALL).

80. **Phyllosticta amicta** Ell. et Ev. Proc. Acad. Philad. 1895, p. 430. 3224

— Maculis cinereis, anguste rubro-purpureo-marginatis, orbicularibus, 3-4 mm. diam.; peritheciis amphigenis, erumpentibus, depresso-globosis, 120-200 μ diam.; sporulis ovatis v. ellipticis, 7-10 \times 5-6, dilute stramineis.

Hab. in foliis *Arctostaphyli* viscidæ et *A. Manzanitæ*, California (HANSEN).

81. **Phyllosticta fimbriata** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 286. 3225

— Maculis amphigenis inferne ferrugineis, superne cinereis ac purpuree marginatis, subelevatis, forma irregularibus, 2-6 mm. diam.; peritheciis epiphyllis, non numerosis, griseis, 200-300 μ . diam., hemisphærico-prominulis, circa basim hyphis erectis simplicibus dense septatis, 50-75 \times 5, fimbriatis; sporulis variis, oblongis (3-5 \times 1 $\frac{1}{2}$), ellipticis (4-6 \times 2-3) vel etiam globosis (5-6 μ).

Hab. in foliis *Arbuti Menziesii*, Oregon Amer. bor. (DAVIS).

82. **Phyllosticta Vaccinii** Earle, Bull. Torr. Bot. Cl. 1897, p. 31. — 3226

Maculis epiphyllis, brunneis, irregularibus, indeterminatis, 1 cm. vel ultra diam.; peritheciis sparsis, erumpentibus, ostiolo 8-10 μ . lato perforatis, magnitudine variis, 80-120 μ .; sporulis magnis, plerumque ovatis, finem latiore versus nucleo magno 4 μ . diam. sphærico præditis, 12 \times 6.

Hab. in foliis vivis *Vaccinii* arborei pr. Auburn, Alabama Amer. bor. (UNDERWOOD).

83. **Phyllosticta Pyrolæ** (Ehrenb.?) Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 15;? *Sphaeria Pyrolæ* Ehrenb., Sylvæ mycol. Berol. p. 29. 3227

— Maculis circularibus, sæpe confluentibus, purpureo-brunneis, demum margine nigricante cinctis, minutis, 3-4 mm. diam.; peritheciis epiphyllis, gregariis, hemisphæricis, epidermide tectis, dein erumpentibus, atris, nitidis, interdum fere confluentibus; sporulis perexiguis, unicellularibus, hyalinis, ca. 3-4 μ . longis.

Hab. in foliis adhuc vivis *Pyrolæ rotundifoliæ* in Bavaria super. (SCHNABL). — Sec. cl. Allescher, Pilze Deutschl. VI, p. 139, non diversa a *Ph. Pirolæ* Ell. et Ev.

84. **Phyllosticta Strychni** Allesch. in P. Henn. Pilz. Ostaf. p. 35. 3228
— Maculis amphigenis, subcircularibus, pallidis v. pallido-ochraceis, atro-marginatis; peritheciis punctiformibus, pertusis, nigris; sporulis ovoideis oblongisve, minutissimis, continuis, eguttulatis, hyalinis, 3-5 \times 1-2.

Hab. in foliis Strychni Stuhlmanni in Africa tropicali (STUHLMANN).

85. **Phyllosticta osteospora** Sacc. Syll. III, p. 34 — var. **samaricola** 3229
Sacc. Malpighia XI, 1897, p. 67. — Peritheciis 100-110 μ . diam., pertusis; sporulis 4-6 \times 0,7-1, hyalinis.

Hab. in samaris Fraxini excelsioris in Italia bor.

86. **Phyllosticta Lysimachiae** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3230
p. 31. — Maculis amphigenis, irregularibus, nervulis limitatis, viridi-cinereis, dein pallide ochraceis, confluentibus; peritheciis hypophyllis, numerosissimis, gregariis, erumpentibus, poro late pertusis, nigris; sporulis bacillaribus oblongisve, minutissimis, plerumque rectis, utrinque obtusis v. truncatis, continuis, hyalinis, 3-5 \times 0,5-1.

Hab. in foliis languescentibus Lysimachiae vulgaris, Bavaria merid.

87. **Phyllosticta Chrysophylli** Syd. in Mycotheca Marchica n. 2079 3231
(sub *Septoria*). — Maculis in longitudine latitudineque permagnis, 5-10 cm. latis longisque, indeterminatis nullaque linea cinctis, sed sensim in partem folii a fungo non occupatam transeuntibus, griseis; peritheciis tantum epiphyllis, diu ab epidermide tectis, tandem erumpentibus ac prominulis, per totam maculam sparsis v. hinc inde laxiuscule gregariis, subglobosis v. globoso-lenticularibus, 150-200 μ . diam., interdum minoribus, pertusis; sporulis rectis, hyalinis, plerumque obtusis sed nonnullis acutiusculis, 8-10 \times 1 $\frac{1}{2}$.

Hab. in foliis Chrysophylli imperialis in horto botanico Berolinensi Germaniæ.

88. **Phyllosticta Cobææ** F. Tassi Bull. del Lab. Bot. d. R. Univ. 3232
Siena 1898, fasc. I, p. 7, tab. IX, fig. 4. — Maculis variis, centro albicantibus; peritheciis paucis, lenticularibus, erumpenti-superficialibus, circiter $\frac{1}{2}$ mm. diam., nigris, pertusis, contextu celluloso, olivaceo-fusco; sporulis 4-6 $\frac{1}{2}$ \times 2 $\frac{1}{2}$ -3, oblongis, lateribus sæpe inæqualibus, eguttulatis, hyalinis.

Hab. in foliis vivis gelu tactis Cobææ scandentis in horto bot. Senensi, Italia.

89. **Phyllosticta Pentastemonis** Uke. — Syll. X, p. 130. — f. **Penta-** 3233

stemonis azurei Allesch. Pilze Deutschl. VI, p. 135 (syn. var. **major** Allesch. in Hedw. 1897, p. (159). — Sporulis ovoideo-oblongis v. oblongis, utrinque rotundatis, biguttulatis, hyalinis, ca. $7-10 \times 2\frac{1}{2}-3$.

Hab. in foliis *Pentastemonis azurei* pr. Berolinum Germaniæ. — f. **Pentastemonis hybridi** Allesch. l. c. — Sporulis ovoideo-oblongis v. oblongis, sæpe etiam subellipticis; utrinque rotundatis, raro biguttulatis, $5-10 \times 3-3\frac{1}{2}$. In foliis *Pentastemonis hybridi* pr. Freising Baviariæ.

90. **Phyllosticta Decussatæ** Syd. Myc. March. n 4680, Jan. 1897, 3234 Hedw. 1897, p. (158). — Maculis amphigenis, sparsis, irregulariter circularibus 2-10 mm. diam., pallide flavis, late purpureo-marginatis; peritheciis epiphyllis, sparsis, punctiformibus, atro-fuscis; sporulis ellipticis, hyalinis, eguttulatis, $4-5 \times 1\frac{1}{2}-2$.

Hab. in foliis vivis v. languidis *Phlogis decussatæ* cultæ pr. Berolinum Germaniæ.

91. **Phyllosticta Phlogis** Vestergr. Oefv. K. Vet.-Akad. Förh. Jan. 1897, n. 1, p. 37. — Maculis amphigenis, exarescentibus, sordide albidis, brunneo-cinctis, sæpe marginalibus, plus minusve rotundatis, 5-10 mm. diam.; peritheciis erumpentibus, epiphyllis, sparsis, sphaeroideis, minutis, 60-100 μ . diam., membranaceis, papillatis, nigris, contextu distincte parenchymatico, fuligineo; sporulis 4-6 \times 3, cylindræo-ovoideis, interdum ellipsoideis, utrinque rotundatis, sæpe biguttulatis, continuis, hyalinis; basidiis-obscuris.

Hab. in foliis vivis *Phlogis Drummondii* cultæ in horto bot. Upsaliensi, Sueciæ. — An diversa a præcedente?

92. **Phyllosticta euphorbiæcola** P. Brun. Sphaerops. Char. 1889, p. 12. 3236 — Maculis plus minusve rotundatis, brunneis, margine obscuriore; peritheciis amphigenis, numerosis, minutis, globosis, nigris, subnitentibus; sporulis ovoideo-oblongis, hyalinis, continuis, $5-6 \times 3$.

Hab. in foliis *Euphorbiæ amygdaloidis*, Fouras Galliæ.

93. **Phyllosticta Aristolochiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 11, tab. CLXVII, fig. 5. — Maculis epiphyllis, irregularibus, plerumque angulato-rotundatis, sordide dealbatis, linea tenue brunnea cinctis; peritheciis exiguis, lenticularibus, velatis, dense sparsis, 50-60 μ . diam.; sporulis ovatis v. ellipticis, utrinque rotundatis, hyalinis, $4-5 \times 2$.

Hab. in foliis vivis *Aristolochiæ sempervirentis* in horto botanico Senensi Italiæ et *A. Siphonis* cultæ pr. Berolinum Germaniæ (Sydow).

94. **Phyllosticta straminella** Bres. Hedw. 1896, p. 199. — Epiphylla; maculis subcircularibus vel polygonalibus, isabellinis, fusco-marginatis; peritheciis lenticularibus, vix prominulis, stramineis, 100-160 μ . diam.; sporulis subcylindraceis vel ad latera compressis, curvulis, 12-20 \times 6-8.

Hab. in foliis Rumicis Acetosæ pr. Königstein Saxoniae (KRIEGER).

95. **Phyllosticta melanogena** Sacc. Malpighia 1896, p. 271, tab. V, fig. 5. — Maculis orbiculari-angulosis, crebris, amphigenis, aterrimis, convexis, infra concavis; peritheciis dense gregariis, epiphyllis, nigris, orbicularibus, pertusis, 80-90 μ . diam., contextu fuligineo; sporulis cylindraceis, rectis, utrinque rotundatis et levissime incrassatis, 4-5 \times 0,7, 2-guttulatis, hyalinis.

Hab. in foliis subvivi Polygonaceæ cujusdam in Sibiria.

96. **Phyllosticta Ambrosioidis** Thüm.-Sacc. Syll. III, p. 55 — forma **santonensis** P. Brun. Act. Soc. Linn. Bordeaux 1888, p. 15 extr. — Maculis sinuosis v. angulosis, albidis, minutis, tenuissime brunneo-marginatis; peritheciis epiphyllis, sparsis, brunneo-nigris; sporulis ovoideis, continuis, hyalinis, 5 \times 2 1/2.

Hab. in foliis Chenopodii ambrosioidis in Gallia.

97. **Phyllosticta ficicola** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 115. — Maculis amphigenis, 1-5 mm. latis, rarius 10 mm., orbicularibus, candidis, zona fusca cinctis; peritheciis paucis, atris, globosis, 120 μ . diam., apice poro pertusis, contextu coriaccello, fuligineo-celluloso; sporulis numerosissimis, cylindraceo-ovatis, lateraliter compressis, hyalinis, 2-guttulatis, 8-10 \times 5.

Hab. in foliis languescentibus Fici Caricæ in Tunisia.

98. **Phyllosticta Wislizeni** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 285. — Epiphylla; maculis sordide brunneis subindefinitis, sæpe marginem vel apicem foliorum occupantibus subconfluentibusque; peritheciis initio epidermide atrata pustulato-elevata tectis, demum eam varie disruptentibus, 250-300 μ . diam., globosis v. oblongis; sporulis oblongo-ellipticis, hyalinis, 10-12 \times 5-6.

Hab. in foliis vivis Quercus Wislizeni in California (HANSEN).

99. **Phyllosticta livida** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 285. — Maculis magnis, 1 cm. diam., subindefinitis, inferne brunneis, superne livido-brunneis; peritheciis amphigenis numerosis; epidermide livida tectis eamque in pustulas minutas tandem ruptas elevantibus; sporulis minutis, 3 \times 1, numerosis, hyalinis.

Hab. in foliis *Quercus Douglasii*, California (HANSEN).

100. **Phyllosticta castanicola** Ell. et Ev. Proc. Acad. Philad. 1895, 3244 p. 431. — Maculis epiphyllis, obscure brunneis, suborbicularibus, 2-5 mm. diam., vix conspicuis, margine angusto, obscuro, subfimbriato; peritheciis confertis, innatis, duris, orbicularibus v. ellipticis, 80-100 μ . diam., interdum 2-3 confluentibus, apice erumpentibus et late perforatis; sporulis numerosis, minutis, oblongis, 3-3 $\frac{1}{4}$ \times 1 $\frac{1}{4}$ -1 $\frac{1}{2}$, hyalinis.

Hab. in foliis *Castaneæ chrysophyllæ*, California (Howe).

— Verisimiler spermogonium *Phyllachoræ* cujusdam.

101. **Phyllosticta Alni-glutinosa** Syd. Hedw. 1897, p. (157). — Maculis 3245 sparsis, irregulariter orbicularibus, ca. 0,5-1 cm. diam., flavo-brunneis, linea fusca cinctis; peritheciis numerosis, minutissimis, atris; sporulis ellipticis, utrinque rotundatis, 4-6 \times $\frac{1}{2}$ -2, hyalinis.

Hab. in foliis adhuc vivis *Alni glutinosæ* pr. Berolinum Germaniæ.

102. **Phyllosticta Dammaræ** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 3246 1897, p. 6 extr. tab. VII, fig. 6, 7, 10. — Maculis ellipsoideis, irregularibus, ochraceis, linea obscuriore limitatis; peritheciis sparsis, 200-220 μ . diam., ostiolo impresso pertusis, contextu stromatico carbonaceo; sporulis hyalinis, ellipsoideis v. elliptico-cylindræis, 4,5-5 \times 2,25.

Hab. in foliis vivis *Dammaræ Moorii* in horto bot. Ticinensi Ital. bor.

108. **Phyllosticta Cocoës** Allesch. Hedw. 1897, p. 237. — Maculis 3247 minutis, amphigenis, oblongis, albidis, zona obscura cinctis; peritheciis gregariis, tectis, erumpentibus, nigris; sporulis ovatis v. ovoideis, utrinque rotundatis, hyalinis, biguttulatis, ca. 8-10 \times 4-8.

Hab. in foliis *Cocoës* spec. pr. Goyaz Brasiliæ (GLAZIOU).

104. **Phyllosticta Chamæropis** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 3248 1896, p. 10 extr. tab. III, fig. 12. — Maculis oblongis, fusco-marginatis; peritheciis gregariis, lenticularibus; sporulis minutissimis, ovoideo-globosis, 4,5 \times 2,5.

Hab. in foliis vivis *Chamæropis* in horto bot. Genuæ Ital. bor.

105. **Phyllosticta Potamogetonis** E. Rostr. Bot. Tidsskr. 1897, p. 48. 3249 — Maculis epiphyllis latis, irregularibus, brunneis, dein cinereis, fusco-marginatis; peritheciis sparsis minutis, epidermide velatis; sporulis oblongatis, 6 \times 2.

Hab. in foliis fluitantibus *Potamogetonis polygonifolii* in Jütlandia.

106. *Phyllosticta Amaryllidis* Bres. Hedw. 1896, p. 55. — Peritheciis densissime gregariis, amphigenis, minimis, nigris, obovatis, maculas nigras parvas vel confluenti-elongatas efficientibus, 70-96 μ . diam.; sporulis cylindræis, sæpe ad latera utrinque compressis, apicibus convexis, biguttulatis, $4 \times 1 \frac{1}{2}$. 3250
- Hab.* in foliis languidis *Amaryllidis* spec. Itatiaia Brasiliæ mer. (ULE). — Habitu *Phyllostictæ melanoplacæ* Thüm., cui forte nimis affinis et a qua sporulis non truncatis præcipue differt.
107. *Phyllosticta caulicola* Pat. Bull. Soc. Mycol. de France 1897, p. 213. — Maculis cauliculis, late ellipticis, sparsis v. confluentibus, 8-20 mm. longis, 6-8 mm. latis, brunneis v. fulvis, nigro-marginatis; peritheciis numerosis, sparsis, globosis, 250-300 μ . diam., subepidermicis, dein ostiolo magno erumpentibus; sporulis numerosis, hyalinis, ovoideis, utrinque obtusis, 15-20 \times 7-8. 3251
- Hab.* in caulibus vivis *Asphodeli microcarpi* in Algeria.
108. *Phyllosticta chilensis* Allesch. Hedw. 1897, p. 238. — Maculis obsoletis; peritheciis amphigenis, sparsis, rarius gregariis, innatis, globosis, atris, nitidis; sporulis minutissimis, oblongis, rectis v. curvatis, plerumque biguttulatis, continuis, hyalinis, 3-5 \times 1. 3252
- Hab.* in foliis *Sisyrinchii pedunculati* pr. Concepcion in Chile (NEGER).
109. *Phyllosticta Trillii* Ell. et Ev. Proc. Acad. Philad. 1895, p. 430. — Maculis minutis, 2-3 mm., rotundis, sordide brunneis, centro griseis, margine obscuriore, luteolo-limitatis; peritheciis innatis, epiphyllis, globosis, circiter 75 μ . diam.; sporulis oblongis, hyalinis, continuis, 10-14 \times 2-2 $\frac{1}{2}$. 3253
- Hab.* in foliis *Trillii* petiolati, socio *Cladosporio Trillii*, Washington, Amer. bor. (PIPER).
110. *Phyllosticta arisaricola* Sacc. et Syd. *Phyllosticta Arisari* Pat. Bull. Soc. Myc. de Fr. 1897, p. 212, nec Bres. — Maculis amphigenis, orbicularibus, aridis, albis, fulvo-marginatis; peritheciis punctiformibus, numerosis globosis, poro pertusis, brunneis, 200 μ . d.; sporulis hyalinis, ovoideis, levibus, 8-10 \times 2-3. 3254
- Hab.* in foliis *Arisari vulgaris* in Tunisia.
111. *Phyllosticta nigro-maculans* Sacc. Bull. Soc. Roy. Bot. Belg. XXXV, 1896, p. 129, tab. IV, fig. 5. — Peritheciis hinc inde dense aggregatis maculasque amphigenas orbiculari-ovatas, atras (mycelii quoque ope) formantibus, globoso-lenticularibus, prominulis, 100-200 μ . diam., dein inæqualiter dehiscentibus; sporulis cylindræis, curvatis, utrinque rotundatis (allantoideis), 5-6 \times 1, hyalinis. 3255 3256

Hab. in foliis Orchidearum epiphytarum in Brasilia.

112. **Phyllosticta Stanhopeæ** Allesch. Hedw. 1895, p. 215. — Ma- 3257
culis nullis; peritheciis in parte emortua expallida foliorum, epidermide tectis, dein erumpentibus, punctiformibus, conicis, nigris; sporulis minutissimis, continuis, eguttulatis, hyalinis, oscillantibus; 3-4 \times 1-1 $\frac{1}{2}$.

Hab. in foliis Stanhopeæ in calidariis, München Baviaræ.

113. **Phyllosticta dioscoreæcola** P. Brun. Sphærops. Char. 1889, 3258
p. 12. — Maculis irregularibus, majusculis, brunneo-rubris, centro arescendo brunneis; peritheciis minutis, nigris, erumpentibus; sporulis ovoideis, hyalinis, continuis, 3-5 \times 2-2 $\frac{1}{2}$.

Hab. in foliis Dioscoreæ Batata, Rochefort Gallie.

114. **Phyllosticta Draconis** Berk., Syll. III, p. 60 (nomen); Hedw. 3259
1896, p. 47. — Peritheciis innato-prominulis, sphæroideis, atris, pertusis, punctiformibus, in macula expallente; sporulis cylindraceutis, utrinque obtusis, medio leviter constrictis, guttulatis, hyalinis, usque ad 20-30 μ .; sporophoris filiformibus, usque ad 25 \times 1,5.

Hab. in foliis languidis Dracænæ Draconis in regione Helsingforsiens. Fennicæ (KARSTEN).

115. **Phyllosticta hispida** E. et D. Proc. of the Canad. Inst. 1897, 3260
p. 91. — Peritheciis gregariis, innatis, globosis, poro lato apertis, minutis, 75-80 μ . diam., utrinque visibilibus, sed in hypophyllo magis conspicuis et prominulis; sporulis oblongo-cylindraceutis, obtusis, 3-4 \times 1,5.

Hab. in foliis Smilacis hispide, London, Canada. — Folia hinc inde atrata, sed non definite maculata.

116. **Phyllosticta Sacchari** Speg. Rev. Agr. y Veter. La Plata, 1896, 3261
p. 239. — Maculis amphigenis, linearibus, majusculis, 1-25 cm. longis, 1-10 mm. latis, arescenti-albis, determinatis, margine lineæ stricta purpurascente limitatis; peritheciis sæpius epiphyllis, laxè in maculis gregariis, parenchymate immersis, e globoso lenticularibus, parvulis, 90-100 μ . diam., ostiolo vix papillato donatis, atris, membranaceis, contextu parenchymatico fuligineo; sporulis ellipsoideis, minutis, 4-6 \times 2-3 hyalinis, levibus, eguttulatis.

Hab. ad folia viva v. languida Sacchari officinarum, prov. Tucuman, Argentinæ.

117. **Phyllosticta Selaginellæ** Sacc. Malpighia XI, 1897, p. 304. — 3262
Maculis indeterminatis, pallidis v. rubentibus; peritheciis amphigenis, punctiformibus, nigris, lenticularibus, subcutaneo-prominulis, pertusis; sporulis oblongis, subinde curvulis, 4 \times 1 $\frac{1}{2}$, hyalinis.

Hab. in foliis languidis *Selaginellæ helveticæ* in Italia bor. (CARESTIA).

118. **Phyllosticta lichenicola** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3263 p. 32. — Maculis exacte orbicularibus, pallidis, annulo fusco-brunneo, sublato cinctis, ca. 2 mm. diam.; peritheciis perexiguis, innato-erumpentibus, globosis, nigris, gregariis; sporulis minutissimis, obliquis, biguttulatis, hyalinis, oscillantibus, 2-4 μ . longis, 0,5-1 $\frac{1}{2}$ μ . crassis.
- Hab.* in pagina superiore thalli *Parmeliæ perlatae* pr. München Baviariæ.
119. **Phyllosticta gallicola** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3264 p. 285. — Peritheciis numerosis amphigenis, globosis, circiter 210 μ . diam., mycelio brunneo fimbriatis, apice excepto immersis, late perforatis; sporulis ellipticis, fumoso-hyalinis, 6-15 \times 6-8.
- Hab.* parasitica in *Rhytismate Solidaginis*, quod revera nil est nisi galla fungina, Colorado Amer. bor.
120. **Phyllosticta sclerotialis** Cocc. Mem. Accad. Bol. 1896, p. 150, 3265 fig. 1. — Peritheciis tandem superficialibus, globoso-depressis, 82-96 μ . diam., ostiolo rotundo subpapillato; sporulis ovoideo-ellipsoideis, hyalinis v. dilute flavescensibus, 6-7,5 μ . longis, 2-guttulatis.
- Hab.* parasitice in *Sclerotio Clavo* ad gramina, Ital. bor.
121. **Phyllosticta anemonicola** Sacc. et Syd. Sic nominanda est *Phyllosticta Anemones* Ell. et Ev. Sacc. Syll. XI, p. 476, quum exstet anterior *Ph. Anemones* Brun. (1889). 3266
122. **Phyllosticta Starbæckii** Sacc. et Syd. Sic dicenda est *Phyllosticta Corni* (Schw.) Starb. in Syll. XI, p. 473, quum exstet anterior *Ph. Corni* Westd. in Syll. III, p. 21.
123. **Phyllosticta apiculata** Sacc. et Syd. Sic dicenda est *Phyllosticta marginalis* Ell. et Ev. in Syll. X, p. 118, quum exstet anterior *Ph. marginalis* Penz. in Syll. III, p. 12.
124. **Phyllosticta Everhartii** Sacc. et Syd. Sic dicenda est *Phyllosticta Araliæ* Ell. et Ev. in Syll. XI, p. 478, quum exstet anterior *Ph. Araliæ* Sacc. et Berl. in Syll. X, p. 105.
125. **Phyllosticta humulina** Sacc. et Syd. in Allesch. Pilze Deutschl. VI, p. 347. Sic dicenda est *Phyllosticta japonica* Fautr. in Syll. X, p. 133., quum exstet anterior *Ph. japonica* Thüm. in Syll. III, p. 25.
126. **Phyllosticta Lentaginis** Sacc. et Syd. Sic dicenda est *Phyllosticta Viburni* Ell. et Dearn. in Syll. XI, p. 474, quum exstet anterior *Ph. Viburni* Pass. in Syll. X, p. 113.

PHOMA Fr. em. Desm. — Syll. III, p. 65, X, p. 138, XI, p. 482.

1. **Phoma Clematidis-ternifloræ** Allesch. Hedw. 1897, p. (160). — Peritheciis sparsis, epidermide tectis, punctiformibus, poro pertusis, contextu indistincte parenchymatico, atrofuscis, 40-50 μ . diam.; sporulis ovoideis v. oblongis, utrinque rotundatis, unicellularibus, eguttulatis, hyalinis, 5-8 \times 2 $\frac{1}{2}$ -4. 3267

Hab. in caulibus emortuis Clematidis ternifloræ, socio *Cladosporio herbarum* pr. Berolinum Germaniæ (SYDOW).

2. **Phoma Clematidis** Sacc. Syll. III, p. 118. — forma **santonensis** 3238
P. Brun. Bull. Soc. Sc. Nat. Nantes IV, 1894, p. 34. — Sporulis fusiformibus v. subfusiformibus hyalinis, rectis, 2-guttulatis, 10-15 \times 3-3 $\frac{1}{2}$.

Hab. in ramis emortuis Clematidis Vitalbæ, Saintes in Gallia.

3. **Phoma Pæoniæ** Allesch. Hedw. 1896, p. (33). — Peritheciis gregaris v. sparsis, epidermide nigrificata tectis, depresso-globosis, minute papillatis, poro pertusis, contextu parenchymatico, atrobrunneis, 80-100 μ . diam.; sporulis ovoideis v. oblongis, utrinque rotundatis, continuis, eguttulatis, hyalinis, 5-8 \times 3-4; basidiis filiformibus, hyalinis, 30-40 \times 1-1 $\frac{1}{2}$. 3269

Hab. in caulibus emortuis Pæoniæ herbacææ, socia *Leptostromella hysterioidi*, pr. Berolinum Germaniæ (SYDOW).

4. **Phoma sphæronæmoides** Fautr. Rev. Mycol. 1895; 1. 169. — Peritheciis majusculis, tectis, collo plus minusve longo emergentibus et *Sphæronæmatis* speciem simulantibus; sporulis cylindræcis, guttulatis, 10-12 \times 2. 3270

Hab. in caulibus siccis Chelidonii majoris in Gallia.

5. **Phoma Nandinæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 1896, (Microm. III, p. 4). et Rev. Mycol. 1896, p. 161, tab. CLXVIII, fig. 9. — Peritheciis epidermide velatis, atris, globulosis, sparsis v. subseriatis, $\frac{1}{5}$ - $\frac{1}{3}$ mm. diam.; sporulis oblongis; 5-8 \times 2-3, utrinque acutiusculis, 2-3-4-guttulatis, hyalinis, basidiis filiformibus fultis. 3271

Hab. in ramulis corticatis Nandinæ domesticæ in horto botanico Senensi Italiæ. — Peritheciis hujus *Phomæ* miscentur frequenter perithecia *Camarosporii Nandinæ* F. Tassi.

6. **Phoma berberidicola** Vestergr. Oefv. Vet.-Akad. Förh. 1897, n. I, p. 38. — Peritheciis dense sparsis, punctiformibus, sphæroideis, 90-150 μ . diam., epidermide velatis, mox erumpenti-subsuperficialibus, ostiolo papilliformi coronatis, membranaceis, nigris, textura 3272

atro-fusca, distincte parenchymatica; mycelio ex hyphis sub epidermide vage repentibus, castaneo-brunneis, dense septatis, ca. 6 μ . latis, valde ramosis, anastomosantibus composito; sporulis 5-7 \times 3-4, ovoideis v. subellipsoideis, utrinque rotundatis, continuis, eguttulatis, hyalinis; basidiis non manifestis.

Hab. in ramulis vivis Berberidis vulgaris pr. Upsaliam Sueciæ. — A *Ph. empetrifoliæ* Brun., cui quam maxime affinis, sporulis latioribus etc. diversa.

7. **Phoma berberidolia** Sacc. et Syd. *Phoma berberidicola* P. Brun. 3273
Act. Soc. Linn. Bordeaux 1898, p. 12 extr. nec Vesterg. — Peritheciis punctiformibus in ligno nidulantibus, sparsis, nigris, parte stromatica brunnea insidentibus, locis ligni decorticatis erumpentibus v. superficialibus; sporulis ovoideis hyalinis, 2 $\frac{1}{2}$ -3 \times 1 $\frac{1}{2}$

Hab. in ramulis Berberidis vulgaris, Saintes Galliæ.

8. **Phoma Aquifolii** P. Brun. Act. Soc. Linn. Bordeaux 1890, p. 57 3274
extr. — Sporulis oblongis, continuis, hyalinis, 6-7 \times 2.

Hab. in ramis emortuis Mahoniæ Aquifolii in Gallia. — Spermogonium *Diaporthis Mahoniæ* Speg.

9. **Phoma Armoraciæ** Allesch. Hedw. 1897, p. (160). — Peritheciis 3275
oblongis, epidermide tectis, sparsis, poro pertusis, contextu indistincte parenchymatico, fusco-nigris, 120-130 \times 60-70; sporulis numerosissimis, oblongis, utrinque rotundatis, continuis, hyalinis, plerumque biguttulatis, ca. 4-7 \times 2-3; basidiis non visis.

Hab. in caulibus emortuis Cochleariæ Armoraciæ, socia *Vermicularia herbarum* West. f. *Armoraciæ* Allesch. pr. Berolinum Germaniæ.

10. **Phoma Arabidis-alpinæ** Allesch. Hedw. 1895, p. 259. — Peritheciis 3276
mediocribus, parenchymaticis, epidermide tectis, dein erumpentibus, papillatis; sporulis oblongis v. cylindraceutis, utrinque obtusis, rectis, biguttulatis, hyalinis, ca. 6-9 \times 2-2 $\frac{1}{2}$.

Hab. in caulibus emortuis Arabidis alpinæ in Bavaria australi. — *Phomæ oleraceæ* valde affinis, sed sporulis majoribus ab ea diversa.

11. **Phoma Thaliana** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 12. 3277
— Peritheciis sparsis v. globosis, nigris, erumpentibus; sporulis oblongis hyalinis, continuis, eguttulatis, 5 \times 2.

Hab. in siliquis exsiccatis Arabidis Thalianæ, Saintes Galliæ.

12. **Phoma Siliquastrum** Desm. Syll. III, p. 154. — Var. **Arabi-** 3278
dis alpinæ Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 40. —

Sporulis oblongis subcylindraceisve, utrinque obtasis, continuis, hyalinis, $4-6 \approx 1\frac{1}{2}-2\frac{1}{2}$; basidiis duplo longioribus.

Hab. in siliquis Arabidis alpinæ, sæpe socia *Septoria arabidicola* Rostr., Oberammergau, Bavaria.

13. **Phoma Allescheri** Sacc. et Syd. *Phoma Hyperici* Allesch. Hedw. 3279

1895, p. 259, nec P. Brun. — Peritheciis sparsis vel sæpe dense gregariis, perexiguis, epidermide tectis, dein erumpentibus, subglobosis, nitidulis, fuscis, ca. 30-40 μ . diam.; sporulis ovoideis v. oblongis, utrinque rotundatis, continuis, eguttulatis, hyalinis, ca. $5-8 \approx 3-4$.

Hab. in caulibus emortuis Hyperici montani duobus locis in Bavaria australi.

14. **Phoma Hyperici** P. Brun. Sphærops. Char. 1889, p. 30. — Peri- 3280

theciis sparsis v. gregariis, globosis, minutissimis, brunneis, in cortice nidulantibus, tectis, perforatis, interdum conspicuis, maculas elongatas formantibus; sporulis ovoideis, hyalinis, $3-5 \approx 2\frac{1}{2}$; basidiis bacillaribus, rectis vel subcurvulis, utrinque rotundatis, $17 \approx 1\frac{1}{2}-2$.

Hab. in caulibus emortuis Hyperici perforati, Saintes Galliæ.

15. **Phoma Banisteriæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3281

ser. VIII, 1896, (Microm. III, p. 6) et Rev. Mycol. 1896, p. 120, t. CLXVIII, fig. 1. — Acervulis punctiformibus, longitudinaliter fœdantibus; peritheciis immersis, minutis, globosis, nigris, pertusis, 90-100 μ . diam., contextu fuligineo; sporulis oblongis, initio plurinucleolatis, dein distincte 2-guttulatis, $6 \approx 2$, basidiis duplo longioribus fultis.

Hab. in ramulis aridis Banisteriæ chrysophyllæ in horto botanico Senensi Italiæ.

16. **Phoma Fraxinifolii** Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 16. 3282

— Peritheciis dense gregariis sparsisve, primo tectis, dein epidermide dejecta subsuperficialibus, globosis, papillatis, magnitudine varia, atris; sporulis rotundato-ovoideis ovoideisve, rarius ellipticis, utrinque rotundatis v. obtusis, eguttulatis, continuis, hyalinis, $5-7 \approx 3-4$; basidiis subcylindraceis, $12-15 \approx 2$, hyalinis.

Hab. in ramulis exsiccatis Aceris Negundinis pr. München Bavaricæ (SCHNABL). — Forte *Ph. Aceris-Negundinis* Arcang. affinis, sed sporulis plerumque rotundato-ovoideis certe differt; a *Ph. negundicola* Thüm. prorsus diversa.

17. **Phoma santonensis** Sacc. et Syd. *Phoma ilicina* Brun. Act. Soc. 3283

Linn. Bordeaux 1898 p. 11 extr. nec Ell. et Anders. — Perithe-

ciis in parte stromatica gregariis, globosis, nigris, vix erumpentibus; sporulis oblongis hyalinis, biguttulatis, $5-6 \times 2$.

Hab. in ramis emortuis Ilicis Aquifolii, Saintes Galliæ.

18. **Phoma Anamirtæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3264 ser. VIII, 1896 (Microm. III, p. 4) et Rev. Mycol. 1896, p. 162, tab. CLXIX, fig. 5. — Peritheciis sparsis, primo epidermide tumidula tectis, dein erumpentibus, atris, pertusis, $\frac{1}{3}-\frac{1}{2}$ mm. diam.; sporulis oblongis, utrinque attenuatis, $6-7 \times 2\frac{1}{3}-3$, 2-vel 4-guttulatis, hyalinis, basidiis brevibus fultis.

Hab. in ramulis emortuis Cocculi laurifolii in horto botanico Senensi Italiæ.

19. **Phoma tamaricella** Sacc. Syll. III, p. 93. — forma **santonensis** 3265 P. Brun. Sphærosp. Char. 1889, p. 23. — Peritheciis sparsis vel gregariis, corticulis, tectis, nigris, globosis, ostiolo erumpentibus; sporulis ovoideo-oblongis, rectis, hyalinis, 5×2 .

Hab. in ramulis emortuis Tamaricis anglicæ, Saujon Galliæ.

20. **Phoma Deutziae** Allesch. Hedw. 1897, p. (160). — Peritheciis 3286 primo epidermide tectis, dein erumpentibus et subsuperficialibus, depresso-globosis, poro pertusis, contextu parenchymatico, olivaceis, ca 100-120 μ . diam.; sporulis numerosissimis, ovoideis v. ovoideo-oblongis, utrinque rotundatis, eguttulatis, hyalinis, $5-7 \times 3-4$; basidiis non visis.

Hab. in ramulis emortuis Deutziae gracilis pr. Berolinum Germaniæ (SYDOW).

21. **Phoma glandulosa** Oke-Sacc. Syll. III, p. 117. — Forma **santo-** 3287 **nensis** P. Brun. Bull. Soc. Bot. de France 1889, p. 337. — Sporulis oblongis, biguttulatis, $5-7 \times 3$, hyalinis.

Hab. in petiolis Ailanthi glandulosæ in Gallia.

22. **Phoma Zizyphi** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 117. — 3288 Peritheciis numerosis, semiimmersis, atris, gregariis v. sparsis, apice minute papillatis, $\frac{1}{4}$ mm. latis, contextu coriaceo, brunneo; sporulis hyalinis, minutis, $3 \times \frac{1}{2}-1$, cylindræis, utrinque obtusis, rectis, numerosissimis; basidiis hyalinis, brevibus.

Hab. in cortice Zizyphi in Tunisia.

23. **Phoma syngenesia** P. Brun. Act. Soc. Linn. Bordeaux 1890, p. 3289 57 extr. — Sporulis oblongis, hyalinis, $7-8 \times 2\frac{1}{2}$.

Hab. in ramis emortuis Rhamni Frangulæ in Gallia. — Spermogonium *Diaporthis syngenesiæ*.

24. **Phoma Arcangeliana** F. Tassi, Atti R. Acc. dei Fisiocr. Siena, 3290 4 ser. VIII, 1896, (Microm. III, p. 5) et Rev. Mycol. 1896, p. 160,

tab. CLXVIII, fig. 4. — Peritheciis sparsis, parvulis, globulosis, nigris, pertusis, 125-150 μ . diam.; sporulis ovato-oblongis v. anguste ellipticis, 2-guttulatis, hyalinis, 5-7 \times 2-3, basidiis longis, dense fasciculatis, fultis.

Hab. in ramis emortuis Pittospori eriocarpi in horto botanico Senensi Italiæ.

25. **Phoma evonymella** P. Brun. Sphærops. Char. 1889, p. 15. — 3291
Peritheciis sparsis vel gregariis, globosis vel subglobosis, nigris, tectis, ostiolo solo erumpente; sporulis ovoideo-elongatis, hyalinis, 5-7 \times 2 $\frac{1}{2}$; basidiis filiformibus, arcuatis, 20-25 \times 0,5.

Hab. in ramulis emortuis Evonymi europææ, Saintes Galliæ.

26. **Phoma ramealis** Desm. — Sacc. Syll. III, p. 71. — Forma **japonica** 3292
P. Brun. Bull. Soc. Sc. Nat. Nantes IV, 1894, p. 33. — Sporulis subfusiformibus, hyalinis, biguttulatis, 10-12 \times 3-3 $\frac{1}{2}$.

Hab. in ramis emortuis Evonymi japonicæ, Saintes in Gallia.

27. **Phoma Phellodendri** Bres. in Sydow, Mycotheca Marchica 3293
n. 3799. — Peritheciis dense gregariis, subglobosis, basi depressis, majusculis, $\frac{1}{3}$ mm. latis, subepidermicis pustulatum erumpentibus; sporulis hyalinis, allantoideis, 5-6 \times 1.

Hab. in ramis Phellodendri amurensis culti pr. Berolinum Germaniæ (Sydow).

28. **Phoma Idesiæ** Fr. Sacc. Atti d. Soc. Ven.-Trent. di Sc. Nat. 3294
2 ser. 2 vol. 2 fasc. 1896, p. 475, tab. III, fig. 3, et Bull. Soc. Myc. de Fr. 1896, p. 77. — Peritheciis gregariis, subcutaneis, globoso-depressis, vix $\frac{1}{2}$ mm. diam., griseo-atris; sporulis elliptico-fusoides, 8-10 \times 3, 2-guttulatis, hyalinis; basidiis bacillaribus, sporula triplo longioribus.

Hab. in ramulis corticatis Idesiæ polycarpæ in horto bot. Patavino, Italia.

29. **Phoma Fraxinellæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3295
ser. VIII, 1896, (Microm. III, p. 4) et Rev. Mycol. 1896, p. 160, tab. CLXVIII, fig. 2. — Peritheciis tectis, numerosis, sparsis v. subseriatis, suborbicularibus, nigris, pertusis $\frac{1}{3}$ mm. diam.; sporulis ellipsoideis, utrinque attenuatis, hyalinis, 2-guttulatis, 5-8 \times 2, basidiis longis fultis.

Hab. in caulibus siccis Dictamni Fraxinellæ in horto botanico Senensi Italiæ. — Affinis *P. Dictamni* Sacc., sed differt sporulis constantè 2-guttulatis.

30. **Phoma candidula** Dom. Sacc. Atti d. Soc. Ven.-Trent. di Sc. Nat. 3296

2 ser. 2 vol. 2 fasc. 1896, p. 475, tab. III, fig. 2 et Bull. Soc. Myc. de Fr. 1896, p. 77. — Peritheciis sparsis, epidermide velatis, globoso-inæqualibus, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam.; nucleo fæcto, candido; sporulis minutissimis, cylindræis, rectis v. leniter curvis, utrinque rotundis, 2-guttulatis, $4 \times 0,5-1$, hyalinis; basidiis fasciculatis, bacillaribus v. subfusoides, 18×2 , hyalinis.

Hab. in ramulis tenellis Corni albæ in horto botan. Patavino, Italia. — Affinis *Ph. Cratægi* Feki.

31. **Phoma lirelliformis** Sacc. — Syll. III, p. 87. — Forma **aucubicola** 3297
P. Brun. Act. Soc. Linn. Bordeaux 1888, p. 15 extr. — Sporulis oblongo-elongatis, biguttulatis, rectis v. leniter curvatis, hyalinis, $8-12 \times 3-3\frac{1}{2}$.

Hab. in ramulis emortuis Aucubæ japonicæ, Rochefort in Gallia.

32. **Phoma parvula** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 11 3298
extr. — Peritheciis numerosis, dense gregariis, globoso-conicis, nigris, perforatis, erumpentibus subsuperficialibusque; sporulis ovoideis hyalinis, minutis, $3-4 \times 3$.

Hab. in fructibus maturis Vitis viniferæ pluribus locis in Gallia.

33. **Phoma tuberculata** Mc. Alp. Addit. to the Fungi Vine Austr. 3299
1898 p. 23, t. III. — Peritheciis in maculis subcircularibus cinerescensibus dense gregariis confluentibusque, epidermide pustulato-tuberculata diu velatis, globosis v. oblongis, $110-150 \mu$. diam., contextu atro-brunneo; sporulis oblongo-ovoides, hyalinis, intus granulosus, $6-8 \times 3-3,5$.

Hab. in bacis varietatum plurium Vitis viniferæ, Ardmona distr. Australiae, ubi morbus, quem affert, audit Squirt Berry et Soft Rot. Sec. cl. Mc Alp. extra perithecia generantur microsporæ et macrosporæ quædam, de quibus cfr. l. c.

34. **Phoma exserta** Thüm. — Syll. III, p. 131. — Var. **arctica** Allesch. 3300
in Allescher et P. Hennings, Pilze aus dem Umanakdistrikt 1897, p. 12. — Peritheciis dense gregariis, globosis, atris, epidermide tectis, dein erumpentibus, minutis; sporulis oblongis v. subcylindræis, utrinque obtusiusculis, continuis, eguttulatis, hyalinis, ca. $6-8 \times 1\frac{1}{2}-2$; basidiis fasciculatis, brevibus, sursum attenuatis, ca. $8-12 \times 1\frac{1}{2}-2$.

Hab. in caulibus emortuis Melandryi involucrati pr. Karajak Groenlandiæ (VANHÖFFEN).

35. **Phoma Cucubali-bacciferi** Allesch Hedw. 1895, n. 260. — Peri- 3301

theciis dense gregariis, minutissimis, epidermide tectis, dein erumpentibus, globoso-depressis v. oblongis, nigris, ca. 40-60 μ . diam., poro pertusis; sporulis minutissimis, ovoideis v. breviter oblongis, ca. 3-5 \times 1-1 $\frac{1}{2}$; basidiis brevibus.

Hab. in caulibus exsiccatis Cucubali bacciferi in Bavaria (WEISS).

36. **Phoma Cussoniæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3302 VIII, 1896 (Microm. III. p. 4) et Rev. Mycol. 1896, pag. 161, tab. CLXVIII, fig. 8. — Peritheciis sparsis, exiguis, globoso-depressis, vix pertusis, $\frac{1}{10}$ mm. diam., contextu luteo-fusco, in acervulis pustuliformibus nidulantibus; sporulis oblongis, rectis, 2-guttulatis, 6-8 \times 2-2 $\frac{1}{2}$, hyalinis; basidiis non visis.

Hab. in ramulis emortuis Cussoniæ thyrsifloræ in horto botanico Senensi Italiæ.

37. **Phoma Ribis** Ell. et Barth. Erythea 1896, p. 1. — Peritheciis 3303 erumpenti-superficialibus, sparsis, globosis v. subconico-globosis, nigris, 110-135 μ . diam., ostiolo papilliformi; sporulis minutis, oblongo-ellipticis, 3-4 \times 1 $\frac{1}{4}$ -1 $\frac{1}{2}$; basidiis brevibus, 8-10 \times 2-2 $\frac{1}{2}$, basi sæpe ramosis.

Hab. in ramis decorticatis Ribis Grossulariæ, Kansas Amer. bor. (BARTHOLOMEW). — Spermogonium *Diaporthes* spec.

38. **Phoma ribicola** Sacc. et Syd. *Phoma Ribis* P. Brun. Act. Soc. 3304 Linn. Bordeaux 1898, p. 12, nec Ell. et Ev. — Peritheciis minutis, in stromate subgloboso vix per epidermidis rimas erumpente unitis; sporulis oblongis, hyalinis, biguttatis, continuis, 5 \times 2 $\frac{1}{2}$.

Hab. in ramis emortuis Ribis nigri, Saintes Galliæ.

39. **Phoma Vanhöffeniana** Allesch. in Allescher et P. Hennings. Pilze 3305 aus dem Umanakdistrikt. 1897, p. 11. — Peritheciis sparsis v. gregaris, minutis, epidermide tectis, dein erumpentibus, lenticularibus, contextu membranaceo, fuligineis usque fusco-brunneis, 50-70 μ . d., depresso-globosis; sporulis ovoideis oblongisve, continuis, utrinque obtusis, aliis eguttulatis, aliis biguttulatis, hyalinis, 4-8 \times 2-3; basidiis filiformibus, rectis, 12-20 \times 1, hyalinis.

Hab. in caulibus Saxifragæ rivularis et S. nivalis pr. Karajak-Nunatak Groenlandiæ (VANHOEFFEN).

40. **Phoma Heimii** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3306 VIII, 1896, (Microm. III, p. 4) et Rev. Mycol. 1896, p. 162, tab. CLXIX, fig. 7. — Peritheciis sparsis, exiguis, epidermide velatis, pertusis, 50-60 μ . diam., contextu rubiginoso-fuligineo; sporulis ovatis, 6 \times 2-3, hyalinis; basidiis nullis visis.

Hab. in ramulis junioribus exsiccatis *Heimia salicifoliae* in horto botanico Senensi Italiae.

41. **Phoma labilis** Sacc. — Syll. III, p. 122. — Var. **peduncularis** F. 3307
Tassi, Atti R. Acc. dei Fisiocr. Siena, 4 ser. VIII, 1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 163, tab. CLXIX, fig. 13. — Peritheciis $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam.; sporulis oblongis, rectis, 5-6 \times 2-3, 2-vel 4-guttulatis, hyalinis, basidiis brevibus fultis.

Hab. in pedunculis siccis *Hibisci Rosæ-sinensis* in horto botanico Senensi Italiae. — Differt a specie peritheciis, quæ sunt majora et constanti præsentia basidiorum.

42. **Phoma althæina** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 10 3308
extr. — Peritheciis globosis v. globoso-conicis, nigris, magnitudine ea *Pleosporæ herbarum* æquantibus, tectis v. ostiolo erumpenti donatis; sporulis globulosis v. ovoideo-globosis, hyalinis, 2 $\frac{1}{2}$ -3 $\frac{1}{2}$ μ . diam. v. 2 $\frac{1}{2}$ -3 $\frac{1}{2}$ \times 2-2 $\frac{1}{2}$.

Hab. in caulibus emortuis *Althææ officinalis*, Saintes Gallie.

43. **Phoma rubicola** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 10. 3309
extr. — Peritheciis minutissimis globosis, tectis, tandem vix erumpentibus; sporulis ovoideo-oblongis, hyalinis, biguttulatis, 5-5 $\frac{1}{2}$ \times 2.

Hab. in ramis junioribus *Rubi cæsii*, Saintes Gallie.

44. **Phoma canina** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 10. 3310
— Peritheciis sparsis minutis, primitus tectis, dein suberumpentibus; sporulis ovoideo-oblongis, hyalinis, biguttulatis, 3-3 $\frac{1}{2}$ \times 2.

Hab. in spinis *Rosæ caninæ*, Saintes Gallie.

45. **Phoma rubiginosa** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3311
p. 10 extr. — Peritheciis minutis nigris, vix erumpentibus, intus nigris; sporulis oblongis continuis, hyalinis, biguttatis, 5 \times 2.

Hab. in fructibus exsiccatis *Rosæ rubiginosæ*, Saintes Gallie.

46. **Phoma fructigena** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 10 3312
extr. — Peritheciis minutis nigris, sparsis v. gregariis, erumpentibus; sporulis ovoideo-oblongis, biguttulatis, hyalinis, 7 $\frac{1}{2}$ \times 2.

Hab. in fructibus exsiccatis *Cratægi Oxycanthæ*, Saintes Gallie.

47. **Phoma Alchemillæ** Vestergr. Oefv. K. Vet.-Akad. Förh. 1897, 3313
n. I, p. 37. — Maculis nullis; peritheciis epiphyllis, rarius hypophyllis, sparsis, globoso-applanatis, 0,4-0,5 mm. diam., epidermide velatis, papilla distinctissima prominulis, demum collabescendo subpatellatis, membranaceis, nigris, textura indistincte parenchymatica; sporulis cylindraceis, utrinque guttula majuscula præditis rotanda-

tisque, $5-6 \times 1\frac{1}{2}$, continuis, hyalinis, basidiis filiformibus, rectis, ad 20μ . longis, hyalinis, simplicibus, eguttulatis suffultis.

Hab. in foliis petiolisque marcescentibus Alchemillæ vulgaris pr. Upsaliam Sueciæ.

48. **Phoma potentillica** Allesch. in Allescher et P. Hennings, Pilze 3314 aus dem Umanakdistrikt. 1897, p. 11. — Peritheciis sparsis, epidermide tectis, dein erumpentibus, globoso-depressis v. lenticularibus, atris; sporulis ovoideis oblongisve, continuis, interdum biguttulatis, hyalinis, ca. $5-6 \times 2$

Hab. in caulibus emortuis Potentillæ emarginatæ et P. nivæ pr. Umanak Groenlandiæ (VANHÖFFEN).

49. **Phoma spuria** Vestergr. Jahreskatalog der Wieuer Kryptog. 3315 Tauschanstalt. 1897, p. 4. — Peritheciis sparsis, primo epidermide plane tectis, dein totis prorumpentibus, lenticularibus, non papillatis, demum collapsis, membranaceo-coriaceis, nigris, textura subtiliore sat irregulari contextis, $0,4$ mm. longis, $0,2$ mm. latis; sporulis bacillaribus, utrinque guttulatis, hyalinis, $4-6 \times 1$, sterigmatibus linearibus, $6-8 \mu$. longis suffultis.

Hab. in caulibus siccis Potentillæ argenteæ in Gotlandia Sueciæ. — Est species Phomæ ejusdam spurie, forte e typo illarum, quæ *Diaporthem* spectant.

50. **Phoma Arunci** Allesch. Hedw. 1897, p. (160). — Maculis irregularibus. atro-griseis, sparsis; peritheciis gregariis, epidermide tectis, dein erumpentibus, minutissimis, depresso-globosis, atris, ca. $40-50 \mu$. diam.; sporulis minutis, oblongis, utrinque obtusis, unicellularibus, hyalinis, $4-7 \times 1-2$.

Hab. in caulibus Spirææ Arunci, socia *Phoma Spirææ* Desm., pr. Berolinum Germaniæ (SYDOW).

51. **Phoma Sumacis** P. Brun. - Sacc. Syll. X, p. 149. — forma *Spirææ* 3317 P. Brun. Bull. Soc. Bot. de France 1889, p. 337. — Sporulis $3\frac{1}{2}-4 \times 2\frac{1}{2}$.

Hab. in ramis emortuis Spirææ sorbifoliæ in Gallia.

52. **Phoma Dryadis** Allesch. in Allescher et P. Hennings, Pilze aus 3318 dem Umanakdistrikt. 1897, p. 11. — Peritheciis sparsis, epidermide tectis, dein erumpentibus, subconicis, atris; sporulis ovoideo-oblongis v. subconoideis, utrinque rotundatis, continuis, eguttulatis, hyalinis, ca. $12-16 \times 5-6$; basidiis filiformibus, $20-30 \times 1\frac{1}{2}$, hyalinis, septulatis (?)

Hab. in pedunculis Dryadis octopetalæ var. integri-foliæ in Groenlandia (VANHÖFFEN).

53. **Phoma Cliffortiae** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3319 VIII, 1896, (Microm. III, p. 5) et Rev. Mycol. 1896, pag. 162, tab. CLXIX, fig. 2. — Peritheciis velatis, sparsis, subglobosis, pertusis, contextu fuligineo, 100-120 μ . diam.; sporulis numerosis, cylindraceutis, rectis, utrinque rotundatis, simplicibus, 4-6 \times 2-2 $\frac{1}{2}$, enucleatis, hyalinis.

Hab. in ramulis Cliffortiae ilicifoliae in horto botanico Senensi Italiae.

54. **Phoma Eugeniae** P. Henn. Engl. Jahrb. XXIII, 1896, p. 289. 3320 — Peritheciis minutis punctiformibus, hypophyllis, subhemisphaericis, atris, subnitentibus, in maculis rotundatis pallidioribus singularibus vel subaggregatis; sporulis cylindraceutis-oblongis, utrinque obtusis, rectis, hyalinis, 9-11 \times 3.

Hab. in foliis Eugeniae spec. ins. Upolu ins. samoens. (REINECKE).

55. **Phoma epiglandula** F. Tassi, Bull. del Lab. Bot. d. R. Univ. 3321 Siena 1898, fasc. I, p. 8, tab. IX, fig. 7. — Peritheciis globosis, nigris, in glandulis foliorum languentium insidentibus, pertusis, 100 μ . diam., contextu fuligineo; sporulis numerosissimis, ovatis, 6 \times 2-2 $\frac{1}{2}$, 2 v. rarissime 3-guttulatis, guttulis magnis; basidiis estrato prolifico fusco ortis, simplicibus, quandoque furcatis, circ. 30 \times 2, hyalinis suffultis.

Hab. in foliis Eugeniae Jambos, quibus explicat maculas fuscas plerumque apicales vel marginales, in horto bot. Senensi, Italia.

56. **Phoma australis** Cke. Grev. XV. 1886, p. 17. — Epiphylla; 3322 maculis fuscis, ellipticis, brunneo-cinctis, demum confluentibus; peritheciis atris, punctiformibus, semi-immersis; sporulis elongato-ellipticis, hyalinis, granulosis, 26-30 \times 6; pedicellis brevibus.

Hab. in foliis Eucalypti pr. Melbourne (H. WATTS). — Vix *Phoma* species; an *Macrophoma*?

57. **Phoma Monochæti** F. Tassi, Bull. del Lab. Bot. d. R. Univ. 3323 Siena 1898, fasc. I, p. 9, tab. X, fig. 2. — Peritheciis sparsis v. approximatis, oblongis, epidermide prominente demum fissa tectis, atris, ostiolo hysteroideo præditis, $\frac{1}{3}$ mm. longis; sporulis oblongis, 10-12 \times 3-3 $\frac{1}{2}$, biguttulatis; basidiis basi incrassatis et apice attenuatis, sporulis duplo v. triplo longioribus, sæpe granuloso-farctis.

Hab. in ramis emortuis Monochæti Humboldtiani in horto bot. Senensi, Italia.

58. **Phoma Calycotomes** Roll. Bull. Soc. Myc. de Fr. 1896, p. 6, 3324
tab. II, fig. 10. — Peritheciis amphigenis, rotundis, $\frac{1}{2}$ - $\frac{1}{4}$ mm.
latis, nigris, epidermide velatis, erumpentibus, ore pertusis; sporulis
hyalinis, ovoideis, vario guttulatis, 10-15 \times 7-8, basidiis exiguis
suffultis.

Hab. in ramulis siccis Calycotomes spinosæ, Golfe Juan
Galliæ. — Spernagonium forsân *Læstadiæ Calycotomes*.

59. **Phoma Cytisi** P. Brun. Sphærops. Char. 1889, p. 14. — Peri- 3325
theciis gregariis, globosis, epidermide subnigrificata tectis, nigris.
minutis; sporulis ovalibus, hyalinis, continuis, 5-6 \times 3.

Hab. in ramulis emortuis Cytisi sessilifolii, Saintes Galliæ.

60. **Phoma Genistæ** P. Brun. Sphærops. Char. 1889, p. 14. — Peri- 3326
theciis sparsis, minutissimis, globoso-depressis, erumpentibus, nigris;
sporulis oblongis, hyalinis, continuis, 5-6 \times 2 $\frac{1}{2}$ -3.

Hab. in caulibus emortuis Genistæ tinctoriæ, Fauras Galliæ.

61. **Phoma phyllostictoides** Desm. - Syll. III, p. 147 (nomen!). — 3327
Peritheciis gregariis v. sparsis, minutissimis, punctiformibus, apice
pertusis, in sicco depressis, initio pallidis, dein brunneo-nigris;
sporulis elliptico-ovoideis v. oblongis, sæpe uno fine, rarius duobus
aliquantulum attenuatis sed obtusis, continuis, biguttulatis, ca.
4-6 \times 2-4, hyalinis

Hab. in leguminibus exsiccatis sed adhuc pendulis Coluteæ ar-
borescentis in Bohemia, Austria, Italia septentr. et Gallia
(Sec. A. Allescher in Rabenh. Kryptog.-Flora, Fg. imperf. p. 192).

62. **Phoma mutinensis** D. Sacc. Malp. 1898, p. 224, Tab. VIII, fig. 10. 3328
— Peritheciis gregariis, sæpe oblongis, nigris, epidermide rimosa
velatis; sporulis ovoideis, apice inferiore acutatis, biguttulatis, 13-
16 \times 5-6, hyalinis; basidiis simplicibus, cylindræis, 20-30 \times 2-3,
hyalinis

Hab. in ramulis emortuis Wistariz sinensis, Casinalbo,
Modena (HADR. FIORI). — A *Ph. seposita* Sacc. et *Ph. Wistariz*
Thüm. omnino differt sporulis et basidiis multo majoribus, peri-
theciis sæpe oblongis, nigris, epidermide rimosa velatis.

63. **Phoma Kennedyz** F. Tassi, Rev. Mycol. 1896, p. 161, t. CLXVIII, 3329
fig. 7. — Peritheciis sparsis, globosis, nigris, $\frac{1}{2}$ - $\frac{1}{4}$ mm. diam.,
late pertusis; sporulis oblongo-ellipsoideis, utrinque attenuatis, 4
v. raro 2-guttulatis, 8-10 \times 2-3; basidiis brevibus fultis.

Hab. in ramulis emortuis Kennedyz rubicundæ in horto
botanico Senensi Italiæ.

64. **Phoma biformis** Ell. et Barth. Erythea 1896, p. 80. — Perithe- 3330

ciis sparsis, innato-erumpentibus, hysteriiformibus, $\frac{3}{4}$ -1 mm. longis, ovato-conicis, $\frac{1}{2}$ -1 mm. diam.; sporulis oblongo-ellipticis, biguttulatis, hyalinis, subobtusis, 6-7 \times 2; basidiis simplicibus, obclavatis, 12 \times 2.

Hab. in ligno decorticato *Amorphæ fruticosæ* in Kansas Amer. bor. (BARTHOLOMEW). — A *Phoma Amorphæ* Sacc. diversa, in qua vero perithecia sunt globoso-lenticularia multo minora atque sporulæ 6-7 \times 4.

65. **Phoma gleditschiæcola** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3331 p. 9 extr. — Peritheciis minutis nigris, erumpentibus; sporulis ovoideis v. oblongo-ovoideis, eguttulatis, hyalinis, 3-3 $\frac{1}{2}$ \times 2.

Hab. in leguminibus exsiccatis *Gleditschiæ Triacanthi*, Saintes Galliæ.

66. **Phoma cornigena** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3332 ser. VIII, 1896 (Microm. III, p. 4) et Rev. Mycol. 1896, p. 160, tab. CLXVIII. fig. 3. — Peritheciis numerosis, punctiformibus, nigris, 150-200 μ .; sporulis minutissimis, bacillaribus, cylindræcis, utrinque sæpe obtusis, eguttulatis, hyalinis, 2-3 \times 1, basidiis brevibus, filiformibus fultis.

Hab. in stipulis vivis *Acaciæ cornigenæ* in horto botanico Senensi Italiæ.

67. **Phoma Knautiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3333 VIII, 1896, p. 64 et Rev. Mycol. 1896, p. 163, tab. CLXIX, fig. 11. — Peritheciis dense sparsis, minutis, punctiformibus, nigris, sphæroideis, 80-120 μ . diam., initio subvelatis, tandem epidermide erosa deciduis, contextu lutescente, dein fusco-luteo; sporulis bacillaribus, numerosissimis, rectis, raro curvatis, obtusiusculis, continuis, eguttulatis, hyalinis, 2-4 \times 1.

Hab. in caulibus exsiccatis *Knautiæ arvensis*, Senis Italiæ. — Affinis *Ph. oleraceæ*, sed differt sporulis eguttulatis.

68. **Phoma Galinsogæ** Allesch. Hedw. 1896, p. (33). — Peritheciis 3334 sparsis, epidermide tectis, dein erumpentibus, non pertusis, contextu parenchymatico, fusco-olivaceis, globoso-depressis, 50-100 μ . diam.; sporulis ovoideis v. ovato-oblongis, utraque rotundatis, eguttulatis, hyalinis, 5-7 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$.

Hab. in caulibus siccis *Galinsogæ parvifloræ* prope Berlinum Germaniæ (SYDOW). — *Phomæ ambiguellæ* Karst. et Har. affinis.

69. **Phoma canadensis** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 32 3335 — Peritheciis minutis, tectis, dense gregariis, in maculas griseas,

longas, sæpe longissimas dispositis. poro pertusis, atro-fuscis, 40-60 μ . diam.; sporulis minutissimis, oblongis, utrinque obtusis, biguttulatis, continuis, hyalinis, 3-5 \times 0,5-1; basidiis non visis.

Hab. in caulibus emortuis Erigerontis canadensis pr. München Bavaricæ. — An *Phomæ nebulosæ* varietas?

70. **Phoma astericala** Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 30. 3336

— Peritheciis immersis, apice emergentibus, nigris, nitidis, orbicularibus v. elongatis, extus lineis tenuibus varie rugosiusculis matricem nigrificantibus; sporulis ovato-ellipticis, 12-17 \times 5-7, granulosis.

Hab. in foliis caulibusque Asteris spec, Auburn, Alabama Amer. bor.

71. **Phoma groenlandica** Allesch. in Allescher et P. Hennings, Pilze 3337

aus dem Umanakdistrikt. 1897, p. 12. — Peritheciis gregariis v. sparsis, epidermide nigrificata tectis, dein suberumpentibus, globoso-depressis, minutis, contextu indistincte parenchymatico, atro-fuligineo; sporulis minutis, ovoideo-oblongis oblongisve, continuis, sæpe biguttulatis, ca. 5-6 \times 1 $\frac{1}{2}$ -3.

Hab. in caulibus emortuis Campanulæ rotundifoliæ pr. Umanatsiak Groenlandiæ (v. DRYGALSKI).

72. **Phoma Galeopsidis** Allesch. in Allesch. et Schnabl, Fg. bavarici 3338

n. 573. — Peritheciis sparsis, epidermide tectis, globoso-depressis, poro pertusis, contextu parenchymatico, fuligineo-nigro, ca. 80-100 μ . et ultra diam.; sporulis oblongis, utrinque obtusis, continuis, biguttulatis, hyalinis, ca. 4-6 \times 2-3; basidiis non visis.

Hab. in caulibus emortuis Galeopsidis Tetrahit?, Franconia super. (ROHNFELDER).

73. **Phoma Clinopodii** Allesch. Hedw. 1895, p. 260. — Peritheciis 3339

perexiguis, punctiformibus, epidermide velatis, sparsis, atris; sporulis minutissimis, ovoideis, oblongis v. cylindræis, hyalinis, ca. 2-4 \times 1-1 $\frac{1}{2}$.

Hab. in caulibus emortuis Clinopodii vulgaris in Bavaria australi. — *Ph. phyllostictæ* Sacc. et Penz. affinis.

74. **Phoma Marrubii** (Dur. et Mont.) Sacc.-Syll. III, p. 129. — forma 3340

santonensis P. Brun Bull. Soc. Bot. de France 1889, p. 398. — Peritheciis sparsis vel gregariis, globosis, nigris, tectis, ostiolo conico-acutato erumpentibus; sporulis fusiformibus v. oblongo-subfusiformibus, 2-guttulatis, hyalinis, 9-10 \times 3.

Hab. in caulibus emortuis Marrubii vulgaris in Gallia.

75. **Phoma Verbenacæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3341
ser. VIII, 1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 160,

tab. CLXVII, fig. 6. — Peritheciis subgregariis, minimis, epidermide velatis, 100-120 μ . diam., contextu fuligineo; sporulis numerosis, ovatis v. oblongis, $4-5 \frac{1}{2} \approx 2 \frac{1}{2}$, continuis, hyalinis; basidiis nullis visis.

Hab. in caule exsiccato *Salviæ Verbenaceæ* in nemoribus pr. «Uncinello» agri senensis in Italia.

76. **Phoma californica** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 286. 3342
— Peritheciis subcuticularibus, epidermide leniter elevata ac atrata tectis; sporulis oblongis, $3 \approx \frac{3}{4}$.

Hab. in caulibus emortuis *Gentianæ serratæ* in California (Mc CLATCHIE). — Sporulis minoribus a *Phoma Niesslii* et *Ph. Gentianæ* diversa species.

77. **Phoma Heliotropii** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3343
ser. VIII, 1896 (Microm. III, p. 6) et Rev. Mycol. 1896, p. 162, tab. CLXIX, fig. 6. — Peritheciis sparsis, globulosis, erumpentibus, nigris, $\frac{1}{2}-\frac{2}{3}$ mm. diam., contextu atro-fuligineo; sporulis cylindræis, rectis, utrinque rotundatis, $4-4 \frac{1}{2} \approx \frac{1}{2}-2$, rarissime obsolete 2-guttulatis, hyalinis; basidiis nullis visis.

Hab. in ramulis emortuis *Heliotropii peruviani* in horto botanico Senensi Italiæ.

78. **Phoma Lippiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 3344
1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 163, tab. CLXIX, fig. 9. — Peritheciis dense sparsis minutissimis, globosis, 40-80 μ . diam., contextu luteo-fusco; sporulis cylindræis, rectis, utrinque rotundatis, continuis, 2-guttulatis, hyalinis, $4-5 \approx 2-2 \frac{1}{2}$.

Hab. in ramis emortuis *Lippiæ citriodoræ* in horto botanico Senensi Italiæ. — Affinis *Ph. Aloysiæ* Pass., sed differt peritheciis constanter globosis et colore contextus et sporulis assidue biguttulatis et minoribus.

79. **Phoma insulata** Sacc. sp. n. — Peritheciis subcutaneis, erumpentibus, hinc inde in soros insulæformes dense confertis, globulosis, breve papillatis, atro-nitidulis, 100 μ . diam.; sporulis crasse obovoideis, $10-12 \approx 8-9$, hyalinis, granuloso-farctis.

Hab. in caulibus corticatis *Ipomœæ gossypoidis*, Paraguari, Paraguay, febr. 1882 (B. BALANSA, n. 2752).

80. **Phoma Justiciæ** F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena 3346
1898, fasc. I, p. 9, tab. X, fig. 1. — Peritheciis sparsis, tectis, zona nigra subepidermica circumscriptis, minutis, oblongis, nigris, circiter $\frac{1}{3}$ mm. diam.; sporulis oblongis, 2-guttulatis, $10 \approx 4$, basidiis hamatis suffultis.

- Hab.* in caulibus emortuis *Justiciæ furcatæ* in horto bot. Senensi, Italia.
81. **Phoma Thapsi** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 286. — 3347
Peritheciis subhysteriiformibus. epidermide atrata, ostiolo papilliformi perforata tectis; sporulis oblongo-ellipticis, 2-nucleatis, obtusis, $5-6 \approx 2\frac{1}{2}$.
Hab. in caulibus emortuis *Verbasci Thapsi*, Newfield N. J. Amer. bor.
82. **Phoma Veronicæ** Brun. — Sacc. Syll. III, p. 128. — var. **Veronicæ urticifoliæ** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 39. — 3348
Peritheciis laxè gregariis sparsisve, primum epidermide nigrificata tectis, dein erumpentibus, convexis, subglobosis, poro pertusis, nucleo albo, contextu parenchymatico, fusco, 40-60 μ . diam.; sporulis ovoideis oblongisve, medio sæpe parum angustatis, hyalinis, continuis, plerumque biguttulatis, 5-7 \approx 2-3, utrinque obtusis, hyalinis; basidiis filiformibus, brevibus.
Hab. in caulibus siccis *Veronicæ urticifoliæ* pr. München Baviaræ.
83. **Phoma Tatulæ** Kalchbr. et Cke. — Sacc. Syll. III, p. 128. — forma 3349
Stramonii Pass. et P. Brun. Act. Soc. Linn. Bordeaux 1888, p. 16 extr. — Peritheciis sparsis, brunneis, minutis, tectis, dein erumpentibus. sporulis ellipticis, hyalinis, 5 \approx 3.
Hab. in caulibus emortuis *Daturæ Stramonii*, Clermont-Ferraud in Gallia.
84. **Phoma Pseudocapsici** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3350
ser. VIII, 1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 163 tab. CLXIX, fig. 8. — Peritheciis sparsis v. subgregariis, nigris; globulesis, 100-140 μ . diam., contextu membranaceo, pallide fuligineo; sporulis numerosissimis, ovatis v. ovato-oblongis, eguttulatis, hyalinis, 4-5 \approx 2-3 $\frac{1}{2}$; basidiis non visis.
Hab. in ramulis emortuis *Solani Pseudocapsici* in horto botanico Senensi Italiae. — *Phomæ eupyrenæ* Sacc. proxima.
85. **Phoma Armeriæ-sibiricæ** Allesch. in Allescher et P. Hennings, 3351
Pilze aus dem Umanakdistrikt 1897, p. 12. — Peritheciis dense gregariis sparsisve, epidermide tectis, erumpentibus, globoso-depressis, astomis, ca. 40-60 μ . diam., fusco-brunneis; sporulis ovoideo-oblongis, utrinque rotundatis, continuis, hyalinis, ca. 6-7 \approx 2-2 $\frac{1}{2}$; basidiis brevibus.
Hab. in scapis emortuis *Armeriæ vulgaris* var. *sibiricæ* pr. Karajak-Nunatak Groenlandiæ (VANHÖFFEN).

86. *Phoma viridis* Ell. et Barth. Erythea 1896, p. 4. — Peritheciis 3352
sparsis v. subaggregatis, subepidermicis; demum per epidermidem
plus minus erumpentibus, depresso-hæmisphæricis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.,
papillatis; sporulis breve ellipticis, fumoso-hyalinis, obtusis, $4-5\frac{1}{2}$
 $\approx 3\frac{1}{2}-4$.

Hab. in ramulis emortuis Fraxini viridis, Kansas Amer.
bor. (BATHOLOMEW). — Ad *Dothiorellam* accedit.

87. *Phoma depressa* (Lév.) Sacc.-Syll. III, p. 82. — forma minor P. 3353
Brun. Bull. Soc. Bot. de France 1889, p. 337. — Sporulis $6-8 \approx 2\frac{1}{2}$.

Hab. in fructibus exsiccatis Syringæ vulgaris in Gallia.

88. *Phoma Phillyreæ-variabilis* Casali, Malpighia 1897, p. 87. — Peritheciis 3354
punctiformibus, sparsis, hypodermicis, lenticularibus, erumpentibus,
subcuticularibus, $175-180 \mu$., ostiolo lato prominulo; sporulis
fuseoideis v. bacilliformibus, utrinque rotundatis, distincte
 3 -guttulatis, $10-12 \approx 3-4$; basidiis brevibus sed valde distinctis.

Hab. in foliis vivis Phillyreæ variabilis, Frascati Ital.
central.

89. *Phoma Pavettæ* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 3355
1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 163, tab. CLXIX,
fig. 10. — Peritheciis sparsis, globosis, epidermide velatis, $200-$
 300μ . diam., anguste pertusis, contextu pallide fuligineo; sporulis
exiguus, numerosissimis, subcylindraceis, utrinque rotundatis, $2-2\frac{1}{2}$
 $\approx 1-1\frac{1}{2}$, eguttulatis, hyalinis; basidiis non visis.

Hab. in ramulis vivis Pavettæ indicæ in orto botanico
Senensi Italiae.

90. *Phoma tatarica* Allesch. Bor. Bayr. Bot. Ges. IV, 1896, p. 92. 3356
— Peritheciis gregariis, minutis, tectis, lenticularibus, poro par-
tutis, contextu parenchymatico, griseo-brunneo, $50-60 \mu$. diam.;
sporulis subglobosis, ovoideis v. oblongis, hyalinis, eguttulatis,
 $4-7 \approx 3-5$; basidiis filiformibus, $15-20 \approx 1$.

Hab. in ramulis emortuis Loniceræ tataricæ, socia *Asco-
chyta tatarica* Allesch. pr. München Bavariae.

91. *Phoma Sambuci* Pass. - Sacc. Syll. X, p. 144. — forma dubia P. 3357
Brun. Bull. Soc. Bot. Fr. 1893, p. 221. — Peritheciis sparsis v.
aggregatis, globosis, nigris, tectis, ostiolo erumpentibus; sporulis
botuliformibus, interdum subfusiformibus, hyalinis, continuis, non
guttulatis, rectis v. curvatis, $8-12 \approx 2$.

Hab. in ramis emortuis Sambuci nigræ, Saintes in Gallia

92. *Phoma cofficicola* F. Tassi, Bull. del Lab. d. R. Univ. Siena 1898, 3358
fasc. I, p. 7, tab. IX, fig. 5. — Peritheciis dense sparsis,

perforatis, difformibus, magnitudine variis, late pertusis, contextu parenchymatico, fuligineo, basi hyphulis mycelialibus, repentibus præditis; sporulis innumeris, primo ovatis, dein ovato-cylindraceis v. suballantoideis, $4\frac{1}{2}$ - 5×2 , hyalinis v. dilutissime chîcrinis, eguttulatis, basidiis simplicibus acicularibus fultis.

Hab. in ramis ramulisve vivis *Coffeæ arabicæ* in horto bot. Senensi, Italia. — *Ph. Pavetta* aspectu similis, sed differt præsentia basidiorum et magnitudine sporularum.

93. *Phoma Coprosmæ* F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena 3359 1898, fasc. I, p. 8, tab. IX, fig. 6. — Peritheciis sparsis, globosis, $\frac{1}{4}$ mm. diam., epidermide velatis, nigris; sporulis innumeris, ovatis, 2-guttulatis, $10 \times 6\frac{1}{2}$ -7, hyalinis, basidiis æquilongis fultis.

Hab. in ramis vivis *Coprosmæ lucidæ* in horto bot. Senensi, Italia. — Species parasitica solum in epidermide, quæ incanescit et removetur simul ac micromyces se evolvit.

94. *Phoma Bumeliæ* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3380 VIII, 1896 (Microm. III, p. 4) et Rev. Mycol. 1896, pag. 162, tab. CLXIX, fig. 3. — Peritheciis sparsis, epidermide tectis, globosis, contextu atro-fuligineo, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; sporulis navicularibus, 2-nucleatis, hyalinis, $3-5 \times 2$, basidiis longis suffultis.

Hab. in ramulis emortuis *Bumeliæ lycioidis* in horto botanico Senensi Italiæ.

95. *Phoma Camphoræ* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3361 VIII, 1896, p. 64 et Rev. Mycol. 1896, p. 162, tab. CLXIX, fig. 4. — Peritheciis sparsis, prominentibus, epidermide tectis, globosis, atris, membranaceis, $\frac{1}{6}$ mm. diam.; sporulis ellipsoideis, eguttulatis, $2-4 \times 1-1\frac{1}{2}$, hyalinis, basidiis filiformibus suffultis.

Hab. in ramulis emortuis *Cinnamomi Camphoræ* in horto botanico Senensi Italiæ. — Inserenda post *Phomam laurinum* et *laurellam*, quibus est affinis, sed differt peritheciolorum natura et sporulis minoribus, basidiis filiformibus fultis.

96. *Phoma Arctostaphyli* Vestergr. Oefv. K. Vet.-Akad. Förh. 1897, 3362 n. I, p. 37. — Peritheciis in pagina superiore foliorum sparsis v. subgregariis, interdum secundum nervos seriatim dispositis, non maculicolis, hemisphærico-rotundatis, 0,3-0,4 mm. diam., duriusculis, atris, diu epidermide atrata tectis, demum, ea lacerata, vertice prominulis, poro pertasis, textura opaca, indistincta; sporulis $8-11 \times 2$, cylindraceis, utrinque abrupte rotundatis, 2-3-guttulatis, hyalinis, continuis; basidiis filiformibus, simplicibus, hyalinis, 7-9 μ . longis.

Hab. in pagina superiore foliorum **putrescentium** *Arctostaphyli Uvæ-ursi* pr. Visby, ins. Gotland.

97. **Phoma coriacea** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 117. — 3363

Peritheciis sparsis v. gregariis, erumpentibus, coriaceis, globosis, dein depressis, atris, contextu celluloso, fuligineo-viridi, $\frac{1}{2}$ mm. latis; sporulis numerosissimis, hyalinis, cylindraceo-curvulis, 10×3 ; basidiis hyalinis, 15μ . longis.

Hab. in cortice *Daphnes* in Tunisia.

98. **Phoma Stenocarpi** F. Tassi, Rev. Mycol. 1896, p. 161, tab. CLXIX, 3364

fig. 1. — Peritheciis sparsis v. subgregariis, interdum confluentibus, initio tectis, dein erumpentibus, epidermide rupta cinctis, minutis, globoso-depressis, nigris, pertusis, $58-80 \mu$. diam., contextu fuligineo; sporulis fusoides, 2- vel raro 4-guttulatis, hyalinis, $7-9 \times 2-2\frac{1}{2}$, basidiis filiformibus longioribus fultis.

Hab. in ramulis emortuis *Stenocarpi Cunninghami* in horto botanico Senensi Italiae.

99. **Phoma Ichnocarpi** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3365

ser. VIII, 1896, p. 64 et Rev. Mycol. 1896, p. 160 t. CLXVIII, fig. 5. — Peritheciis sparsis, paucis, subepidermicis, regularibus, tenuibus, globulosis, contextu luteo-fusco, $100-140 \mu$. diam.; sporulis ellipsoideis, $5-7 \times 2$, utrinque obtusis, hyalinis, 2-guttulatis.

Hab. in ramulis vivis *Ichnocarpi fragrantis* in horto botanico Senensi Italiae.

100. **Phoma asclepiadea** Ell. et Ev. Field Columb. Mus. IX, 1896, 3366

p. 107. — Peritheciis æqualiter sparsis, subellipticis, $110-120 \mu$. diam., subcuticularibus, epidermide atra tectis; sporulis oblongo-ellipticis, biguttulatis, hyalinis, $5-6 \times 2-2\frac{1}{2}$; basidiis curvatis, $12-15 \mu$. longis.

Hab. in caulibus emortuis *Asclepiadis syriacæ* in W. Virginia Amer bor. (NUTTALL).

101. **Phoma vincetoxicola** P. Brun. Sphærops. Char. 1889, p. 33. — 3367

Maculis elongatis vel indeterminatis, nigris v. nigrescentibus; peritheciis erumpentibus, dein liberis, globosis, nigris, numerosis, perforatis; sporulis ellipticis v. ovoideis, hyalinis, $4-5 \times 2\frac{3}{4}$.

Hab. in fructibus siccis *Vincetoxici laxi*, Rochefort Galliae.

102. **Phoma nerlicola** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 117. 3368

— Maculis nullis; peritheciis hypophyllis, sparsis, $150-200 \mu$. latis, atris, basi insculptis, apice poro lato pertusis; sporulis hyalinis, cylindraceis, rectis, $13-15 \times 3-4$; basidiis gracilibus, æquilongis, evanescentibus.

Hab. in foliis emortuis Nerii Oleandri in Tunisia.

103. **Phoma stictica** B. et Br.-Sacc. Syll. III, p. 89. — var. **buxi-** 3369
carpa Sacc. Malpighia XI, 1897, p. 306. — Sporulis 6-8 \times 2 $\frac{1}{2}$,
 acutis angustatisque; basidiis 12-15 \times 2-3.

Hab. in capsulis Buxi sempervirentis in Italia bor. (CA-
 RESTIA).

104. **Phoma Euphorbiæ** Sacc.-Syll. III, p. 141. — forma **amplior** P. 3370
 Brun. Bull. Soc. Sc. Nat. Nantes IV, 1894, p. 34. — Sporulis
 10 \times 3.

Hab. in caulibus emortuis Euphorbiæ amygdaloidis,
 Corme-Royal in Gallia.

105. **Phoma Allionia** Bres. in Sacc. Fl. mycol. Lus. p. 67. — Peri- 3371
 theciis dense gregariis, primo subepidermicis, dein cortice secedente
 denudatis, globoso-subdepressis, ostiolo pertusis, 100-140 μ . diam.,
 membranaceis, contextu prosenchymatico, luride luteolo; sporulis
 elongatis, hyalinis, 4-6 \times 2-2 $\frac{1}{2}$.

Hab. in caulibus Allionia violaceæ, Coimbra Lusitaniae
 (MOLLER).

106. **Phoma Avellanæ** P. Brun. Act. Soc. Linn. Bordeaux 1890, p. 57 3372
 extr. — Peritheciis habitu Otthia corylinae Karst.; sporulis
 oblongis, continuis, hyalinis, 5-6 \times 2 $\frac{1}{2}$.

Hab. in ramis emortuis Coryli Avellanæ in Gallia.

107. **Phoma glæosporioides** Atk. Bull. Cornell Univ. III, n. 1, 1897, 3373
 p. 30. — Peritheciis epiphyllis. dense sparsis, erumpentibus, ni-
 gris, prominulis, apice latiuscandatisque, contextu celluloso mi-
 nute parenchymatico, 200-300 μ . diam.; sporulis numerosis, hya-
 linis, oblongis, piriformibus, 1-guttulatis, plasmate medio diviso,
 interdum deorsum acutatis, 5-9 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis emortuis Quercus falcatae, Auburn, Alaba-
 ma Amer. bor.

108. **Phoma juglandina** (Fekl.) Sacc.-Syll. III, p. 96. — forma **fruc-** 3374
ticola P. Brun. Bull. Soc. Bot. Fr. 1893, p. 222. — Peritheciis
 globosis, nigris.

Hab. in mesocarpio Juglandis regia, Saintes in Gallia.

109. **Phoma petiolorum** Desm.-Sacc. Syll. III, p. 103. — f. **Pavia** 3375
 P. Brun. Sphærops. Char. 1889, p. 24. — Peritheciis numerosis,
 sparsis vel gregariis, conicis v. globoso-conicis, siccis depressis, te-
 ctis, dein erumpentibus, epidermide cinotis, perforatis; sporulis
 ovoideæ-oblongis, hyalinis, biguttulatis, 7-7 $\frac{1}{2}$ \times 3-3 $\frac{1}{4}$.

Hab. in petiolis exsiccatis Paviae macrostachyæ, Pons

Galliæ. — forma *Juglandis* P. Brun. l. c. p. 25. Peritheciis sparsis, oblongis, tectis, nigris, perforatis; sporulis oblongis, hyalinis, 5-7 \approx 3. — In petiolis dejectis *Juglandis* regiæ, Santes Galliæ.

110. *Phoma Parietariæ* Allesch. Hedw. 1897. p. (160). — Peritheciis 337
 ciis sparsis, epidermide tectis, dein erumpentibus, depresso-globosis, contextu parenchymatico, atro-brunneis, ca. 90-130 μ . diam.; sporulis ovoideis v. oblongo-ovoides, utrinque obtusis, plerumque biguttulatis, unicellularibus, hyalinis, 5-7 \approx 2-2 $\frac{1}{2}$, rarius 10 \approx 2 $\frac{1}{2}$; basidiis filiformibus, 20 \approx 1.

Hab. in caulibus siccis *Parietariæ* officinalis, in horto botan. Berol. (Sxnow). — *Phomæ oleraceæ* Sacc. videtur affinis.

111. *Phoma herbarum* West.-Sacc. Syll. III, p. 133. — forma *Parietariæ* P. Brun. Bull. Soc. Bot. de France 1889. p. 338 — Peritheciis sparsis, globoso-depressis, nigris, minutis, tectis, dein erumpentibus; sporulis ovoideis, hyalinis, 2-guttulatis, 7 \approx 3.

Hab. in caulibus emortuis *Parietariæ* officinalis in Gallia.

112. *Phoma Casuarinæ* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3373
 ser. VIII, 1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 161, tab. CLXVIII, p. 10. — Peritheciis sparsis subseriatis, paucis, globulosis, epidermide velatis, 200-250 μ . diam., late pertusis, contextu luteo-fuligineo; sporulis oblongo-ellipticis, utrinque attenuatis, obsolete 2-vel 4-guttulatis, hyalinis, 6-8 \approx 2-3, basidiis filiformibus, triplo longioribus suffultis.

Hab. in ramulis emortuis *Casuarinæ* equisetifoliæ in horto botanico Senensi Italiae.

113. *Phoma dura* Sacc. Malpighia XI, 1897, p. 306. — Peritheciis 3379
 sparsis, amphigenis, innatis, mox erumpentibus, conicis, duris, nigris; sporulis hyalinis, cylindraceo-curvulis, 5 \approx 1; basidiis fasciculatis, 10-20 \approx 1.

Hab. in foliis emortuis *Abietis pectinatae* in Italia bor. (CARESTIA).

114. *Phoma Abietis-albæ* Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3320
 p. 16. — Peritheciis gregariis, erumpenti-superficialibus, rugulosis, atris; sporulis ovoideis, oblongis ellipticisve, utrinque obtusis v. rotundatis, eguttulatis, hyalinis, 5-7 \approx 1 $\frac{1}{2}$ -3 $\frac{1}{2}$; basidiis nullis?

Hab. in squamis deciduis *Abietis albæ* in Franconia super. bavar. (ROHNFELDER).

115. *Phoma Inconstans* Sacc. Malpighia XI, 1897, p. 306. — Po- 3381

ritheciis subcutaneo-erumpentibus, gregariis, globoso-inæqualibus, aterrimis, nitidulis, $\frac{1}{2}$ -1 mm. diam., obtusis vix papillatis, subinde depresso-collabentibus; sporulis oblongis, curvis, utrinque obtusis, hyalinis; basidiis filiformibus, fasciculatis, 30-35 \times 1 $\frac{1}{2}$.

Hab. in ramis emortuis Juniperi nanæ, Riva-Valdobbia, Italia bor. (CARESTIA).

116. **Phoma Iirelliformis** Sacc. - Syll. III, p. 86. — forma **Spirææ** P. 3382
Brun. Sphærops. Char. 1889, p. 19. — Peritheciis seriatim dispositis, sparsis v. gregariis, lineari-oblongis, innatis v. fissura erumpentibus, sæpe linea stromatica nigra cinctis; sporulis ovoideis, hyalinis, 6-7 \times 2; basidiis curvulis, 15 \times 1 $\frac{1}{2}$.

Hab. in ramulis emortuis Spirææ tomentosæ, Pons Galliæ. — forma **Evonymi** P. Brun. l. c. p. 20. — Peritheciis sparsis v. interdum gregariis, plus minus seriatim dispositis, ligno immersis, sæpe linea stromatica nigra in lignum penetrante cinctis, elongatis v. linearibus, tectis, demum rimose erumpentibus, subhysteriiformibus, nigris; sporulis oblongis v. oblongo-elongatis, rectis, hyalinis, continuis, biguttulatis, 7-8 \times 2. — In ramulis decorticatis **Evonymi europææ**, Saintes Galliæ. — forma **Conyzæ** P. Brun. l. c. p. 20. — Sporulis biguttulatis, hyalinis, oblongo-subfusiformibus, 7-8 \times 3. — In caulibus emortuis Inulæ Conyzæ, Saintes Galliæ.

117. **Phoma Cocoës** Allesch. Hedw. 1897, p. 239. — Maculis parvis, amphigenis, plerumque oblongis, sæpe confluentibus, brunneis, medio expallentibus; peritheciis minutissimis, plerumque hypophyllis, tectis, erumpentibus, nigris; sporulis oblongis, continuis, sæpe biguttulatis, hyalinis, ca. 4-6 \times 1,5-2; basidiis brevibus, ca. ad 10 μ . longis, hyalinis. 3383

Hab. in foliis adhuc vivis Cocoës spec. pr. Goyaz Brasiliæ (GLAZIOU).

118. **Phoma Hohenbergiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena, 4 ser. VIII, 1896, (Microm. III, p. 3) et Rev. Mycol. 1896, 3384
p. 161, tab. CLXVIII, fig. 6. — Peritheciis in partibus foliorum exsiccatis sparsis, globulosis, pertusis, nigris, $\frac{1}{6}$ mm. diam.; sporulis minutis, ovatis, hyalinis, 4 \times 2 $\frac{1}{2}$; basidiis non visis.

Hab. in foliis languescentibus Hohenbergiæ strobilaceæ in horto botanico Senensi Italiae.

119. **Phoma Dioscoreæ** Vestergr. Oefv. K. Vet.-Akad. Förh. 1897, 3385
n. I, p. 38. — Maculis nullis; peritheciis amphigenis, sparsissimis, sæpe nervis oppositis, atris, glabris, basi innatis, hemisphærico-

applanatis, 150-200 μ . diam., membranaceis, ostiolo obscuro, contextu parenchymatico fusco; sporulis 4-5 \times 2, cylindræo-ellipsoideis, utrinque rotundatis, continuis, hyalinis, haud manifeste 3-4-concatenatis; basidiis nullis v. indistinctis.

Hab. in foliis emortuis Dioscoreæ quinquelobæ in horto bot. Upsaliensi, Suecia.

120. **Phoma Lapageriæ** P. Henn. Hedw. 1897, p. 238. — Peritheciis 3396 amphigenis, gregariis, innatis, subgloboso-depressis, atris, 200-300 μ . diam.; sporulis oblongis vel ovoideis, utrinque obtusis, 2 guttulatis, hyalinis, continuis, 4,5-6 \times 3.

Hab. in foliis Lapageriæ spec. pr. Concepcion in Chile (NEGER).

121. **Phoma neglecta** Desm. — Sacc. Syll. III, p. 164. — forma africana 3387 P. Brun. Act. Soc. Linn. Bordeaux, 1888, p. 16 extr. — Peritheciis numerosis; sporulis ovoideis, hyalinis, 4-5 \times 2 $\frac{1}{2}$ -3.

Hab. in culmis Junci maritimi in Tunisia.

122. **Phoma heterospora** Speg. Rev. Agr. y Veter. La Plata 1896, 3388 p. 239. — Maculis pallidis, indeterminatis sæpe totum folium ambientibus; peritheciis sæpius hypophyllis, densiuscule gregariis, parenchymate immersis, lenticularibus, 150-180 μ . diam., ostiolo lætiusculo (20 μ . diam.) impresso pertusis, atris, tenui-membranaceis, contextu grosse parenchymatico fusco-fuligineo; sporulis dimorphis, aliis elliptico-subglobosis utrinque obtuse rotundatis, 10-12 \times 6-8, eguttulatis, hyalinis, aliis minus numerosis fusoides, utrinque obtuse acutatis atque minute 1-guttulatis, concoloribus.

Hab. in foliis juvenilibus adhuc convolutis, frigore hiemali enacatis, Sacchari officinarum, La Plata, Argentina.

123. **Phoma Drygalskii** Allesch. in Allescher et P. Hennings, Pilze 3389 aus dem Umanakdistrikt. 1897, p. 12. — Peritheciis minutissimis, innatis, erumpentibus, nigris; sporulis cylindræis, utrinque obtusis, leniter curvulis, plerumque biguttulatis, hyalinis, ca. 5-6 \times 1-2; basidiis fasciculatis, dichotomo-ramosis (?), hyalinis, ca. 20-30 \times 1 $\frac{1}{2}$.

Hab. in foliis culmisque emortuis Poæ flexuosæ var. elongatæ pr. Amitsuatsiakfjord (v. DRYGALSKI) et Karajak Groenlandiæ (VANHÖFFEN).

124. **Phoma insidiosa** F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena 3390 1898, fasc. I, p. 8, tab. IX, fig. 8. — Maculis cinereo-albicantibus epidermidem seminum late ambientibus; peritheciis sparsis v. subgregariis, piceis, immersis, primo epidermide tenuissima subvelatis, ostiolo late pertusis, 70-80 μ . diam.; sporulis immersis, ellipticis,

initio continuis, tarde minute 2-guttulatis v. granulosis, hyalinis, $6 \times 2-2\frac{1}{2}$.

Hab. in seminibus Sorghi vulgaris. Dourah ex Abyssinia.

125. *Phoma Litoris* Sacc. Bull. Soc. Myc. 1896, p. 70, t. VI, f. 6. 3391

— Peritheciis hinc inde dense gregariis, innatis, vix erumpentibus, globulosis, vix papillatis, $\frac{1}{3}-\frac{1}{6}$ mm. diam., nucleo farcto, roseo; sporulis fuscoideis, rectis, utrinque acutatis, $10-12 \times 3$, bi-quadriguttatis, hyalinis; basidiis bacillaribus, fasciculatis, 6×1 .

Hab. in culmis putrescentibus Phragmitis communis, Venetia, Italia.

126. *Phoma Strelitziae* Thüm. — Sacc. Syll. III, p. 162. — Var. *major* 3392

F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4^a ser. VIII, 1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 163, t. CLXIX, f. 12. — Peritheciis 125-150 μ . diam.; sporulis cylindraceis, rectis, utrinque obtuse rotundatis, $6-8 \times 2-2\frac{1}{2}$, obsolete 2-guttulatis, hyalinis.

Hab. in apicibus foliorum exsiccatis Strelitziae Reginae in horto botanico Senensi Italiae.

127. *Phoma Platycerii* F. Tassi, Bull. del Lab. Bot. d. R. Univ. 3393

Siena, 1898 tasc. I, p. 9, tab. X, fig. 3. — Peritheciis late sparsis, globulosis, epidermide tectis, prominulis, 200-250 μ . diam., nigris; sporulis navicularibus regulariter vel inordinate 2 4-6-guttulatis (gu. his refringentibus magnitudine variis), $6-7 \times 2-2\frac{1}{2}$, hyalimis; basidiis filiformibus, duplo longioribus fultis.

Hab. in facie inferiori frondium Platycerii alcyonaris in horto bot. Senensi, Italia.

128. *Phoma Renbarum* West. — Sacc. Syll. III, p. 133. — Var. *Euphor-* 3394

bix-Reyonianae Pat. Cat. rais pl. cell. Tunisie 1897, p. 116. — Peritheciis numerosis, minutis, 100 μ . diam., globosis, nigris, primo tectis, dein tiberis, macula grisea circumscriptis; sporulis hyalinis, rectis v. curvulis, utrinque attenuatis, 2-guttulatis, $9-11 \times 3-4$.

Hab. in caulibus siccis Euphorbiae Guyonianae in Tunisia.

— Var. *Tylostomatis* Pat. l. c. — Peritheciis dense gregariis, numerosis, dein superficialibus, globosis, 100-180 μ . diam., nigris, poro pertusis, basi fibrillis mucedineis, nigris, septatis, subtorulosis, circumdatis; sporulis hyalinis, ovoideis, $6-7 \times 3-4$, rectis, numerosissimis, in cirros gelatinosos protrusis; basidiis minutissimis — In peridio Tylostomatis involvulati in Tunisia.

129. *Phoma parasitica* Ell. et. Ev. — Sacc. Syll. X, p. 188. — Var. 3395

Tapiirinae — Prati Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 16. — Peritheciis sparsis, minutis, epidermide tectis, erumpentibus, fusco-

nigris; sporulis oblongo-ovoideis v. oblongis, interdum subinæquilateralibus, rarius biguttulatis, hyalinis, 7-10 \approx 3-4.

Hab. parasitica ad Taphrinam Pruni in Bavarie super

130. **Phoma ossicola** Rostr. Bot. Tidsskr. 1897, p. 48. — Peritheciis 3396
sparsis v. subgregariis, erumpentibus, lenticularibus, papillatis;
sporulis oblongatis, 10-12 \approx 3-4, hyalinis, biguttulatis.

Hab. in ossibus in Dania

131. **Phoma Sanguisorbæ** Allescher Pilze Deutschl. VI, p. 316. Sic
nominanda est *Phoma Poterii* Fautr. in Syll. XI, p. 489, quum
exstet anterior *Ph. Poterii* Pass. in Syll. X, p. 171.

132. **Phoma sordidula** Sacc. et Syd. Sic nominanda est *Phoma sor-*
dida Sacc. in Syll. III, p. 99, quum exstet anterior *Ph. sordida*
Dur. et Mont. in Syll. III, p. 144.

133. **Phoma appianata** Sacc. et Syd. in Allesch. Pilze Deutschl. VI,
p. 351. Sic nominanda est *Phoma planiuscula* Karst. in Syll. X,
p. 147, quum exstet anterior *Ph. planiuscula* Sacc. in Syll. III, p. 99.

134. **Phoma confluentula** Sacc. et Syd. Sic dicenda est *Phoma con-*
fluens Karst. et Har. in Syll. X, p. 157, quum exstet anterior *Ph.*
confluens B. et C. in Syll. III, p. 80.

135. **Phoma parvispora** Sacc. et Syd. Sic dicenda est *Phoma micro-*
sperma Karst. in Syll. XI, p. 493, quum exstet anterior *Ph. mi-*
rosperma Preuss. in Syll. III, p. 142.

136. **Phoma Saccardoana** Syd. Sic nominanda est *Phoma occulta*
Sacc. in Syll. III, p. 150, quum exstet anterior *Ph. occulta* Desm.
in Syll. III, p. 164.

137. **Phoma Bryoniæ** Sacc. et Syd. in Allescher Pilze Deutschl. VI,
p. 276. Sic nominanda est *Phoma tecta* Pass. in Syll. X, p. 172,
quum exstet anterior *Ph. tecta* Pass. in Syll. X, p. 140.

138. **Phoma vexans** Sacc. et Syd. Sic nominanda est *Phoma Solani*
Halst. in Syll. XI, p. 490, quum exstet anterior *Ph. Solani* Cke.
et Harkn. in Syll. X, p. 175.

MACROPHOMA (Sacc.) Berl. et Vogl. — Syll. X, p. 189, XI, p. 495.

1. **Macrophoma Phyllerium** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3397
p. 17. — Maculis irregularibus, epiphyllis, confluentibus, subtus a
Phyllerio acerino Fr. invasis; peritheciis epiphyllis, minutis, erum-
pentibus, dense gregariis, nigris; sporulis oblongis v. oblongo-cy-
lindræis, sæpius eguttulatis, utrinque attenuatis, continuis, 12-18
 \approx 2 $\frac{1}{2}$ -3; basidiis filiformibus, hyalinis.

Hab. in pagina superiore foliorum *Aceris Pseudoplatæ*

ni, subtus a *Phyllerio acerino* pervasorum, in Franconia super. (ROHNFELDER).

2. **Macrophoma Paniculatæ** (Ell. et Dearn.) Sacc. et Syd. *Phoma pa-* 3398
niculatæ E. et D. Proc. of the Canad. Inst. 1897, p. 91. — Peritheciis sparsis, convexo-hemisphaericis, circ. $\frac{3}{4}$ mm. diam., epidermide initio bullata et atrata dein rupta velatis; sporulis oblongis, 20-30 \times 8-10, utrinque rotundatis, hyalinis, granulosis.

Hab. in ramis emortuis Corni paniculatæ, London, Canada.

3. **Macrophoma Decosteæ** (P. Henn.) Sacc. et Syd. *Phoma Decosteæ* 3399
P. Henn. Hedw. 1897, p. 238. — Peritheciis amphigenis, subcutaneis, dein erumpentibus, subcoriaceis, subglobosis, gregariis, atris; basidiis filiformibus, hyalinis, basi fasciculatis; sporulis oblongis vel ovoideis, apice obtusis, 2-3-guttulatis, hyalinis, 14-19 \times 7-8.

Hab. in foliis emortuis Decosteæ scandentis pr. Concepcion in Chile (NEGER).

4. **Macrophoma acaciæcola** Pat. Cat. rais. pl. cell. Tunisie 1897, 3400
p. 118. — Peritheciis hypophyllis, subglobosis, gregariis, 130-200 μ , latis, contexta celluloso-fuligineo, coriaccello, nucleo albo; sporulis hyalinis, ovoideis, intus granulosis, 18-20 \times 6-8.

Hab. in phyllodiis Acaciæ in Tunisia.

5. **Macrophoma Diospyri** Earle, Bull. Torr. Bot. Cl. 1897, p. 30. — 3401
Dense sparsa, magnas areas indeterminatas occupans; peritheciis innatis, epidermidem in pustulas prominulas elevantibus, demum partim erumpentibus ac epidermide fissa cinctis, magnis, ostiolo distincto perforatis, atro-brunneis, 200 μ . diam.; sporulis cylindraceis, interdum leniter curvulis, utrinque abrupte acutatis, in cumulo subolivaceis, intus homogeneis, non guttatis nec granulosis, circiter 20 \times 3; basidiis filiformibus, sporulam non æquantibus, massam agglutinatam nebulosam formantibus.

Hab. in foliis immaturis et dejectis Diospyri virginianæ pr. Auburn, Alabama Amer. bor. (UNDERWOOD).

6. **Macrophoma Stephanotidis** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3402
4 ser. VIII, 1896, pag. 6 extr. et Rev. Mycol. 1896, pag. 164, tab. CLXX, fig. 2. — Peritheciis sparsis, primum tectis, prominulis, dein erumpentibus subsuperficialibus, nigris, pertusis, 100-120 μ . diam.; sporulis magnis, 14-16 \times 4, elliptico-oblongis, initio irregulariter pluriguttulatis, demum plus minusve irregulariter 2-nucleatis, hyalinis.

Hab. in ramulis siccis Stephanotidis floribundæ in horto bot. Siena, Italiæ.

7. **Macrophoma Coffeæ** (Delacr.) Sacc. et Syd. *Phoma Coffeæ* Delacr. 3403
Bull. Soc. Mycol. de France XIII, 1897, p. 122, tab. X, fig. A.
— Peritheciis discretis, nigris, erumpentibus, circiter 165 μ . diam.,
poro subfimbriato, 18 μ . lato, pertusis; mycelio brunneo, ramoso;
sporulis hyalinis, fusioideis, rectis, 16-18 \times 2,5-3; basidiis 5 \times 1,5.

Hab. in ramulis emortuis Coffeæ arabicæ in ins. Reunion
Africae.

8. **Macrophoma cylindrospora** (Desm.) Berl. et Vogl.-Sacc. Syll. X, 3404
p. 203. — f. *Vincæ* Fautr. Rev. Mycol. 1896, p. 143. — Maculis
rotundatis v. magnam foliorum partem occupantibus; peritheciis
gregariis nigris, innatis, ostiolo conico prominulis; sporulis cylin-
draceis rectis v. curvulis, guttulatis, 20 \times 6; basidiis fasciculatis.

Hab. in foliis Vincæ majoris in Gallia.

9. **Macrophoma Achyranthis** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3405
4 ser. VIII, 1896 (Microm. III, p. 6) et Rev. Mycol. 1896, tab.
CLXX, fig. 1. — Peritheciis subsparsis, nigris, $\frac{2}{3}$ mm. diam.,
nucleo albo; sporulis oblongo-cylindraceis, utrinque rotundatis, in-
terdum medio leniter constrictis, hyalinis, 2-pluriguttulatis v. gra-
nuloso farctis, 16-17 \times 4-5, basidiis obsolete fultis.

Hab. in caulibus exsiccatis Achyranthis Verschaaffeltii,
in horto botanico Senensi Italiae.

10. **Macrophoma nervicola** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3406
p. 286. — Peritheciis innatis, apice suberumpentibus 80-120 μ .
diam., interdum binis v. trinis subconfluentibus; sporulis oblongo-
fusioideis, hyalinis, 14-21 \times 6-8.

Hab. ad nervos foliorum Quercus albæ, Wisconsin Amer.
bor. (DAVIS).

11. **Macrophoma leucorrhodia** Sacc. Bull. Soc. Myc. de Fr. 1896, 3407
p. 67, tab. VI, fig. 3. — Peritheciis gregariis, subcutaneis, glo-
bulosis, vix papillatis, atris, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., intus farctis, albo-
roseis; sporulis ellipsoideis, obtusis, 27-30 \times 12-15, e roseo hyalinis;
basidiis bacillaribus, 36 \times 3-4, hyalinis.

Hab. in ramis corticatis emortuis Ulmi campestris, Rignay
Galliae (FLAGEOLET). — Affinis *M. Scheidweileri*, *M. Fraxini*, *M.*
sabicarica sed nucleus roseus, basidia longiuscula etc.

12. **Macrophoma cylindrospora** (Desm.) Berl. et Vogl.-Sacc. Syll. X, 3408
p. 203. — **Populi* Sacc. Rev. Mycol. 1897, p. 53. — Peritheciis
hypophyllis, gregariis, applanatis, atro-nitidis; sporulis hyalinis,
simplicibus, cylindraceis, rectis, 20-22 \times 2; basidiis brevibus.

Hab. in foliis Populi nigrae in Gallia.

13. **Macrophoma Sydowiana** (Bres.) Sacc. et Syd. *Phyllosticta Sydowiana* Bres. Hedw. 1897, p. (160). — Maculis nullis; peritheciis amphigenis, sed generatim hypophyllis, hinc inde dense maculiformiter aggregatis, punctiformibus, nigris, 90-120 × 80-100, prominulis, globoso-obovatis, contextu ex cellulis polygonalibus conflato, ore lato, 30-36 × 20-30, pertusis; sporulis elongato-clavulatis, hyalinis, 16-20 × 2 1/2-3 1/2.
- Hab.* in foliis emortuis Betulæ albæ pr. Berolinum Germaniæ (SYDOW).
14. **Macrophoma excelsa** (Karst.) Berl. et Vogl. — Sacc. Syll. X, 189. — 3410
forma *Cotyledonum* Vuill. Bull. Soc. Myc. de Fr. 1896, p. 39. — Peritheciis gregariis, erumpentibus, globosis, astomis, aterrimis, 80-165 × 75-130; sporulis obtuse ellipsoideis, 16-20 × 8-9, hyalinis, granulis faretis; basidiis nullis.
- Hab.* in pagina superiore foliorum seminalium emortuorum Abietis pectinatæ, in Vogesis Gallie (MER).
15. **Macrophoma Araucariæ** Delacr. Bull. Soc. Mycol. de France XIII, 3411
1897, p. 105, tab. VIII, fig. B. — Peritheciis ostiolatis, nigris, 500-600 × 600-700, contextu celluloso, sursum stromatoideo setas brunneas, septatas, paullum divaricatas, deorsum sensim attenuatas decoloratasque, ad basim 5 µ. latas gerente; mycelio brunneo, septato, 5 µ. lat. circiter; basidiis cylindraceutis, 15 × 4; sporulis hyalinis, intus granuloso-guttulatis, ellipticis, hyalinis, 25-30 × 12-15,5, episporio usque 2 µ. crasso.
- Hab.* in folijs extremis, quæ enecat, ramorum Araucariæ imbricatæ, Landerneau (Finistère) Gallie.
16. **Macrophoma purpurascens** Pat. Cat. rais. pl. cell. Tunisie 1897, 3412
p. 118. — Maculis carneis, latis; peritheciis sparsis, erumpentibus, atris, globosis, 1/2 mm. latis; sporulis hyalinis, ellipsoideis, grosse 2-guttulatis, 20-22 × 6-7.
- Hab.* in foliis putridis Asphodeli in Tunisia. — Habitu externo *Epicocci purpurascens* Ehrbg.
17. **Macrophoma Cavaræ** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, 3413
p. 11 extr. tab. III, fig. 16, 17. — Peritheciis innato-erumpentibus, majusculis, nigris, sparsis, ostiolo pertusis; sporulis elongato-ellipticis, hyalinis, granulosis, nucleatis, 36-39 × 13,5.
- Hab.* in foliis Yuccæ Draconis et Dasyliirii longifolii in Italia bor.
18. **Macrophoma rhabdosporioides** Lamb. et Fautr. Rev. Mycol. 1896, 3414
p. 69. — Peritheciis numerosis, seriatim dispositis, depressis, elon-

gatis, irregularibus, epidermidem leviter nigrefacientibus; sporulis cylindræis, rotundatis, hyalinis, simplicibus, granulosis, $20-26 \times 6$; basidiis brevibus.

Hab. in foliis Iridis fœtidissimæ in Gallia.

AOSPHÆRIA Berk. — Syll. III, p. 169, X, p. 205, XI, p. 497.

1. **Aposphæria inophila** (Berk.) Sacc. - Syll. III, p. 175. — var. **Pseudoplatani** Allesch. Hedw. 1895, p. 261. — Peritheciis superficialibus, confertis, sæpe concretescentibus, depresso-semiglobosis v. conicis, papillatis, poro pertuis, atris subnitidulis, magnitudine varia; sporulis oblongis, minutissimis, rectis, utrinque obtusis, hyalinis, $3-5 \frac{1}{2} \times \frac{1}{2}-1 \frac{1}{2}$.

Hab. in ramulis decorticatis Aceris Pseudoplatani in Bavaria australi.

2. **Aposphæria Lampsanæ** Allesch. Hedw. 1895, p. 261. — Peritheciis gregariis v. sparsis, subsuperficialibus, basi in ligno insculptis, subglobosis, oblongis v. variis, nitidulis, plerumque in lineas dispositis, atris; sporulis oblongis, utrinque obtusis, continuis, biguttulatis, hyalinis, magnitudine valde variis, ca. $5-9 \times 3-5$; basidiis non visis.

Hab. in caulibus decorticatis Lampsanæ communis in Bavaria australi (SCHNABL).

3. **Aposphæria condensata** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 463. — Peritheciis superficialibus, dense gregariis, depressoglobosis, $150-250 \mu$. diam., ostiolo late papilliformi nigro nitido ornatis, interdum collabentibus; sporulis minutis, allantoideis, hyalinis, $2 \frac{1}{2}-3 \times \frac{1}{2}-\frac{2}{4}$.

Hab. in caulibus emortuis Bigeloviæ, Colorado Amer. bor. — *A. allantellæ* Sacc. et *A. alpigence* Ell. et Ev. affinis.

4. **Aposphæria Amaranti** Ell. et Barth. Erythea 1896, p. 4. — Peritheciis gregariis, superficialibus, globosis v. subovato-globosis, supra mox depressis v. collabentibus, circiter $\frac{1}{2}$ mm. diam., primo tomento tenui, brunneo, granuloso, mox evanescente tecto, nigris; ostiolo papilliformi, perforato; sporulis ovato-ellipticis v. subglobosis, luteolo-hyalinis, grosse 1-nucleatis, $12-15 \times 10$.

Hab. in caulibus emortuis Amaranti retroflexi, Kansas Amer. bor. (BARTHOLOMEW).

5. **Aposphæria quercina** Jacz. Bull. Soc. Mycol. de France 1896, p. 104. — Peritheciis globosis, epiphyllis, majusculis, sparsis, irregularibus, maculis decoloribus insidentibus; sporulis hyalinis, unicellularibus, ovoideis, oblongis, $5-6 \times \frac{1}{2}-1$.

Hab. in foliis exsiccatis *Quercus* in Helvetia. — Pycnidium sistit *Sphærellæ quercinæ* Jacz.

6. **Aposphæria nucicola** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 287. 3420

— Peritheciis superficialibus, gregariis, sæpe aggregatis ac subconnatis, ovatis, glabris, supra nigris, ostiolo distincto papilliformi; sporulis ellipticis, hyalinis, $2\frac{1}{2}$ - $3\frac{1}{2}$ \times $1\frac{1}{4}$ - $1\frac{1}{2}$.

Hab. in nucibus vetustis ac dejectis *Caryæ*, Newfield N. J. Amer. bor.

7. **Aposphæria Abietis** Brun. Espèces et var. nouv. 1887, p. 1, extr. 3421

in Journ. de Bot. 1887, Juillet. — Peritheciis sparsis v. approximatis, minutis, globulosis, nigris, perforatis, superficialibus; sporulis subglobosis v. ovoideis, hyalinis, 3-4 \times 2,5.

Hab. in facie interiore squamarum strobili *Abietis* Morindæ, Rochefort Galliæ.

8. **Aposphæria ohioensis** Ell. et Ev. Proc. Acad. Philad. 1895, p. 431. 3422

— Peritheciis gregariis, depresso-globosis, minutis, 150 μ ., papillatis; sporulis oblongo-ellipticis, continuis, hyalinis, $2\frac{1}{2}$ -3 \times 1; basidiis firmis, fasciculatis, 10-12 \times $1\frac{1}{2}$ -2, apice subacuminatis.

Hab. in ligno putrido, Ohio, Amer. bor. (MORGAN).

9. **Aposphæria? Bergii** Speg. Rev. Agr. y Veter. La Plata 1896, 3423

p. 240. — Maculis nullis v. vix fusciscentibus indeterminatis amphigenis; peritheciis amphigenis sæpius numerosissimis, gregariis sed rarius constipatis, minutis, 150-250 μ . diam., superficialibus, e globoso ovatis, sæpius acute papilla¹ ostiolatis, atris, membranaceis, in juventute pilis paucis gracilibus, acutis, simplicibus, non septatis, basi non inflatis, 40-100 \times 2-5, fumosis, levibus, patentibus, adpersis, per ætatem nudis, contextu grosse parenchymatico inferne olivaceo, superne etiam olivaceo v. subvinoso, plus minusve distincto donatis; sporulis ellipsoideis, 5-7 \times 3, utrinque obtusis, rectis, levibus, eguttulatis.

Hab. ad folia juvenilia adhuc convoluta, nec non in foliis dejectis virentibus Sacchari officinarum, prov. Tucuman, Argentina. — Potius *Pyrenochaeta*.

10. **Aposphæria cruenta** Vestergr. Oefv. K. Vet.-Akad. Förh. 1897, 3424

n. I, p. 38. — Mycelio maculas intense sanguineas, plus minusve late effusas per hyphas eseptatas, numerosas, longas, 3 μ . latas formante; peritheciis in maculis sparsis, nudo oculo subinconspicuis, superficialibus, sphæroideis, 90-125 μ . diam., apice poro minuto pertusis, subcarbonaceis, contextu solidiusculo, membranaceo, obscuro, atro-brunneo; sporulis minutissimis, numerosis, cylindra-

ceo-oblongis, 3-4 \times 0,75, vel sphæroideis, 3 μ . diam., hyalinis, continuis, eguttulatis; basidiis nullis.

Hab. in superficie truncorum Betularum in Gotlandia. —

Trunci videntur mycelio velut sanguine fœdati. Species egregia.

11. **Aposphæria parasitica** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3425
p. 17. — Peritheciis superficialibus, minutissimis, sparsis, globosis, contextu celluloso, fusco-nigro, circiter 26-40 μ . diam.; sporulis numerosissimis, ovalibus v. ovoideis, minutissimis, eguttulatis, hyalinis, 4-5 \times 3; basidiis nullis.

Hab. parasitica ad Taphriam Betulæ in foliis vivis Betulæ verrucosæ pr. München Baviaræ. — A *Phoma parasitica* peritheciis superficialibus et sporulis minoribus differt.

12. **Aposphæria pulicaris** Sacc. Reliq. Lib. II, p. 10, n. 211, in Rev. 3426
Mycol. 1881 (*Phoma*). — Peritheciis globoso-conoideis, minutis, contextu fuligineo; sporulis oblongis, curvulis, 4 \times 1,5, hyalinis.

Hab. in acervulis Gibberellæ pulicaris ad ramos Sambuci nigræ in Arduennis (LIBERT). — Non videtur status secundarius *Gibberellæ*, nam recedit contextu fuligineo, nec cyaneo.

13. **Aposphæria Glaziovii** Allesch. Hedw. 1897, p. 239. — Peritheciis 3427
superficialibus, minutissimis, subglobosis, nigris; sporulis ovalibus v. oblongis, continuis, hyalinis, utrinque rotundatis, eguttulatis, ca. 4-8 \times 2-4.

Hab. ad Asterellam Glaziovii P. Henn. in foliis Myrtaceæ cujusdam pr. Goyaz Brasiliæ (GLAZIOU).

14. **Aposphærie Boudieri** Roll. Bull. Soc. Myc. de Fr. 1896, p. 6, 3428
tab. II, fig. 2. — Peritheciis gregariis, rotundis, nigris, nitidis, crassis, ostiolo minimo pertusis, $\frac{1}{2}$ mm. latis; sporulis ovatis, hyalinis, 3-4 μ .; basidiis rectis, hyalinis, circiter 10 μ . longis.

Hab. in cortice Posidonie oceanicæ, Golfe Juan Gallie. — Peritheciis multo minoribus ab *Amphisphærica biturbinata* et *A. Posidonie* facile dignoscitur.

15. **Aposphæria Cladonie** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3429
p. 32. — Peritheciis laxè gregariis, erumpenti-superficialibus, basi infossis, in pagina super. et infer. thalli, globosis, atris, non distincte papillatis; sporidis oblongis, continuis, hyalinis, 8-10 \times 4.

Hab. in thallo Cladonie fimbriatæ pr. München Baviaræ.

DENDROPHOMA Sacc. — Syll. III, p. 178, X, p. 209, XI, p. 498.

1. **Dendrophoma Carestie** Bres. Malpighia XI, 1897, pag. 307. — 3430
Peritheciis membranaceis, globoso-ellipsoideis, depressis, 150-200

✓ 150, poro pertusis, contextu parenchymatico, erumpentibus, epidermide circa ostiolum nigrificata; basidiis ramosis, usque ad 30 longis, 2-3 μ . latis; sporulis cylindraceutis, 8-10 \times 2.

Hab. in foliis Aceris Pseudoplatani Valsesia It. (CARESTIA).

2. *Dendrophoma microsporella* F. Tassi, Atti R. Acc. dei Fisiocr. 3431
Siena 4 ser. VIII, 1896, p. 6 extr. et Rev. Mycol. 1896, p. 164, tab. CLXX, fig. 3. — Peritheciis sparsis, innato-prominulis, globulosis, 100-150 μ . diam., contextu atro-brunneo; sporulis numerosissimis, exiguis, cylindraceutis v. oblongo-ellipticis, utrinque rotundatis, 2-2 $\frac{1}{4}$ \times $\frac{2}{3}$, indistincte 2-nucleolatis, hyalinis, basidiis verticillato-ramosis, acicularibus fultis.

Hab. in ramulis emortuis Diospyri Loti in horto bot Senensi Italiae.

3. *Dendrophoma caespitosa* Sacc. Malpighia 1896, p. 272, tab. V, 3432
fig. 6. — Peritheciis innato-erumpentibus, hinc inde pluribus v. paucis in caespitulos peridermio cinctos collectis, globulosis, atornitidis, vix papillatis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., duriusculis; basidiis fasciculatis, filiformibus, 20-35 \times 2, septatis, lateraliter alterne ramosis, ramulis brevissimis; sporulis cylindraceutis, rectis, 3-4 \times 0,5, hyalinis.

Hab. in ramis corticatis Salicis et Viburni in Sibiria. — Affinis *D. pleurospora* sed peritheciis subsuperficialibus, caespitosis distincta.

4. *Dendrophoma striiformis* Alch. Ber. Bayr. Bot. Ges. IV, 1896, 3433
p. 32. — Peritheciis innatis, erumpentibus, seriatim in strias longas inter ligni fibras dense dispositis, membranaceis, papillatis, atrofuscis; sporulis cylindraceutis, curvulis, continuis, utrinque obtusis, hyalinis, 6-8 \times 1-1 $\frac{1}{2}$; basidiis verticillato-ramosis, hyalinis, guttulatis, 30-40 \times 2-2 $\frac{1}{2}$; ramulis 1 μ . crassis.

Hab. in ramulis decorticatis Fraxini excelsioris pr. München Bavariae.

5. *Dendrophoma Symphoricarpi* Vestergr. Jahreskatalog der Wiener 3434
Kryptog. Tauschaustalt 1897, p. 4. — Peritheciis peridermio tectis eoque relaxato liberis, sparsis vel 2-3 confertis, subglobosis, coriaceis, atris, nitidis, intus albidis, obscure papillatis, interdum apice pertusis, demum irregulariter rugoso-subcollapsis, circ 8 μ . diam., membrana compacta, impellucida, non parenchymatica; sporulis bacillaribus, utrinque rotundatis, spurie guttulatis, hyalinis, 9-13 \times 2, sterigmatibus ramosissimis, 40-50 μ . longis; ramis vage insertis vel subverticillatis, hyalinis, 1,5-2 μ . latis.

Hab. in ramulis mortuis *Symphoricarpi racamosi* in Suecia. — A. *Phoma Ryckholtii* Sacc. sporulis bacillaribus, sterigmatibus ramosis etc. plane diversa.

6. *Dendrophoma Bellidiastri* Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3435
p. 32. — Peritheciis sparsis, minutissimis, epidermide tectis, dein erumpentibus, globoso-depressis, papillulatis, fuscis; sporulis ovoideis v. oblongis, utrinque obtusis rotundatisve, continuis, sæpe 1-2-guttulatis, hyalinis, $3\frac{1}{3}$ -5 \times $1\frac{1}{2}$ -2 $\frac{1}{2}$; basidiis verticillato-ramosis, hyalinis.

Hab. in scapis emortuis *Bellidiastri Michellii*, Oberammergau Baviariæ.

7. *Dendrophoma clypeata* D. Sacc. Malp. 1898, p. 218, t. VIII, f. 11 3436
et Mycotl. Ital. n. 139. — Maculis epiphyllis, inæqualibus, brunneo-marginatis, in pagina inferiore ochraceis; peritheciis sparsis, subcutaneis, globoso-lenticularibus, clypeolos atro-nitidos, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam. imitantibus; ostiis obsolete rimose dehiscentibus; sporulis allantoides, curvulis, 4-5 \times 1, biguttulatis, hyalinis, acrocladogenis; basidiis filiformibus, dense fasciculatis, 18-25 \times 2, hyalinis, lateraliter breve ramulosis.

Hab. in foliis adhuc vivis v. languidis *Cycadis revolutæ*, in horto bot. Patavino. — Species *Cycadi* noxia, forma peritheciorum clypeata mox distincta.

8. *Dendrophoma Poarum* E. et Dearn. Proc. of the Canad. Inst. 1897, 3437
p. 92. — Peritheciis erumpenti-superficialibus, conico-hemisphæricis, papillatis, 150-200 μ . diam.; sporulis oblongo-fusoideis, hyalinis, utrinque minute 1-nucleatis, 10-12 \times 2-2,5 in basidiis dichotome ramosis, 20 \times $1\frac{1}{2}$ acropleurogenis.

Hab. in culmis et inflorescentia *Poæ annuæ*, London, Canada.

PLENODOMUS Preuss — Syll. III, p. 184, X, p. 213.

1. *Plenodomus Erythrinæ* Oud. Konink. Akad. Wetensch. Amsterdam. 3438
1897, p. 227, cum fig. — Pustulis in rimis trunci seriatim dispositis, rarius solitariis, numerosis, nigris, variæ dimensionis, maximis 1-3 mm. diam.; structura pustularum pseudoparenchymatosa, e cellulis polyhedricis composita; cellulis subsuperficialibus in hyphas concolores plus minusve articulatas, ramosas elongatis; cellulis pseudoparenchymatosis cavernas versus elongatis, sed tandem dimidio minoribus; cavernis ellipticis, 140 \times 70, sporulis repletis; sporulis basidiis suffultis, hyalinis, minutis, ellipticis, continuis, utrinque rotundatis, medio non constrictis, 23 \times 12 vel 19 \times 10,

protoplasmate subtiliter granuloso; basidiis hyalinis, 5-8 μ . longis.

Hab. in truncis *Erythriæ javanicæ* in Java. — Habitu externo *Cucurbitariam elongatam* optime simulat.

2. *Plenodomus Gallarum* (Lév.) Oud., *Tubercularia Gallarum* Lév. 3439

Ann. d. Sc. nat. 3, S. V, p. 273; *Dothiora Gallarum* Oud. Versl. en Med. Kon. Ak. v. Wet. XVIII, p. 371. — Pustulis plurimis nigris variæ dimensionis e superficie gallarum inter epidermidis ruptæ laciniis dentiformes emergentibus, majoribus semiglobosis, 1 mm. latis, cum aliis, partim minoribus, partim maximis, e duabus vel pluribus globulis conflatis ideoque forma parum irregulari insignibus, mixtim viventibus; superficie omnium obscure nitente, majorum insuper verruculis prominentibus (non autem peritheciorum ostiolis) inæquali; cavitate pluri-vel 1-loculari; cavernarum ambitu toto basidiis subtilissimis oblecto, singulis sporula hyalina, continua onustis; sporulis oblongis, 20 \times 7-8, utrinque obtusis, basi excentrice cicatrisatis.

Hab. in superficie gallarum maturarum a pagina inferiore foliorum *Quercus Roboris* in terram delapsarum, in Hollandia (BEYERINCK). — Natura pustularum ceracea; cultro facillime cedunt et in laminas tenuissimas, infra epidermidem nigram coloris expertes, se scindi sinunt; plurimis itaque notis cum solerotiorum carne comparandæ; centrum pustularum, columellæ ad instar, occupat axis pseudoparenchymatosa, septa plurima vulgo peripheriam versus emittens, ita ut spatium columellam inter et superficiem pustularum in plurima loculamenta dividatur; obtinet vero aliquando quod septa deficient, quo in casu spatiorum minorum locum tenet caverna unica major orbicularis.

3. *Plenodomus herbarum* Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 17. 3440

— Peritheciis sparsis, erumpenti-superficialibus, hemisphæricis, basi subapplanatis, astomis, dein irregulariter ruptis et secedentibus, cinereo-nigricantibus, subnitidulis, contextu celluloso, fusco-nigro, circiter 150 μ . diam. et ultra; sporulis numerosissimis, oblongis, utrinque rotundatis, continuis, plerumque 1-guttulatis, — hyalinis, 6-7 \times 2 $\frac{1}{2}$; basidiis non visis.

Hab. in foliis putridis *Convallariæ majalis*, socia *Sphærella brunneola* et *Septoria brunneola* in Franconia super. (ROHN-FELDER).

MYCOGALA Rost. — Syll. III, p. 185, XI, p. 499

1. *Mycogala firmum* Karst. Hedw. 1896, p. 47. — Peritheciis soli- 3441

tariis v. 2-3 aggregatis, maculis vagis, fulvescentibus, arescendo fuscescentibus, pallido-marginatis insidentibus, superficialibus, carbonaceis, firmis, rotundatis, astomis, dein inordinate dehiscentibus, nucleo pallido-flavo, demum pulveraceo, nigris, c. 0,3 mm. latis; sporulis sphæroideis, pallide flavis, coacervatis sulphureis, levibus, 3-4 μ . diam.

Hab. in foliis vivis Palmarum, Petropoli Rossia.

SPHÆRONÆMA Fr. — Syll. III, p. 185, X, p. 213, XI, p. 499.

1. **Sphæronæma infuscans** Ell. et Ev. Field Columb Mus. IX, 1896, 3442 p. 109. — Peritheciis gregariis erumpenti-superficialibus, hemisphæricis, brunneo-nigris, $\frac{1}{4}$ mm. circiter diam., ostiolo breve cylindraceo nitente, nigro, obtuso, perforato donatis; sporulis copiosis ellipticis, continuis, hyalinis, 3-4 \approx 1 $\frac{1}{2}$; basidiis simplicibus v. deorsum ramosis, 12 \approx $\frac{1}{2}$, sursum attenuatis.

Hab. in ligno exsiccato Juglandis cinereæ, W. Virginia Amer. bor. (NUTTALL).

2. **Sphæronæma Ludwigii** Sacc. Bull. Soc. Myc. de Fr. 1896, p. 68, 3443 tab. VII, fig. 5. — Peritheciis subsparis, superficialibus, globulosis, perexiguis, vix $\frac{1}{3}$ mm. diam., nigris, setulis filiformibus, longis, brunneo-nigris, vestitis; ostiolo 2-3 mm. longo, tenuissime filiformi, rectiusculo, globulo obsolete; sporulis cylindraceis, valde arcuatis, 7-14 \approx 1-2, hyalinis.

Hab. in ligno Castaneæ vescae pr. Greiz Germaniæ

3. **Sphæronæma viride** Jacz. Bull. Soc. Imp. des Natur. de Moscou, 3444 1896, p. 89. — Peritheciis emergentibus, superficialibus, subcylindraceis, conicis, ellipsoideis v. subglobosis, atro-virentibus, in ostiolum subcylindraceum crassum elongatis; sporulis hyalinis, continuis, rectis, cylindraceis. 4-5 \approx 1; basidiis simplicibus, filiformibus, 40 μ . longis.

Hab. in ligno putrido Populi Tremulae, Smolensk Rossia.

— An *Sphæronæmellæ* spec.?

4. **Sphæronæma Agaves** Karst. Hedw. 1896, p. 47. — Peritheciis 3445 gregariis, subcutaneis, cylindraceo-atenuatis, mollibus, siccis corneis, atris, apice per cuticulam erumpente pallide v. fulvescente pallidis, minutis; sporulis ellipsoideis, eguttulatis, hyalinis 2-3 \approx 1-2.

Hab. ad folia Agaves languescientia pr. Mustiala Fennia.

5. **Sphæronæma veratrinum** Sacc. Malpighia XI, 1897, pag. 307. 3446 — Peritheciis laxè gregariis, epidermide initio velatis, mox superficialibus, globoso-conicis, in rostellum rectum perithecio vix longius

tenuatis, $\frac{1}{2}$ mm. crassis, nigris, levibus; sporulis oblongo-allantoidis, curvulis, biguttatis, 4-5 \times 2, hyalinis.

Hab. in caulibus emortuis Veratri albi, Valsesia, Italia boreal. (CARESTIA).

6. **Sphæronæma Balansæ** Sacc. sp. n. — Peritheciis dense gregariis, 3417 nigris, amphigenis, tenuissime acicularibus rectiusculis, 1-1,2 mra. long., basi insculpta incrassato-subglobosis; sporulis oblongo-fusoidis, exiguis, 3-4 \times 1-1,5, hyalinis, subrectis.

Hab. in foliis emortuis v. languidis Blechni, Guarapi, Paraguay 1883 (B. BALANSA n. 4130).

7. **Sphæronæma Peckii** Sacc. et Syd. Sic dicendum est *Sphæronæma cæspitosum* Peck in Syll. III, p. 189, quum exstet anterius, *Sph. cæspitosum* Fekl. in Syll. III, p. 187.

CHÆTOPHOMA Cooke — Syll. III, p. 199, X, p. 216, XI, p. 501.

1. **Chætophoma oleacina** Vuill. Bull. Soc. Myc. de Fr. 1896, p. 41. 3448 — Peritheciis gregariis, subglobosis, inter hyphas fuligineas, septatas, cladosporioideas, conidia fuliginea, uniseptata, 8,4-10,5 \times 3 $\frac{1}{2}$ -6 gerentes (*Cladosporium oleacinum*) oriundis, contextu parenchymatico, basi dilute fuscis in matrice immersis, parte libera extus atra, vertice irregulariter dehiscente; sporulis ovoideis, 2,3-2,6 \times 1-1,3, basidiis brevibus rectis suffultis.

Hab. in cortice excoriata ramorum Fraxini excelsioris et Oleæ europææ in Gallia.

2. **Chætophoma Mimuli** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3449 ser. VIII, 1896, (Microm. III, p. 6) et Rev. Mycol. 1896, p. 164 tab. CLXX, fig. 5. — Peritheciis minutis, superficialibus, globoso-depressis, pertusis, fuligineis, ex hyphis oriundis, 30-100 μ . diam.; subiculo cladosporioideo; hyphis repentibus, ramoso-intricatis, valde septatis, fuligineis; sporulis ellipticis, numerosissimis, 2-guttulatis, hyalinis, 5-6 $\frac{1}{2}$ \times 2.

Hab. in calicibus capsulisque emortuis Mimuli hybridi in horto bot. Senensi Italiæ.

3. **Chætophoma allicola** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3450 4 ser. VIII, 1896, (Microm. III, p. 7) et Rev. Mycol. 1896, p. 164, tab. CLXX, fig. CLXX, fig. 4. — Peritheciis sparsis, globoso-depressis, nigris, membranaceis, 120-150 μ . diam., contextu dilute fuligineo, mycelio nidulantibus; hyphis byssoideis, repentibus, intricatis, septatis, ramuloso-furcatis, fuscis, cum conidiis ellipsoideis, 1-3-septatis; sporulis initio ovatis, eguttulatis,

dein oblongis, plurinucleolatis v. distincte 2-guttulatis, hyalinis, 8-10 \times 2-2 $\frac{1}{2}$.

Hab. in tepalis exsiccatis Allii neapolitani in horto bot. Senensi Italiæ.

ASTEROMA DC. — Syll. III, p. 201, X, p. 219, XI, p. 501.

1. **Asteroma Menispermii** Allesch. Hedw. 1895, p. 216. — Epiphyllum; 3451
 maculis minimis, subrotundis irregularibusve, sæpe confluentibus, indeterminatis, atro-brunneis, fibrillis dendroideo-ramosis, innatis, e centro radiantibus, nigris; sporulis bacillaribus, ovoideis oblongisve, 4-7 \times $\frac{3}{4}$ -1 $\frac{1}{2}$.

Hab. in foliis subvivi Menispermii canadensis in horto bot. Monacensi.

2. **Asteroma Parkinsoniæ** Ell. et Ev. Proc. Acad. Philad. 1895, p. 431. 3452
 — Peritheciis emergenti-superficialibus, subdepressis, 150 μ . diam., primitus in mycelio adpresso, griseo, radiato solitariis, dein minoribus et in longitudine fibrillarum dispositis; sporulis oblongis, hyalinis, 2-3-nucleatis, 15-20 \times 5-7, utrinque obtuso-rotundatis.

Hab. in leguminibus Parkinsoniæ Torreyanæ, Arizona, Amer. bor.

3. **Asteroma Tecomæ** Allesch. Hedw. 1897, p. 239. — Maculis sub- 3453
 circularibus, fusco-nigris, amphigenis, 8-12 mm. diametro; peritheciis epiphyllis, subglobosis, nigris; sporulis oblongis, utrinque obtusis, continuis, hyalinis; ca. 5-7 μ . longis, 1-1,5 μ . crassis; fibrillis inconspicuis.

Hab. in foliis Tecomæ spec. pr. Goyaz Brasiliæ (GLAZIOU).

4. **Asteroma dubium** Allesch. Hedw. 1895, p. 263. — Maculis irre- 3454
 gularibus, indeterminatis, brunneo-nigris; fibrillis parce ramosis, innatis, in caule transverse decurrentibus, fusco-nigris; peritheciis punctiformibus, gregariis, depressis, perforatis, atris; sporulis cylindræis, utrinque obtusis, rectis v. leniter curvulis, hyalinis, 4-5 \times 1-1 $\frac{1}{2}$.

Hab. in caulibus exsiccatis Astrantiæ majoris et Bupleuri longifolii, in Bavaria australi (ALLESCHER, SCHNABL). — An huc pertinet *Asteroma Robergii* Desm., Syll. III, p. 210?

5. **Asteroma Senecionis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 287. 3455
 — Maculis orbicularibus, dilute luteis, $\frac{1}{4}$ -1 cm. diam.; peritheciis amphigenis, 50-90 μ . diam., initio astomis, demum supra late apertis, mycelio insidentibus; sporulis minutis, cylindræis, 4-5 μ . longis, vix 1 μ . latis.

Hab. in foliis *Senecionis Rawsoniani*, California. — *Asteroma anomalum*, quia fibrillis caret.

6. **Asteroma eupatoriicola** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3456 p. 33. -- Maculis oblongis irregularibusve, nigro-cinereis, cauliculis; fibrillis innatis, tenerrimis, dendroideo-ramosis, nigris, in superficie vix conspicuis, sed in parte interna peridermii perspicuis; peritheciis innatis, dein erumpentibus, minutissimis, nigris; sporulis ovoideis, utrinque rotundatis, continuis, sæpe biguttulatis, hyalinis, 2-4 \times 1-2.

Hab. in caulibus emortuis *Eupatorii cannabini* pr. München Baviariæ.

7. **Asteroma Eupatorii** Allesch. Hedw. 1895, p. 264. -- Maculis minutis, epiphyllis, irregularibus, arescendo fusco-nigris vel griseo-nigris, margine brunneo-purpureo cinctis, dein confluentibus et folium totum occupantibus et necantibus; fibrillis atris, parum conspicuis; peritheciis epiphyllis, minutissimis, punctiformibus, gregariis, nigris; sporulis oblongis, utrinque rotundatis, biguttulatis, continuis, hyalinis, ca. 6-10 \times 2-3 $\frac{1}{2}$. 3457

Hab. in foliis vivis vel languidis *Eupatorii cannabini*, socia *Septoria Eupatorii* Rob. et Desm. in Bavaria australi.

8. **Asteroma atratum** Chev.-Syll. III, p. 212. -- Var. **Centaureæ-montanæ** Allesch. Hedw. 1895, p. 262. -- Maculis irregularibus, primo dendroideo-vel reticulato-ramosis, fuscis, dein fusco-nigris, continuis, varie confluentibus et indeterminatis; peritheciis epiphyllis, minimis, prominulis, confertis, fuscis; sporulis perexiguis, cylindræcis, rectis, utrinque obtusis, continuis, hyalinis, ca. 3-5 \times 1-1 $\frac{1}{2}$. 3458

Hab. in foliis adhuc vivis vel languidis *Centaureæ montanæ* in Bavaria australi.

9. **Asteroma infuscans** Ell. et Ev. Proc. Acad. Philad. 1895, p. 431, 3459 N. A. F. n. 3361. -- Maculis nigris, 5-10 cm. longis, plus minus distincte marginatis, e fibrillis adpressis, ramosis, radiatis, demum sæpe evanidis formatis; peritheciis numerosis, pustuliformibus, supra perforatis, 90-150 μ . diam.; sporulis oblongo-ellipticis, hyalinis, continuis, 3-5 \times 1-1 $\frac{1}{2}$.

Hab. in caulibus exsiccatis *Lyæ xanthifoliæ*, Colorado, Amer. bor. (BAKER). -- Huc etiam, ex auctore ipso, ducendum est *Asteroma iowacolum* Ell. et Ev. in Americ. Natur. 1897, p. 428.

10. **Asteroma Brunellæ** Allesch. Hedw. 1895, p. 263. -- Maculis 3460 indeterminatis, fusco-brunneis, dein expallentibus; fibrillis nigris,

fasciculatim radiantibus, parum conspicuis; peritheciis minutis, numerosis, innatis, nigris; sporulis oblongis v. cylindræis, rectis v. lenissime curvulis, utrinque obtusis, continuis, guttulatis, hyalinis, magnitudine varia, ca. $6-12 \times 2\frac{1}{2}-4$.

Hab. in foliis subviviis Brunellæ vulgaris, sociâ *Septoriâ Trailianâ* Sacc. in Bavaria australi. — An huc pertinet *Asteroma Prunellæ* Purt., Syll. III, p. 210?

11. **Asteroma Sambuci** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 33. 3461

— Maculis minutis; irregularibus, atris; fibrillis vix conspicuis brevibus, atris; peritheciis erumpentibus, minutissimis, confertis v. subconfluentibus, lenticularibus, brunneis, dein nigris; sporulis oblongis, utrinque obtusis, continuis, sæpe biguttulatis, hyalinis, $5-7 \times 1\frac{1}{2}-2\frac{1}{2}$.

Hab. in ramulis exsiccatis Sambuci nigræ pr. München Bavaris.

12. **Asteroma Argyrothamniæ** Allesch. Hedw. 1897, p. 239. — Ma- 3462

culis orbicularibus, indeterminatis, nigro-fuscis, 2-3 mm. latis, fibrillis subtilissimis, subinconspicuis, atris; peritheciis dense aggregatis, globosis, minutissimis, nigris; sporulis perexiguis, cylindræis, plerumque rectis, continuis, hyalinis, ca. $4-6 \times \frac{1}{2}-1$

Hab. in foliis vivis Argyrothamniæ tricuspидatæ pr. Concepcion in Chile (NEGER).

13. **Asteroma Codiæi** Allesch. in Zeitschr. f. Pflanzenkrankh. 1895, 3463

p. 276. — Amphigenum; fibrillis ramosis, laxè reticularibus intricatisve, innatis, tenuissimis, primum violaceis, dein fusciscentibus in maculis expallentibus indeterminatis; peritheciis lenticularibus, minutissimis, epidermide tectis, 30-40 μ . diam. nigrescentibus; sporulis minutissimis, continuis hyalinis, $2-3 \times 0,5-1$

Hab. in foliis languescensibus Codiæi picti culti in Germania (SORAUER).

14. **Asteroma Piperis** Allesch. in P. Henn. Pilz. Ostaf. p. 35. —

Maculis suborbicularibus, amphigenis, nigris, fibrillis subinconspicuis, atris; peritheciis hypophyllis, sparsis, minutissimis, nigris sporulis minutissimis, subcylindræis v. ovoideis, $2,5-4 \times 0,5-2$.

Hab. in foliis Piperis capensis in Africa trop. (VOLKENS).

15. **Asteroma Alni** Allesch. in Allesch. et Schnabl, Fg. bavar. n. 577. 3465

— Maculis subcircularibus ochraceis v. fusco-cinereis, epiphyllis, subtus minus distinctis, obscurius marginatis, 1 cm. et ultra latis, sæpe confluentibus; fibrillis innatis, brevè ramosis, atris; peritheciis perexiguis, parum prominulis, sæpe numerosis, nigris; sporulis

ovoideis v. oblongis, utrinque rotundatis obtusissimisve, continuis, eguttulatis, hyalinis, ca. 6-12 × 3-4 1/2; basidiis fasciculatis, inaequaliter cylindraceis, flexuosis, ca. 12-18 × 1 1/2-2.

Hab. in foliis adhuc vivis *Alni incanae*, München Bavariae (ALLESCHER).

16. **Asteroma Posudacori** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3466

p. 18. — Maculis inter foliorum nervos et ab eis linitatis, amphigenis, nigris v. nigro-brunneis, 5-20 mm. longis, 1-2 mm. latis; fibrillis innatis, reticulato-ramosis, subparallele dispositis, nigris; peritheciis minutissimis, primo tectis, dein epidermidem elevantibus et suberumpentibus, globoso-ellipticis, indistincte parenchymaticis, poro pertusis, numerosis, brunneo-nigris; sporulis minutissimis, ovalibus v. subelongatis, hyalinis, 3-5 × 1 1/2-3.

Hab. in foliis vivis v. languescentibus *Iridis Pseudacori* in Germania (MAGNUS).

17. **Asteroma Lillii-Martagonis** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3467

p. 17. — Maculis irregularibus, primo pallide brunneis, demum atris; fibrillis tenerrimis, parum ramulosis, subparallele dispositis, atris; peritheciis dense gregariis, minutissimis, atris; sporulis cylindraceis, continuis, biguttulatis, 3-6 × 0,5-1.

Hab. in pagina superiore foliorum *Lillii Martagonis* in Bavaria super.

18. **Asteroma Grognoti** Sacc. et Syd Sic nominandum est *Asteroma* 3468

gallicolum Grogn., Sacc. Syll. XI, p. 502, quum exstet anterius *A. gallicolum* Desm., Syll. III, p. 213.

CICINNOBOLUS Ehrenb. — Syll. III, p. 216, X, p. 220, XI, p. 502.

1. **Cicinnobolus Taraxaci** Eliasson, Fungi-Upsalienses in Bih. K. Sv. 3469

Vet. Akad. Handl. Bd. XXII, Afd. III, N. 12, 1897, p. 15, f. 2.

— Peritheciis globulosis v. late piriformibus, reticulatis, pallide fuscis, vertice pertusis, 40-58 × 36-50; sporulis 6-7 × 3, ovoideis, hyalinis, continuis, rectis, 2-guttulatis, utrinque rotundatis, demum in cirros expulsis.

Hab. parasitice in mycelio *Oidii erysiphoidis* ad folia *Taraxaci officinalis* pr. Vardsätra in Suecia.

2. **Cicinnobolus Cocconii** Sacc. et Syd. *Phoma Uncinulae* Cocc. Mem. 3470

Accad. Bot. Sez. Sc. n. 1894, p. 187. — Peritheciis ovoideis, apice poro minuto dehiscentibus, membranaceis, brunneo-nigricantibus; sporulis ovato-oblongis, hyalinis, 2-guttatis, 3-3,5 × 1,5, dein cirrose expulsis.

Hab. parasitice ad perithecia *Uncinulæ aduncæ* in foliis *Populi albæ* in Italia. — *Uncinula* fungillo pervasa substerilis et ægra fit. An diversus a *Cic. Uncinula* Fautr.?

SIROCOCCUS Preuss — Syll. III, p. 217, X, p. 220, XI, p. 502.

1. **Sirococcus pulcher** Sacc. Malpighia XI, 1897, pag. 307 — Pe- 3471
 ritheciis sparsis superficialibus, globulosis, majusculis, 400-500 μ . diam., glabris, rugulosis, atris, astomis, levissime umbilicatis; sporulis cylindricis, catenulatis, utrinque subtruncatis, 10-15 \times 2, hyalinis, subinde plasmate bipartito sed non constrictis; basidiis filiformibus, fasciculatis, 45-50 \times 2; hyalinis, simplicibus, raro furcatis.

Hab. in foliis emortuis *Ericæ carneæ*, Riva-Valdobbia, Italia (CARESTIA). — *S. cylindroidi* affinis.

2. **Sirococcus Coniferarum** Vestergr. Jahreskatalog der Wiener Kry- 3472
 ptog. Tauschanstalt 1897, p. 4. — Peritheciis in cortice prorumpentibus vel subsuperficialibus, globoso-depressis, rugosis, demum irregulariter collapsis, astomis, subcoriaceis, nigris, 0,4-0,6 mm. diam. contextu densiusculo, subtilissime parenchymatico, subimpellucido, atrofusco; sporulis minutissimis, ovali-oblongis, catenulatis reticulatimque connexis, 3-4 \times 1; sterigmatibus rectis, simplicibus vel parcissime ramosis, hyalinis, 30-45 \times 2.

Hab. in cortice truncorum *Cupressi nutkænsis*, nec non *Pini Strobi* in Suecia.

3. **Sirococcus Posidonie** Roll. Bull. Soc. Myc. de Fr. 1896, p. 6, 3473
 tab. II, fig. 11. — Peritheciis gregariis, erumpentibus, globoso-conicis, sæpe lateraliter compressis, ostiolo vix prominente præditis, carbonaceis atris, 1 mm. latis; sporulis hyalinis, subrotundis, 3-4 μ . latis, in catenulas circiter 20 μ . longas, plerumque simplices ordinatis.

Hab. in cortice *Posidonie oceanicæ*, Golfe Juan Gallie.

PYRENOCHÆTA De Not. — Syll. III, p. 219, X, p. 220, XI, p. 503.

1. **Pyrenochæta collabens** Peck, 48 Rep. 1896, p. 13. — Peritheciis 3474
 superficialibus sparsis v. dense gregariis, submembranaceis, subglobosis, subinde semicollapsis, 350-450 μ . diam., parte superiore interdum decedente et basim cupuliformem relinquente, nigris; setis paucis ut plurimum ad peritheci basim limitatis; sporulis anguste ellipsoideis, fere hyalinis, 7 $\frac{1}{2}$ -12 \times 4-5.

Hab. in cortice et ligno *Piri*, Alcove Amer. bor. (C. L. SHEAR).

2. **Pyrenochæta chætomioides** Sacc. Malpighia XI, 1897, pag. 309. 3475

— Peritheciis gregariis, subsuperficialibus, brunneo-nigris, globoso-conicis, $\frac{1}{4}$ -1 mm. diam., pilis flexuosis, septatis, brunneis, $500 \approx 5$, deflexis obtectis; sporidis cylindræis, lenissime curvis, $5-6 \approx 0,7$, hyalinis, in basidiis bacillaribus, $20-25 \approx 2$ acro-pleurogenis.

Hab. in caulibus emortuis Sedi maximi, Riva-Valdobbia, Italia (CARESTIA). — *P. rhenanæ* affinis.

3. **Pyrenochæta Telephii** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3476 p. 33. — Peritheciis conferte sparsis, epidermide nigrificata tectis, dein erumpentibus, lenticularibus vel depresso-globosis oblongisve, nigris, vertice setis erectis, brevibus, fusco-atris, $50-60 \approx 4-5$, parce septatis ornatis, ca. $80-120 \mu$. diam.; sporulis oblongis, hyalinis, continuis, $2\frac{1}{2}-4 \approx 1-1\frac{1}{2}$; basidiis brevibus.

Hab. in caulibus putridis Sedi maximi pr. München Bavarie.

4. **Pyrenochæta Rivini** Allesch. Hedw. 1897, p. (161). — Peritheciis 3477 gregariis, primo tectis, dein subliberis, depresso-globosis, vertice pilis concoloribus rigidis coronatis, atris; sporulis cylindræis, utrinque rotundatis, rectis, 3-4-guttulatis, continuis, hyalinis, ca. $12-16 \approx 3\frac{1}{2}-4\frac{1}{2}$.

Hab. in caulibus emortuis Falcarie Rivini, socio *Sclerotio* pr. Berolinum Germanie (SYDOW).

5. **Pyrenochæta Cesatiana** Sacc. et Flag. Bull. Soc. Myc. de Fr. 1896, 3478 tab. VI, fig. 2, *Phoma Cesatiana* Flag., Sacc. Syll. XI, p. 491. — Peritheciis gregariis, tectis, depressis, 0,7 mm. diam., ostiolo conico distincte setuloso, nucleo albido farcto; sporulis cylindræis, curvulis v. rectis, utrinque rotundatis, $9-11 \approx 2-3$, hyalinis, plane bipartito; basidiis brevissimis vix distinctis.

Hab. in caulibus emortuis Echii vulgaris pr. Rigny Gallie.

6. **Pyrenochæta Bergevini** Roll. Bull. Soc. Myc. de Fr. 1896, p. 7, 3479 tab. II, fig. 8. — Peritheciis sparsis, globoso-conicis, $\frac{1}{4}$ mm. latis, ubique hirtis, nigris; setis rigidis, septatis, fuscidulis, $100-150 \mu$. longis; sporulis numerosissimis, minutis, hyalinis, ellipticis, $4 \approx 2$, ampla gutta præditis.

Hab. ad fibras caulium putrescentium Aspidistræ pr. Neuilly Gallie.

7. **Pyrenochæta graminis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3480 p. 463. — Peritheciis plerumque hypophyllis, superficialibus, membranæis, astomis, 150μ . diam. supra collabentibus, nigris, pilis brevibus continuis brunneis, acutatis, $20-40 \approx 3$, basim versus vestitis; sporulis numerosis, globosis v. ovatis, $8-14 \mu$. longis, hyalinis.

Hab. in foliis emortuis Chloridis verticillatæ, Kansas Amer. bor. (BARTHOLOMEW).

VERMICULARIA Fr. — Syll. III, p. 221, X, p. 222, XI, p. 503.

1. **Vermicularia Hepaticæ** Peck, 48 Rep 1896, p. 13. — Peritheciis 3481
minutis, epiphyllis, 75-100 μ . diam., setis divergentibus, nigris, passim basi 1-2-septatis obsessis; sporulis anguste fusoidis, leviter curvis, utrinque acutis, 18-23 μ . longis, passim medio spurie septatis, hyalinis.

Hab. in partibus emortuis foliorum Hepaticæ acutilobæ, in mont. Helderberg, Amer. bor., sociæ sæpe *Protomyceete fusco*. Nudo oculo vix visibilis.

2. **Vermicularia Trautvetteriæ** Nutt. Field Columb. Mus. IX, 1896, 3482
p. 110. — Peritheciis minutis, sparsis, setis 100 \times 10 vestitis; sporulis curvulis, valde acuminatis, 18-25 \times 2 $\frac{1}{2}$ -3.

Hab. in foliis emortuis Trautvetteriæ caroliniensis in W. Virginia Amer. bor.

3. **Vermicularia Dematium** (Pers.) Fr. — Sacc. Syll. III, p. 255. — forma 3483
minor P. Brun Bull. Soc. Sc. Nat. Nantes IV, 1894, p. 35. — Sporulis 17 $\frac{1}{2}$ \times 3.

Hab. in caulibus Heraclei Sphondylii, Fouras in Gallia. — f. **Clematidis rectæ** Allesch. Hedw. 1897, p. (161) — Sporulis cylindraceis, utrinque obtusis, guttulatis, hyalinis, ca. 20 \times 3-4. In caulibus Clematidis rectæ pr. Berolin. Germaniæ (SYDOW).

4. **Vermicularia herbarum** West. — Syll. III, p. 226. — f. **Armoraciæ** 3484
Allesch. Hedw. 1897, p. (161). — Peritheciis subsuperficialibus, minutis, plerumque seriatim dispositis, oblongis, astomis, setulis rigidis, atris, apice pallidioribus, parca septulatis, subflexuosis, sæpe basi bulbosis, 120-160 \times 3-4; sporulis cylindricis, rectis, rarius leniter curvulis, utrinque rotundatis, guttulatis v. granulosis, ca. 16-24 \times 3-4, hyalinis.

Hab. in caulibus emortuis Cochleariæ Armoraciæ, sociâ *Phomâ Armoraciæ* Allesch. pr. Berolinum Germaniæ (SYDOW).

5. **Vermicularia Saponariæ** Allesch. Hedw. 1897, p. (161). — Peri- 3485
theiciis gregariis, erumpentibus, superficialibus, orbicularibus v. oblongis, postremo late pertusis, atris, setulis brevibus, rigidis, basi 5-6 μ . atris dense vestitis; sporulis fusiformibus, utrinque acutiusculis vel obtusiusculis, curvulis, sæpe subrectis, 2-3-guttulatis, unicellularibus, hyalinis, ca. 18-26 \times 3-5.

Hab. in caulibus exsiccatis Saponariæ officinalis pr. Be-

rolinum Germaniæ (Sydow). — *Vermiculariæ herbarum* proxima, sed videtur satis diversa.

6. *Vermicularia petiolicola* P. Brun. Sphærops. Char. 1889, p. 39. 3486

— Peritheciis sparsis vel gregariis, erumpentibus, dein superficialibus, globosis, dein planis v. subplanis, brunneo-nigris, setis strictis, inæqualibus, divergentibus vestitis, 170-280 \times 4-5, continuis, brunneis; sporulis cylindraceo-elongatis, utrinque rotundatis v. subfusoides, rectis v. leniter curvatis pluriguttulatis, hyalinis, 25-35 \times 4.

Hab. in petiolis dejectis Ailanthi glandulosæ, Saintes Galliæ.

7. *Vermicularia Stachydis* Tracy et Earle, Bull. Torr. Bot. Club. 1895, 3487

p. 177. — Peritheciis sparsis, subsuperficialibus; setis subfloccosis, nodulosis, septatis, olivaceis, apicem versus pallidioribus, obtusis et leviter incrassatis; sporulis falcatis, utrinque attenuatis, guttatis, demum subtiliter 4-5-septatis, 35-40 \times 3-4; basidiis nullis.

Hab. in caulibus Stachydis affinis, Mississippi, Amer. bor.

8. *Vermicularia oligochaeta* Sacc. sp. n. — Phyllogena, maculicola, 3483

amphigena; peritheciis laxè gregariis, punctiformibus, perexiguis, vix 50-60 μ . diam., nigris, imperfectis, setulis paucis (3-5) divergentibus, septulatis, brunneis, 30-35 \times 4, obtusulis; sporulis cylindraceis, utrinque rotundatis, subrectis, 22 \times 5-6, granuloso-guttulatis, hyalinis.

Hab. in maculis albis Septoriæ Antirrhini ad folia subviva Antirrhini majoris, Côte-d'Or Galliæ (FAUTREY).

9. *Vermicularia trichella* Fr. - Sacc. Syll. III, p. 224. — var. *Euphor-* 3489

biæ F. Tassi, Atti R. Acc. dei Fisioer. Siena 4 ser. VIII, 1896 (Microm. III, p. 5) et Rev. Mycol. 1896, p. 166, tab. CLXX, fig. 7). — Peritheciis epiphyllis, dense sparsis pilis nigris, 100-160 μ . longis, 3-4 μ . crassis, conspersis; sporulis oblongis, curvatis, utrinque attenuatis, hyalinis, nubilosis, 16-20 \times 4.

Hab. in foliis emortuis Euphorbiæ Myrsinitis in horto bot. Senensi Italiae. — Differt a specie primigenia sporulis non obtuse attenuatis et aspectu externo perithecorum.

10. *Vermicularia corvina* Karst. et Har. - Syll. X, p. 225. — var. 3490

Hippophaës-rhamnoidis Allesch. Hedw. 1895, p. 265. — Peritheciis sparsis, globoso-applanatis v. subellipticis, atris, undique setulis plerumque erectis, continuis, concoloribus, 120-150 \times 5-6 obsitis; sporulis fusoides, curvulis, utrinque acutiusculis; guttulatis, hyalinis, ca. 16-18 \times 2-3; basidiis dense fasciculatis, guttulatis, hyalinis, ca. 20-30 \times 1-1 $\frac{1}{2}$.

Hab. in ramis decorticatis Hippophææ rhamnoidis in Bavaria australi (SCHNABL).

11. *Vermicularia sambucina* E. et Ev. Proc. of the Canad. Inst. 1897, 3491
p. 92. — Peritheciis gregariis, numerosis, erumpentibus, hemisphærico-depressis, 90-180 μ . diam.; setulis crebris atro-brunneis, brevibus, 40-100 μ ., plerumque 45 μ . longis; sporulis arcuato-fusoideis, nucleolatis, 24 \times 3-3,5.

Hab. in ramis tenellis emortuis Sambuci sp. London, Canada.

12. *Vermicularia Dematium* (Pers.) Fr. Sacc. Syll. III, p. 255. — 3492
forma *Coryli-putaminis* Sacc. Malpighia XI, 1897, pag. 309. — Sporulis fusoideo-curvatis, 18-20 \times 4-5; setis 100-130 \times 6; peritheciis minutis.

Hab. in putaminibus Coryli Avellanæ, Valdobbia, Italia (CARESTIA).

13. *Vermicularia Spæthiana* Allesch. Hedw. 1897, p. (161). — 3493
Peritheciis minutis, seriatim dispositis, erumpentibus, depresso-globosis vel oblongis, sæpius confluentibus, setis rigidis, leniter flexuosis vel basi curvulis, sursum pallidioribus, apice obtusis, 50-60 \times 4-6 vestitis; sporulis fusiformibus, sæpe guttulatis vel granulosis, utrinque acutiusculis, inæquilateralibus vel leniter curvulis, hyalinis, ca. 15-20 \times 3-5.

Hab. in caulibus emortuis Funkiæ univittatæ cultæ pr. Berolinum (SYDOW. — Videtur spermogonium *Metasphæriæ Funkiæ* Bres.

14. *Vermicularia Geayana* Delacr. Bull. Soc. Mycol. XIII, 1897, 3494
p. 123, tab. X, fig. C. — Peritheciis atris, astomis, subhemisphæricis, usque 250 μ . diam., setis aterrimis, erectis, rigidis, acutioribus, usque 330 \times 8; sporulis hyalinis, fusoideis, continuis, utrinque acutis, rectis v. sæpius arcuatis.

Hab. ad paginam inferiorem folii Orchidææ cujusdam in regione fluminis « Apure » Venezuelæ (GEAY).

15. *Vermicularia Liliacearum* West.-Sacc. Syll. III, p. 233. — var. *brasiliensis* Sacc. Bull. Soc. Roy. Bot. Belg. XXXV, 1896, p. 130. — 3495
— Peritheciis (imperfectis) majoribus, 0,5 mm. diam., durioribus, setis rigidis aterrimis, 60-120 \times 3, septis vix conspicuis; sporulis oblongo-fusoideis, rectiusculis, utrinque obtusulis, 18-21 \times 6, hyalinis.

Hab. in foliis Orchidæarum epiphytarum in Brasilia.

DOTHIORELLA Sacc. — Syll. III, p. 235, X, p. 229, XI, p. 504.

1. *Dothiorella Asiminæ* Ell. et Ev. Field Columb. Mus. IX, 1896, 3496
p. 110. — Peritheciis suberumpentibus, 3-5 seriatim dispositis,
 $\frac{1}{4}$ mm. diam., albis. ovoideis; sporulis ovalibus v. ellipticis, hya-
linis, 5-7 \times 2-3.

Hab. in *Asimina triloba*, in W. Virginia Americæ bor.
(NGTALL).

2. *Dothiorella Cratægi* Ell. et Ev. Proc. Acad. Philad. 1895, p. 432. 3497
— Stromatibus gregariis, erumpentibus, nigris, appanato-pulvi-
natis, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. v. ultra diam.; peritheciis minutis, 2-20 in quo-
que stromate, ostiolo papilliformi; sporulis ellipticis, fumosis v. sub-
olivaceo-hyalinis, 18-20 \times 10-15; basidiis firmis, sed mox deciduis.

Hab. in ramis emortuis *Cratægi Oxycanthæ*, Canada
(DEARNESS).

3. *Dothiorella Negundinis* Ell. et Barth Erythea 1896, p. 23. — 3498
Peritheciis minutis. 100-110 μ ., perforatis, in stromate erumpente
appanato, 1-1 $\frac{1}{2}$ mm. diam, aggregatis; sporulis ellipticis, fumo-
sis, hyalinis, 5-6 \times 4-5.

Hab. in cortice ramorum *Negundinis aceroidis*, Kansas
Amer. bor. (BARTHOLOMEW).

4. *Dothiorella minor* Ell. et Ev. Field Columb. Mus. IX, 1896, p. 110. 3499
— Peritheciis seriatim subconfluentibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., supra
irregulariter collapsis, intus albis, erumpentibus, epidermidem ri-
mose findentibus; sporulis ellipticis hyalinis, continuis, 5-7 $\frac{1}{2}$ \times
3-3 $\frac{1}{3}$.

Hab. in ramulis emortuis *Liriodendri Tulipiferæ*, W.
Virginia Amer. bor.

5. *Dothiorella fraxinicola* Ell. et Ev. Proc. Acad. Philad. 1895, 3500
p. 431. — Peritheciis erumpenti-superficialibus. gregariis v. inter-
dum botryosphærioideis, stromate imperfecto, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.,
supra demum collabentibus et late perforatis, ostiolo papilliformi
v. breve cylindræo; sporulis oblongo-fusoideis, 18-30 \times 6-7, con-
tinuis; basidiis gracilibus, sporulas æquantibus.

Hab. in cortice emortuo *Fraxini*, Nebraska, Amer. bor.
(BATES). — A *D. Everhartii* Sacc. et Syd. et *D. fraxinea* Sacc.
differt peritheciis majoribus et sporulis diversis.

- Dothiorella concavuscola* Ell. et Barth Erythea 1896, p. 23. — 3501
Stromatibus orbicularibus. $\frac{1}{2}$ mm diam., interdum confluentibus
longioribusque, primo tectis. dein per epidermidem fissam erum-
pentibus, apice appanatis v. leviter concavis, extus nigris, intus

griseis; sporulis oblongis v. oblongo-ellipticis, hyalinis, continuis, 4-6 × 2 1/2-3.

Hab. in ramis emortuis *Fraxini viridis*, Kansas Amer. bor. (BARTHOLOMEW).

7. *Dothiorella Myricariæ* Oke. et Mass.-Sacc. Syll. X, p. 231. — f. 3502

germanica Allesch. Hedw. 1897, p. 161. — Sporulis ovoideo-oblongis, continuis, utrinque rotundatis, magnitudine varia, ca 8-10 × 4-6, hyalinis, eguttulatis.

Hab. in ramulis *Myricariæ germanicæ* pr. Berolinum Germaniæ (SYDOW).

8. *Dothiorella Everhartii* Sacc. et Syd. Sic nominanda est *Dothiorella Fraxini* Ell. et Ev. in Syll. XI, p. 505, quum exstet anterior *D. Fraxini* (Lib.) Sacc. in Syll. X, p. 230.

PLACOSPHERIA Sacc. — Syll. III, p. 244, X, p. 234. XI, p. 506.

1. *Placosphæria Cerastii* Vesterg. K. Ofv. Vet.-Akad. Förh. 1897, 3503

n. I, p. 39. — Stromatibus sparsis, cauliculis, rarius foliicolis, basi innatis, elliptico-oblongis, convexulis, 0,5-1 mm. longis, 0,3-0,5 mm. latis, coriaceo-membranaceis, textura opaca, indistincta, intus pallidis, obscure locellatis, (?); sporulis bacillaribus, rectis, 3-4 × 0,7-1, utrinque guttulatis, hyalinis, continuis, basidiis filiformibus, continuis, rectis, hyalinis vel basi luteolis, 15-20 × 1 suffultis

Hab. in caulibus foliisque *Cerastii tomentosii* in horto bot. Upsaliensi, Suecia. — A *Pl. Stellariæ* (Lib.) Sacc. sporulis multoties minoribus plane diversa.

2. *Placosphæria Salvertiæ* Allesch. Hedw. 1897, p. 240. — Stroma- 3504

tibus maculæformibus, subcircularibus vel irregularibus, 1-2 mm. latis, sæpe confluentibus, rugulosis, atro-violaceis, intus multilocularibus; sporulis peræxiguis, hyalinis, continuis, 2-5 μ longis, 0,5-1 μ latis.

Hab. in pag. super. foliorum vivorum *Salvertiæ* sp. pr. Goyaz, Brasiliæ (GLAZIOU).

3. *Placosphæria Vochysiæ* Allesch. Hedw. 1897, p. 240. — Stroma- 3505

tibus hypophyllis, subrotundatis, planis centro subconicis, atris, sæpe confluentibus subnitidis; sporulis fusoidis, curvulis, guttulatis, hyalinis, ca. 18-30 μ longis, 1 μ crassis; basidiis brevibus.

Hab. in foliis *Vochysiæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

4. *Placosphæria Cordiæ* Allesch. Hedw. 1897, p. 240. — Stroma- 3506

tibus epiphyllis, effusis, subcircularibus, sparsis vel gregariis, in-

natis, nigris, 2-4 mm. latis; sporulis oblongis, continuis, hyalinis, ca. 3-4 μ . longis, 1-1,5 μ . latis; basidiis brevibus.

Hab. in foliis emortuis *Cordicæ* spec. pr. Goyaz Brasiliæ (GLAZIOU).

5. **Placosphæria inæqualis** Fr. Sacc. Atti d. Soc. Ven.-Trent. di Sc. 3507
Nat. 2 ser. 2 vol. 2 fasc. 1896, p. 26 extr. tab. I, n. 4 et Bull.
Soc. Myc. de Fr. 1896, p. 77. — Stromatibus gregariis, elongatis,
inæqualibus, applanatis, 1-3 mm. longis, vix 1 mm. latis, epider-
mide velatis, atro-nitidis, intus melleo-fuscis, non vel obsolete
locellatis; sporulis cylindræis, curvis (allantoideis), 5-6 \times 1 $\frac{1}{2}$, hya-
linis; basidiis dense fasciculatis, bacillaribus, 10-12 \times 1.

Hab. in ramis *Tecomæ grandifloræ* in horto bot. Patavino, Italia.

6. **Placosphæria Epidendri** F. Tassi, Bull. del Lab. Bot. d. R. Univ. 3508
Siena, 1898, fasc. I, p. 10, tab. X, fig. 4. — Stromatibus innatis,
nigris, molliusculis, varie intus plures locellos habentibus, com-
planatis, 2-3 mm. diam., basi hyphulis fuscis minutis præditis,
nucleis obsolete; sporulis copiosis subfusiformibus, 6-6 $\frac{1}{2}$ \times 2, plu-
riguttulatis vel interdum distincte 2-vel 4-guttulatis, hyalinis, ba-
sidiis fasciculatis, nebulosis, duplo vel triplo longioribus suffultis.

Hab. in caulibus emortuis *Epidendri elongati* in horto botanico Senensi, Italia.

7. **Placosphæria Smilacis** Allesch. Hedw. 1897, p. 240. — Stroma- 3509
tibus hypophyllis, sparsis vel gregariis, subcircularibus, convexis,
apice plerumque concaviusculis, innatis, nigris, sæpe confluentibus,
1-1 $\frac{1}{2}$ mm. diametro, loculis numerosis, perexiguis; sporulis oblon-
gis, utrinque obtusiusculis, hyalinis, ca. 4-5 μ . longis, 1-1,5 μ .
crassis; basidiis brevibus, hyalinis.

Hab. in pag. inter. foliorum *Smilacis* spec. pr. Goyaz Bra-
siliæ (GLAZIOU).

8. **Placosphæria Asphodeli** P. Brun. Act. Soc. Linn. Bordeaux 1898. 3510
p. 13 extr. — Stromatibus amphigenis nigris v. nigro-brumeis.
primitus sparsis interdum parallele dispositis, dein confluentibus,
intus nigris; sporulis bacillaribus hyalinis v. subhyalinis, rectis,
guttulatis, 20 \times 2.

Hab. in foliis *Asphodeli albi*, Saintes Gallie.

9. **Placosphæria Aristidæ** Allesch. Hedw. 1897, p. 240. — Stroma- 3511
tibus elongatis, hypophyllis, applanatis, rugulosis, æterrimis, niti-
dulis; sporulis ovoideis vel oblongis, continuis, sæpe biguttulatis,
utrinque obtusis, hyalinis, ca. 5-8 \times 3-4,5.

Hab. in foliis *Aristidæ pallentis*, Prov. Biobio in Chile (NEGER).

FUSICOCCUM Corda — Syll. III, p. 247, X, p. 239, XI, p. 507.

1. **Fusicoccum Persicæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 287. 3512

— Stromatibus tuberculiformibus, $\frac{3}{4}$ mm. diam., semierumpentibus, contextu dense celluloso, multilocularibus; cellulis minutis, 150 μ ., albis, numerosis; sporulis oblongo-fusoideis, hyalinis, continuis, 18-22 \times 6-7, basidiis sporulâ brevioribus.

Hab. in ramis emortuis *Persicæ*, Louisiana Amer. bor. (LANGLAIS).

2. **Fusicoccum indicum** Tassi, Atti R. Acc. dei Fisiocr. Siena 4, ser. 3513

VIII, 1896, p. 7 extr. et Rev. Mycol. 1896, p. 164, tab. CLXX, fig. 6. — Stromatibus sparsis, erumpentibus, applanatis, plurilocularibus, nigris; sporulis ovato-oblongis, utrinque attenuatis, continuis, hyalinis, interdum nubiosis, 6-7 \times 2, basidiis filiformibus fasciculatis longioribus fultis.

Hab. in drupa exsiccata *Balsamodendri* in India orient.

3. **Fusicoccum Ellisianum** Sacc. et Syd. *Fusicoccum quercinum* Ell. et 3514

Ev. Proc. Acad. Philad. 1895, p. 432, nec Sacc. — Stromatibus numerosis, sparsis, subcuticularibus, tuberculoso-convexis, superficie corticis interioris insidentibus, erumpentibus, epidermide rupta laxè cinctis, circiter 1 mm. diam., intus albis v. albidis, obscure multilocularibus, coriaceis; supra irregulariter pertusis; sporulis fusoideis, hyalinis, continuis, plerumque 2-nucleolatis, subobtusis, 10-15 \times 3-3 $\frac{1}{2}$.

Hab. in ramis emortuis *Quercus tinctoriæ*, New Jersey, Amer. bor.

CYTOSPORELLA Sacc. — Syll. III, p. 251, X, p. 242, XI, p. 507.

1. **Cytospora Cerei** Pollacci, Atti Ist. bot. Pavia, 2 ser. V, 1897, 3515

p. 5 extr. — Stromatibus innato-erumpentibus, verrucosis, atris, intus pallidis, magnis, plurilocellatis, locellis irregularibus; basidiis bacillaribus; sporulis minutis, ovoideis, copiosissimis, hyalinis, 6-9 \times 3-4.

Hab. in *Cereo stellato* in horto bot. Ticinensi Italiæ bor.

2. **Cytospora Malerum** P. Brum. Act. Soc. Linn. Bordeaux 1898, 3516

p. 13 extr. — Stromatibus pulvinatis, nigris, erumpentibus, plurilocellatis; sporulis hyalinis, ovoideis, numerosissimis, 3 \times 2 $\frac{1}{2}$.

Hab. in ramis emortuis Piri Mali, Saintes Galliæ.

3. *Cytosporaella carnea* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 287. 3517
 — Stromatibus initio tuberculoso-hemisphæricis ac epidermide tectis, sed mox per epidermidem transverse vel laciniatim fissam erumpentibus, $1\frac{1}{2}$ mm. latis, 1 mm. altis, extus brunneis, intus albis, multilocularibus, loculis dilute coloratis; sporulis ellipticis, hyalinis continuis, $5-7 \approx 2\frac{1}{2}-3$.
Hab. in ramis emortuis Castaneæ, W. Virginia Amer. bor. (NUTTALL).

CYTOSPORA Ehrenberg — Syll. III, p. 252, X, p. 243, XI, p. 508.

1. *Cytospora tumulosa* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 288. 3518
 — Stromatibus cylindrico-conicis, erumpentibus, brunneis, intus dilutioribus, circiter 1 mm. latis, $\frac{3}{4}$ mm. altis; loculis albidis globosis, parte inferiore stromatis innatis; sporulis allantoidicis, hyalinis, curvulis, $6-8 \approx 1\frac{1}{2}$.
Hab. in ramis junioribus emortuis Magnoliæ Fraseri, W. Virginia Amer. bor.
2. *Cytospora Rhois-hirtæ* Nutt. Field Columb. Mus. IX, 1896, p. 112. 3519
 — Cirris luteo-rubris; peritheciis valde prominulis; sporulis $8-10 \approx 2-2\frac{1}{2}$.
Hab. in ramis Rhois hirtæ in W. Virginia Amer. bor. (NUTTALL).
3. *Cytospora celastrina* Ell. et Barth. Erythea 1896, p. 80. — Stro- 3520
 matibus sparsis v. subseriatis, $1-1\frac{1}{2}$ mm. diam., cortice interiore immersis, epidermidem elevatibus; ostiolo erumpente, firmo, breviter cylindræo, late perforato, intus atris, multilocularibus, $8-10$ cellularibus; sporulis oblongis, erectis v. leniter curvulis, $6-8 \approx 1\frac{1}{4}$.
Hab. in ramis emortuis Celastri scandentis in Kansas Amer. bor. (BARTHOLOMEW). — Differt a *Cytospora Celastri* Clem. sporulis multo brevioribus, leniter curvulis.
4. *Cytospora Celastri* Clem. Bot. Surv. of Nebraska IV, Lincoln 3521
 1896, p. 5. — Peritheciis innatis, dense aggregatis, globosis, ostiolo brevi erumpente donatis; sporulis hyalinis valde curvatis, sepe semicircularibus, obtusis acutisve, $15-20 \approx 1$.
Hab. in ramis emortuis Celastri scandentis, Nebraska Amer. bor.
5. *Cytospora Tamaricis* P. Brun. Act. Soc. Linn. Bordeaux 1898, 3522
 p. 13 extr. — Stromatibus sparsis v. gregariis subglobosis, tectis, poro erumpente pertusis; cirris flavis; sporulis ovoideis, hyalinis, $\bar{5} \approx 2$.

Hab. in ramulis emortuis Tamaricis anglicæ, Rochefort Galliæ.

6. **Cytospora Gleditschiæ** Ell. et Barth. Erythea 1896, p. 80. — 3523
Peritheciis in superficie corticis interioris circinatis; ostioliis convergentibus, disco parvo, atro, erumpentibus; sporulis allantoideis, 5-6 \times 1 $\frac{1}{4}$, leniter curvulis.

Hab. in ramis emortuis Gleditschiæ Triacanthi, Kansas Amer. bor. (BARTHOLOMEW).

7. **Cytospora Amorphæ** Ell. et Barth. Erythea 1897, p. 48. — Stro- 3524
matibus numerosis $\frac{1}{4}$ mm. circiter diam., nigris, multicellularibus, cortice interiore profunde innatis, lignum non mutantibus; ostiolo firmo epidermidem perforante; peritheciis paucis (3-6) consociatis; sporulis subacutis hyalinis, leniter curvulis, 4-6 \times 1-1 $\frac{1}{2}$.

Hab. in ramis emortuis Amorphæ fruticosæ, Kansas Amer. bor. (BARTHOLOMEW). — *Valsæ Amorphæ* spermogonium.

8. **Cytospora rhodocarpa** Sacc. Malpighia XI, 1897, pag. 310. — 3525
Stromatibus gregariis, innato-erumpentibus, conoideis, 0,7-1 mm. basi latis, annulatum plurilocularibus, griseo-fuscis, disco albo-pruinoso, circulari; basidiis acicularibus, fasciculatis, 12-15 \times 1, infra dilute olivascentibus.

Hab. in fructibus Rosæ caninæ, Riva Valdobbia, Italia bor. (CARESTIA). — *C. leucospermæ* affinis.

9. **Cytospora Photiniæ** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3526
p. 13 extr. — Stromatibus sparsis vix erumpentibus; cirris albis; sporulis ovoideo-oblongis continuis, rectis, hyalinis, biguttulatis, 7 $\frac{1}{2}$ \times 2 $\frac{1}{2}$.

Hab. in ramis emortuis Photiniæ serrulatæ, Saintes Galliæ.

10. **Cytospora Oxyacanthæ** Rbh. — Syll. III, p. 255. — Var. **monogynæ** 3527
P. Brun. Sphærops. Char. 1889, p. 43. — Stromatibus conicis, depressis, subcutaneis, 10-12-ocularibus; sporulis botuliformibus, hyalinis, continuis, plus minus curvatis, 8-9 \times 2-2 $\frac{1}{2}$, tandem in cirros luteolos protrusis.

Hab. in ramis emortuis Cratægi monogynæ, Saintes Galliæ.

11. **Cytospora cratægicola** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3528
p. 13 extr. — Stromatibus sparsis erumpentibus, epidermidis fragmentis cinctis; cirris albis; sporulis ovoideis continuis, rectis, hyalinis, 1 v. 2-guttulatis, 7 $\frac{1}{2}$ -8 \times 3.

Hab. in ramis emortuis Cratægi Oxyacanthæ, Saintes Galliæ.

12. **Cytospora clypeata** Sacc. - Syll. III, p. 252. — var. **Spirææ** Sacc. 3529
Malpighia 1896, p. 273, tab. VI, fig. 2. — Stromatibus gregariis,

disciformibus, epidermide atrata nitida velatis, disco albedo ostiolo unico v. paucis perforato; basidiis verticillato-ramosis, sursum acutis, $24 \approx 2$; sporulis allantoideis, hyalinis, curvis, $5-7 \approx 1\frac{1}{2}$.

Hab. in ramulis *Spirææ chamædryfoliæ* in Sibiria.

13. **Cytospora leucosticta** Ell. et Barth. *Erythea* 1897, p. 48. — 3530

Stromatibus sparsis, $\frac{1}{3}$ - $\frac{2}{3}$ mm. diam., cortice interiore innatis, colorem ligni non mutantibus; pustulis mox erumpentibus; disco crateriformi, pruinoso, erumpente, unico poro pertuso; peritheciis atris, subcircinatis, 8-12 in uno stromate; sporulis hyalinis, curvatis, suballantoideis, $7-10 \approx 1\frac{1}{2}$.

Hab. in ramis emortuis Piri Mali in Kansas Amer. bor. (BARTHOLOMEW). — Differt a *Cytospora leucostoma* Pers. stromatibus et sporulis majoribus.

14. **Cytospora Abrotani** Fautr. *Rev. Mycol.* 1895, p. 167. — Cellula 3531
media a 6-8 aliis circumdata; cirris crassis, albis; sporulis allantoideis, 6-8 ≈ 2 ; basidiis acicularibus, 25-30 μ . longis.

Hab. in caulibus siccis *Artemisiæ Abrotani* in Gallia. — Sec. auct. verisimiliter status spermogonicus *Cucurbitariæ Abrotani* Fautr., sed stromatis fabrica nimis recedit.

15. **Cytospora sambucina** Ell. et Barth. *Erythea* 1897, p. 48. — 3532

Stromatibus convexis, $1-1\frac{1}{2}$ mm. diam., intus schistaceis, multilocularibus, corticem in pustulas elevantibus, unico poro pertusis; sporulis oblongo-allantoideis, $6-7 \approx 1\frac{1}{4}$.

Hab. in ramis emortuis *Sambuci canadensis*, Kansas Amer. bor. (BARTHOLOMEW).

16. **Cytospora melasperma** Fr. — Syll. III, p. 264. — var. **Fraxini** 3533

Allesch. *Hedw.* 1895, p. 265. — Peritheciis gregariis vel sparsis, atris, disco erumpente albedo; sporulis allantoideis, curvulis, utrinque obtusis, subhyalinis, in globulum vel cirrum rudem atrum expulsis, $6-7 \approx 1$.

Hab. in ramis emortuis *Fraxini excelsioris* in Bavaria australi (SCHNABL).

17. **Cytospora fraxinicola** P. Brun. *Act. Soc. Linn. Bordeaux* 1898, 3534

p. 13 extr. — Stromatibus subglobosis plurilocularibus, loculis albis, poro solo per epidermidem immutatam erumpente; cirris albis; sporulis ovoideis continuis, eguttulatis, hyalinis, rectis, $5 \approx 2$.

Hab. in ramis emortuis *Fraxini excelsioris*, Rochefort Galliæ.

18. **Cytospora annularis** Ell. et Ev. *Bull. Torr. Bot. Cl.* 1897, p. 288. 3535

— Stromatibus cortice interiore innatis, ovato-globosis, circiter

300 μ . diam., apice erumpentibus, ostiolo minuto, rotundo, annulo albo circumdato, loculis obsolete; sporulis allantoideis, 4-5 \approx 1 $\frac{1}{4}$; basidiis fasciculatis, 12 \approx 1 $\frac{1}{2}$, supra ramosis.

Hab. in cortice emortuo Fraxini Americanæ, S. Dakota Amer. bor.

19. **Cytospora opulina** Allesch. Ber. Bayr. Bot. Ges. IV. 1896, p. 34. 3536

— Stromatibus subcutaneis, subpulvinatis, plurilocularibus, 0,5-0,7 mm. latis, disco erumpente, griseo-albido, circulari, ostiolo centrali, nigro, vix prominente; sporulis cylindraceis, utrinque obtusis, leniter curvulis, hyalinis, 6-7 \approx 1-1 $\frac{1}{2}$; basidiis simplicibus, acicularibus, dense cæspitosis, hyalinis, 30-45 \approx 1 $\frac{1}{2}$.

Hab. in ramulis emortuis Viburni Opuli München, Bavaria, sociâ *Valsâ opulina* cujus status spermogonicus probabiliter est.

20. **Cytospora Elæagni** Allesch. Hedw. 1897, p. (162). — Stroma- 3537

tibus subcutaneo-erumpentibus, extus nigris, intus griseis, ostiolo unico prominulo; peritheciis vel loculis in basi stromatis radiatim dispositis, minutissimis; basidiis cæspitosis, basi ramosis, brevibus, filiformibus, continuis, ca. 15-20 \approx 1; sporulis cylindricis, continuis, utrinque obtusis, rectis v. leniter curvulis, ca. 7-8 \approx 1, hyalinis.

Hab. in ramulis corticatis Elæagni angustifolii pr. Berlinum Germaniæ (SYDOW).

21. **Cytospora subclypeata** Sacc. Malpighia 1896, p. 273, tab. VI, 3538

fig. 1. — Stromatibus sparsis, pustulatis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., tumidulis, epidermide atrata nitida velatis, intus inæqualiter pluriloculatis, griseis, disco minuto griseo; basidiis verticillato-ramosis, 25 \approx 1, ramulis acutis; sporulis allantoideis, curvis, 4-5 \approx 1.

Hab. in ramulis emortuis Rhododendri dahurici in Sibiria. — Similis *C. clypeatæ*.

25. **Cytospora Sassafras** Ell. et Ev. Field Columb. Mus. IX, 1896, 3539

p. 112. — Stromatibus dense sparsis, conicis, basi orbicularibus; 1 mm. diam., apice atro, nitido, erumpente, primo multilocularibus, dein unilocularibus; sporulis allantoideis, hyalinis, leniter curvulis, 4-5 \approx 1; basidiis simplicibus, 12 μ . longis, erectis.

Hab. in ramulis igne necatis Sassafras officinalis, Jamaica, Long Island Amer. bor. (STEWART).

26. **Cytospora Macluræ** Ell. et Barth. Erythea 1897, p. 48. — Stro- 3540

matibus subcuticularibus, irregulariter sparsis v. interdum subconfluentibus, 1-1 $\frac{1}{2}$ mm. diam., convexis, cortice immutato immersis, 4-8 cellularibus; ostioliis atris, nitidis, erumpentibus, scimitis

v. unitis et poro unico centrali pertusis; sporulis allantoideis, hyalinis, leniter curvulis, $5-6 \approx 1\frac{1}{2}$.

Hab. in ramis emortuis *Macluræ aurantiacæ*, Rooks County, Kansas Amer. bor. (BARTHOLOMEW). — *Valsæ Macluræ* Cke. et Ell. spermogonium.

27. *Cytospora juglandicola* Ell. et Barth. *Erythea* 1896, p. 23. — 3541

Stromatibus sparsis, orbicularibus, minutis, 1 mm. diam., multilocularibus, supra protuberantibus, disco minuto, niveo, centro pertuso, demum evanescente epidermidem perforantibus; sporulis allantoideis, hyalinis, leniter curvulis, $3\frac{1}{2}-4 \approx 1$; basidiis fasciculatis, 10-11 μ . longis, supra attenuatis.

Hab. in cortice ramorum igne necatorum *Juglandis nigræ*, Kansas Amer. bor. (BARTHOLOMEW).

28. *Cytospora mammosa* Mc Alp. *Addit. Fungi of Vine Austral.* 1898 3542

p. 39, fig. 51-53. — Peritheciis gregariis, sphaericis, hemisphaericis v. mammiformibus, $\frac{1}{4}$ mm. diam. vel $350 \approx 280$, erumpentibus, prominulis, contextu filamentoso, flavido, intus 2-plurilocularibus; sporulis allantoideis, exiguis, $5\frac{1}{2} \approx 1$, hyalinis; basidiis radiantibus, hyalinis, baculiformibus.

Hab. in baccis maturis *Vitis*, Ardmona Australiæ (ROBINSON).

29. *Cytospora Schulzeri* Sacc. et Syd. Sic dicenda *C. capitata* Sacc. et Schulz., *Syll.* III, p. 254, quam exstat anterior *C. capitata* Fuck. (1870).

CEUTHOSPORA Grev. — *Syll.* III, p. 277, X, p. 250, XI, p. 510.

1. *Ceuthospora Robiniæ* Pollacci, *Atti Ist. bot. Pavia*, 2 ser. V, 1896, 3543

p. 12 extr. — Stromatibus carbonaceis, sparsis, magnis, irregularibus, intus plurilocularibus; sporulis oblongo-cylindraceis, curvulis, hyalinis, $14-17 \approx 1 \mu$.

Hab. in ramis emortuis *Robiniæ Pseudacaciæ* in Ital. bor.

2. *Ceuthospora coffeicola* Delacr. *Bull. Soc. Mycol. de France* XIII, 3544

1897, p. 123, tab. X, fig. B. — Stromatibus brunneolis, subepidermicis, loculis inæqualibus irregularibusque, collo obtuso denique epidermidem perforante præditis; sporulis numerosissimis, hyalinis, oblongo-ovoideis, $5 \approx 1,5$; basidiis non visis.

Hab. in ramulis emortuis *Coffeæ arabicæ* in ins. Réunion Africæ.

3. *Ceuthospora Cattloyæ* Sacc. et Syd. *Ceuthospora minima* Delacr. 3545

Bull. Soc. Myc. de Fr. XIII, 1897, p. 107, tab. VIII, fig. C, nec Cke. et Harkn. — Maculis vagis, fusco-brunneis; peritheciis hy-

pophyllis erumpentibus, plerumque 3-ocularibus, tenuibus, ostiolatis; mycelio brunneo; sporulis ovoideis, hyalinis, $3\frac{1}{2} \times 1\frac{1}{2}$; basidiis subtilissimis, 8-10 μ . longis.

Hab. ad folia *Cattleyæ amethystinæ*, Amsterdam Hollandiæ.

Sect. 2. Phæosporæ.

SPHÆROSPIS Lév. em. Sacc. — Syll. III, p. 291, X, p. 251, XI, p. 511.

1. **Sphærospis Asiminæ** Ell. et Ev. — Syll. XI, p. 511. — var. **fructigena** Ell. et Ev. Field Columb. Mus. IX, 1896, p. 113. — Peritheciis minoribus quam in forma typica, 110-140 μ ., numerosissimis; sporulis 20-24 \times 9-12.

Hab. in fructibus *Asiminæ*, trilobæ in W. Virginia Amer. bor. (NUTTALL).

2. **Sphærospis Cnothæræ** Ell. et Ev. Field Columb. Mus. IX, 1896, p. 114. — Peritheciis sparsis erumpentibus, superficialibus, globosis, 200-225 μ . diam., interdum supra collabascens, ostiolo papilliformi donatis; sporulis oblongo-ellipticis, pallide brunneis, 20-25 \times 10-12, basidiis firmis brevioribus fultis.

Hab. in caulibus emortuis *Cnothæræ* biennis, W. Virginia Amer. bor. (NUTTALL).

3. **Sphærospis olivacea** Otth, Mittheil. nat. Gesell. Bern. 1866, p. 163. — Peritheciis immersis, ostiolo papillato sub epidermide poro per via latente; nucleo gelatinoso. demum expulso, atroinquinante; sporulis oblongis, utrinque obtusis, continuis (rarissime 1-septatis), 21-26 \times 8-9, plasmate grumoso, olivaceo faretis, dein fuscis, undique centrum spectantibus; basidiis hyalinis; paraphysisibus longioribus flexuosisque, demum evanescentibus, intermixtis.

Hab. in ramis *Tiliæ grandifoliæ* in Helvetia, socia *Masariella Curreyi*, cujus, teste Otthio, est pycnidium. Verisimiliter species eadem est ac *Sphærospis Maertensii* (West.) Sacc. Syll. III, p. 293.

4. **Sphærospis suspecta** Vestergr. Oefv. K. Vet.-Acad. Förh. 1897, n. I, p. 39. — Peritheciis sparsis, peridermio atro-nitido subelypeiformiter tectis, demum subprominulis, 250-300 μ . diam., nigris, apice poro pertusis, contextu membranaceo, parenchymatico, versus lumen perithecii minus distincto; sporulis plus minusve irregulariter ovoideo-ellipsoideis, 12-14 \times 7-8 vel subglobulosis, 9-10 μ .

diam., semper continuis, fuscis, sæpissime guttula majuscula in medio posita; basidiis rectis, simplicibus, 6-8 \approx 2, hyalinis, continuis.

Hab. in ramulis corticatis emortuis Corni sanguineæ in horto bot. Upsaliensi, Suecia. — *Diplodia mamillanæ* (Fr.) Sacc., que simul aderat, habitu similis, sed minor; sporulis perfecte continuis, minoribus, nec non contextu peritheciolorum interiore indistincto a specie illa bene differt.

5. *Sphæropsis Ailanthi* Ell. et Barth. Erythea 1897, p. 48. — Peri- 3550
theeciis sparsis, globosis, $\frac{1}{2}$ mm. diam., cortice interiore immatis et epidermidem in pustulas apice mox ruptas elevantibus; sporulis ellipticis v. late ellipticis, brunneis, 16-24 \approx 7-10.

Hab. in sarmentis emortuis Ailanthi glandulosi in Kansas, Amer. bor. (BARTHOLOMEW).

6. *Sphæropsis Triacanthi* Ell. et Barth. Erythea 1896, p. 81. — Pe- 3551
ritheciis sparsis, subcuticularibus, superficialibus, hæmisphæricis v. conico-hæmisphæricis, 400-600 μ . diam., atris, nitidis; sporulis ellipticis, fuscis, 15-22 \approx 9-11.

Hab. in ramis emortuis Gleditschiæ Triacanthi in Kansas Amer. bor. (BARTHOLOMEW). — Differt a *Sph. gleditschiæcola* Cke. peritheciis sparsis et sporulis minoribus.

7. *Sphæropsis Robiniæ* Ell. et Barth. Erythea 1896, p. 81. — Peri- 3552
ritheciis sparsis, in superficie corticis interioris immersis, 190-230 μ . diam., epidermidem in pustulas semiapplanatas elevantibus; ostiolo erumpente, minuto, papilliformi; sporulis oblongo-ellipticis, fuscis, 15-21 \approx 8-9.

Hab. in ramis emortuis Robiniæ Pseudacaciæ in Kansas Amer. bor. (BARTHOLOMEW).

8. *Sphæropsis Amorphæ* Ell. et Barth. Erythea, 1896, p. 23. — Pe- 3553
ritheciis dense sparsis, subcuticularibus, ovato-globosis, fere $\frac{1}{2}$ mm. diam., epidermidem elevantibus v. perforantibus, sed non erumpentibus; sporulis oblongo-ellipticis, brunneis, 20-22 \approx 7-8.

Hab. in ramis emortuis Amorphæ fruticosæ, Kansas Amer. bor. (BARTHOLOMEW).

9. *Sphæropsis kilimanuscharica* P. Henn. Engl. Jahrb. XXIII, p. 3554
541. — Peritheciis numerosis, cæspitosis, epidermide tectis, dein erumpentibus, punctiformibus, atris; sporulis subglobosis, fusco-atris, intus granulosis, 13-14 μ .

Hab. in caulibus exsiccatis Senecionis spec., Kilimandscharo, Afr. or. (VOLKENS).

10. *Sphæropsis Baccharidis* Allesch. Hedw. 1897, p. 240. — Perithe- 3555

ciis in loculis verruciformibus (gallis?) amphigenis, dense gregariis vel subcæspitosis, subglobosis, erumpentibus, atris; sporulis polymorphis, ovoideis, subpiriformibus, oblongis v. irregularibus, utrinque obtusis v. rotundatis, 1-2-guttulatis, brunneo-olivaceis; ca. 8-14 × 6-7.

Hab. in foliis vivis Baccharidis spec. pr. Concepcion in Chile (NEGER). — Ad *Haplosporellam* vergit.

11. **Sphærospis Lantanæ** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3556
p. 13 extr. — Peritheciis nigris globosis, gregariis, erumpentibus; sporulis ovoideo-oblongis, continuis, intense brunneis, 15-17 × 10.

Hab. in caulibus emortuis Viburni Lantanæ, Saintes Galliæ.

12. **Sphærospis Coriariæ** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, 3557
p. 13 extr. — Peritheciis sparsis, subglobosis, epidermide tectis, 450 × 335; contextu membranaceo, parenchymatico, olivaceo-fulgineo; sporulis elliptico-cylindræis, continuis, 20-25 × 10-12; basidiis sporulis brevioribus.

Hab. in Coriaria myrtifolia in horto bot. Genuæ Italiæ bor.

13. **Sphærospis Comptoniæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3558
p. 463. — Peritheciis cortice interiore innatis, ovato-globosis, acute papilliformibus, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam. aut gregarie sparsis et apicibus erumpentibus aut in corticis rimis confertis, annulariter dispositis et semierumpentibus; sporulis oblongo-ellipticis, brunneis, 16-22 × 8-12, interdum imperfecte septatis.

Hab. in ramis emortuis Comptoniæ asplenifoliæ, Colorado Amer. bor.

14. **Sphærospis ulmea** Ell. et Barth. Erythea 1897, p. 49. — Peritheciis copiosis æqualiter sparsis, minutis, 200-300 μ . diam., sublenticularibus, epidermidem in pustulas minutas plerumque non disruptas elevantibus; sporulis oblongo-ellipticis, brunneis, 15-21 × 8-10.

Hab. in ramis emortuis Ulmi americanæ, Kansas Amer. bor. (BARTHOLOMEW).

15. **Sphærospis Populi** Ell. et Barth. Erythea 1897, p. 49. — Gregaria; peritheciis cortice immersis, 200-260 μ . diam., epidermidem in pustulas applanatas, ostiolo minuto perforatas sed non ruptas, elevantibus; sporulis oblongis, obtusis, 15-22 × 7-9.

Hab. in ramis emortuis Populi moniliferæ in Kansas Amer. bor. (BARTHOLOMEW).

16. **Sphærospis Caltidis** Ell. et Ev. Americ. Natur. 1897, p. 428. — 3561

Peritheciis gregariis v. sparsis, subseriatis, circiter $\frac{1}{3}$ mm. diam., epidermide leviter elevata tectis; ostiolo conico-tuberculiformi, epidermidem perforante; sporulis oblongo-ellipticis, brunneis, 13-21 \approx 8-10.

Hab. in ramulis emortuis *Celtidis occidentalis* in Kansas Amer. bor. (BARTHOLOMEW).

17. *Sphæroopsis Ellisii* Sacc.-Syll. III, p. 300. — var. *Abietis* Fautr. 3562
Rev. Mycol. 1897, p. 55. — Δ typo differt sporulis 36-40 \approx 12-14.

Hab. in conis *Abietis pectinatæ* in Gallia.

18. *Sphæroopsis typhicola* Fautr. et Lamb. Rev. Mycol. 1897, p. 55. 3563
— Peritheciis minutis, nigris, ovoideis, laxe gregariis, innatis; sporulis numerosis, sub microsc. in cirros protrusis, ovalibus, regularibus, simplicibus, luteo-griseis, 10-12 \approx 5-6.

Hab. in foliis *Typhæ latifoliæ* in Gallia. — An *Coniothyrii* species?

19. *Sphæroopsis Phlei* Ell. et Ev. Americ. Natur. 1897, p. 429. — 3564
Peritheciis dense gregariis, erumpenti-superficialibus, nigris, ovatis, circiter $\frac{1}{4}$ mm. diam.; ostiolo papilliformi v. interdum conico; sporulis oblongo-ellipticis, brunneis, 18-22 \approx 7-10.

Hab. ad basim culmorum emortuorum *Phlei pratensis* pr. Newfield Amer. bor.

20. *Sphæroopsis Dearnessii* Sacc. et Syd. Sic nominanda est *Sphæroopsis Mori* Ell. et Ev. in Syll. XI. p. 513, quum exstet anterior *Sph. Mori* Berl. in Syll. X, p. 256.

21. *Sphæroopsis Karstenii* Sacc. et Syd. Sic nominanda est *Sphæroopsis Ulmi* Karst. in Syll. X, p. 257, quum exstet anterior *Sph. Ulmi* Sacc. et Roum. in Syll. III, p. 305.

CONIOTHYRIUM Corda — Syll. III, p. 305, X, p. 261, XI, p. 514.

1. *Coniothyrium olympicum* Allesch. Hedw. 1897, p. (162). — Ma- 3565
culis magnis, subcircularibus v. irregularibus, brunneis, dein are-scendo-expallentibus, indeterminatis, amphigenis. sæpe confluentibus et folium totum necantibus; peritheciis epiphyllis, innatis, prominulis, dein erumpentibus, nigris; sporulis ovalibus, utrinque rotundatis, continuis, olivaceis, ca. 4-6 \approx 2-2 $\frac{1}{2}$.

Hab. in foliis vivis v. languidis *Hellebori olympici* in horto botanico Berolinensi Germaniæ (SYDOW).

2. *Coniothyrium laburnicolum* P. Brun. Act. Soc. Linn. Bordeaux 1898, 3566
p. 14 extr. — Peritheciis sparsis globosis, vix erumpentibus; spo-

ralis globosis v. ovoideo-globosis interdum uniguttulatis, fuligineis, 5 μ . diam. v. 5-5 $\frac{1}{2}$ \times 4.

Hab. in ramis emortuis Cytisi Laburni, Saintes Galliæ.

3. **Coniothyrium olivaceum** Bon.-Sacc. Syll. III, p. 305. — var. **Ono-** 3567
nidis Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 18. — Peritheciis sparsis, epidermide tectis, erumpentibus, papillatis, globosis, circiter 100-150 μ . diam.; sporulis oblongis v. elliptico-oblongis, eguttulatis, continuis, 5-7 \times 2-3, dilute olivaceis.

Hab. in caulibus emortuis Ononidis spinosæ pr. München Baviariæ (SCHNABL).

4. **Coniothyrium Ononidis** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 119. 3568
— Peritheciis sparsis v. gregariis, atris, immersis, globosis, minutis, 100-150 μ ., apice perforatis, contextu celluloso; sporulis numerosis, hyalinis, dein brunneis, ovoideis, continuis, 5-7 \times 4-5.

Hab. in caulibus et foliis siccis Ononidis in Tunisia.

5. **Coniothyrium ribicolum** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3569
p. 14 extr. — Peritheciis globosis, subglobosis v. globoso-conicis, mox superficialibus, mox tectis dein erumpentibus, nigris; sporulis ovoideis v. ovoideo-oblongis, fuligineis, continuis, raro 1 v. 2-guttulatis, 3-4 \times 1 $\frac{3}{4}$ -2.

Hab. in ramis emortuis Ribis nigri, Saintes Galliæ.

6. **Coniothyrium tamaricolum** P. Brun. Act. Soc. Linn. Bordeaux 3570
1898, p. 14 extr. — Peritheciis sparsis v. gregariis globoso-conicis nigris; sporulis subglobosis v. subovoideis, intense olivaceis, interdum 1-guttulatis, 2 $\frac{1}{2}$ -6 μ . diam.

Hab. in ramulis emortuis Tamaricis anglicæ, Rochefort Galliæ.

7. **Coniothyrium abyssinicum** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3571
4 ser. VIII, 1896 (Microm. III, p. 7) et Rev. Mycol. 1896, p. 165, tab. CLXX, fig. 8. — Peritheciis globuloso-depressis, membranaceis, sparsis, initio epidermide velatis, dein subsuperficialibus, nigris, pertusis, 70-100 μ . diam., contextu fuligineo; sporulis subsphæroideis, 8-10 μ . diam., fuligineis, medio guttula magna instructis.

Hab. in caulibus emortuis Brayoræ anthelminthicæ in Abyssinia.

8. **Coniothyrium Salaciæ** Allesch. Hedw. 1897, p. 241. — Peritheciis 3572
superficialibus, carbonaceis, globosis, punctiformibus, nigris, 40-50 μ . diam.; sporulis oblongis, binucleatis, ca. 6-8 \times 3-4, utrinque rotundatis, olivaceis.

Hab. ad Asterinam Salaciæ Allesch. in foliis Salaciæ spec. pr. Goyaz Brasiliæ (GLAZIOU).

9. **Coniothyrium quercellum** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3573
p. 14 extr. — Peritheciis minutis, globosis, nigris, erumpentibus; sporulis ovoideis, fuliginis, $7-7\frac{1}{2} \times 2\frac{1}{2}$, biguttulatis, continuis.

Hab. in ramis junioribus Quercus pedunculatæ, Saintes Galliæ.

10. **Coniothyrium truncisedum** Vestergr. Oefv. K. Vet.-Acad Förh. 3574
1897, n. I, p. 40. — Peritheciis secus ligni fibras plus minusve distincte seriatis, præcipue rimas occupantibus, subsuperficialibus, basi leviter innatis, sphæroideo-applanatis, atris, 150 μ . diam., apice papillatis, subcarbonaceis, textura indistincte parenchymatica, subimpellucida; sporulis ovoideis v. subcylindraceis, utrinque rotundatis, luteolis, continuis, subinde utrinque guttula minima præditis, $4-7 \times 3$; basidiis non manifestis.

Hab. ad truncem Quercus in Gotlandia.

11. **Coniothyrium lupulinum** Bres. Malpighia XI, 1897, p. 311. — 3575
Peritheciis punctiformibus, globosis, atris, dense gregariis, subcutaneis, ostiolo acutiusculo erumpente; sporulis subglobosis, luteolis, 3×2 .

Hab. in sarmentis Humuli Lupuli in Italia bor. (CARESTIA).

12. **Coniothyrium Cedri** Roll. Bull. Soc. Myc. de Fr. 1896, p. 7, 3576
tab. I, fig. 8. — Peritheciis gregariis, nigris, membranaceis, globosis, $\frac{1}{10}-\frac{1}{5}$ mm. latis, ostiolo prominente instructis; sporidiis olivaceis, sæpe guttulatis, ovatis, $4-6 \times 2-4$.

Hab. in strobilis Pini Cedri pr. Paris Galliæ.

13. **Coniothyrium Smilacis** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 119. 3577
— Peritheciis superficialibus, sparsis v. gregariis, subglobosis, brunneis, poro pertusis, 100-130 μ . diam., contextu minute celluloso; sporulis numerosis, obscure fuscis, subglobosis, $4-6 \mu$. diam.

Hab. in ramulis Smilacis in Tunisia.

14. **Coniothyrium Setariæ** Atk. Bull. Cornell Univ. III, n. 1, 1897, 3578
p. 28. — Peritheciis minutis, immersis, 50 μ . diam., ostiolatis; sporulis anguste fusoidis, utrinque rotundatis, olivaceo-fuliginis, inæquilateralibus, $10-14 \times 2-3$.

Hab. in culmis emortuis Setariæ, Auburn, Alabama Amer. bor.

15. **Coniothyrium Equiseti** Lamb. et Fautr. Rev. Mycol. 1896; p. 142. 3579
— Peritheciis majusculis, oblongis, obtusis, tectis; sporulis oblongis, obtusis, luteo-brunneis, majuscule uniguttulatis v. 2-5-guttulatis, $8-10 \times 4-5$.

Hab. in caulibus Equiseti Telmatejæ in Gallia.

16. **Coniothyrium Imbricariæ** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3580 p. 18. — Peritheciis sparsis, gregariis, globosis, erumpentibus, subnitidis, atris, in disco nigrificato apotheciorum; sporulis minutissimis, globosis, flavido-brunneis, $2\frac{1}{2}$ -3 μ . diam.

Hab. in apotheciis Imbricariæ aspidotæ in Bavaria super. (SCHNABL).

17. **Coniothyrium Chamæropis** Sacc. et Syd. Sic dicendum est *Coniothyrium Palmarum* Cke. et Mass. in Syll. X, p. 266, quum exstet antèrius *C. Palmarum* Cda. in Syll. III, p. 318.

CHÆTOMELLA Fuck. — Syll. III, p. 321, X, p. 271, XI, p. 516.

1. **Chætomella Sacchari** Delacr. Bull. Soc. Mycol. de France XIII, 3531 1897, p. 123, tab. X, fig. E. — Peritheciis initio astomis, denique pertusis, nigro-olivaceis, e sphaerico applanatis; setis flexuosis, septatis, nigris, simplicibus v. interdum sursum falcatis, 200-350 \times 3; obtusatis; sporulis primo luteolis, granulatis, dein fuscis, quadriguttulatis, postremo una guttula magna, ægrius conspicua præditis, late fusoides, 10-18 \times 9 ν .; basidiis cylindræis, hyalinis.

Hab. in culmo exsiccato Sacchari officinalis in ins. Réunion Africæ.

CAPNODIASTRUM Speg. — Syll. X, p. 272, XI, p. 516.

1. **Capnodiastrum andinum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 231. 3532 — Maculis effusis, atris, crustaceis, hypophyllis, ex hyphis brunneis, 4 μ . crassis, repentibus, hyphopodiis destitutis compositis; peritheciis dimidiatis, atris, contextu radiante, 150-200 μ . diam.; sporulis brunneis, ovoideis, inferne attenuatis, grosse 1-2-guttulatis, 30 \times 13, basidiis hyalinis, simplicibus, brevibus 8-10 \times 3, suffultis.

Hab. in foliis arboris ignotæ in Æquatoria (v. LAGERHEIM).

HAPLOSPORELLA Speg. — Syll. III, p. 323, X, p. 273, XI, p. 516.

1. **Haplosporella mexicana** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 3533 p. 440. — Stromatibus numerosis, purpureo-nigris, erumpentibus, subseriatis, sæpe confluentibus et 1 cm. longis, 2-3 mm. latis, primo omnino tectis, dein epidermide fissa visibilibus, contextu molli, carnoso, applanato-pulvinatis, stipitem nigrificantibus; peritheciis confertis, 190-230 μ . diam., demum subconfluentibus; sporulis ob-

ovatis, hyalinis, dein brunneis, plerumque ellipticis, 15-22 \times 11-13; basidiis firmis, plerumque sporulas haud æquantibus.

Hab. in truncis emortuis Magnoliæ mexicanæ, Mexico (EGELING).

2. **Haplosporella Tillæ** Peck, 49 Rep. Stat. Bot. N. York, 1896, p. 23. 3524

— Peritheciis in pustulas numerosas confertas cortice immersas erumpentes congestis, subconicis, 3-10 in quaque pustula associatis, interdum solitariis, 300-400 μ . latis, nigris, poro minuto per-tusis; sporulis oblongis, obtusis, 21-24 \times 8.

Hab. in cortice ramorum Tillæ americanæ, New York Amer. bor.

3. **Haplosporella Francisci** Dom. Sacc. Atti d. Soc. Ven.-Trent. di 3583

Sc. Nat. 2 ser., 2 vol., 2 fasc. 1896, pag. 476, tab. I, n. 5 et Bull. Soc. Myc. de Fr. 1896, p. 77. — Stromatibus subsparsis, tectis, dein erumpentibus, conoideis, nigricantibus, $\frac{3}{4}$ -1 mm. diam., intus loculos v. perithecia 3-5 inæqualia atro-farcta continentibus; sporulis ellipsoideis, utrinque rotundatis, 20-22 \times 10-12, ferrugineo-fuscis; basidiis cylindraceutis, sporulâ paullo brevioribus, hyalinis.

Hab. in ramulis corticatis emortuis Rhamni cathartici in horto bot. Patavino, Italia bor.

4. **Haplosporella Negundinis** Ell. et Barth. Erythea 1896, p. 81. — 3586

Peritheciis caspitis, erumpentibus, depresso-globosis, $\frac{1}{3}$ mm. diam., ostiolo papilliformi; sporulis oblongis, obtusis, 20-25 \times 10-12, fuscis.

Hab. in ramis emortuis Negundinis aceroidis in Kansas Amer. bor. (BARTHOLOMEW).

5. **Haplosporella velata** Ell. et Barth. Erythea 1896, p. 24. — Stro- 3587

matibus orbicularibus v. ellipticis, obtuso-conicis, intus ardesiaceis, epidermide in pustulas elevata, supra fissa velatis, apice granulosis; peritheciis in loculos stromatis pallidos reductis; sporulis oblongis, obtusis, continuis, brunneis, 12-16 \times 5-6.

Hab. in ramis emortuis Celastri scandentis, Kansas Amer. bor.

6. **Haplosporella longipes** Ell. et Barth. Erythea 1896, p. 81. — 3588

Stromatibus depresso-globosis semierumpentibus, $\frac{3}{4}$ -1 mm. diam., nigris, sæpe supra collabentibus; peritheciis minutis, 6-10 in quoque stromate; sporulis oblongis v. oblongo-ellipticis, brunneis, 12-20 \times 5-6, sæpe leniter curvulis; basidiis gracilibus 75-90 μ . longis, paraphyses simulantibus.

Hab. in ramis emortuis *Mori* albæ, Kansas Amer. bor.

(BARTHOLOMEW).

7. **Haplosporella microspora** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3589
p. 464. — Peritheciis minutis, ovatis, in stroma 1-2 mm. diam.
nigrum pulvinatum ellipticum v. orbiculare confertis, apicibus pro-
minulis; sporulis oblongo-ellipticis, subacutis, 6-7 × 3.

Hab. in cortice *Quercus undulatæ*, Colorado Amer. bor.

8. **Haplosporella cumulata** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3590
p. 18. — Peritheciis cæspitosis v. dense aggregatis, erumpentibus
et epidermide fissa cinctis, subglobosis, rugulosis, papillatis, majus-
culis, nigris; sporulis magnitudine valde varia, ovoideis globosis
ve, continuis, primo subhyalinis, demum fusco-brunneis, 15-30 ×
12-20; basidiis 10-20 × 4-5, ex hyalino fusco-brunneis.

Hab. in ramulis dejectis arboris frondosæ indeterminatæ in Ba-
varia super.

Sect. 3. Phæodidymæ.

DIPLODIA Fr. — Syll. III, p. 329, X, p. 275, XI, p. 518.

1. **Diplodia Thalictri** E. et D. Proc. of the Canad. Inst. 1897, p. 92. 3591
— Peritheciis subcuticularibus, subgregariis, depresso-sphæricis v.
ellipsoideis, minutis, 150-200 μ . diam., trans epidermidem tenuem,
pustulatam, ostiolis papillatis pertusam visibilibus; ostiolis mox
deciduis; sporulis oblongo-cylindræis, obtusis, 1-septatis, pallide
brunneis, non constrictis, 8-10 × 3,5.

Hab. in caulibus emortuis *Thalictri polygami*, London,
Canada.

2. **Diplodia cisticola** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 14 3592
extr. — Peritheciis subglobosis nigris sparsis, erumpentibus; spo-
rulis oblongis utrinque rotundatis, 1-septatis constrictisque, fuli-
gineis, 12-14 × 5-6.

Hab. in ramulis emortuis *Cisti laurifolii*, Saintes Gallie.

3. **Diplodia ægyptiaca** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3593
ser. VIII, 1896, p. 64 et Rev. Mycol. 1896, p. 168, t. CLXXII,
fig. 1. — Peritheciis globosis, papillatis, minimis, superficialibus,
nigris, $\frac{1}{4}$ mm. diam.; sporulis magnis, ellipsoideis v. ovato-ob-
longis, 20-28 × 10-12, primum continuis, episporio crasso instructis,
intus gyroso-nucleolatis, pedicellatis, hyalinis, paraphysatis, demum
atris v. fuliginæis, 1-septatis, medio non constrictis; paraphysibus
gracilibus, filiformibus, brevibus, hyalinis, tenuiter granulosis.

- Hab.* in fructu exsiccato *Anonæ Perskalei* pr. Cairo Ægypti. — Var. **incrustans** F. Tassi i. c. fig. 2, *Dipl. Thevetiæ* F. Tassi, Hedw. 1896, p. XLIII. — Peritheciis densissime gregariis, crustam fere granulatam formantibus; sporulis initio anguste ellipticis, hyalinis, continuis, 12-18 × 4-5, dein fuliginosis, ovato-oblongis, 1-septatis, 20-26 × 10-14. — In drupa exsiccata *Cerberæ Thevetiæ* in India occid.
4. *Diplodia camelliæcola* P. Brun. Sphærops. Char. 1889, p. 50. — 3594
Peritheciis gregariis, tectis, ostiolo erumpente, globosis v. subglobosis, nigris; sporulis oblongis, 1-septatis, parum constrictis, fuliginosis, 22-25 × 10-12.
Hab. in ramis emortuis *Camelliæ japonicæ*, Saintes Galliæ.
5. *Diplodia Gayii* Boy. et Jacz.-Sacc. Syll. XI, p. 518. — Var. **ca-** 3596
psularum Sacc. Malpighia, XI, 1897, p. 311. — Sporulis ovatis, 9-11 × 4-5, olivaceo-fuliginosis, biguttatis.
Hab. in capsulis emortuis *Rutæ graveolentis*, Varallosesia, Italia bor. (CARESTIA).
6. *Diplodia Cocculi* D. Sacc. Mycoth. Ital. n. 154. — Peritheciis 3596
amphigenis, gregariis, subcutaneis, globosis, nigris, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., ostiolo prominulo erumpente; sporulis ellipsoideis, 21-27 × 12-15, uniseptatis, non constrictis, fuliginosis; basidiis simplicibus, 8-10 μ . longis, hyalinis.
Hab. in foliis languidis *Cocculi laurifoliæ*, in horto bot. Patavino.
7. *Diplodia celastrina* Ell. et Ev. Proc. Acad. Philad. 1895, p. 432. 3597
— Peritheciis cortice immersis minutis, $1\frac{1}{4}$ mm. diam., solitariis v. aggregatis, epidermidem elevantibus rumpentibusque, conspicuis sed non emergentibus, minute papillatis; sporulis variis, plerumque oblongo-cylindræis v. clavato-oblongis, uniseptatis, vix constrictis, obscure brunneis, subopacis, 18-22 × 7-8, vel regulariter ellipticis, dilute brunneis, minoribus, 20 × 7-8, valde constrictis.
Hab. in ramis emortuis *Celastris scandentis*, Kansas Amer. bor. (BARTHOLOMEW).
8. *Diplodia lophoceraoides* Ell. et Barth. Erythea 1896, p. 24. — 3598
Peritheciis gregariis, primo tectis, dein erumpentibus, globosis v. ellipticis, $\frac{1}{2}$ × $\frac{1}{4}$ mm.; ostiolo leviter compresso; sporulis oblongis, ellipticis, 15-20 × 6-7, 1-septatis, vix constrictis.
Hab. in ramis decorticatis *Negundinis aceroidis*, Kansas Amer. bor. (BARTHOLOMEW).

9. **Diplodia subtectoides** Peck, 48 Rep. 1896, p. 14. — Peritheciis 3599
minutis numerosis, erumpentibus, subseriatim digestis, lineis inter-
ruptis rectis v. flexuosis; sporulis obovatis v. ellipsoideis, continuis
v. 1-septatis, 12-15 \times 6,5-7,5.

Hab. in cortice *Aceris saccharini*, Alcove Amer. bor. (SHEAR).

10. **Diplodia paraphysata** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 288, 3600
— Peritheciis subcuticularibus, depresso-globosis, piloso-tomentosis,
nigris, intus albis, 300-400 μ . diam., dense sparsis v. hinc inde
binis trinis subconfluentibus, ostiolo papilliformi, epidermidem in
pustulas elevantibus demumque eam rumpentibus; sporulis ovato-
ellipticis, primo hyalinis, dein brunneis uniseptatisque, non con-
strictis, 22-27 \times 12-15, paraphysibus ramosis 100-110 μ . longis,
1 $\frac{1}{2}$ -2 μ . crassis commixtis basidiisque vulgo sporula brevioribus
fultis.

Hab. in cortice *Tiliæ*, W. Virginia Amer. bor. (NUTTALL).

11. **Diplodia Meliæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3601
ser. VIII, 1896 (Microm. III, p. 6) et Rev. Mycol. 1896, p. 167,
tab. CLXXI, fig. 9. — Peritheciis gregariis, primum epidermide
tectis, prominulis, dein erumpentibus, nigris, $\frac{1}{2}$ mm. diam.; spo-
rulis initio breviter stipitellatis, continuis, hyalinis v. lutescentibus,
granuloso-farctis, denique 1-septatis, non aut vix constrictis, ovato-
oblongis, rectis, utrinque rotundatis, plus minusve fuliginis, 17-
24 \times 10.

Hab. in ramis emortuis *Meliæ Azedarach* in horto botanico Senensi Italiæ.

12. **Diplodia Langloisii** Sacc. et Syd. *Diplodia Meliæ* Ell. et Ev. 3602
Bull. Torr. Bot. Cl. 1897, p. 288 nec Tassi. — Peritheciis sparsis
v. interdum binis trinis associatis, initio epidermide tectis, sed
mox suberumpentibus; sporulis oblongo-ellipticis, 17-20 \times 8-10,
denique uniseptatis.

Hab. in ramis emortuis *Meliæ Azedarach*, Louisiana Amer. bor. (LANGLOIS).

13. **Diplodia Sydowiana** Allesch. Hedw. 1897, p. (162). — Peritheciis 3603
sparsis, sæpe gregariis, epidermide postremo rupta tectis, dein
erumpentibus, globosis, atris; sporulis oblongis, sæpe subovoideis,
utrinque rotundatis, uniseptatis, ad septum primo non constrictis,
postremo valde constrictis, fuscis, ca. 18-22 \times 7-9; basidiis filifor-
mibus, sporulâ paullo longioribus.

Hab. in ramulis emortuis *Pruni japonicæ* pr. Berolinum Germaniæ (SYDOW).

14. **Diplodia rhodophila** Pass. - Sacc. Syll. X, p. 277. — f. **canina** P. 3604
Brun. Act. Soc. Linn. Bordeaux 1898, p. 15 extr. — Sporulis ellipticis brunneis, uniseptatis, guttulis 2 magnis faretis, ad septum non v. vix constrictis, 17-18 \approx 8-10.
Hab. in ramis spinisque Rosæ caninæ, Saintes Galliæ.
15. **Diplodia Rosarum** Fr. - Sacc. Syll. III, p. 338. — Var. **santonensis** P. Brun. Bull. Soc. Bot. Fr. 1893, p. 223. — 3605
Peritheciis tectis epidermidem fissam non nigrificantibus: sporulis elliptico-oblongis fuliginosis, granulosis, initio continuis grosseque uniguttatis, dein uniseptatis, non v. vix constrictis, 25-26 \approx 9-10.
Hab. in ramis emortuis Rosæ caninæ, Saintes Galliæ.
16. **Diplodia fructigena** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3606
p. 15 extr. — Peritheciis nigris sparsis erumpentibus; sporulis ovoideis uniseptatis, ad septum non constrictis, 10 \approx 5 $\frac{1}{2}$, fuliginosis.
Hab. in fructibus exsiccatis Cratægi Oxyacanthæ, Saintes Galliæ.
17. **Diplodia Barringtoniæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4. 3607
ser. VIII, 1896, p. 7 extr. et Rev. Mycol. 1896, p. 165, t. CLXXI, fig. 1. — Peritheciis tectis, dein epidermide fissa erumpentibus, $\frac{2}{3}$ mm. diam., in acervulos dense congregatis, globulosis, contextu violaceo-fusco; sporulis ovatis v. ovato-oblongis, initio continuis, episporio crasso ornatis, pedicellatis, hyalinis, dein medio 1-septatis, non constrictis, fuliginosis, 24-26 \approx 10-13.
Hab. in lacca exsiccata Barringtoniæ speciosæ in Tasmania.
18. **Diplodia indigiferæ** P. Brun. Sphærops. Char. 1889, p. 50. — 3608
Peritheciis tectis, dein erumpentibus, numerosis, sparsis v. gregariis, nigris, globosis, perforatis; sporulis ovali-oblongis, 1-septatis, plus minus constrictis, fuliginosis, 20-22 \approx 10-12.
Hab. in ramis emortuis Indigiferæ Dosuæ, Rochefort Galliæ.
19. **Diplodia subseriata** F. Tassi, Atti d. R. Acad. dei Fisiocr. Siena 3609
4 ser. vol. VIII, 1897, p. 4, fig. 4. — Peritheciis globulosis, hypodermicis, demum erumpentibus, nigris, pertusis, $\frac{1}{3}$ - $\frac{1}{2}$ μ . diam., in seriem dispositis v. sparse confluentibus; sporulis oblongis, 22-24 \approx 10-12, initio continuis, granuloso-faretis, hyalinis, tenue stipitellatis, dein medio septatis, valde constrictis, rarissime spurie 3-septatis.
Hab. in ramulis petiolisque Erythrophlei guineensis in Guinea, Africa occid.
20. **Diplodia cacaoicola** P. Henn. Fungi camerun. I, in Engl. Jahrb. 3610

XXII, 1895, p. 80. — Peritheciis sparsis, corticulis, innatis, nigris; sporulis ellipsoideo-oblongis v. subovoideis, medio 1-septatis, haud constrictis, utrinque obtusis, loculis 1-guttulatis, atro-fuliginis, 22-28 \times 12-14.

Hab. in ramis morboris *Theobromæ Cacao*, Kamerunia (PREUSS).

21. **Diplodia Cacti** Roll. Bull. Soc. Myc. de Fr. 1896, p. 7, tab. I, 3611
fig. 6. — Peritheciis minutis, nigris, sparsis, superficialibus, rotundis v. collapsis, ostiolatis, $\frac{1}{4}$ mm. latis; sporulis oblongis, ovalibus, numerosis, primitus hyalinis, dein dilute flavis, uniseptatis, non constrictis, eguttulatis, 6-8 \times 2-3.

Hab. in cladodiis *Cacti Opuntia*, Golfe Juan Gallia. — *A. D. Opuntiae* Sacc. absolute dissimilis.

22. **Diplodia Calycotomes** Roll. Bull. Soc. Myc. de Fr. 1896, p. 7, 3612
tab. I, fig. 4. — Peritheciis corticulis, sparsis, globosis, papillatis, parenchymaticis, dehiscentibus, rubiginoso-fuscis, $\frac{1}{2}$ mm. latis; sporulis numerosis, primo hyalinis, continuis, dein didymis, colore intense brunneo tinctis, sæpe guttatis, late ellipsoideis, fere rotundis, 5-7 \times 4-5, basidiis exiguis suffultis.

Hab. ad ramulos siccos *Calycotomes spinosæ*, Golfe Juan Gallia.

23. **Diplodia herbarum** (Cda.) Lév. - Sacc. Syll. III, p. 370. — f. **Conyzae** P. Brun. Sphærops. Char. 1889, p. 59. — Peritheciis sparsis, subconicis, nigris; sporulis brunneis, 1-septatis, leniter constrictis, 18 \times 10. 3613

Hab. in caulibus emortuis *Inulae Conyzae*, Saintes Gallia.

24. **Diplodia Chrysanthemi** F. Tassi, Atti R. Acc. dei Fisioc. Siena 4, 3614
ser. VIII, 1896, p. 6. extr. et Rev. Mycol. 1896, p. 166, t. CLXXI, fig. 4. — Peritheciis sparsis v. laxe gregariis, epidermide tumidula primitus velatis, dein lacerata cinctis, subglobosis, pertusis, nigris, circiter 200 μ . diam.; sporulis initio hyalinis v. dilute lutescentibus, valde granuloso-faretis, basidiis crassiusculis æquilongis fultis, inde liberis, olivaceis v. fuliginis, plerumque 1-guttulatis, globulosis v. ovoideis, 14-18 \times 10-12, denique oblongo-ellipsoideis, utrinque rotundatis, tarde raro 1-septatis, leniter constrictis, fuliginis, 20-22 \times 10-12.

Hab. in caulibus siccis *Pyrethri indici* in horto Senensi, Italia.

25. **Diplodia Asterisci** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 120. 3615
— Peritheciis sparsis, atris, globosis, 150-200 μ . latis; sporulis

ovoideis, 1-septatis, non vel vix constrictis, pallide fuliginosis, 6-7 \approx 3.

Hab. in involucris *Asterisci pygmæi* in Tunisia.

26. *Diplodia Haplopappi* Allesch. Hedw. 1897, p. 241. — Peritheciis 3616
dense gregariis v. cæspitosis, amphigenis, epidermide nigrificata
tectis, dein erumpentibus et subsuperficialibus, nigris, poro lato
pertusis; sporulis oblongis, medio septatis, utrinque rotundatis,
brunneis, ca. 8-10 \approx 4-5.

Hab. in foliis languidis v. emortuis *Haplopappi* spec. in
Chile (NEGER).

27. *Diplodia Tini* Sacc. - Syll. III, p. 359. — f. *minor* P. Brun. Act. 3617
Soc. Linn. Bordeaux 1898, p. 15 extr. — Sporulis ovoideo-oblon-
gis, 17-18 \approx 10.

Hab. in ramis emortuis *Viburni Tini*, Saintes Gallæ.

28. *Diplodia Saccardiana* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3618
ser. VIII, 1896, p. 64 et Rev. Mycol. 1896, p. 167, t. CLXXI,
fig. 11. — Peritheciis sparsis, epidermide tectis, dein erumpentibus,
globulosis, contextu fuligineo, 100-120 μ . diam.; sporulis ellipsoi-
deis, rectis, 1-septatis, vix constrictis, initio hyalinis, pedicellatis,
intus granulosis, inde luteis, denique fusco-fuligineis v. nigrican-
tibus, 18-20 \approx 8-9.

Hab. in ramulis siccis *Solani jasminoidis* in horto botanico
Senensi Italiæ.

29. *Diplodia Fabianæ* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3619
ser. VIII, 1896, p. 65 et Rev. Mycol. 1896, p. 167, tab. CLXXI,
fig. 12. — Peritheciis sparsis, parvulis, globulosis, contextu fuli-
gineo, 80-100 μ . diam.; sporulis minutis, oblongo-ellipsoideis,
1-septatis, pallide olivaceis, 10-12 \approx 3.

Hab. in ramulis *Fabianæ imbricatæ* in horto bot. Senensi
Italiæ. — Sporulis pallide olivaceis quamdam affinitatem cum ge-
nere *Diplodina* ostendit.

30. *Diplodia Bignoniæ* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3620
ser. VIII, 1896, p. 7 extr. et Rev. Mycol. 1896, p. 166, t. CLXXI,
fig. 3. — Peritheciis sparsis, epidermide tectis, globosis, pertusis,
nigris, $\frac{1}{4}$ - $\frac{1}{6}$ mm. diam.; sporulis initio breviter crassiuscule sti-
pitatis, ovatis, continuis, hyalinis v. subchlorinis, intus granulosis,
denum 1-septatis, ovato-oblongis, fuligineis, medio valde constri-
ctis, 15-17 \approx 8-9.

Hab. in ramulis emortuis *Bignoniæ capreolatæ* in horto
bot. Senensi, Italia.

31. *Diplodia minuta* Ell. et Tracy, Bull. Torr. Bot. Club. 1895, p. 177. 3621
 — Maculis indeterminatis, albidis peritheciis erumpentibus, sparsis, minutis, 90-120 μ ., membranaceis, levibus, ostiolatis; sporulis minutis, ovalibus, uniseptatis, non constrictis, dilute luteis, 6-8 \times 3-4.
Hab. in caulibus vivis *Tecomæ radicans*, sociâ *Pestalozziâ breviaristata*, Mississippi, Amer. bor.
32. *Diplodia Phyllarthri* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3622
 ser. VIII, 1896, p. 6 extr. et Rev. Mycol. 1896, p. 166, t. CLXXI, fig. 5. — Peritheciis globosis, subepidermicis, dein erumpentibus, dense sparsis, prominulis, atris, $\frac{1}{4}$ - $\frac{1}{5}$ mm. diam.; sporulis ovato-oblongis, initio pedicellatis, episporio crasso instructis, nucleolatis, hyalinis, denique violaceis v. fuliginis, 1-septatis, constrictis, 24-26 \times 12-14.
Hab. in ramis emortuis *Phyllarthri Bojeriani* in horto bot. Senensi, Italia.
33. *Diplodia Hyssopi* Sacc. et Fautr. sp. n. — Peritheciis sparsis, 3623
 innato-erumpentibus, globoso-conicis, nigris, 0,5 mm. diam., ostiolo papillato; sporulis oblongis, utrinque rotundatis, 1-septatis, non v. vix constrictis, 26 \times 10, initio flavis, dein brunneis.
Hab. in trunculis corticatis emortuis *Hyssopi officinalis* in hortis, Corombles, Côte-d'Or Galliæ. — Ab affini *D. Rosmarini* differt ostioli acutioribus, sporulis majoribus.
34. *Diplodia Ceanothi* Ell. et Barth. Erythea 1897, p. 49. — Peri- 3624
 theciis sparsis, tectis, minutis, 200 μ . diam., epidermidem elevantibus atque erumpentibus; sporulis oblongo-ellipticis, constrictis, obtusis, brunneis, 15 \times 7-8.
Hab. in ramis emortuis *Ceanothi ovati* in Kansas Amer. bor. (BARTHOLOMEW).
35. *Diplodia Camphoræ* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3625
 ser. VIII, 1896 (Microm. III, p. 6) et Rev. Mycol. 1896, p. 167, tab. CLXXI, fig. 8. — Peritheciis gregariis, innatis, epidermide tectis, leviter prominulis, globosis, nigris, $\frac{1}{2}$ - $\frac{1}{3}$ mm. diam.; sporulis ovato-oblongis, utrinque rotundatis, initio continuis, pedicellatis, granuloso-farctis, hyalinis v. pallide chlorinis, denique 1-septatis, flavidis v. aureis, inde plus minusve intense fuliginis, medio non v. plus minusve constrictis, 20-26 \times 10-12.
Hab. in ramis emortuis *Camphoræ officinarum* in horto bot. Senensi Italiae.
36. *Diplodia officinalis* Ell. et Ev. Proc. Acad. Philad. 1895, p. 433. 3626
 — Peritheciis subepidermicis, dense sparsis, depresso-globosis, 150-

200 μ . diam., epidermide nigricata in pustulas elevata ostiolo papilliformi pertusa tectis; sporulis oblongis, obscure brunneis, medio septatis, non constrictis, 15-22 \times 7-8.

Hab. in ramis emortuis *Sassafras officinalis*, New-York (HALSTED), Michigan (HOOKS).

37. **Diplodia Sassafras** Tracy et Earle, Bull. Torr. Bot. Club. 1895, p. 177. — Maculis magnis; peritheciis numerosissimis, nigris, hemisphaericis, erumpentibus, demum irregulariter apertis; sporulis numerosis, ovatis, fuscis v. subnigris, distincte hyalino-septatis, 13-14 \times 5-6. 3627

Hab. in ramis vivis *Sassafras*, Mississippi, Amer. bor.

38. **Diplodia Umbellulariæ** Ell. et Ev. Proc. Acad. Philad. 1895, p. 433. — Peritheciis sparsis, solitariis v. sæpius 3-6 seriatim dispositis, immersis, epidermidem elevantibus et in longitudine findentibus, 150-200 μ . diam., intus albidis; ostiolis minutis, papilliformibus; sporulis ellipticis, ad septum valde constrictis, obscure brunneis, obtusis, 16-20 \times 8-10, pedicellis sporulas æquantibus suffultis. 3628

Hab. in ramis emortuis *Umbellulariæ californicæ*, Pasadena Californiæ (Mc CLATCHIE).

39. **Diplodia Bresadolæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, ser. VIII, 1896, p. 7 extr. et Rev. Mycol. 1896, p. 165, t. CLXX, p. 10, *D. Styracis* Fr. Tassi in Hedw. 1896, p. XLIII. — Peritheciis dense sparsis, prominulis, erumpentibus, late pertusis, $\frac{1}{2}$ - $\frac{1}{3}$ mm. diam.; sporulis initio hyalinis, continuis, stipitellatis, dein didymis, ovato-oblongis, utrinque rotundatis, constrictis, intense olivaceis, 16-22 \times 8-10. 3629

Hab. in ramulis siccis *Styracis officinalis* in horto bot. Senensi, Italia.

40. **Diplodia Bumeliæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, ser. VIII, 1896, p. 8 extr. et Rev. Mycol. 1896, p. 165, t. CLXXI, fig. 2. — Peritheciis globosis, epidermide tectis, dein erumpentibus, nigris, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., contextu atro-fuligineo; sporulis ovato-oblongis, rectis, utrinque rotundatis, initio continuis, hyalinis vel pallide lutescentibus, plus minusve granuloso-færetis, inde 1-septatis, medio constrictis, dense fuliginis, 14-18 \times 6-8. 3630

Hab. in ramulis corticatis *Bumeliæ lycioidis* in horto bot. Senensi, Italia. — Socia plerumque *Phomæ Bumeliæ* F. Tassi.

41. **Diplodia Laureæ** Fautr. Rev. Mycol. 1895, p. 168. — Peritheciis confertis, crassis, erumpentibus, extus nigris, intus albis; 3631

sporulis oblongis, rotundatis, hyalinis, dein luteis, biseptatis (semper?), denique brunneis, $20 \approx 10$; basidiis sporulas æquantibus.

Hab. in ligno vivo ceso, dein exsiccato *Daphnes Laureolæ* in Gallia.

42. *Diplodia Thymelææ* Pat. Cat. rais pl. cell. Tunisie 1897, p. 120. 3632

— Peritheciis gregariis, subcutaneo-prominulis, atris, globosis, 200-250 μ . latis, poro pertusis, contextu celluloso; sporulis inquinantibus, ovoideis, brunneis, medio 1-septatis constrictisque, $8-10 \approx 5$, rarissime biseptatis.

Hab. in caulibus *Thymelææ hirsutæ* in Tunisia.

43. *Diplodia osyridella* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, 3633

ser. VIII, 1896, (Microm. III, p. 6) et Rev. Mycol. 1896, p. 167, tab. CLXXI, fig. 10. — Peritheciis aggregatis, exiguis, globoso-depressis, immersis, dein erumpentibus, $\frac{1}{4}-\frac{1}{5}$ mm. diam., contextu celluloso fuligineo; sporulis numerosissimis, initio globosis v. breviter ellipticis, continuis, subhyalinis v. pallide lutescentibus, dein ovato-oblongis, medio septatis, non vel leniter constrictis, dilute fuligineis, $7-10 \approx 4$.

Hab. in ramulis subdecorticatis *Osyridis albæ* in horto bot. Senensi Italiae. — Differt a *D. Osyridis* præcipue sporulis ovato-oblongis, non obtusis et circiter dimidio minoribus.

44. *Diplodia Hippophaëarum* Bres. in Sydow, Mycotheca Marchica, 3634

n. 3800. — Peritheciis subglobosis, gregariis, nigris, $\frac{1}{4}$ mm. latis, subcutaneis, epidermide rimoso-fissa, protuberantibus, ostiolo papillato; sporulis ellipticis, fuscis, ad septum vix vel haud constrictis, $20-24 \approx 8-10$, basidiis brevibus suffultis.

Hab. in ramis *Hippophaës rhamnoidis* pr. Berolinum Germania (SYDOW).

45. *Diplodia elæagnella* F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 3635

ser. VIII, 1896, p. 7 extr. et Rev. Mycol. 1896, p. 166, fig. CLXXI fig. 6. — Peritheciis subgregariis, subcutaneis, erumpentibus, globosis, atris, $\frac{1}{4}$ diam.; sporulis oblongis, rectis, initio continuis, hyalinis v. lutescentibus, tenuiter stipitellatis, dein atro-fuligineis, medio septatis, non constrictis, $18-22 \approx 8-9$.

Hab. in ramulis emortuis *Elæagni reflexæ* in horto bot. Senensi, Italia. — Affinis *D. Elæagni* Pass., sed differt quum ramulos pervadat et sporulas habeat minoris dimensionis.

46. *Diplodia atra* F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena, 3636

1898, fasc. I, p. 10, tab. X, fig. 5. — Peritheciis sparsis, subglobosis, primo epidermide tectis, dein vix superficie erumpentibus,

$\frac{1}{2}$ mm. diam., contextu atro-fuligineo; sporulis oblongis, didymis, constrictis, 16-18 \times 8-9, atro-fuligineis, sæpius uno loculo majore; basidiis hyalinis, brevibus.

Hab. in ramulis *Trachelospermi jasminoidis* in horto bot. Senensi, Italia.

47. *Diplodia rhizogena* Ell. et Barth. Erythea 1897, p. 49. — Peritheciis globosis, $\frac{1}{3}$ mm. diam., seriatim suberumpentibus; sporulis oblongis v. oblongo-ellipticis, brunneis, vix constrictis, 20-22 \times 8-10. 3637

Hab. in radicibus aeri diu expositis *Fraxini viridis*, Kansas Amer. bor. (BARTHOLOMEW). — *Diplodix seriata* De Not. affinis, sed sporulis majoribus diversa.

48. *Diplodia radicolola* F. Tassi, Atti R. Acc. dei Fisiocr. 4 ser. VIII, 1896, p. 7 extr. et Rev. Mycol. 1896, p. 166, tab. CLXXI, fig. 7. 3638
— Peritheciis erumpentibus, subgregariis, globosis, nigris, pertusis, circiter $\frac{1}{3}$ mm. diam., contextu atro-fuligineo; sporulis anguste ellipticis, initio continuis, dein 1-septatis, lenissime constrictis, fuligineis, 20-22 \times 4-5.

Hab. in radicibus *Aristolochiæ Serpentariæ*, Virginia, Amer. bor.

49. *Diplodia Aristolochiæ-Siphonis* Vestergr. Oefv. K. Vet.-Acad. Förh. 1897, n. I, p. 40. — Peritheciis in maculis dealbatis, fusco-cinctis, sæpe indistinctis, densiuscule sparsis, sphæroideis, 250-360 μ . diam., peridermio innatis, diu epidermide nigrescente tectis, demum per lacinias ejus arcte adhaerentes plus minusve prominulis, ostiolo papilliformi coronatis, membranaceis, nigris; textura indistincte parenchymatica, obscure fusea; sporulis cylindricis vel subovatis, 18-26 \times 9-11, didymis, ad septum non v. leviter constrictis, utrinque rotundatis, castaneo-brunneis, eguttulatis, basidiis hyalinis, 10-12 \times 2 $\frac{1}{2}$, continuis, rectis, eguttulatis suffultis. 3639

Hab. in sarmentis emortuis *Aristolochiæ Siphonis* in horto bot. Upsaliensi, Suecia.

50. *Diplodia Aristolochiæ* Bres. et Krieg. Hedw. 1897, p. 381. — Peritheciis subcutaneis, pustulatum exsurgentibus, dense gregariis, sphæroideis, $\frac{1}{4}$ mm. latis, contextu parenchymatico, fuligineo, sporulis fuseis, 1-septatis, subconstrictis, ellipticis v. clavatis, 25-29 \times 10-12; basidiis cylindraceis, 10-12 \times 4. 3640

Hab. in ramis *Aristolochiæ Siphonis* in hortis Kœnigstein Germaniæ. — An diversa a præcedente?

51. *Diplodia Landolphiæ* P. Henn. Engl. Jahrb. XXIII, p. 541. — Peritheciis sparsis, subhemisphæricis v. globoso-depressis, innato- 3641

erumpentibus, atris, intus pallidis, vix 0,3 mm. diam.; sporulis ovoideis v. ovoideo-ellipticis, utrinque obtusis, fuscis, dein atris, medio 1-septatis, haud constrictis, 23-27 \times 12-15.

Hab. in foliis exsiccatis Landolphiae Kirkii, Sansibar, Afr. or. (STUHLMANN).

52. **Diplodia Mühlenbeckiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, ser. VIII, 1896, p. 65 et Rev. Mycol. 1896, p. 167, tab. CLXXI, fig. 13. — Peritheciis sparsis, subcutaneis, globulosis, minutis, contextu atro-fusco, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; sporulis ovato-oblongis, ad septum vix constrictis, fuliginis, 10-20 \times 7-9; basidiis non visis.

Hab. in ramulis emortuis Mühlenbeckiæ complexæ in horto bot. Senensi Italiae.

53. **Diplodia celtidigena** Ell. et Barth. Erythea 1897, p. 49 syn. **Diplodia inquinans** Ell. et Barth. in Erythea 1896, p. 82 nec Westd. — Peritheciis sparsis vel 2-3 conglobatis, non confluentibus, cortice immersis, ostiolo papilliformi perforatis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; sporulis oblongo-ellipticis, fuscis, uniseptatis, vix constrictis, 12-15 \times 3-4, abundanter omissis et superficiem corticis nigricantibus.

Hab. in ramis emortuis Celtidis occidentalis (non *Negundinis aceroidis*) in Kansas Amer. bor. (BARTHOLOMEW).

54. **Diplodia clavispора** Ell. et Barth. Erythea 1896, p. 24. — Peritheciis erumpentibus, superficialibus, dense gregariis, conicis, asperis, nigris, 200 \times 100 μ . diam.; sporulis cuneiformibus, brunneis, 1-septatis, leniter constrictis, 6-8 \times 3- $\frac{1}{2}$.

Hab. ad lignum putridum Ulmi, Kansas Amer. bor. (BARTHOLOMEW).

55. **Diplodia Platani** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4, ser. VIII, 1896 (Microm. III, p. 6) et Rev. Mycol. 1896, p. 165, tab. CLXX, fig. 9. — Peritheciis subgregariis, exiguis, epidermide velatis, globulosis, pertusis, 80-100 μ . diam., contextu atro-fuligineo; sporulis cylindræis, rectis, utrinque obtuse rotundatis, 8-12 \times 4, initio hyalinis, continuis, dein 1-septatis, fuliginis.

Hab. in ramulis emortuis Platani orientalis, in horto publico Senensi Italiae.

56. **Diplodia calecutiana** F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena 1898, fasc. 1, p. 10, tab. X, fig. 6. — Peritheciis sparsis v. subgregariis, subcutaneo-erumpentibus, nucleo albo, ostiolo conoideo, longe prominulo, aërrimis, $\frac{2}{2}$ -1 mm. diam., carbonaceis, contextu dense fuligineo; sporulis oblongis, fuscis, magnis, didymis,

non constrictis, 30-35 × 15-16, initio continuis, hyalinis, plus minusve pedicellatis.

Hab in fructibus putrescentibus Fici altissimæ Calcutta (Calcutti) in India orient. — Species a *D. sycina* Mont. et *D. sycina carpophila* Thüm. bene distincta, tum forma perithecorum tum magnitudine sporularum.

57. **Diplodia Thujæ** West - Sacc. Syll. III, p. 359 (ubi diagnosis incom- 3647
pleta). — Sporulis maturis ovalibus, utrinque rotundatis, uniseptatis, fuliginéis, ca. 18-20 × 9-10; sporulis immaturis ovalibus, continuis, intus granulosis, ex hyalino subfuliginéis, ca. 20-22 × 8-10.

Hab. in foliis emortuis Thujæ spec. pr. Berolinum Germaniæ.

58. **Diplodia? subterranea** Ell. et Barth. Erythea 1896, p. 24. — 3648
Peritheciis erumpentibus, superficialibus. $\frac{1}{3}$ - $\frac{3}{4}$ mm. diam., substomis, membranaceis; sporulis brunneis, ellipticis, 1-septatis, constrictis, 6-8 × 3 $\frac{1}{2}$ -4; basidiis non visis.

Hab. ad lignum pineum subterraneum, Kansas Amer. bor. (BARTHOLOMEW).

59. **Diplodia cococarpa** Sacc. - Syll. III, p. 372. — Var. **malaccensis** 3649
F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena 1898, fasc. I, p. 11, tab. X, fig. 7. — Peritheciis subgregariis, subcutaneo-erumpentibus, globosis, atris, circiter $\frac{1}{2}$ mm. diam.; sporulis subglobosis, 12-14 × 10, 1-septatis, sæpius septo extra centrum posito, constrictis, membrana crassula ornatis, rufo-fuliginéis, pedicellis brevioribus, luteolis suffultis.

Hab. in epicarpio putri Cocos nuciferæ ex insula Singapor.

60. **Diplodia paraphysaria** Sacc. Bull. Soc. Roy. Bot. Belg. XXXV, 3650
1896, p. 130, tab. IV, fig. 6. — Peritheciis inæqualiter sparsis v. hinc inde paucis aggregatis, plerumque hypophyllis, innato-erumpentibus, dein emergentibus, globoso-conicis, 0,3-0,5 mm. d., nigris, hyphis fuscis, septatis basi cinctis, contextu duriusculo fuligineo; sporulis ovato-oblongis, dia continuis, hyalino-farctis (macrophomoideis), 30-32 × 15-16; paraphysibus filiformibus, 90-100 × 3, hyalinis, commixtis basidiisque brevibus fultis, tandem constricto-1-septatis, 28-30 × 14-15, atro-fuliginéis, paraphysibus rarescentibus.

Hab. in foliis emortuis Orchidearum epiphytarum in silvis Brasiliæ copiosa. — Sporulis diu macrophomoideis et paraphysibus presentibus species mox dignoscitur.

61. **Diplodia Rusci** Sacc. et Th. - Sacc. Syll. III, p. 370. — var. **ma-** 3651

crospora Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, p. 13 extr.

— Sporulis 20-23 \times 10-11,5.

Hab. in foliis Rusci Hippophylli in horto bot. Genue Italie bor.

62. *Diplodia macrospora* Earle, Bull. Torr. Bot. Cl. 1897, p. 29. — 3652

Peritheciis sparsis, magnis, carbonaceis, innatis, ostiolo erumpente, epidermidem elevante eamque rumpente; sporulis longissimis, atrofulgineis, irregulariter clavatis, basidiis brevibus gracilibus hyalinis suffultis, inæqualiter uniseptatis, vix constrictis, loculis sæpe biguttulatis, 70-80 \times 6-8.

Hab. in culmis vetustis, sporulis atratis, Zeæ Maydis in Alabama Amer. bor. (UNDERWOOD.)

63. *Diplodia Tylostomatis* Pat. Cat. rais. pl. cell. Tunisie 1897, p. 120. 3653

— Peritheciis gregariis, globosis, poro pertusis, matrice semiimmersis, atris, 120-150 μ . latis, contextu coriaceo, fuliginoso, nucleo albo; sporulis ovoideis, 1-septatis, medio constrictis, dilutissime fuligineis, 8-10 \times 3-4.

Hab. in stipite Tylostomatis volvulati in Tunisia.

64. *Diplodia Ampelopsidis* Allesch. in Syll. XI, p. 518 verisimiliter cum homonyma *D. Ampelopsidis* Brun. in Syll. X, p. 280 identica est.

65. *Diplodia Cookei* Sacc. et Syd. Sic dicenda est *Diplodia Marsdeniæ* Cke. et Mass. in Syll. XI, p. 520, quum exstet anterior *D. Marsdeniæ* Thuem. in Syll. III, p. 365.

66. *Diplodia Boyerii* Sacc. et Syd. Sic dicenda est *Diplodia Psoraleæ* Boy. et Jacz. in Syll. XI, p. 519, quum exstet anterior *D. Psoraleæ* (Cast.) Karst. et Har. in Syll. X, p. 276.

67. *Diplodia Oudemansii* Sacc. et Syd. Sic dicenda est *Diplodia Sarothamni* Oud. in Syll. XI, p. 519, quum exstet *D. Sarothamni* Cke. et Harkn. in Syll. III, p. 337.

LASIODIPLODIA Ell. et Ev. Bot. Gaz. XXI, 1896, p. 92 (Etym. *lasios*, pilosus, et *Diplodia*). — Perithecia mycelio fusco circumdata et stromate inclusa; basidia et sporule paraphysibus intermixta; cetera ut in gen. *Diplodia*.

1. *Lasiodiplodia tuberculata* Ell. et Ev. l. o. — Peritheciis globosis, 3654

250-350 μ ., parte cava 175-190 μ ., mycelio valde evoluto fusco septato, parce ramoso circumdatis, stromate minuto hemisphærico erumpente circiter 1 mm. diam., inclusis, concavis; sporulis ellipticis, breve stipitatis, primo hyalinis continisque, demum brunneis,

uniseptatis, ad septum non constrictis, 18-22 \times 11-14, paraphysibus sporulas superantibus. 45-55 μ . longis, basidiis intermixtis.

Hab. in tuberibus Solani tuberosi ex insula Java importatis in Louisianam Amer. bor.

CHÆTODIPLODIA Karst. — Syll. III, p. 371, X, p. 292, XI, p. 521.

1. **Chætodiplotia tiliacea** P. Henn. Engl. Jahrb. XXIII, 1896, p. 289. 3655
 — Peritheciis aggregatis, superficialibus, subcarbonaceis, atris, setulis septatis, 3-4 μ . crassis, atris; sporulis ellipsoideis vel subovoideis. medio 1-septatis, haud constrictis, utrinque obtusis, atris, 21-25 \times 11-14.

Hab. ad corticem Tiliaceæ ejusdam in ins. Upolu samoens (REINECKE).

DIPLODIELLA Karst. — Syll. III, p. 375, X, p. 293, XI, p. 521.

1. **Diplodiella striispora** Ell. et Barth. Erythea 1896, p. 24. — Peritheciis superficialibus, ovatis, opacis, 300-400 μ . diam., perforatis; ostiolo prominente, papilliformi; sporulis ellipticis, obscure brunneis, 1-septatis, vix constrictis, striatis. 18-23 \times 12-14. 3656

Hab. in trunco decorticato Gossypii, Kansas Amer. bor. (BARTHOLOMEW).

2. **Diplodiella Camphoræ** Dom. Sacc. Atti d. Soc. Ven.-Trent. di Sc. Nat. ser. 2, vol. 2, fasc. 2, 1896, p. 27 extr. tab. I, n. 6 et Bull. Soc. Myc. de Fr. 1896, p. 78. — Peritheciis gregariis, sub-superficialibus, epixylis, globoso-papillatis, nigris, $\frac{1}{4}$ mm. diam.; sporulis ellipsoideo-oblongis, constricto-uniseptatis, apice rotundatis, 18-21 \times 8, fuligineis; basidiis bacillaribus, brevioribus. 3657

Hab. in disco ramorum cæsorum Camphoræ officinarum in horto bot. Patavino Italiae. — Affinis *D. quercellæ*.

3. **Diplodiella Banksiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 1896 (Microm. III, p. 6) et Rev. Mycol. 1896, p. 168, tab. CLXXII, fig. 3. — Peritheciis sparsis, paucis, superficialibus, contextu dense olivaceo; sporulis numerosis, irregulariter angulato-oblongis, utrinque attenuatis v. anguste rotundatis, 1-septatis, non v. parum constrictis, 2-nucleato-foveolatis, fuligineis, 8-10 \times 4,5. 3658

Hab. in folliculo vetusto Banksiæ marginatæ in Australia.

4. **Diplodiella** (Pellionella) **Cardonia** Flag. et Sacc. Bull. Soc. Myc. de Fr. 1896, n. 68, tab. VI, fig. 1. — Peritheciis sparsis v. gregariis, erumpenti-superficialibus, globulosis. $\frac{1}{4}$ - $\frac{1}{8}$ mm. diam., sub- 3659

carbonaceis, nigris, ostiolo conico-rostellato, interdum perithecium subæquante; sporulis didymis, constrictulis, 18-22 \times 10-12, olivaceo-fuliginis, 2-guttatis; basidiis brevibus, 6-7 \times 3, hyalinis.

Hab. in caule decorticato Brassicæ oleraceæ pr. Rigny Galliæ. — Genus vel subgenus *Pellionella* (egregio mycologo V. PÉGLION, Romæ, dicatum) est quasi *Diplodiella* rostellata seu *Rhynchophoma* phæodidyma.

BOTRYODIPLODIA Sacc. — Syll. III, p. 377, X, p. 294, XI, p. 522.

1. **Botryodiplodia Cratægi** Vestergr. Ofv. K. Vet.-Acad. Förh. 1897, 3660 n. I, p. 40. — Peritheciis 6-10 in stromate corticali, valseiformi, radiatim v. in circulum dispositis, demum corticem pustulatam elevatam perforantibus, sphæroideo-subconicis, demum collapsis, 0,4-0,5 mm. diam., membranaceis, nigris, plus minusve distincte parenchymatico-contextis, ostiolis longiusculis, demum deciduis; sporulis 13-14 \times 5-6, cylindræis, utrinque rotundatis, medio 1-septatis, non constrictis, subfuliginis, eguttulatis.

Hab. in ramis emortuis corticatis Cratægi pr. Upsaliam Sueciæ.

2. **Botryodiplodia betulina** Ell. et Dearn. Bull. Torr. Bot. Cl. 1897, 3661 p. 464. — Peritheciis cortice interiore insidentibus, per epidermidem 4-10 consociatis erumpentibus, interdum solitariis, depressoglobosis, 400-500 μ . diam., ostiolo papilliformi donatis; sporulis ellipticis, ad septum leniter constrictis, 15-22 \times 10-12 (sec. Dearness 25-30 μ . longis).

Hab. in cortice betulino, Canada Amer. bor.

3. **Botryodiplodia Mirbeckii** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 121. 3662 — Peritheciis superficialibus, dense gregariis, subglobosis, macula stromatica, atra, latissime effusa; insidentibus, $\frac{1}{3}$ mm. latis, carbonaceis; sporulis cuneiformibus, medio 1-septatis, non v. vix constrictis, rarissime continuis v. 3-septatis, fusco-brunneis, 8-10 \times 4-5.

Hab. in ligno denudato Quercus Mirbeckii in Tunisia.

4. **Botryodiplodia ostiolata** Ell. et Ev. Proc. Acad. Philad. 1895, 3663 p. 433. — Peritheciis fasciculatis, 12-20-aggregatis, conico-cylindræis, 1-1 $\frac{1}{2}$ mm. longis, intus albis, basi in stromata atra subcuticularia conjunctis, per epidermidem crassam erumpentibus; sporulis ellipticis, 20-25 \times 11-12, uniseptatis, brunneis.

Hab. in cortice Quercus albæ, Ohio Amer. bor. (MORGAN).

5. **Botryodiplodia Musangæ** P. Henn. Engl. Jahrb. XXIII, p. 541. 3664 — Innata, prominens; pustulis subglobosis, aggregatis, confluentibus, atris, carbonaceis, ostiolis prominulis; sporulis ovoideis v.

ellipsoideis, utrinque rotundatis, primo hyalinis, continuis, intus granulatis, dein medio septatis, fuscis, 23-30 \times 15-18.

Hab. in petiolis ramulisque *Musangæ Smithii*, Gabun (SOY AUX).

6. **Botryodiplodia Chamæropis** Delacr. Bull. Soc. Mycol. de France 3665
XIII, 1897, p. 123, tab. X, fig. D. — Maculicola; macula irregulari, centro ex albido luteola, in vicino marginis castaneo-brunnea; stromatibus conicis, nigris, secus longitudinem sub epidermide tumida dispositis, 280-300 μ . latis; sporulis brunneis, ovatis, rectis v. subcurvulis, uniseptatis, septo non vel vix constrictis, 9 \times 4; basidiis non visis.

Hab. in rachide folii *Chamæropis canariensis* pr. Toulon Galliæ. — Cum *Haplosporella dothideoidi* Sacc. non comparanda.

7. **Botryodiplodia Sorghi** P. Henn. Pilz. Ostaf. p. 34. — Peritheciis 3666
innatis, dein erumpentibus, epidermide rupta cinetis, subglobosis v. hemisphaericis, aggregatis, sæpe confluentibus. carbonaceo-atris, ostiis prominulis, sporulis ellipsoideis v. ovoideis, obtusis, medio septatis vix constrictis, fuscis v. atro-fuscis, 22-29 \times 11-15; basidiis filiformibus, inæquilongis, hyalinis.

Hab. in culmis *Sorghi* in Africa trop. (HOLST)

Sect. 4. Hyalodidymæ.

ASCOCHYTA Lib. — Syll. III, p. 384, X, p. 295, XI, p. 522.

1. **Ascochyta indusiata** Bres. Hedw. 1896, p. 199. — Maculis epi- 3667
phyllis, fuscis, subcircularibus v. ovoideis, atro-zonatis; peritheciis fere superficialibus, globoso-subovoideis, sparsis, indusiatis, 180-210 μ . diam.; sporulis subcylindraceis, uniseptatis, ad septum subconstrictis, 18-24 \times 6, hyalinis.

Hab. in foliis *Clematidis erectæ* pr. Meissen Saxonæ (KRIEGER).

2. **Ascochyta althæina** Sacc. et Bizz. - Syll III, p. 399. — var. **major** 3668
P. Brun. Sphaerops. Char. 1889, p. 62. — Maculis sordide brunneis, angulosis, dein pallescentibus, sæpe confluentibus; peritheciis punctiformibus, nigris; sporulis subfusiformibus, 1-septatis, hyalinis, 12 $\frac{1}{2}$ -14 \times 3.

Hab. in foliis languescentibus *Althææ officinalis*, Saintes Galliæ.

3. **Ascochyta baccicola** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3669
p. 15 extr. — Peritheciis globosis nigris, dense gregariis, erum-

pentibus; sporulis ovoideo-oblongis v. oblongis, hyalinis, uniseptatis non constrictis, interdum biguttatis, $12\frac{1}{2}$ -15 \approx 7-7 $\frac{1}{2}$.

Hab. in fructibus maturis *Vitis viniferæ*, Charente Galliæ.

4. **Ascochyta evonymicola** Allesch. Hedw. 1897, p. (162). — Maculis 3670
amphigenis, irregularibus, primum rufo-brunneis, dein exarido-albidis, rufo-brunneo v. aurantiaco-marginatis; peritheciis exiguis, amphigenis, globoso-lenticularibus, fusco-nigris; sporulis oblongis, utrinque rotundatis, uniseptatis, ad septum parum constrictis, hyalinis, ca. 9-13 \approx 3-4.

Hab. in foliis adhuc vivis v. languidis *Evonymi europææ* pr. Berolinum Germaniæ. (Srdow).

5. **Ascochyta Telephii** Vesterg. Oefv. K. Vet.-Acad. Förh. 1897, 3671
n. I, p. 41. — Maculis amphigenis, ampliusculis, ad 1 mm. diam., rotundatis irregularibusve, margine atro v. atro-purpureo, plus minusve distincto, latiusculo cinctis; peritheciis amphigenis, præcipue in pagina superiore insidentibus, sparsis, nudo oculo ægre conspicuis, matrice innatis, epidermide diu velatis, membranaceis, nigris, apice poro pertusis, 75-100 μ . diam.; sporulis 9-12 \approx 4-5, cylindricis, medio 1-septatis, non constrictis, eguttulatis, hyalinis; basidiis non observatis.

Hab. in foliis vivis *Sedi Telephii* in Suecia.

6. **Ascochyta Sedi** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 34. 3672
— Peritheciis sparsis, epidermide tectis, dein erumpentibus, conicis, papillatis, nigris; sporulis subfusoidis, utrinque obtusiusculis, 1-septatis, non constrictis, fuscidulis, 8-12 \approx 2-2 $\frac{1}{2}$.

Hab. in caulibus emortuis *Sedi* affinis pr. München Bavariæ.

7. **Ascochyta Silenes** Ell. et Ev.-Sacc. Syll. X, p. 301. — f. **Cerastii** 3673
Sacc. Malpighia XI, 1897, pag. 312. — Sporulis 12 \approx 3-4, uniseptatis, non constrictis, hyalinis.

Hab. in foliis *Cerastii arvensis*, Riva-Valdobbia, Italia (CARESTIA).

8. **Ascochyta Stellaris** Fautr. Rev. Mycol. 1896, p. 68. — Peritheciis 3674
minutissimis, membranaceis, contextu tenui atro-nitido, rotundatis, innatis, ostiolo solo prominente; sporulis cylindraceis, rotundatis, hyalinis, 2 vel pluriguttulatis, primo simplicibus, dein medio uniseptatis, haud constrictis, 16-23 \approx 5-6.

Hab. in foliis *Stellaris gramineæ* Côte-d'Or in Gallia.

9. **Ascochyta Sophoræ** Allesch. Hedw. 1897, p. (163). — Peritheciis 3675
sparsis, epidermide tectis, dein erumpentibus, nigris; sporulis sub-

cylindraceis, utrinque obtusiusculis, uniseptatis, haud constrictis, ca. 10-14 \times 2, subhyalinis.

Hab. in ramis *Sophoræ japonicæ* pr. Berolinum, socio *Fusario Sophoræ* Allesch. (SYDOW).

10. **Ascochyta Saccardiana** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 1896, pag. 6 extr. et Rev. Mycol. 1896, pag. 168, p. CLXXII, fig. 4, *A. Julibrissin* F. Tassi, Hedw. 1896, p. XLIII. — Maculis indeterminatis, arescendo expallentibus; peritheciis sparsis, punctiformibus, lenticularibus, pertusis, 180-200 μ . diam.; sporulis oblongis, cylindraceis, utrinque obtusiusculis, 1-septatis, vix constrictis, dilute chlorinis, 10-12 \times 4.

Hab. in leguminibus dejectis Albizziæ Julibrissin in horto botanico Senensi Italiæ.

11. **Ascochyta Amorphæ** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3677 p. 34. — Peritheciis sparsis, epidormide dein fissa tectis, globoso-depressis, pertusis, nigro-brunneolis; sporulis fusioideo-oblongis, utrinque acutiusculis vel obtusiusculis, medio 1-septatis, ad septum non vel vix constrictis, ex hyalino fuscidulis, 8-15 \times 2-3; basidiis filiformibus, brevibus.

Hab. in ramulis emortuis *Amorphæ fruticosæ* pr. München Baviariæ.

12. **Ascochyta cratægicola** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3678 p. 18. — Maculis epiphyllis, subcircularibus v. confluentibus et irregularibus, arescendo dealbatis, obscure marginatis, 1½-6 mm. latis; peritheciis epiphyllis, epidermide tectis, crumpeantibus, nigris; sporulis oblongis, utrinque obtusiusculis, 1-septatis, subhyalinis, non v. vix constrictis, 10-16 \times 2-3.

Hab. in foliis emortuis *Cratægi Oxycanthæ*, sociâ *Septoriâ Cratægi* Kekx. et *Hendersoniâ* spec. in Franconia super. (ROHN-FELDER).

13. **Ascochyta Cruris-galli** P. Brun. Sphærops. Char. 1889, p. 60. 3679 — Maculis rotundatis vel subangulosis, albis, brunneo-marginatis; peritheciis sparsis, minutissimis, non numerosis, nigris; sporulis subfusiformibus, utrinque rotundatis, 1-septatis, constrictis, hyalinis, 10-14 \times 3.

Hab. in foliis languescensibus *Cratægi Cruris-galli*, Saintes Galliæ.

14. **Ascochyta Ferulæ** Pat. Enum. Champ. Tunisie 1892, p. 17. — 3681 Maculis albidis, cauliculis, magnam caulium partem occupantibus; peritheciis sparsis, nigris, nitentibus, subepidermicis, intus albis,

$\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., ostiolo brevi, erumpente; sporulis numerosissimis, hyalinis, elongatis, obtusis, utrinque rotundatis, 1-septatis, rarius 2-septatis, ad septum constrictis, guttulatis, 18-21 \times 4-6.

Hab. in caulibus emortuis *Ferulae*, Monastir Tunisiae.

15. *Ascochyta Doronici* Allesch. Hedw. 1897, p. (162). — Maculis 3681
magnis, ovoideis, amphigenis, cinereo-fuscis v. subochraceis, obscurius marginatis; peritheciis innatis, prominulis, fuscis; sporulis oblongis v. oblongo-cylindraceis, utrinque obtusis v. rotundatis, rectis, rarius leniter curvulis, uniseptatis, ad septum sæpe subconstrictis, hyalinis. ca. 8-12 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$.

Hab. in foliis vivis *Doronici caucasicus* pr. Berolinum Germaniæ (SYDOW).

16. *Ascochyta Hybseyami* Pat. Cat. rais. pl. cell. Tunisie p. 121. — 3682
Maculis amphigenis orbicularibus, fuscis, 5-15 mm. latis; peritheciis epiphyllis sparsis, numerosis, minutis, 120-180 μ . latis, pallide fusco-brunneis, contextu celluloso; sporulis hyalinis cylindraceis, utrinque rotundatis, medio 1-septatis, vix constrictis, 20-22 \times 5-7.

Hab. in foliis languescentibus *Hybseyami* in Tunisia.

17. *Ascochyta tatarica* Allesch. Ber. Bayr. Bot. Ges. IV. 1896. p. 34. 3683
— Peritheciis sparsis, epidermide tectis, lenticularibus, fusco-nigris; sporulis fuscoideis, utrinque obtusis, medio 1-septatis, ad septum parum constrictis, hyalinis, 8-13 \times 2 $\frac{1}{2}$ -3; basidiis non visis.

Hab. in ramulis emortuis *Lonicerae tataricæ*, sociâ *Phoma tataricæ* Allesch. pr. München Baviariæ.

18. *Ascochyta Plumbaginis* Sacc. in Sydow, Mycotheca Marchica 3684
n. 1885. — Maculis ochraceo-fuscis; peritheciis punctiformibus, 100 μ . diam., pertusis, gregariis; sporulis oblongis, uniseptatis, constrictis, 12-15 \times 5-6, hyalinis, sæpe 2-guttulatis.

Hab. in foliis vivis v. languidis *Plumbaginis europææ* in horto bot. Berol. (SYDOW).

19. *Ascochyta Fraseræ* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 289 3685
— Peritheciis sparsis, subcuticularibus, depresso-globosis, 80-100 μ . diam., supra perforatis, contextu celluloso membranaceo; sporulis oblongis obtusis, uniseptatis, medio angustioribus, hyalinis, 12-15 \times 4-5.

Hab. in caulibus *Fraseræ speciosæ*, Colorado Amer. bor.

20. *Ascochyta Orobanches* F. Tassi, Atti R. Acc. dei Fisiocr. Siena, 3686
4 ser. VIII. 1896, p. 8. extr. et Rev. Mycol. 1896, pag. 169, tab. CLXXII, fig. 7. — Peritheciis epicorollinis, punctiformibus, sparsis, lenticularibus, 80-100 μ . diam., contextu lutescente; spo-

rulis numerosis, ovatis v. ovato-oblongis, dilute olivaceis v. raro hyalinis, initio continuis, tardo medio 1-septatis, non v. leniter constrictis, obsolete 2-guttulatis, 4-6 \approx 2-3.

Hab. in corollis exsiccatis *Orobanches*, sociâ *Phomâ Orobanches* C. Mass., in agro Senensi Italiae.

21. **Ascochyta Convolvuti** Fautr. Rev. Mycol. 1895, p. 167. — Maculis 3687
griseolis; peritheciis semiglobulosis, laxè gregariis, interdum ægre conspicuis, late pertusis; sporulis cylindraceis, oblongo-subclavulatis, obtusis, ad septum constrictis, hyalinis, 10-14 \approx 4-4 $\frac{1}{2}$, interdum biseptatis.

Hab. in caulibus siccis *Convolvuli arvensis*, Côte-d'Or in Gallia. — *A. sarmenticiv* affinis.

22. **Ascochyta Leonuri** E. et D. Proc. of the Canad. Inst. 1897, 3688
p. 92. — Maculis numerosis, tenuibus, 1-1,5 mm. diam., subbullatis, rotundis v. angulosis, demum confluentibus et tunc folii partis læsæ lapsum efficientibus; peritheciis utrinque conspicuis, 150-170 μ . diam.; sporulis oblongo-cylindraceis, 1-septatis, pallidis, 14-17 \approx 3,5-4.

Hab. in foliis *Leonuri Cardiacæ*, London, Canada.

23. **Ascochyta Hanseni** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 464. 3689
— Maculis amphigenis, irregularibus, definitis, 2-10 mm. diam., superne livido-purpureis, inferne pallidioribus, subrufis; peritheciis hypophyllis, erumpentibus, convexis, papillatis, 120-150 μ . diam.; sporulis oblongo-cylindraceis, leniter curvuis, brunneolis, obtusis, 1-septatis, non constrictis, interdum 2-septatis, 15-20 \approx 6.

Hab. in foliis *Arbuti Menziesii*, California (HANSEN).

24. **Ascochyta laurina** F. Tassi, Atti d. R. Acad. dei Fisiocr. Siena 3690
4 ser. vol. VIII, 1897, p. 4, fig. 3. — Maculis versiformibus, plerumque marginalibus, arescendo-albicantibus, linea tenui rufula cinctis; peritheciis sparsis, punctiformibus, lenticularibus, 120-130 μ . diam., initio tectis, dein suberumpentibus, anguste pertusis, contextu fuligineo; sporulis ellipticis, didymis, leniter constrictis, hyalinis v. dilute olivaceis, 6-7 $\frac{1}{2}$ \approx 2-2 $\frac{1}{2}$.

Hab. in foliis subviviis *Lauri nobilis*, in horto bot. Senensi Italiae bor.

25. **Ascochyta pucciniophila** Starb. Bot. Centralbl. 1895, Bd. 64, 3691
p. 382. — Peritheciis solitariis v. sæpissime 3-7-gregariis, hypophyllis, maculis elevatis, pallide fuscidulis insidentibus, epidermide elevata cinctis, 100-120 μ . diam.; sporulis fusoido-lanceolatis v. interdum oblongis, diu continuis, demum medio septatis, vix con-

strictis utrinque appendiculis brevibus acutiusculis præditis, 8-12
 ≈ 2-3.

Hab. in foliis Polygoni amphibii in Succia. — Intime intermixta crescit *Puccinia Polygoni*.

26. **Ascochyta Hyacinthi** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3692

VIII, 1896, p. 8 extr. et Rev. Mycol. 1896, p. 169, fig. CLXXII, f. 6. — Maculis longitudinaliter versiformibus, amphigenis, arescendo expallentibus, sæpius fusco-marginatis; peritheciis lenticularibus, pertusis, sparsis v. subgregariis, 100-120 μ . diam., ostiolo papillato, contextu dilute fuligineo; sporulis oblongis, utrinque rotundatis, initio continuis, dein medio 1-septatis, hyalinis, 7-9 ≈ 2-3.

Hab. in foliis languescentibus Hyacinthi orientalis in horto bot. Senensi Italiae.

27. **Ascochyta Caricis** Lamb et Fautr. Rev. Mycol. 1897, p. 141. 3693

— Maculis oblongis, griseis, dein cinereis v. aridis; peritheciis nigris; sporulis hyalinis, uniseptatis, 12-14 ≈ 3-4.

Hab. in foliis vivis Caricis maximæ in Gallia.

28. **Ascochyta Arundinis** Fautr. et Lamb. Rev. Mycol. 1895, p. 167. 3694

— Peritheciis numerosis, in foliorum strias dispositis; sporulis cylindraceis, utrinque attenuatis, hyalinis, uniseptatis, 16 ≈ 4.

Hab. in foliis siccis Phragmitis communis in Gallia.

29. **Ascochyta Arundinariæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3695

4 ser. VIII, 1896, p. 65 et Rev. Mycol. 1896, p. 168, tab. CLXXII, fig. 5. — Maculis expallentibus vel nullis; peritheciis epidermide subvelatis, 100-120 μ . diam., membranaceis, amphigenis, contextu melleo-fusco; sporulis oblongo-ellipsoideis, rectis v. vix curvulis, 1-septatis, leniter constrictis, hyalinis, plerumque pluriguttulatis, 12-14 ≈ 3-4.

Hab. in foliis putrescentibus Arundinariæ falcatae in horto bot. Senensi Italiae. — Affinis *A. graminicolæ* Sacc., sed differt forma, magnitudine sporulisque guttulatis.

30. **Ascochyta zeicola** Ell. et Ev. Proc. Acad. Philad. 1895, p. 433. 3696

— Maculis irregularibus v. subelongatis; peritheciis gregariis, suberumpentibus, supra pertusis, 100-150 μ . diam.; sporulis oblongo-cylindraceis, hyalinis, in cumulo luteolis, uniseptatis, ad septum haud constrictis, obtusis, 6-8 ≈ 1 1/2-2.

Hab. in culmis putridis Zeæ Maydis, sociâ *Ascochyta zeinâ* a qua præcipue sporulis valde diversa, New Jersey, in America boreali.

31. **Ascochyta Oudemansii** Sacc. et Syd. Sic dicenda est *Ascochyta*

Evonymi Oud. in Syll. XI, p. 523, quum exstet anterior *A. Evonymi* Pass. in Syll. X, p. 299.

32. **Ascochyta Bresadolæ** Sacc. et Syd. Sic dicenda est *Ascochyta Fagopyri* Bres. in Syll. XI, p. 525, quum exstet anterior *A. Fagopyri* Thum et Bolle in Syll. X, p. 306.

PLACOSPHÆRELLA Pat. Cat. rais. pl. cell. Tunisie 1897, p. 121 (Etym. a *Placospheria*, cujus est analogum genus). — Stromata effusa, atra, intus distincte locellata. Sporulæ ovatæ, hyalinæ, didymæ, stipitatæ.

1. **Placosphærella Tragacanthæ** Pat. l. c.; *Dothidea Tragacanthæ* Lév. 3697 in Anr. sc. nat. 3 sér. III (1845) p. 56; *Phyllachora* Sacc. Syll. II, p. 614. — Stromatibus maculas atras, superficiales, rugulosas, sparsas aut confluentes vel plagas atras, usque 1-2 cm. longas, efformantibus; stromate crasso, ex hyphis brunneis, articulatis, dense contextis composito, hinc inde peritheciolorum ostiolis pertuso; peritheciis innatis, globosis, 80-100 μ . latis, contextu tenui, parenchymatico; sporulis numerosis, hyalinis, cylindraceo-ovatis, rectis aut curvulis, medio 1-septatis, non vel vix constrictis, 10-12 \times 3-4.

Hab. in foliis Astragali Fontanesii et *A. Tragacanthæ* in Arabia, Persia.

ACTINONEMA Fr. — Syll. III, p. 408, X, p. 309, XI, p. 526.

1. **Actinonema Actææ** Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 19. 3698 — Maculis variis, irregularibus, indeterminatis, brunneis, dein fere nigris; fibrillis epiphyllis, subtilissimis, dendroideo-ramosis tuberculiformibus, sparsis, innatis, parum prominulis, brunneis; sporulis cylindraceis v. inequalibus, utrinque rotundatis, rectis interdum plus minusve curvulis, plerumque 4-guttulatis, 1-septatis, hyalinis, 12-28 \times 6-7; basidiis brevibus.

Hab. in foliis vivis vel languidis Actææ spicatæ in Bavaria super.

DARLUCA Cast. — Syll. III, p. 410, X, p. 310.

1. **Darluca arcuata** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 437. 3699 — Peritheciis globosis, 75-100 μ . diam.; sporulis arcuato-fusoideis, hyalinis, 3-septatis, non constrictis, 14-16 \times 2 $\frac{1}{2}$ -3.

Hab. parasitica in Uredine spec. in foliis Andropogonis, Amer. bor. — A speciebus hucusque cognitis differt sporulis arcuatis.

DIPLODINA West. — Syll. III, p. 411, X, p. 311, XI, p. 526.

1. **Diplodina Malcolmix** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, p. 8 extr. et Rev. Mycol. 1896, p. 169, tab. CLXXII, fig. 10. — Peritheciis sparsis, erumpenti-superficialibus, subinde plus minusve collabentibus, nigris, anguste pertusis, 120-160 μ , diam.; sporulis initio continuis, dein constrictis, 1-septatis, ovato-oblongatis, rectis, eguttulatis, hyalinis v. dilutissime fuscidulis, 9-10 \times 4.

Hab. in caulibus Malcolmix bicoloris in horto bot. Senensi Italiae. — Affinis *D. ascochytoïdi* Sacc. et *D. Calepinæ* Tassi, sed differt sporulis minoribus guttulatis, constanter regularibus et peritheciis collabentibus.

2. **Diplodina Calepinæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 1896 (Microm. III, p. 7) et Rev. Mycol. 1896, pag. 169, tab. CLXXII, fig. 9. — Peritheciis dense sparsis v. subaggregatis, epidermide tumidula velatis, globuloso-depressis, pertusis, 100-120 μ . diam., contextu membranaceo, luteo; sporulis initio continuis, phomatoideis, irregularibus, intus raro 2-vel obsolete plurinucleolatis, dein indistincte 1-septatis, medio plus minusve constrictis, sæpius septulo excentrico, ovato-oblongis, utrinque rotundatis, hyalinis, 8-12 \times 3-4 $\frac{1}{3}$.

Hab. in caulibus emortuis Calepinæ Corvini. Senis pr. Porta Tufi ad margines viarum, Italia.

3. **Diplodina Malvæ** Togn. II. Contr. Micol. Tosc. 1895, p. 12. — Peritheciis sparsis, tectis, globosis v. globoso-depressis, ostiolo papillato præditis, dilute brunneis, 90-145 μ . latis; sporulis oblongis, guttulatis, primum ellipsoideis, continuis, dein cylindraceutis, apice obtusis, 1-septatis, ad septum leniter constrictis, 6-10 \times 3-4; basidiis filiformibus.

Hab. in caulibus Malvæ moschatae in Etruria.

4. **Diplodina Staphyleæ** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 16 extr. — Peritheciis minutis sparsis v. gregariis vix erumpentibus; sporulis oblongis hyalinis, uniseptatis, ad septum leniter constrictis. 10 \times 4 $\frac{1}{2}$.

Hab. in ramis emortuis Staphyleæ pinnatæ, Saintes Galliæ.

5. **Diplodina Photiniæ** Brun. Glanules mycologiques 3 série 1892-93 p. 6. — Peritheciis sparsis, globulosis, nigris, erumpentibus; sporulis oblongis, utrinque rotundatis, 1-septato-constrictis, hyalinis v. subhyalinis, 14 \times 4.

Hab. in ramis emortuis *Photiniæ serrulatæ*, *Saintes Gallie*.

6. **Diplodina Pruni** Ell. et Barth. *Erythea* 1897, p. 50. — Peritheciis subcuticularibus, sparsis v. subseriatis, globosis, levibus, atris, circiter $\frac{1}{2}$ mm. diam., epidermidem in pustulas mox ruptas elevantibus; sporulis ellipticis v. ovatis, luteolo-hyalinis, obtusis, uniseptatis constrictisque, $10-14 \approx 4-6$. 3705

Hab. in ramis igne necatis *Pruni demissæ* in *Kansas* Amer. bor. (BARTHOLOMEW).

7. **Diplodina Rosæ** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 16 extr. — Peritheciis nigris subglobosis, sparsis v. gregariis; sporulis oblongis, hyalinis v. subhyalinis, uniseptatis non constrictis, $6-7\frac{1}{2} \approx 2$. 3706

Hab. in ramis decorticatis *Rosæ caninæ*, *Saintes Gallie*.

8. **Diplodina Psoraleæ** Ell. et Barth. *Erythea* 1896, p. 25. — Peritheciis erumpentibus, sparsis v. binis trinis consociatis, subseriati v. subconnatis, hemisphæricis, applanato-subdiscoideis v. collapsis, $250-350 \mu$. diam., orbicularibus v. ellipticis, apice perforatis; sporulis oblongo-fusoideis, 1-septatis, non constrictis, olivaceis, $8-10 \approx 2\frac{1}{2}-3$. 3707

Hab. in caulibus emortuis *Psoraleæ tenuifloræ*, *Kansas*, Amer. bor. (BARTHOLOMEW).

9. **Diplodina Laburni** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 16 extr. — Peritheciis ut in *Diplodia rudi*; sporulis subovoideis v. cylindricis, uniseptatis non constrictis, hyalinis v. subhyalinis, $7\frac{1}{2} \approx 4-5$. 3708

Hab. in ramis emortuis *Cytisi Laburni*, *Saintes Gallie*.

10. **Diplodina Caraganæ** Vestergr. Jahreskatalog der Wiener Kryptog. Tauschanstalt 1897, p. 4. — Peritheciis subcutaneis, demum prominulis, sparsis, subglobosis vel lenticularibus, depressis, papilla punctiformi, membrana tenuissima, subtiliter parenchymatice contexta, circ. $200-250 \mu$. diam.; sporulis numerosissimis, cylindricis, utrinque obtuse rotundatis, medio 1-septatis, non constrictis, hyalinis, $12-16 \approx 2,5$. 3709

Hab. in ramulis vivis *Caraganæ arborescentis* in horto Upsaliensi, Suecia.

11. **Diplodina coloradensis** Ell. et Ev. Proc. Acad. Philad. 1895, p. 434. — Peritheciis subgregariis, sæpe subseriatis, erumpenti-superficialibus, minutis, circiter 200μ . diam., atro-nitidis, subglobosis, ostiolo papilliformi: sporulis oblongis, obtusis, uniseptatis, plerumque non constrictis, fumoso-hyalinis. $6-8 \approx 2\frac{1}{2}-3$. 3710

Hab. in caulibus emortuis Gutierrezie Euthamiae, Colorado, Amer. bot. (BAKER). — *D. Galii* affinis.

12. **Diplodina Baccharidis** Dom. Sacc. Atti d. Soc. Ven.-Trent. di Sc. 3711
Nat. 2 ser. 2 vol., 2 fasc. 1896, p. 476, tab. I, n. 8 et Bull. Soc. Myc. de Fr. 1896, p. 78. — Peritheciis dense et late gregariis, subcutaneo-erumpentibus, globoso-papillatis, $\frac{1}{5}$ - $\frac{1}{4}$ mm. diam., nigris; sporulis breve fuscoideis, 1-septatis, non constrictis, 12×3 , hyalinis.

Hab. in ramulis emortuis Baccharidis halimifoliae in horto bot. Patavino. Italia.

13. **Diplodina antiqua** Fr. Sacc. Atti d. Soc. Ven.-Trent. di Sc. Nat. 3712
2 ser., 2 vol., 2 fasc. 1896, p. 476, tab. I, n. 7 et Bull. Soc. Myc. de Fr. 1896, p. 78. — Peritheciis dense gregariis, punctiformibus, globulosis, nigris, obtuse papillatis, $\frac{1}{8}$ - $\frac{1}{6}$ mm. diam.; sporulis fuscoideis, utrinque acutiusculis, 1-septatis, non constrictis, $14-16 \times 3-4$, hyalinis; basidiis non visis.

Hab. in ramulis tenellis Viticis Agni-Casti antiquissimæ (anno 1550 circ. sate) in horto bot. Patavino, Italia.

14. **Diplodina Putoriae** F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena 3713
1898, fasc. I. p. 12, tab. XI, fig. 1. — Peritheciis erumpentibus, astomis, subglobulosis, contextu celluloso-fuligineo, $80-100 \mu$. diam.; sporulis oblongis, didymis, dilutissime luteolis, $7\frac{1}{2}-8 \times 2$, sæpe utrinque minute guttulat. initio continuis plurinucleolatis.

Hab. in caulibus siccis Putoriae calabricæ in horto bot. Senensi, Italia.

15. **Diplodina Lippiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3714
VIII, 1896 (Microm. III, p. 7) et Rev. Mycol. 1896, p. 169, tab. CLXXII, fig. 8. — Peritheciis dense sparsis, nigris, globosis, epidermide velatis, dein erumpentibus, $\frac{1}{5}$ - $\frac{1}{6}$ mm. diam.; sporulis initio continuis, ovatis, dein 1-septatis, leniter constrictis, ellipsoideis, hyalinis v. dilute chlorinis, $6-10 \times 2-3\frac{1}{2}$.

Hab. in ramulis emortuis Lippiæ citriodoræ in horto bot. Senensi Italiae.

16. **Diplodina Hyocyami** Vestergr. Bihang K. Svenska V. A. Handl. 3715
XXII, Afd. III. n. 6, 1896. p. 19. — Peritheciis in matrice dealbata tectis, plus minusve prominulis, hemisphærico-applanatis, ostiolo papilliformi præditis, ca. 250μ . diam., submembranaceis, nigris, textura parenchymatica tenuiore compositis; hyphis permanifestis, sæpe in longitudinem caulis procurrentibus, subrectis, parce anastomosantibus, regulariter septatis, oculis breviter rectan-

gularibus, brunneis. 8-10 μ . latis; sporulis cylindræis, utrinque rotundatis, 10-14 \times 3-4, prope medium constrictè uniseptatis, loco altero subinde crassiore, diu continuis, hyalinis.

Hab. in caulibus aridis *Hyoscyami nigri* in Gotlandia Sueciæ.

17. *Diplodina viridula* Sacc. et Syd. *Diplodina Hyoscyami* Pat. Cat. 3716
rais. pl. cell. Tunisie 1897, p. 122. — Peritheciis globosis, atris, sparsis, seminimmersis, poro pertusis, 70-100 μ . diam., contextu celluloso, fuliginæo, coriaceo, non carbonaceo; sporulis chlorino-hyalinis, elongato-ovatis, 1-septatis, vix constrictis, 10-12 \times 5-6.

Hab. in ramulis et fractibus *Hyoscyami* in Tunisia.

18. *Diplodina Empetri* Sacc. Malpighiæ XI, 1897, pag. 311. — Pe- 3717
ritheciis sparsis, innatis, mox erumpendo prominentibus, globosis, papillatis, nigris, glabris; sporulis oblongo-fusoides, sæpe curvulis, uniseptatis, non constrictis, hyalinis, 10-12 \times 3; basidiis bacillari-
bus, fasciculatis, hyalinis. 18-20 \times 2.

Hab. in fructibus emortuis *Empetri nigri*, Riva-Valdobbia, Italia bor. (CARESTIA).

19. *Diplodina Elæagni* P. Brun. Glanul. Mycol. III, 1893, p. 6. — 3718
Peritheciis sparsis, globosis, nigris, erumpentibus; sporulis oblongis v. subfusoides, hyalinis, 1-septatis, non constrictis, 12-15 \times 5.

Hab. in ramis emortuis *Elæagni reflexæ* in Gallia.

20. *Diplodina Euphorbiæ* F. Tassi, Bull. del Lab. Bot. d. R. Univ. 3719
Siena 1893, fasc. I, p. 12, tab. X, fig. 10. — Peritheciis e fibrillis lignosis erumpentibus, nigris, globosis, late pertusis, $\frac{1}{4}$ - $\frac{1}{4}$, mm. diam.; sporulis initio globulosis, exiguis, dein oblongo-cylindræis, rectis, 1-septatis, hyalinis. 4-4 $\frac{1}{2}$ \times 1 $\frac{1}{2}$, inde subellipticis, 4 $\frac{1}{4}$ \times 2, dilute fuscis.

Hab. in caulibus emortuis *Euphorbiæ Characiæ* in horto bot. Senensi, Italia.

21. *Diplodina Atriplicis* Vestergr. Bihang K. Svenska V. A. Handl. 3720
XXII, Afd. III, n. 6, 1896, p. 19. — Peritheciis sparsis, superficialibus v. subsuperficialibus, sphæroideis, hemisphærico-papillatis, 125-175 μ . diam., atris, textura parenchymatica compositis; hyphis non manifestis; sporulis cylindræis, utrinque rotundatis, prope medium uniseptatis et constrictulis, granulosis, subinde guttulis 2-4 majusculis præditis, 12-19 \times 6-7, pallide luteolis.

Hab. in foliis caulibusque putrescentibus *Atriplicis* hastati ad Visby Sueciæ.

22. *Diplodina quercina* Peck, 50 Rep. 1897, p. 115. — Peritheciis 3721
æminutis, numerosis, erumpentibus, nigris, 350-400 μ . diam.; spo-

ralis anguste subfusoides, obscure 1-septatis, 10-15 \times 4, plerumque 2-4-nucleatis.

Hab. in ramis *Quercus*, Jamaica N. J., Amer. bor. (STEWART).

23. *Diplodina Patouillardii* Sacc. et Syd. *Diplodina Smilacis* Pat. Cat. 3722
rais. pl. cell. Tunisie 1897. p. 122, nec Ell. et Ev. (1886). — Peritheciis hypophyllis, superficialibus, gregariis, globoso-depressis, coriaceis, circiter 100 μ . diam, poro portusis, contextu celluloso, brunneo-viridi: sporulis hyalinis, ovoideis, guttulatis, 1-septatis, non constrictis. 7-10 \times 3.

Hab. in foliis siccis *Smilacis* in Tunisia.

24. *Diplodina* (*Ambrosiella*) *clodiensis* Sacc. Bull. Soc. Myc. 1896, 3723
p. 70, tab. VI, fig. 10. — Peritheciis sparsis, punctiformibus, nigris, innato-erumpentibus, globoso-hemisphæricis, 200 μ . diam., ostiolo impresso: basidiis bacillaribus. 4 $\frac{1}{2}$ \times 2 $\frac{1}{2}$, simplicibus, septulatis, lateraliter denticulato-sporigeris; sporulis fusoides, 10-12 \times 2 $\frac{1}{2}$ -3, utrinque obtusulis, 1-septatis, non constrictis, chlorino-hyalinis.

Hab. in culmis siccis *Arundinis Donacis*, Italia super. — Subgenus (FRANCISCO AMBROSI floræ Tridentinæ descriptori dicatum) a *Diplodina* typo dignoscitur sporulis pleurogenis etc.

DIDYMOCHÆTA Sacc. et Ell. Bull. Torr. Cl. 1898, p. 510 (Etym. *didymos* et *chæte*, quasi *Pyrenochæta* didymospora). — Perithecia erumpenti-superficialia, globoso-conoidea, membranaceo-carbonacea, nigra, pilosa v. setosa. Sporulæ oblongo-cylindrææ, 1-septatæ, hyalinæ. Genus *Pyrenochæte*. *Chaetomellæ*, *Chaetodiplodiæ* exacte parallelum inter *Hyalodidymas*.

1. *Didymochæta americana* Ell. et Sacc. l. c. — Peritheciis gregariis 3724
erumpentibus, globosis v. obtuse conoideis, nigris, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., setulis brunneis breviusculis septatis, variis parce vestitis; sporulis cylindræo-oblongis, rectis utrinque rotundatis, 15-20 \times 5-6, medio tenuiter 1-septatis et sæpius constrictis, hyalinis (plasmate farctis); basidiis brevissimis (ut videtur).

Hab. in caulibus emortuis *Fraseræ speciosæ*, Colorado Amer. bor.

Sect. 5. Phæophragmiæ.

HENDERSONIA Berk. — Syll. III, p. 418, X. p. 317, XI, p. 528.

1. *Hendersonia sanguinea* P. Brun. Act. Soc. Liun. Bordeaux 1898, 3725

p. 16 extr. — Peritheciis minutis, sparsis, nigris erumpentibus; sporulis ovoideo-oblongis, 3-septatis, fuliginis, loculo inferiore hyalino. 8×5 .

Hab. in ramulis emortuis Corni sanguineæ, Saintes Galliæ.

2. **Hendersonia tenuipes** Mc Alp. Addit. Fungi Vine Austral. 1898, 3726
p. 40, f. 54-55-56. — Peritheciis gregariis, erumpentibus, nigris, ovato-sphaericis, contextu compacto, flavido v. brunneo; sporulis fusoidis, 4-5-locularibus, 20-24 \times 6,5, cellulis mediis coloratis, extimis subhyalinis; basidiis minutis, vix 1 μ . cr., hyalinis.

Hab. in baccis maturis Vitis, Armona Australiæ (ROBINSON).

3. **Hendersonia Grossulariæ** Oud. Konink. Akad. Wetensch. Amster- 3727
dam. 1897, p. 88. — Peritheciis epidermide velatis, lenticulari-
depressis, membranaceis, fuliginis, poro minuto centrali pertusis;
sporulis fusiformibus, melleis. 3-septatis, utrinque obtusatis, 14-17
 \times 4-4 $\frac{2}{3}$.

Hab. ad ramos Ribis Grossulariæ in Hollandia.

4. **Hendersonia discosioides** E. et D. Proc. of the Canad. Inst. 1897, 3728
p. 92. — Maculis atro-brunneis, definitis, suborbicularibus v. irre-
gularibus, 2-10 mm. diam.; peritheciis epiphyllis, discoideis, circ.
 $\frac{1}{2}$ mm. diam., epidermide rupta cinctis, nigris; sporulis oblongis
v. clavato-oblongis, 3-septatis, leniter ad septa constrictis, fumoso-
hyalinis, 14-16 \times 4-5; basidiis tenuibus, sporulam subæquantibus.

Hab. in foliis Cratægi sp. Loudon Canada. — Maculæ tan-
dem centro albescunt.

5. **Hendersonia fructigena** Sacc. - Syll. III, p. 428. — Var. **Cratægi** 3729
Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 20. — Sporulis subfu-
soidis v. subclavatis, deorsum attenuatis, 3-septatis, non v. vix
constrictis, eguttulatis, dilute fuliginis, 16-20 \times 3-6; basidiis fili-
formibus, fasciculatis, hyalinis, 15-24 \times 1.

Hab. in fructibus in arbore per hiemem adhuc stantibus Cra-
tægi Oxyacanthæ pr. München Baviariæ.

6. **Hendersonia fructicola** P. Brun. Act. Soc. Linn. Bordeaux 1898. 3730
p. 17 extr. — Peritheciis nigris, erumpentibus, subglobosis; spo-
rulis elongato-oblongis, 3-septatis, ad septa non constrictis, oliva-
ceis, 17 $\frac{1}{2}$ \times 3.

Hab. in fructibus exsiccatis Cratægi Oxyacanthæ, Saintes
Galliæ.

7. **Hendersonia cratægicola** Atk. Bull. Cornell Univ. III, n. 1, 1897, 3731
p. 30. — Maculis orbicularibus, 2-3 mm. diam., aridis, superne
sordide albidis, inferne obscurioribus, linea angusta plus minusve

elevata marginatis; peritheciis nigris, minutis, 120-170 μ ., plerumque epiphyllis, prominulis, erumpentibus; sporulis anguste ovatis, 3-septatis, raro 2-septatis, ad septa non constrictis, fuligineis, loculo inferiore subhyalino, 8-12 \times 3 $\frac{1}{2}$ -4.

Hab. in foliis *Cratægi flavæ*, Auburn, Alabama Amer. bor. — *H. piricola* affinis, sed sporulis angustioribus diversa.

8. **Hendersonia rubiginosa** P. Brun. Act. Soc. Linn. Bordeaux 1898. 3732
p. 16 extr. — Peritheciis minutis sparsis vix erumpentibus; sporulis oblongis v. subfusoides, fuligineis, 3-septatis, ad septa non constrictis, loculis omnibus æqualiter coloratis, 10-10 $\frac{1}{2}$ \times 5.

Hab. in fructibus exsiccatis *Rosæ rubiginosæ*, Saintes Galliæ.

9. **Hendersonia canina** P. Brun. Act. Soc. Linn. Bordeaux 1898. 3733
p. 16 extr. — Peritheciis sparsis v. gregariis, subglobosis, tectis, interdum vix erumpentibus; sporulis elongato-oblongis v. subfusiformibus, 3-septatis, ad septa non constrictis, fuligineis, loculo infimo hyalino, 12-15 \times 4 $\frac{1}{2}$ -5.

Hab. in ramis emortuis *Rosæ caninæ*, Saintes Galliæ.

10. **Hendersonia septem-septata** Vestergr. Jahreskatalog der Wiener 3734
Kryptog. Tauschanstalt 1897, p. 4. — Peritheciis sparsis, initio epidermide nigrificata tectis, mox papilla punctiformi prominulis, nigris, membrana tenui, irregulariter et obscure parenchymatica, fuliginea; sporulis fusoides-cylindricis, rectis vel raro subcurvulis, castaneo-brunneis, typice 7-septatis, vix constrictis, loculis 2 extremis longioribus pallidioribusque; basidiis non visis.

Hab. in ramulis subviviis pedunculisque leguminum pendulis *Caraganæ arborescentis*, Upsala, Suecia.

11. **Hendersonia Pseudacaciæ** Ell. et Barth. Erythea 1896, p. 25. — 3735
Peritheciis dense sparsis, epidermide elevata fissaque tectis; sporulis oblongo-ellipticis v. cylindraceis, obtusis, brunneis, plerumque leniter curvulis, 15-22 \times 6-10, vix constrictis.

Hab. in ramis emortuis *Robinia Pseudacaciæ*, Kansas, Amer. bor. (BARTHOLOMEW).

12. **Hendersonia coronaria** P. Brun. Act. Soc. Linn. Bordeaux 1898. 3736
p. 17 extr. — Peritheciis sparsis, minutis, tectis dein vix erumpentibus; sporulis ellipticis subfuligineis, 3-septatis, non constrictis, 10-12 \times 4.

Hab. in ramis emortuis *Philadelphii coronarii*, Saintes Galliæ.

13. **Hendersonia Tamaricis** Cke.-Sacc. Syll. X, p. 318. — f. *minor* 3737

P. Brum. Act. Soc. Linn. Bordeaux 1898, p. 17 extr. — Sporulis.
12 $\frac{1}{2}$ -15 \times 5-6.

Hab. in ramulis Tamaricis anglicæ, Rochefort Galliæ.

14. **Hendersonia tamaricicola** P. Brum. Act. Soc. Linn. Bordeaux 3738
1898, p. 17 extr. — Peritheciis sparsis subglobosis, nigris, tectis;
sporulis elongato-oblongis, 5-septatis, non constrictis, brunneo-lu-
teis, 17-18 \times 6.

Hab. in ramulis emortuis Tamaricis anglicæ, Rochefort
Galliæ.

15. **Hendersonia meridionalis** D. Sacc. Myc. ital. n. 302 (partim), 1898. 3739
— Peritheciis in soros discoideos erumpentes, atros, vix 1 mm.
latos constipatis, globulosis, peroxiguis; sporulis cylindræis, rectis,
utrinque rotundatis, 3-septatis, non v. vix constrictis, 30 \times 15,
violaceo-fuliginæis: basidiis filiformibus. 30-60 \times 2, hyalinis.

Hab. in ramulis Tamaricis gallicæ, Trinitapoli (Foggia):
legit prof. HADR. FRÖR. — Socia adest *Leptosphaeria meridionalis*
D. Sacc.

16. **Hendersonia Atractylidis** Pat. Enum. Champ. Tunisie 1892, p. 17. 3740
— Peritheciis subepidermicis, dein perforantibus, sparsis, nigris,
late apertis, 100 μ . diam., subglobosis, contextu celluloso brunneo-
viridulo; sporulis numerosis, cylindræis, brunneis, luteolis v. vi-
ridulis, 3-septatis, ad septa constrictis, utrinque obtusis, omnibus
loculis uniguttulatis, 12-15 \times 5.

Hab. in caulibus siccis Atractylidis microcephalæ, Tunisia.

17. **Hendersonia cylindrospora** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3741
p. 289. — Peritheciis sparsis minutis, subcuticularibus; sporulis
cylindræis obtusis, 3-septatis, luteo-brunneis, ad septa leniter
constrictis, 18-22 \times 6-7.

Hab. in caulibus Umbelliferarum, Colorado Amer. bor.

18. **Hendersonia pulchella** Sacc. - Syll. III, p. 430. — Var. **Galiorum** 3742
Sacc. Bull. Soc. Bot. Fr. 1893, p. 224. — Sporulis 40 \times 5-6.

Hab. in caulibus emortuis Galii Molluginis, Saintes in
Gallia.

19. **Hendersonia Vanhöffeniana** Allesch. in Allescher et P. Hennings, 3743
Pilze aus dem Umanakdistrikt 1897, p. 14. — Peritheciis sparsis,
epidermide tectis, erumpentibus, ostiolis papillatis, nigris: sporulis
cylindræo-fusoideis, sæpe lenissime curvulis v. flexuosis, utrinque
obtusis, 3-septatis, olivaceis, longitudine varia, ca. 15-30 \times 2-2 $\frac{1}{2}$.

Hab. in scapis emortuis Armeriæ vulgaris var. sibiricæ
pr. Karajak Groenlandiæ (VANHÖFFEN).

20. **Hendersonia massarioides** F. Tassi, Atti d. R. Acad. dei Fisiocr. 3744
 Siena 4 ser. vol. VIII, 1897, p. 5. — Peritheciis subsparis, innato-erumpentibus, obtusis, atris, pertusis, circiter $\frac{1}{2}$ mm. diam., contextu fuligineo; sporulis oblongis v. subclavulatis, magnis, rectis, quandoque curvatis, initio continuis, dein pluriseptatis (septis 7-9), $30-36 \times 5-6 \frac{1}{2}$, enucleatis, aureo-flavis, sæpius loculis extremis pallidioribus.

Hab. in ramulis siccis Lauri nobilis in horto publico Senensi, Italia bor. — Sporulæ initio strato mucoso obsoleto obductæ videntur.

21. **Hendersonia officinalis** Atk. Bull. Cornell Univ. III, n. 1, 1897, 3745
 p. 29. — Peritheciis immersis, erumpentibus, plerumque pagina foliorum inferiore insidentibus, epidermidem disrumpentibus, inter epidermidis lobos conspicuis, subtiliter coloratis, ostiolo prominulo, apice late conicis; contextu celluloso prope ostiolum colorato, e matricis cellulis difficile distincto, laxiusculo, delicato; basidiis hyalinis, $20-25 \times 2-3$; sporulis fusoides v. ellipticis, interdum deorsum attenuatis, rectis v. curvulis, $18-25 \times 5-7$, plerumque continuis, paucis 2-septatis, non constrictis, subfuliginis v. olivaceis.

Hab. in foliis emortuis Sassafras officinalis, Auburn, Alabama Amer. bor. — Ad *Stagonosporam* vergit.

22. **Hendersonia pulchella** Saco. - Syll. III. p. 430. — Var. **Jasmini** 3746
 P. Brun. Bull. Soc. Sc. Nat. Nantes IV, 1894. p. 36. — Sporulis elongato-fusoides v. subclaviformibus, 8-10-septatis, non constrictis, brunneis, rectis, 38×6 .

Hab. in ramis emortuis Jasmini officinalis, Saintes in Gallia.

23. **Hendersonia Fraxini** Ell. et Barth. Erythea 1896, p. 26. — Peritheciis erumpentibus, fere $\frac{1}{4}$ mm. diam., subhemisphæricis, demum plus minus applanatis; sporulis oblongo-ellipticis, plerumque 3-septatis, non constrictis, hyalinis, continuis, demum brunneis, $11-13 \times 5-6$; basidiis nullis.

Hab. in ramis emortuis Fraxini viridis, Kansas Amer. bor. (BARTHOLOMEW).

24. **Hendersonia nitida** Ell. et Ev. Bull. Torr. Bot. Club. 1895. 3748
 p. 436. — Peritheciis epiphyllis, sparsis, innato-prominentibus, globosis, 90-110 μ . diam., nigris, nitentibus, supra perforatis, semiimmersis; sporulis oblongis, 1-3-septatis, non constrictis, dein pallide brunneis, $12-15 \times 3 \frac{1}{2}-4 \frac{1}{2}$; basidiis sporulæ brevioribus, gracilibus.

Hab. in foliis vivis *Myrsines* spec. in ins. Sandwicens. (HELLER).

25. **Hendersonia ligniseda** Fautr. Rev. Mycol. 1896, p. 69. — Peritheciis depressis, elongatis, irregularibus, late apertis; sporulis numerosis, ex luteo nigris, triseptatis, oblongis, obtusis, $8-10 \times 4\frac{1}{2}$.

Hab. ad lignum *Fagi* vetustum in Gallia.

26. **Hendersonia ostryigena** E. et D. Proc. of the Canad. Inst. 1897, p. 92. — Peritheciis sparsis, circ. $\frac{1}{2}$ mm. diam., cortice atrato et pustulato immersis, ostiolo minuto erumpente; sporulis oblongis, 3-septatis, non constrictis, brunneis, obtusis, $10-12 \times 4$, loculo uno rarius longitrorsum diviso.

Hab. in ramis emortuis *Ostryæ virginicæ*, London Canada,

27. **Hendersonia Broussonetiæ** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 17 extr. — Peritheciis minutis non erumpentibus; sporulis oblongis 3-septatis, ad septa non constrictis, olivaceis, $17-18 \times 10$.

Hab. in ramis emortuis *Broussonetiæ papyriferae*, Saintes Galliæ.

28. **Hendersonia montana** Vuill. Bull. Soc. Nancy 1896, p. 23. — Peritheciis subglobosis, atro-fuligineis, epidermide dorsali vel centrali et hypodermide foliorum diu tectis, in filamentis dilute coloratis laxè sparsis, insidentibus; contextu e cellulis oblongis, fuligineis constante; sporulis irregulariter curvulis, 3-septatis, rarius 2-4-septatis, fuligineis, basi truncatis, apice subconicis, protoplasmate granuloso, $29-34$ rarius $35-42 \times 3\frac{1}{2}-4$; pedicellis brevibus (10μ .) rectis, tenuibus, subhyalinis, simplicibus.

Hab. in maculis brunneis foliorum vivorum *Pini montanæ* pr. Sens Galliæ.

29. **Hendersonia Togniniana** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, p. 14 extr. tab. III, fig. 6, 6a, 18. — Peritheciis globosis, subcutaneo-erumpentibus, contextu membranaceo; sporulis oblongo-ellipticis, fulvo-fuligineis, quadrilocularibus, $10-12 \times 6-7$.

Hab. in foliis vivis *Cycadis revolutæ* in horto bot. Genue Italiæ bor.

30. **Hendersonia Fautreyi** Sacc. et Syd. *Hendersonia lignicola* Fautr. in Rev. Mycol. 1896, p. 69; *Hendersonia hedericola* Fautr. in Rev. Mycol. 1890, p. 166, et Sacc. Syll. X, p. 310. — Peritheciis superficialibus, globosis, collabescentibus, nigris, papillatis; sporulis mediocribus, elongatis, $9-14$ -septatis, $35-48 \times 4-6$, maturitatè olivaceis et ad septa constrictis.

Hab. in lignis variarum arborum et fruticum, e. g. Fagi, Hederae etc. in Gallia.

31. **Hendersonia macrospora** Cocconi, Mem. R. Acc. Bologna 1896, 3756
p. 155, fig. 4-5. — Peritheciis matrice fere penitus immersis, in caespitulos inæquales approximatis, valde depressis, 120-135 μ . d.; sporulis majusculis, ellipsoideis, 2-septatis, 22-27 μ . longis, flavo-brunneis.

Hab. in caulibus plantæ non determinatæ, Monte della Guardia pr. Bologna.

32. **Hendersonia importata** Allesch. Hedw. 1895, p. 216. — Peritheciis dense gregariis sparsisve macula pallida circumdatis, punctiformibus, globulosis, poro pertusis, nigris; sporulis elongato-fusoideis, utrinque obtusis, primum continuis, dein 2-septatis, loculis extimis hyalinis, loculo medio fuligineo, 12-16 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$, ad septa vix constrictis; basidiis non visis.

Hab. in bulbis Orchidearum in calidariis cultarum, München.

33. **Hendersonia sessilis** Mont. — Sacc. Syll. III, p. 436. — f. **major** 3757
P. Brun. Act. Soc. Linn. Bordeaux 1888, p. 18 extr. — Sporulis ovalibus v. ovali-oblongis, ad septa leniter constrictis, 15-18 \times 4-4 $\frac{1}{2}$.

Hab. ad culmos emortuos Scirpi Holoschæni, Fouras in Gallia.

34. **Hendersonia Erianthi** Atk. Bull. Cornell. Univ. III, n. 1, 1897, 3758
p. 29. — Peritheciis sparsis, immersis, erumpentibus, contextu dense celluloso, 150-200 μ .; sporulis oblongo-ellipticis, 3-septatis, leniter constrictis, 10-15 \times 3-3 $\frac{1}{2}$, atro-brunneis.

Hab. in culmis emortuis Erianthi, Auburn, Alabama Americae bor.

35. **Hendersonia Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 3759
p. 241. — Maculis amphigenis latissime arescenti-pallescentibus indeterminatis; peritheciis parenchymate innatis, epidermide tectis, sæpius paucis gregariis, seriatis, glabris, atris, minutis, e globoso depressis, 100-120 μ . diam., ostiolo vix papillulato epidermidem vix perforante coronatis, tenui-membranaceis, contextu parenchymatico fuligineo-olivaceo; sporulis lineari-fusoideis, utrinque acutiusculis, 18-22 \times 3-4, rectis v. leniter curvulis, 3-septatis, ad septa non v. vix constrictulis, loculis non v. minute 1-guttutatis, dilute olivascentibus.

Hab. ad folia nec non vaginas languidas Sacchari officinarum prov. Tucuman, Argentina.

36. **Hendersonia taphrinicola** Tracy et Earle, Bull. Torr. Bot. Club. 3760

1895. p. 178. — Epiphylla, maculis albo-marginatis; peritheciis sparsis, nigris, erumpentibus, demum collabentibus; sporidis truncatis, cylindræis, fuliginæis, 2-septatis et ad septa constrictis, 12-14 \times 4-5.

Hab. parasitica in *Taphrina vetusta* ad folia *Quercus virginiana*, Mississippi Amer. bor.

37. **Hendersonia Ulmi** Otth, Mitth. nat. Gesell. Bern. 1866, p. 164. — Ita vocanda posterior et non diversa *H. ulmicola* Cooke (1878) Syll. III, p. 440. Etiam sec. Otth est pycnidium *Massaria fædoniæ*.

38. **Hendersonia piriformis** Otth, l. c. (1866) p. 164. Ita dicenda *H. loricata* Sacc. Syll. IV, p. 440 (1882).

39. **Hendersonia Carpini** Otth, l. c. (1866) p. 165. Ita vocanda *H. carpinicola* Sacc. Syll. IV, p. 440 (1884).

40. **Hendersonia Oudemansii** Sacc. et Syd. Sio nominanda est *Hendersonia Rhododendri* Oud. in Sacc. Syll. XI, p. 530, quum exstet anterior *H. Rhododendri* Thüm. Syll. III, p. 429.

WOJNOWICIA Sacc. Syll. X, p. 328 (Etyim. a cl. doct. W. WOJNOWIC, botanico serbico, anno 1892 Belgradi præmature demortuo). A genere *Hendersonia* recedit, quia perithecia non glabra sed pilis variis brunneis vestita. Forte et aliæ *Hendersoniæ* species huc spectant.

1. **Woinowicia tenella** Pat. Cat. rais. pl. cell Tunisie 1897, p. 122. 3761
— Peritheciis sparsis, subinnatis, dein erumpentibus, e conico applanatis, orbicularibus, 300-500 μ . diam., 200 μ . altis, carnosulis, vix ostiolatis, contextu minute celluloso, fuligineo, hyphis deflexis v. erectis, molliuseulis, cylindræis, transverse septatis, brunneis, apice pallidioribus, 100-200 \times 5-6, omnino vestitis; nucleo fulvello; basidiis hyalinis, linearibus, brevioribus; sporulis numerosissimis, fusoides-curvulis, utrinque acutis, 7-septatis guttulisque, pallide fuliginosis, 25-26 \times 4.

Hab. in culmis putridis Graminearum in Tunisia. — Affinis *W. hirtæ* Sacc.

PROSTHEMIUM Kunze. — Syll. III, p. 444, XI, p. 533.

1. **Prosthemium palmatum** Earle Bull. Torr. Bot. Cl. 1897, p. 31. — 3762
Peritheciis sparsis, areis magnis albidis insidentibus, elongatis, hysteriiformibus, nigris, carbonaceis, innatis, demum partim erumpentibus, irregulariter dehiscentibus v. interdum supra deciduis ideoque discoideis; sporulis cylindræis, dilute fuliginæis, 1-3-se-

ptatis, 12-15 \times 4, basi fasciculatim v. palmatim nec stellatim coalitis; basidiis obsolete.

Hab. in ligno putrido pr. Auburn, Alabama Amer. bor. (UNDERWOOD).

HENDERSONULA Speg. — Syll. III, p. 445, XI, p. 533.

1. **Hendersonula Cerberæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3763

4 ser. VIII, 1896 (Microm. III, p. 7) et Rev. Mycol. 1896, p. 170, tab. CLXXII, fig. 11. — Stromate subcorticali, confluenti-elongato, atro, plurilocellato, loculis globosis, intus albicantibus, 100-120 μ . diam., aggregatis, apice poro pertusis; sporulis angustè ellipticis v. subclavatis, initio hyalinis v. chlorinis, stipitato-fasciculatis, continuis, endoplasmate granuloso instructis, dein 2-septatis, ad septa non vel raro constrictis, fuliginis, 12-16 \times 4 $\frac{1}{2}$ -5.

Hab. in ramis corticatis Tanghinæ (Cerberæ) veneniferæ in India occid.

COUTUREA Cast. — Syll. III, p. 442, X, p. 329.

1. **Couturea quercina** Pat. Enum. Champ. Tunisie 1892, p. 17. — 3764

Maculis hypophyllis, melioloideis, magnam partem foliorum occupantibus; mycelio brunneo, gracili, radiato, in folium penetrante; peritheciis globosis, superficialibus, membranaceis, ostiolo minuto perforatis, 90-200 μ . diam.; sporulis cylindræis, utrinque obtusis, plerumque 3-septatis, brunneis, 10-12 \times 4.

Hab. in foliis vivis Quercus Ilicis, Tunisia.

CRYPTOSTICTIS Fuck. — Syll. III, p. 443, X, p. 330, XI, p. 532.

1. **Cryptostictis ludibunda** Vestergr. Öfv. K. Vet.-Acad. Förh. 1897, 3765

n. I, p. 41. — Peritheciis completis, epidermide arcte adhærente subclipeiformiter tectis, punctiformibus, atris, nitidissimis, 250 μ . diam., vix papillatis, textura obscura impellucida, subcoriacea; sporulis 3-septatis, ad septa leviter constrictis, luteo-fuliginis, cylindræo-oblongis, rectis, 12-14 \times 5-6, utrinque sub apice cilio hyalino recto v. curvulo, 9-10 \times 0,5, facile secedente præditis; basidiis filiformibus, varia longitudine, sæpissime 15-40 \times 1 $\frac{1}{2}$, continuis, hyalinis.

Hab. in sarmentis emortuis corticatis Rubi occidentalis in horto bot. Upsaliensi Suecia. — *Hendersonia platypus* Ell. et Ev. maculis albis, sporulis oblongo-ellipsoideis nec non ciliis nullis divergit.

2. **Cryptostictis Eucalypti** Pat. Cat. rais. pl. cell. Tunisie 1897. p. 123. 3786
 — Peritheciis sparsis, erumpentibus, epidermide fissa cinotis, atris, globosis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., apice papillato-ostiolatis; sporulis numerosis, 16×3 , hyalinis, rectis v. vix curvulis, cylindræis, utrinque attenuatis, non constrictis, loculis ultimis minoribus, 1-setigeris; ciliis hyalinis, sporulas subæquantibus.
Hab. in foliis putridis Eucalypti in Tunisia.

Sect. 6. Hyalophragmiæ.

STAGONOSPORA Sacc. — Syll. III, p. 445, X, p. 330. XI, p. 533.

1. **Stagonospora Pulsatillæ** Vesterg. Oefv. K. Vet.-Acad. Förh. 1897, 3767 p. 41. — Peritheciis primo epidermide tectis, mox, ea elevata, liberis, facile secedentibus, perfecte sphæroideis, sparsis, 250-300 μ . diam., membranaceis, nigris, ostiolo elongato, cylindrico, apice obtruncato, textura distincte parenchymatica, fusca v. castaneo-brunnea; cellulis angulatis, sæpissime quadraticis; hyphis longiuseculis, rectis, in longitudinem caulis procurrentibus, dense et regulariter septatis, 4-5 μ . latis, fuligineis; sporulis 15-22 \times 2 $\frac{1}{2}$, cylindræis, utrinque subobtruncatis, rectis, 3-septatis, eguttulatis, in massam expulsis; basidiis non visis.

Hab. in caulibus siccis Pulsatillæ pratensis in Gotlandia.

— A *St. Anemones* Pat. peritheciis sporulisque minoribus satis diversa.

2. **Stagonospora polymera** D. Sacc. Malp. 1898, p. 215, tab. VIII, 3768 fig. 14. — Peritheciis gregariis, globulosis, nigris, 400 μ . diam., intus albidis, subcutaneis, ostiolo minutissimo vix erumpente, con-textu peritheciæ membranaceo, tenui, brunneo-olivaceo; sporulis elongato-fusoideis, curvulis, sursum acutioribus, 10-15 nucleato-septulatis, non constrictis, 45-50 \times 4-5, hyalinis; basidiis paliformibus, stipatis, 7-10 \times 2, hyalinis.

Hab. in ramulis emortuis Ilicis Aquifolii in horto bot.

Padova Ital. bor. — Sporulis multi-septatis distincta.

3. **Stagonospora Rosæ** P. Brun. Act. Soc. Linn. Bordeaux 1898, 3769 p. 17 extr. — Peritheciis minutis sparsis, tectis v. vix erumpentibus; sporulis ovoideo-oblongis hyalinis, 3-septatis non constrictis, 10-12 \times 5.

Hab. in ramis emortuis Rosæ caninæ; Saintes Galliæ.

4. **Stagonospora Diospyri** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3770 4 ser. VIII, 1896, p. 9 extr. et Rev. Mycol. 1896. p. 170.

tab. CLXXII, fig. 12. — Peritheciis sparsis, erumpentibus, globosis, pertusis, nitidulis. 100-120 μ . diam., contextu fuligineo; sporulis cylindræcis, rectis, utrinque rotundatis, 3-septatis, non v. lenissime constrictis, initio 2-guttulatis, hyalinis, 12-13 \times 3-4; basidiis brevibus suffultis.

Hab. in ligno denudato Diospyri virginianæ in horto Monasterii Montis Oliveti in agro Senensi Italiæ.

5. **Stagonospora Bartholomæi** Sacc. et Syd. *Stagonospora Populi* Ell. 3771 et Barth. Erythea 1897, p. 50. — Peritheciis sparsis, erumpentibus, globosis, 200-350 μ . diam., levibus, atris, ostiolo minuto papilliformi; sporulis abundantibus, hyalinis, cylindræcis, rectis v. curvulis, obtusis, 3-4-guttulatis, 20-30 \times 5-6.

Hab. in ramis decorticatis Populi moniliferæ in Kansas Amer. bor. (BARTHOLOMEW).

6. **Stagonospora Calami** Bres. Hedw. 1896, p. 199. — Peritheciis 3772 sparsis, globoso-ovoideis, ostiolo subprominulo, contextu parenchymatico. 200 μ . diam.: sporulis hyalinis, cylindræcis v. subclavatis, 24-30 \times 8-9, 1-3-septatis, 2-4-guttulatis.

Hab. in foliis Acori Calami pr. Königstein Saxonie (KRIEGER).

7. **Stagonospora bufonia** Bres. Hedw. 1896, p. 200. — Peritheciis 3773 nigris, gregariis, inordinate dispositis, ellipsoideis, raro rotundatis, 180-190 \times 150-160, poro exiguo pertusis; sporulis tereti-fusoideis, utrinque obtusis, rectis vel rarius subcurvulis, 3-5-septatis, crasse guttulatis, hyalinis, nucleis stramineo-pallidis, 24-27 \times 6-8.

Hab. in culmis foliisque Junco bufonii pr. Königstein Saxonie (KRIEGER). — A *St. innumerosa* (Desm.) Sacc. peritheciis multo majoribus, et a *St. insidiosa* (Desm.) Sacc. peritheciis non maculicollis diversa.

8. **Stagonospora Typhoidearum** (Desm.) Sacc. — Syll. III, p. 451. — 3774 *Forma santonensis* P. Brun. Bull. Soc. Sc. Nat. de l'ouest de la France 1894, p. 36. — Sporulis subfusiformibus, sæpe utrinque rotundatis, medio constrictis, initio 4-guttulatis, hyalinis, dein 3-septatis, 22-28 \times 6.

Hab. in caulibus emortuis Sparganii ramosi in Gallia.

9. **Stagonospora Paspali** Atk. Bull. Cornell Univ. III, n. 1, 1897, 3775 p. 33. — Maculis ellipticis v. irregularibus, purpureo-marginatis, centro ochraceo-albidis, interdum confluentibus; peritheciis applanato-globosis; sporulis hyalinis, 2-septatis, in juventute 3-guttulatis, oblongis v. ellipticis, utrinque late rotundatis, 24-28 \times 7-9.

Hab. in foliis *Paspali levis* et *Tricuspidis seslerioidis* Auburn, Alabama Amer. bor.

10. **Stagonospora utriculata** Allesch. Hedw. 1897, p. 241. — Peritheciis in series dispositis, erumpentibus, globoso-depressis, atris, contextu parenchymatico fuligineo; sporulis fusiformibus, rectis v. curvulis, utrinque acutiusculis, rarius uno apice obtusiusculis v. obtusis, multiguttulatis, rarissime septatis, hyalinis, ca. 20-35 × 5-8.

Hab. in foliis vaginisque *Hierochloæ utriculatæ* pr. Concepcion in Chile (NEGER).

11. **Stagonospora** (*Paolettia*) **mucipara** Sacc. Bull. Soc. Myc. de Fr. 1896, p. 70, tab. VI, fig. 8. — Peritheciis gregariis, innato-erumpentibus, globosis v. horizontaliter ovatis, atris, vix papillatis, $\frac{1}{3}$ mm. diam.; sporulis tereti-fusoideis, curvulis, 3-septatis, haud constrictis, 25-30 × 3-3,2, apice subinde attenuato-truncatulis ibique basi que apiculo obtuso mucoso irregulari auctis, ex hyalino dilutissime flavidis; basidiis radiantibus, simplicibus furcatisque, guttulatibus, 24 35 × 3, subhyalinis.

Hab. in culmis emortuis *Phragmitis communis*, Italia superior. — Affinis, ut videtur, *St. aquaticæ*, sed notis datis diversa. Subgenus (doct. JULIO PAOLETTI, *Eutypæ* et *Tuberculariæ* egregio monographo, merito dicatum) sporulis mucoso-apiculatis dignoscitur.

KELLERMANNIA Ell. et Ev. — Syll. X, p. 337.

1. **Kellermannia Rumicis** Fautr. et Lamb. Rev. Mycol. 1897, p. 141. — Peritheciis erumpentibus, membranaceis, crassis, nigris, depressis astomis; sporulis numerosissimis, obclavatis, hyalinis, simplicibus, sursum in setam tenuem circiter 18 μ . longam contractis, 15-18 × 4.

Hab. in caulibus *Rumicis crispis* in Gallia.

Sect. 7. Dictyosporæ.

CAMAROSPORIUM Schulz. — Syll. III, p. 459, X, p. 338, XI, p. 536.

1. **Camarosporium Nandinæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 1896 (Microm. III, p. 7) et Rev. Mycol. 1896, p. 170, tab. CLXXIII, fig. 1. — Peritheciis globosis, epidermide tumidula velatis, $\frac{1}{4}$ - $\frac{1}{6}$ mm. diam., sparsis, late pertusis, contextu fusco-fuligineo; sporulis ovatis, initio lutescentibus, parum stipitellatis, dein atro-fuligineis, 2-septato-muriformibus, non constrictis, 10-13 × 6-9.

Hab. in ramulis emortuis *Nandinæ domesticæ* in horto bot. Senensi Italiae.

2. *Camarosporium vetustum* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3780 p. 465. — Peritheciis sparsis v. cæspitosis, per corticis rimas erumpentibus, hemisphaericis v. subelongatis, papillatis. $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; sporulis 3-septatis, 1 vel omnibus loculis septo longitudinali percursoris, 12-20 \times 8-12; sporulis minoribus regulariter ellipticis v. subglobosis, non constrictis, majoribus irregularibus, sæpe medio constrictis.

Hab. in caulibus siccis *Artemisiæ borealis*, Colorado Amer. bor. — *C. subfenestrato* affine.

3. *Camarosporium rosellinioides* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3781 p. 464. — Peritheciis erumpenti-superficialibus, sparsis v. in corticis rimis subseriatim dispositis, globosis, papillatis, circiter $\frac{1}{2}$ mm. diam.; sporulis oblongo-ellipticis, 12-22 \times 8-12, triseptatis, 1 vel 2 loculis septo longitudinali divisus.

Hab. in ramulis emortuis *Bigeloviæ* vel *Gutierrezæ*, Colorado Amer. bor.

4. *Camarosporium Kriegerii* Bres. Hedw. 1896, p. 200. — Peritheciis dense gregariis, atris, erumpentibus, globoso-depressis, interdum ellipticis, 280-320 \times 200-280; sporulis sarciniformibus, rarius obovatis, 16-18 \times 14-17, nonnullis 24-26 \times 15-17, luteo-fuscis, 2-5-septato-muriformibus vel cruciatim divisus; basidiis hyalinis, 8-10 \times 2 suffultis.

Hab. in caulibus *Tanacetii vulgaris* pr. Königstein Saxoniae (KRIEGER).

5. *Camarosporium Ligustri* Berl. et Destr. in Ned Kruidk. Arch. 2 ser. IV, 4, 1895, p. 17 extr. — Peritheciis 2-5 botryoideo-aggregatis, epidermide tectis, peridermide immersis, parvis, intus atris, mutua pressione angulatis; sporulis ovoideis, utrinque acutiusculis, 3-septatis, loculo uno v. duobus mediis, sæpe septulo longitudinali recto v. obliquo divisus, atro-fuligineis, loculis polaribus paulo pallidioribus, 14-16 \times 7-8, basidiis brevibus hyalinis suffultis.

Hab. in ramulis exsiccatis *Ligustri vulgaris* in Belgio.

6. *Camarosporium dissimile* Vestegr. Oefv. K. Vet. - Akad. Förh. 1897, n. I, p. 42. — Peritheciis punctiformibus, sparsis, epidermide velatis, mox ostiolo papilliformi plus minusve prominentibus, sphæroideis, 0,1-0,2 mm. diam., membranaceis, nigris, textura parenchymatica, fuliginea; sporulis ellipsoideo-oblongis, utrinque rotundatis, rectis densiuscule 7-9-septatis, septo longitudinali divisus,

obscurè fuscis, 20-23 \times 9 $\frac{1}{2}$, basidiis filiformibus, reotis, 10-12 \times 2 $\frac{1}{2}$ -3, hyalinis suffultis.

Hab. in ramulis aridis *Symphoricarpi racemosi* pr. *Ursaliam*, Suecia. — A *C. Symphoricarpi* Karst. notis allatis bene differt.

7. *Camarosporium Linderæ* Ell. et Ev. Field Columb. Mus. IX, 1896, 3785 p. 117. — Peritheciis sparsis, semierumpentibus, 0,5 mm. diam., parte superiore epidermide tecta; ostiolo papilliformi, erumpente sporulis oblongis, 3-septatis et longitudinaliter septatis, fuscis, obtusis, non constrictis, 12-18 \times 5-7.

Hab. in ramulis mortuis *Linderæ Benzoin* in W. Virginia Amer. bor. (NUTTALL).

8. *Camarosporium Chonopodii* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3786 p. 289. — Peritheciis erumpentibus, conico-globosis, 110-140 μ . diam., contextu dense celluloso, supra perforatis, membranæis; sporulis oblongo-ellipticis v. subcubicis, luteo-brunneis, 3-septatis muriformibusque, 10-20 \times 8-18.

Hab. in caulibus emortuis *Chonopodii*, Colorado Amer. bor.

9. *Camarosporium caulium* P. Brun. Sphæropa. Char. 1889, p. 69. 3787 — Peritheciis sparsis, erumpentibus, nigris, ostiolo vix prominente, perforatis; sporulis oblongis, fuliginæis, 3-septatis, ad septa constrictis, 1 vel 2 loculis in longitudine septatis, 18-20 \times 10-12.

Hab. in sarmentis emortuis *Humuli Lupuli*, Saintes Galliæ.

10. *Camarosporium Ulmi* E. et D. Proc. of the Canad. Inst. 1897, 3789 p. 92. — Peritheciis gregariis subglobosis, cir. $\frac{1}{3}$ mm. diam., molliusculis, intus ardesiacis, cortice innatis; ostiolo minuto punctiformi epidermidem perforante sed vix excedente; sporulis ovatis, 3-septatis, submuriformibus, brunneis, 12-13 \times 6-8.

Hab. in ramis emortuis *Ulmi* sp., London, Canada.

11. *Camarosporium Karstenii* Sacc. et Syd. Sic dicendum est *Camarosporium multiforme* Karst. in Sacc. Syll. X, p. 339, quum exstet antèrius *C. multiforme* Sacc. et Schulz. Syll. III, p. 462.

12. *Camarosporium Gudemansii* Sacc. et Syd. Sic nominandum est *Camarosporium Syringæ* Cud. Sacc. Syll. XI, p. 537, quum exstet antèrius *C. Syringæ* Cke. et Mass. Syll. X, p. 343.

CYTOSPORIUM Peck — Syll. III, p. 470, X, p. 347, XI, p. 535.

1. *Cytosporium Acaciæ* Pat. Cat. rais. pl. cell. Tunisie 1897, p. 124. 3789 — Peritheciis superficialibus globosis, atris, dense gregariis, ostiolo minuto, depresso impressis, $\frac{1}{4}$ mm. latis, coriaceis, nucleo albo

subiculo dematioideo, vix perspicuo insidentibus; sporulis ovoideis, brunneis, pellucidis, levibus, utrinque obtusis, transverse 3-septatis, longitudinaliter 1-septatis, non v. vix constrictis, 13-16 \times 8-10.

Hab. in ligno denudato putrido *Acaciæ* in Tunisia.

DICHOMERA Cocks — Syll. III, p. 471, X, p. 348.

1. **Dichomera Juglandis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 465. 3790

— Stromatibus dense gregariis, applanatis, nigris, suborbicularibus, circiter 1 mm. diam. lobis epidermidis ruptæ adpressis dense cinctis; peritheciis monostichis, minutis, 100-120 μ . diam., stromate omnino innatis; sporulis globosis, cruciato-septatis v. ovatis et 2-3-septatis muriformibusque, 10-12 \times 7-8, brunneis.

Hab. in ramis emortuis *Juglandis cineræ*, Ohio Amer. bor. (MORGAN).

Sect. 8, Scolecosporæ.

SEPTORIA Fr. — Syll. III, p. 474, X, p. 349, XI, p. 538.

1. **Septoria Pæoniæ** West. - Syll. III, 526. — var. *berolinensis* Allesch. 3791

Hedw. 1896, XXXV, p. (34). — Maculis suborbicularibus, ochraceis, concentricis, medio pallescentibus, albicantibus, purpureo-cinctis, 2-8 mm. diam.; peritheciis epiphyllis, gregariis, immersis, brunneis; ostiolo poriformi; sporulis fusiformibus, curvulis, utrinque acuminatis, indistinctè multi-nucleolatis, hyalinis, 25-30 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis vivis *Pæoniæ herbacææ* pr. Berol. Germaniæ (SYDOW).

2. **Septoria Brunaudii** Sacc. et Syd. *Septoria intermedia* P. Brun. 3792

Sphærops. Char. 1889, p. 78, nec Ell. et Ev. — Maculis magnis, subrotundatis vel irregularibus, griseis vel cinereis, angustissime marginatis, brunneis; peritheciis non numerosis, sparsis, punctiformibus, nigris; sporulis cylindræis, rectis v. curvulis, hyalinis, continuis, 18-20 \times 1 $\frac{1}{2}$.

Hab. in foliis languescentibus *Anemones japonicæ*, Saintes Galliæ.

3. **Septoria Lycoctoni** Speg. — Syll. III, p. 525. — var. *sibirica* 3793

Sacc. Malpighia 1896, pag. 274. — Sporulis longioribus, nempe 45-60 \times 2.

Hab. in foliis *Aconiti*, in Sibiria.

4. **Septoria Henriquesii** Thüm.-Sacc. Syll. III, p. 520. — forma *santonensis* P. Brun. Sphærops. Char. 1889, p. 77 — Maculis ex 3794

theeciis gregariis formatis, intense olivaceis; sporulis bacillaribus, rectis v. subrectis, pluriguttulatis, utrinque rotundatis, hyalinis, $15-20 \times 3-3\frac{1}{2}$.

Hab. in foliis languescentibus Matthioliæ incanæ, Fouras Gallie.

5. **Septoria Brassicæ** Ell. et Ev. Field Columb. Mus. IX, 1896, 3795 p. 117. — Maculis suborbicularibus v. subangulosis, 3-4 mm. diam.; sordide albis, margine obscuriore angusto interdum subelevato cinctis; peritheciis epiphyllis numerosis, sublenticularibus, pallide brunneis, contextu dense celluloso, supra late perforatis, 100-115 μ . diam.; sporulis numerosis curvulis obtusis, continuis, hyalinis, $25-45 \times 2-3$.

Hab. in foliis Brassicæ nigræ, W. Virginia Amer. bor. (NUTTALL).

6. **Septoria Alyssi** Bres. n. sp. in litt. — Maculis parvis, amphigenis, oblongis v. subrotundis, pallidis, vix marginatis; peritheciis epiphyllis, subglobosis, prominulis, nigris, punctiformibus, 100-105 μ . diam., contextu parenchymatico; sporulis hyalinis, cylindraceis, pluriguttulatis, spurie septatis, sæpe uno latere curvulis, $16-20 \times 2-2\frac{1}{2}$.

Hab. in foliis adhuc vivis Alyssi saxatilis pr. Berolinum Germaniæ (SYDOW).

7. **Septoria Chamæcisti** Vesterg. Bihang K. Svenska V. A. Handl. 3797 XXII, Afd. III, n. 6, 1896, p. 24. — Maculis epiphyllis, intumescensibus, primo brunneis, dein sordide albescentibus, fusco-cinctis, orbiculatis, sparsis, ca. 1 mm. diam. vel in maculas majores confluentibus; peritheciis paucis, sparsis, minutissimis, sursum perforatis, 40-60 μ . diam., atris; sporulis rectis v. leniter curvulis, $20-40 \times 1$, continuis v. parce et obsolete guttulis, hyalinis.

Hab. in foliis vivis Helianthemi Chamæcisti in Gotlandia Sueciæ.

8. **Septoria Monninæ** Pat. Bull. Soc. Myc. de Fr. 1895, p. 232. — 3798 Maculis amphigenis, sparsis aut confluentibus, albidis, fusco-marginatis; peritheciis epiphyllis, gregariis, globosis, atris, apice pertusis, contextu coriaccello, 150-160 μ . diam., nucleo albo; sporulis hyalinis, continuis, rectis, flexuosis v. curvulis, $26-30 \times 1$.

Hab. in foliis Monninæ sp. in Æquatoria (v. LAGERHEIM).

9. **Septoria Zygothylli** Syd. Mycotheca Marchica n. 4199. — 3799 Maculis subcircularibus, subferrugineis, demum albicantibus, rufo-brunneo-marginatis; peritheciis sparsis, punctiformibus, atris; spo-

culis filiformibus, curvulis, hyalinis, indistincte septatis, 26-30 \times 1-1 $\frac{1}{2}$.

Hab. in foliis vivis *Zygophylli Fabaginis* pr. Berolinum Germaniæ.

10. *Septoria Fagoniæ* Pat. Bull. Soc. Mycol. de France 1897, p. 213. 3800

— Maculis orbicularibus, 1-2 mm. latis, albidis v. brunneolis, centro depressis; peritheciis amphigenis, nigris, punctiformibus, centro macularum dispositis, globosis, 80-100 μ . diam., immersis, dein erumpentibus, ostiolatis; sporulis linearibus, rectis v. flexuosis, acutis, hyalinis, 2-3 transverse septatis, 30-40 \times 2-3.

Hab. in foliis *Fagoniæ creticæ* in Tunisia.

11. *Septoria confusa* Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 33, 3801

Septoria Jussiiæ Ell. et Kell., Journ. Elish. Mitch. Sc. Soc. 1893 X, II, p. 77 (absque diagnosi). — Maculis minutis, circularibus, 2-3 mm. diam., centro griseolo-brunneis v. albidis, indefinite rubescenti-marginatis; peritheciis paucis; sporulis filiformibus, 1-3-septatis, 25-35 \times 2.

Hab. in foliis *Jussiiæ leptocarpæ*, Auburn, Alabama Amer. bor.

12. *Septoria Jussiiæ* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 289. 3802

— Maculis albis rubro-marginatis, suborbicularibus, minutis, 1-1 $\frac{1}{4}$ mm.; peritheciis paucis (1-6) in quaque macula, sæpius in centro solitariis, punctiformibus, nigris, epiphyllis, semierumpentibus; sporulis filiformibus, curvulis, nucleato-septulatis, 30-50 \times 1-1 $\frac{1}{4}$.

Hab. in foliis *Jussiiæ pilosæ*, Florida Amer. bor. (NASH).

13. *Septoria alpicola* Sacc. Malpighia XI, 1897, pag. 314. — Ma- 3803

culis nullis v. indistinctis; peritheciis gregariis, hypophyllis, sæpe totum folium occupantibus, globoso-depressis, erumpentibus, nigris, 150 μ . diam., pertusis, contextu solidiuseulo; sporulis filiformibus, curvulis, 70-80 \times 1 $\frac{1}{2}$, eguttulatis, continuis, hyalinis; basidiis brevissimis, oblongis.

Hab. in foliis languidis *Epilobii alpini*, Alagna-Valsesia, Italia bor. (CARESTIA).

14. *Septoria lychnidicola* P. Brun. Sphærops. Char. 1889, p. 77. — 3804

Maculis rotundatis vel oblongis, ochraceis, brunneo-marginatis; peritheciis sparsis, brunneis, punctiformibus; sporulis bacillaribus, rectis vel flexuosis, utrinque rotundatis, hyalinis, guttulatis, 45-50 \times 2-2 $\frac{1}{2}$.

Hab. in foliis *Lychnidis Floris-cuculi*, Saintes Galliæ.

15. *Septoria Patouillardii* Sacc. et Syd. *Septoria Phytolacæ* Pat. Bull. 3805

Soc. Myc. de Fr. 1895, p. 232. — Maculis orbicularibus, 4-6 mm. diam. sparsis v. confluentibus, dilute fuscis; peritheciis hypophyllis, dense gregariis, vix prominulis, globosis, 100-200 μ . diam., brunneolis, late apertis, contextu coriaccello, minute celluloso; sporulis elongatis, hyalinis, rectis v. curvulis, utrinque obtusis, continuis v. obscure 1-3-septatis, 20-23 \times 2-3.

Hab. in foliis *Phytolacææ* sp. in *Æquatoria* (v. LAGERHEIM).

16. **Septoria Pittospori** P. Brun. Sphaerops. Char. 1889, p. 70. — 3806
Maculis intense brunneis, rotundatis; peritheciis minutis, non numerosis, nigris; sporulis cylindraceutis, rectis vel curvatis v. flexuosis, hyalinis, pluriseptatis, 20-25 \times 2-2 $\frac{1}{2}$.

Hab. in foliis *Pittospori* *Tobirææ*, *Saintes Galliæ*.

17. **Septoria viticola** P. Brun. Sphaerops. Char. 1889, p. 71. — Ma- 3807
culis magnis, amphigenis, subrotundatis, angulosis v. irregularibus, interdum confluentibus, brunneis, dein griseo-brunneis, angustissime brunneo-marginatis; peritheciis epi- vel hypophyllis, punctiformibus numerosissimis, gregariis, nigris; sporulis subfusiformibus, guttulatis, rectis, hyalinis, 15-17 \times 2.

Hab. in foliis *Vitis viniferæ*, *Saintes Galliæ*.

- 18 **Septoria melanopsis** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 125. 3808
— Maculis nigricantibus, minutis, 1-2 mm. diam., angulosis, numerosissimis; peritheciis hypophyllis, rarissime epiphyllis, atris, 100-120 μ . latis, gregariis, globosis, semiimmersis, poro pertusis, contextu celluloso, brunneo; sporulis linearibus, hyalinis, rectis v. curvulis, valde inæqualibus, utrinque acutis, continuis, dein medio 1-septatis, 10-20 vel 16-20 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis emortuis *Vitis viniferæ* in Tunisia.

19. **Septoria torminalis** Allesch. Ber. Bayr. bot. Ges. V, 1897, p. 20. 3809
— Hypophylla; maculis nullis; peritheciis punctiformibus, globosis, minutissimis, epidermide tectis, dein erumpentibus, in greges parvos superficie fere folii totius dispersis, poro pertusis, fuscis; sporulis cylindraceutis, rectis, utrinque obtusis, continuis, hyalinis, sæpe biguttulatis, 10-20 \times 1 $\frac{1}{2}$ -2 $\frac{1}{2}$; basidiis non visis.

Hab. in pagina inferiore foliorum languidorum *Sorbi torminalis* in Franconia super. (ROHNFEIDER). — A *Sept. hyalospora* (Mont. et Ces.) Sacc., *S. hybrida* Pass. et *S. Sorbi* Lasch sporulis cylindricis, rectis, minoribus longe differt.

20. **Septoria anomala** Sacc. et Fautr. Rev. Mycol. 1897, p. 55. — 3810
Maculis totum marginem foliorum occupantibus; peritheciis epiphyllis, innatis, minutis, nigris, poro amplo pertusis; sporulis hya-

linis, rectis v. leniter curvulis, cylindræcis, fusiformibus, interdum uniseptatis, 12-16 \times 2.

Hab. in foliis Pruni spinosæ in Gallia.

21. **Septoria Gei** Rob. et Desm. - Sacc. Syll. III, p. 510. — forma 3811
immarginata P. Brun. Sphærops. Char. 1889, p. 75. — Maculis brunneis, non marginatis; peritheciis interdum confluentibus; sporulis filiformibus, 20-50 μ . longis.

Hab. in foliis Gei urbani, Saintes Gallia.

22. **Septoria Hanburyana** F. Tassi, Bull. del Lab. Bot. d. R. Univ. 3812
Siena 1898. fasc. I, p. 13. tab. XI, fig. 4. — Maculis nullis v. sordide fuscis, indeterminatis; peritheciis hypophyllis, gregariis, initio epidermide tumidula velatis, dein epidermide fixa cinctis, atris, exiguis, globosis, 50-60 μ . diam.; sporulis breviusculis, filiformibus, cylindræcis, utrinque attenuatis, oguttulatis, 18-20 \times 1 $\frac{1}{2}$ -2. hyalinis.

Hab. in foliis vivis, quæ nascat, Tristianæ neriifoliae in horto bot. Senensi, Italia.

23. **Septoria Blandalei** Sacc. et Syd. *Septoria variegata* Ell. et Ev. 3813
Proc. Acad. Philad. 1895, p. 434. nec. Vive. — Maculis numerosis, obscure ferrugineis, dein dilutioribus, 2-8 mm. diam., centro areolis sæpe numerosis albis variegatis ideoque zonatis; peritheciis epiphyllis, interdum hypophyllis, areolis albis insidentibus, supra late apertis, 100-110 μ . diam.; sporulis clavato-cylindræcis, irregulariter curvulis, hyalinis, nucleatis, demum 3-septatis, 25-55 \times 3-4 $\frac{1}{2}$.

Hab. in foliis Rhamni Purshianæ, California (BLASDALE).

— Ad *Cylindrosporium* vergit.

24. **Septoria Banisteriæ** F. Tassi. Atti R. Acc. dei Fisicor. Siena 4 3814
ser. VIII, 1896, p. 9 extr. et Rev. Mycol. 1896, p. 170, tab. CLXXIII, fig. 2. — Maculis epiphyllis, irregularibus, albicantibus, rufo-cinctis; peritheciis sparsis, paucis, velatis, globosis, pertatis, 100-120 μ . diam., contextu fuligineo; sporulis bacillaribus, rectis v. curvatis, continuis, sæpe minute pluriguttulatis, hyalinis, 12-14 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis vivis Banisteriæ chrysophyllæ in horto bot. Senensi Italia.

25. **Septoria seminalis** Sacc. - Syll. III, 478. — var. **Platanoidis** Allesch. 3815
Hedw. 1896, XXXV p. (34). — Maculis parvis, suborbicularibus, ochraceis, immarginatis, o. 2 mm. diam.; peritheciis epiphyllis, parvis, tectis, lenticularibus, atris; sporulis aciculari-fusiformibus

valde curvulis, falcatis, 60-70 \times 2-2 $\frac{1}{2}$, multi-guttulatis v. multi-septatis.

Hab. in cotyledonibus languidis *Aceris platanoidis* pr. Berol. Germaniæ (SYDOW).

26. **Septoria epicotylea** Sacc. *Malpighia* XI, 1897, p. 314. — Ma- 3816
culis subcircularibus dilute virentibus. immarginatis; peritheciis hypophyllis innatis, globoso-lenticularibus, 120-140 μ . diam., pertusis, tenuibus: sporulis cylindraceutis, varie flexis, varie arcuatis, 36-38 \times 2,7-3, hyalinis, 3-5-septatis, utrinque obtusulis.

Hab. in foliis cotyledoneis *Aceris Pseudoplatani*, Valsesia in Italia boreali (CARESTIA).

27. **Septoria Aphaniae** P. Henn. *Hedw.* 1895, p. 334. — Maculis 3817
pallidis, fusco-cingulatis, rotundatis, 3-8 mm. diam.; peritheciis gregariis. minutis, punctiformibus, atris; sporulis oblongis, rectis v. subcurvulis, utrinque obtusis, hyalinis, 10-14 \times 4-6, multiguttulatis, dein uniseptatis.

Hab. in foliis *Aphaniae senegalensis* in *Erythræa* (SCHWEINFURTH).

28. **Septoria Rivini** P. Brun. *Sphærops. Char.* 1889, p. 78. — Ma- 3818
culis suborbicularibus, angulosis v. irregularibus, brunneolis, dein intense olivaceis, demum subalbis, brunneo-marginatis; peritheciis punctiformibus, non numerosis, nigrescentibus; sporulis rectis v. curvulis, bacillaribus utrinque obtusiusculis, obscure septatis, hyalinis, 20-30 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis *Falcaria Rivini*, Fouras Galliae.

29. **Septoria Petroselini** Desm.-Sacc. *Syll.* III, p. 530. — forma 3819
segetum P. Brun. *Sphærops. Char.* 1889, p. 79. — Maculis angulosis, minimis, brunneolis, dein pallescentibus, non albescentibus, interdum angustissime brunneo-marginatis; peritheciis nonnumerosis; sporulis filiformibus, guttulatis v. septatis, hyalinis, 30-50 \times 1.

Hab. in foliis *Petroselini segetum* in Gallia. — var. **Apii** Br. et Cav. *F. parass. n.* 144 cum icone, *Sept. Apii* Chester Bull. *Torr. bot. Cl.* 1891 p. 372. — Maculis latis albicantibus areolas flavidas continentibus; peritheciis sporulisque ut in typo. In foliis, quæ valde vexat, *Apii graveolentis* in Italia, Gallia, Belgio et Amer. bor. Perithecia in areolis flavidis nidulantur.

30. **Septoria Saxifragæ** Pass. — *Syll.* III, p. 527. — forma **arctica** 3820
Allesch. in Allescher et P. Hennings, *Pilze aus dem Umanakdistrikt.* 1897, p. 13. — Sporulis bacillaribus, rectis, utrinque obtusis, continuis v. 1-septatis, hyalinis, ca 10-20 \times 2.

Hab. in foliis emortuis *Saxifragæ aizoides* pr. Kome Groenlandiæ (VANHÖFFEN).

31. **Septoria Robiniæ** Desm. - Sacc. Syll. III, p. 484. — forma **major** 3821
P. Brun. Act. Soc. Linn. Bordeaux 1888, p. 19 extr. — Sporulis 35-45 \times 1-1 $\frac{1}{2}$.

Hab. in foliis Robiniæ Pseudacaciæ, Saintes in Gallia.

32. **Septoria Lablabis** P. Henn. Pilz. Ostaf. p. 34. — Maculis gregariis, sparsis, rotundatis, interdum confluentibus, fuscis; peritheciis epiphyllis, minutis, punctiformibus, fusco-brunneis v. atris, densis; sporulis filiformibus, rectis v. flexuosis, acutis, nebulosis, hyalinis, 4-septatis, 35-50 \times 1-1 $\frac{1}{2}$. 3822

Hab. in foliis Dolichi Lablabis in Africa trop. (STUHLMANN).

33. **Septoria Pyrethri** Bres. et Krieg. Hedw. 1897, p. 381. — Epiphylla: maculis sparsis, irregularibus, ex isabellino fuscis, vix marginatis; peritheciis sparsis, nigris, globoso-lenticularibus, poro prominulo pertusis, contextu parenchymatico; sporulis cylindraceis, apicibus attenuatis, obtusis, demum 2-pluriseptatis, hyalinis, 50-75 \times 2-3. 3823

Hab. in foliis Pyrethri Parthenii pr. Koenigstein Germaniæ.

34. **Septoria Heliopsisidis** E. et D. Proc. of the Canad. Inst. 1897, p. 93. — Maculis irregularibus, initio rubescenti-brunneis, dein obscurioribus, copiosis, 2-5 mm. diam. areis peritheciophoris demum pallidescentibus; peritheciis amphigenis, immersis, atro-brunneis, 85-100 μ . diam.; sporulis rectis curvulisve v. flexuosis, 54 \times 2-3, sæpius 40 \times 1. 3824

Hab. in foliis Heliopsisidis levis, Thamesville Ontario Amer. bor.

35. **Septoria Dysentericæ** P. Brun. Sphærops Char. 1889, p. 81. — Maculis minutis, albis, irregularibus vel angulosis, angustissime brunneo-marginatis; peritheciis non numerosis, punctiformibus, nigris; sporulis filiformibus, leniter curvulis, continuis vel obscure guttulatis, hyalinis, 35-38 \times 1. 3825

Hab. in foliis languescentibus Inulæ dysentericæ, Fouras Galliæ

36. **Septoria Restrupii** Sacc. et Syd. *Septoria Chrysanthemi* E. Rostr. Bot. Tidsskr. 1897, p. 48, nec Allesch. — Maculis orbicularibus, epiphyllis, atro-fuscis; peritheciis epiphyllis; cirris albis tenuissimis; sporulis filiformibus, subflexuosis, 40-50 \times 2. 3826

Hab. in foliis Chrysanthemi indici culti in Dania.

37. **Septoria alba** Ell. et Barth. Erythea 1896, p. 25. — Maculis 3827
sparsis, minutis, 1-1½ mm., albis, tenuibus, margine elevato; peritheciis paucis in quaque macula (1-4), 100-110 μ. diam.; sporulis rectis v. abrupte et irregulariter subcurvulis, hyalinis, subtiliter nucleatis, 20-40 × 1¼-1¾.
- Hab.* in foliis vivis Silphii integrifolii, Kansas, Amer. bor. (BARTHOLOMEW).
38. **Septoria Bellidiastri** Allesch. Ber. Bayr. Bot. Ges. IV, 1896. 3828
p. 34. — Peritheciis epiphyllis, dense gregariis, prominulis, atris, in superficie folii totius dispersis; sporulis filiformibus, rectis vel subrectis, indistincte guttulatis, 35-40 × 0,7, hyalinis.
- Hab.* in foliis emortuis Bellidiastri Michellii in Bavaria merid.
39. **Septoria Scolymi** Pass.-Sacc. Syll. III, p. 550. — Var. **Carlinæ** 3829
Sacc. Malpighia XI, 1897, pag. 313. — Maculis indeterminatis, griseolis; peritheciis 100-140 μ. diam.; sporulis 28-32 × 1, non septatis, hyalinis.
- Hab.* in foliis Carlinæ acaulis, Riva-Valsesia, Italia (CA-RESTIA).
40. **Septoria Crepidis** Vestergr. Bihang K. Svenska V. A. Handl. XXII, 3830
Afd. III, n. 6, 1896, p. 24. — Maculis amphigenis, maiusculis suborbiculatis, saepe irregulariter confluentibus, margine indistincto, fuscis, intus demum parum pallescentibus; peritheciis numerosis, amphigenis, tectis v. subprominulis, papillulatis, demum poro ampliusculo patentibus, 60-70 μ. diam., nigris; sporulis filiformibus, rectis v. subcurvulis, utrinque acutiusculis, 25-35 × 1, plerumque pluriguttulato-septatis, hyalinis.
- Hab.* in foliis vivis Crepidis tectorum in Gotlandia Sueciæ.
41. **Septoria scabiosæcola** Desm.-Sacc. Syll. III, p. 553. — Forma 3831
Scabiosæ Balansæ P. Braun. Act. Soc. Linn. Bordeaux 1890, p. 58 extr. — Sporulis 45-50 × 1.
- Hab.* in foliis Scabiosæ Balansæ cultæ, Bordeaux. — Forma **Knautiæ hybridæ** P. Brun. l. c. — Sporulis 30-40 × 1/3-1. In foliis Knautiæ hybridæ, Bordeaux. — Forma **Knautiæ longifoliæ** P. Brun. l. c. — Sporulis 35-45 × 1. In foliis Knautiæ longifoliæ, Bordeaux in Gallia.
42. **Septoria incarnata** Ell. et Ev. Barth. Erythea 1896, p. 25. — 3832
Maculis orbicularibus, minutis, 1-2 mm. diam., subdiscoideis, inferne subconcavis, albidis, purpureo-marginatis; sporulis filiformibus, continuis, subtiliter nucleatis, 20-40 × 1½-2.

Hab. in foliis vivis *Asclepiadis incarnatæ*, Kansas, Amer.

bor. (BARTHOLOMEW).

43. **Septoria Hydrophylli** E. et D. Proc. of the Canad. Inst. 1897, 3833
p. 93. — Maculis brunneis, initio 2-4 mm. diam., circularibus,
dein angulosis, infra fumosis; peritheciis epiphyllis, copiosis, 50-
80 μ . diam.; sporulis rectis v. curvulis, hyalinis, 35-45 \times 1,5.

Hab. in foliis *Hydrophylli virginici* London, Canada.

44. **Septoria origanicola** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3834
p. 35. — Maculis amphigenis, irregularibus, indeterminatis, ma-
gnæ, sæpe confluentibus et folium totum occupantibus, brunneo-
fuscis, dein atro-fuscis; peritheciis minutis, innatis, semper tectis,
vix prominulis, brunneis; sporulis acicularibus, sæpe filiformibus,
rectis curvulisve, multi-guttulatis, hyalinis, longitudine varia, 30-
70 \times 1-2.

Hab. in foliis languidis *Origanum vulgare* in Bavaria merid.

45. **Septoria Clinopodii** Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 20. 3835
— Maculis irregularibus, nervulis limitatis, amphigenis, brunneis;
peritheciis plerumque hypophyllis, innatis, tectis, vix prominulis,
concoloribus; sporulis cylindraceis, plerumque rectis, utrinque ob-
tusis, multiguttulatis, hyalinis, 20-40 \times 1-2; basidiis fasciculatis,
filiformibus, 25-30 \times 1.

Hab. in foliis adhuc vivis *Clinopodii vulgare*, sociâ *Ra-
mulariâ* in Bavaria super.

46. **Septoria teucricola** P. Brun. Sphaerops. Char. 1889, p. 81. — Ma- 3836
culis rotundatis, brunneolis vel brunneo-griseis, minutis, brunneo
vel atropurpureo-marginatis; peritheciis punctiformibus, sparsis,
nigris; sporulis oblongo-filiformibus, hyalinis, 4-guttulatis, 15 \times 3.

Hab. in foliis *Teucris Chamædryes*, Pessines Galliæ.

47. **Septoria coffeicola** P. Henn. Fungi camerun. I. in Engl. Jahrb. 3837
XXII, 1895, p. 80. — Maculis albis, solitariis, rotundatis, atro-
brunneo-cinctis, circiter 1 mm. diam.; peritheciis solitariis, pun-
ctiformibus; sporulis linearibus, curvulis, multiguttulatis, obtusis,
hyalinis, 22-30 \times 1-1 $\frac{1}{2}$.

Hab. in foliis, quæ maculantur, *Coffeæ libericæ*, Kamerun
(PREUSS).

48. **Septoria angustifolia** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 465. 3838
— Maculis suborbicularibus, ferrugineis, elevato-marginatis, 2-3
mm. diam., inferne pallidioribus; peritheciis epiphyllis, minutis,
sparsis, non numerosis; sporulis filiformibus, curvulis, septulatis
nucleolatisque, 25-45 \times 2-2 $\frac{1}{2}$.

Hab. in foliis *Kalmiæ angustifoliæ*, Newfield New Jersey, Amer. bor.

49. **Septoria Azaleæ** Voglino in litt. — Peritheciis plerumque hy- 3830
pophyllis quandoque epiphyllis, rarissime in mesophyllo immer-
sis, rotundis leviter depressis, primo innatis dein prominulis atque
erumpentibus, punctiformibus, nigris, hinc illinc aggregatis in ma-
cula rubro-flavescente, poro apicali præditis; sporulis oblongo-cy-
lindricis seu ovato-oblongis quandoque fere bacillaribus rectis vel
parum arcuatis, hyalinis, minute granulosis, primo continuis de-
nique 1-3-, sed plerumque 3-septatis, ad septa leviter constrictis,
12-18 \times 1,5-2,5; basidiis anguste cylindricis, brevissimis, 3-5 μ .
longis.

Hab. in foliis *Azaleæ indicæ* in hortis publicis ad Valen-
tinum, Torino Ital. bor. — Species valde noxia, initio foliorum
apicibus siccitatem efficit, quæ paulatim fere totam laminam folii
pervadit. Arte exulta gignit formam conidicam cum conidiis el-
lipticis, oblongis, 8-10 \times 2-5.

50. **Septoria exotica** Speg.—Sacc. Syll. III, p. 533. — var. **Andersoni** 3840
F. Tassi, Bull. del Lab. Bot. d. R. Univ. Siena 1898, fasc. I,
p. 12, tab. XI, fig. 3. — Maculis sparsis v. confluentibus, amphig-
enis, superne fuscis, dein arescendo albicantibus, zona tenui fusca
vel purpureo-fusca cinctis, inferne æqualibus sed fulvis; perithe-
ciis nigris, exiguis, epiphyllis, 40-50 μ , diam., lenticularibus, in
singula macula 1-5 sparsis, contextu fuligineo; sperulis cylindra-
ceis, elongatis, rectis vel fere curvulis, utrinque parum obtusis,
20-26 \times 1-1 $\frac{1}{2}$, continuis, hyalinis, granulis endoplasmaticis caren-
tibus.

Hab. in foliis vivis *Veronicæ Andersonii* in horto pu-
blico Senensi, Italia.

51. **Septoria Drygalskii** P. Henn. in Allescher et P. Hennings, Pilze 3841
aus dem Umanakdistrikt. 1897, p. 13. — Peritheciis amphigenis
caulicolisque, sparsis v. gregariis, erumpentibus, punctiformibus,
subhemisphæricis, nigris; sporulis filiformibus, subflexuosis, utrin-
que obtusis, guttulatis, continuis, hyalinis, 60-80 \times 2-2 $\frac{1}{2}$.

Hab. in foliis caulibusque siccis *Mertensiae maritimæ* pr.
Amitsuatsiakfjord Groenlandiæ (v. DRYGALSKI). — A *Sept. Steen-*
hammerie Rostr. sat diversa.

52. **Septoria Diospyri** Mc. Alp. Proc. of the Linn. Soc. of N. S. 3842
Wales 1897, p. 42, tab. II, fig. 18. — Peritheciis epiphyllis, mi-
nutis, membranaceis, brunneolis, appendiculis paucis atro-brunneis

flexuosis, rigidis septatis acutis ornatis; sporulis hyalinis, filiformibus, curvulis, gracilibus, 5-septatis, 40-45 \times 1-1 $\frac{1}{2}$.

Hab. in pagina foliorum super. Diospyri Cargillia, N. S. Wales Australiae (MAIDEN).

53. **Septoria Sydowii** P. Henn. et Sacc., *Septoria Symploci* Allesch. 3843

et P. Henn. Hedw. 1897, pag. 242, nec Ellis et Mart. — Maculis amphigenis, subcircularibus irregularibusve, candidis, obscure marginatis, 1-2 mm. latis; peritheciis plerumque epiphyllis, erumpentibus, subglobosis, punctiformibus, poro pertusis, nigro-brunneis; sporulis filiformibus, utrinque obtusis, subrectis, sæpe curvatis v. flexuosis, 1-3-septatis v. guttulatis, hyalinis, ca. 15-40 \times 1-1 $\frac{1}{2}$.

Hab. in foliis vivis Symploci spec. pr. Goyaz Brasiliæ (GLAZIOU), in fol. S. cratægioidis pr. Tokio Japoniæ (SHIRAI). — In specim. japonicis maculæ interdum majores, sed sporulæ omnino congruentes.

54. **Septoria Armeriæ** Allesch. in Allescher et P. Hennings, Pilze 3844

aus dem Umanakdistrikt. 1897, p. 13. — Peritheciis amphigenis, plurimum epiphyllis, sparsis, erumpentibus, lenticularibus, punctiformibus, nigris; sporulis bacillaribus, rectis, utrinque obtusis, continuis, eguttulatis, longitudine varia, 8-30 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis emortuis Armeriæ vulgaris var. sibiricæ sæpe sociâ *Pyllostictâ Armeriæ* Allesch., pr. Karajak et Niakornak Groenlandiæ (VANHÖFFEN).

55. **Septoria Vanhoeffenii** P. Henn. in Allescher et P. Hennings, 3845

Pilze aus dem Umanakdistrikt. 1897, p. 13. — Peritheciis innatoprominulis, sparsis, punctiformibus, subglobosis, nigris; sporulis fuscoideis, arcuatis, utrinque acutis, 15-21 \times 2-2 $\frac{1}{2}$, intus granulosis, obsolete septatis, hyalinis.

Hab. in foliis caulibusque emortuis Plantaginis maritimæ f. borealis pr. Umanak Groenlandiæ (VANHÖFFEN).

56. **Septoria Garryæ** Roum. — Sacc. Syll. III, p. 500. — forma rupe- 3846

fortensis P. Brun. Sphaerops. Char. 1889, p. 74. — Maculis amphigenis, subrotundatis v. irregularibus, sæpe marginalibus, brunneolis, dein sordide cinereo-griseis, demum pallescentibus, brunneo-purpureo-marginatis; peritheciis punctiformibus, sparsis, perforatis, nigris; sporulis oblongo-bacillaribus, rectis v. curvatis, hyalinis, 4-guttulatis, 15-16 \times 2 $\frac{1}{2}$.

Hab. in foliis Garryæ ellipticæ, Rochefort Gallia.

57. **Septoria Myricæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 290. 3847

Hypophylla; maculis ferrugineis, 3-6 mm. diam., sæpe interrupte

per totum folium confluentibus, hinc inde subconcentrice notatis; peritheciis subcuticularibus, dein erumpentibus, nigris, conicis, apice late apertis; sporulis bacillaribus, hyalinis, continuis, $8-10 \approx 1\frac{1}{4}$.

Hab. in foliis Myricae, Newfield N. Jersey Amer. bor.

58. **Septoria Pantocsekii** Bäuml. Beitr. zur Crypt. - Flora des Pressb. 3348

Comitatus. 1897, p. 194. — Peritheciis immersis, membranaceis, parenchymaticis, brunneis, 100-120 μ ., ostiolo incrassato ornatis; sporulis hyalinis, rectis v. curvulis, minute guttulatis, utrinque attenuatis, apice plerumque acutatis, $24-32 \approx 2$.

Hab. in foliis Polycnemii arvensis, Pressburg Hungariae.

59. **Septoria Macluræ** P. Brun. Sphaerops. Char. 1889, p. 73. — Ma- 3349

culis amphigenis, intense olivaceis, demum luteolis, subrotundatis v. angulosis v. irregularibus, brunneo-marginatis; peritheciis epivel hypophyllis, sparsis, innatis, brunneo-nigris, globosis; sporulis bacillaribus, rectis vel leniter curvatis, hyalinis, guttulatis, $18-22 \approx 1\frac{1}{2}$.

Hab. in foliis Macluræ aurantiacæ, Saintes Galliæ.

60. **Septoria neglecta** Earle, Bull. Torr. Bot. Cl. 1897, p. 31. — 3350

Maculis irregularibus, determinatis, angulosis, brunneolis, aridis, 1 mm.- 2 cm. diam., vulgo linea obscuriore marginatis; peritheciis epiphyllis v. amphigenis, prominulo-erumpentibus, irregulariter sparsis, 106-120 μ .; sporulis filiformibus, continuis, subtiliter guttatis, $30-40 \approx 1-1\frac{1}{2}$.

Hab. in foliis vivis Quercus Phelli, Alabama Amer. bor.

(UNDERWOOD).

61. **Septoria dubia** Sacc. et Syd. *Septoria quercina* Fautr. Rev. Mycol. 3351

1895, p. 170; *S. quercicola* var. Roum. Rev. Mycol. 1891, p. 80. — Maculis minutis, $1\frac{1}{2}-2$ mm. diam., luteis, rubro-marginatis; peritheciis minutis, sparsis, amphigenis, concoloribus; sporulis diffluentibus, cylindræcis, rotundatis, curvulis, 3-septatis, $40-50 \approx 4$.

Hab. in foliis Quercus pedunculatæ in Gallia.

62. **Septoria Ulmi** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 289. — 3352

Maculis orbicularibus, dilute luteis, $\frac{1}{3}-1$ mm. diam.; peritheciis minutis, in centro macularum collectis; sporulis lunatis, 3-septatis, $20-30 \approx 2$.

Hab. in foliis Ulmi fulvæ in Canada, U. rhombifoliæ in California Amer. bor.

63. **Septoria rhabdocarpa** Ell. et Barth. Erythea 1896, p. 25. — 3353

Maculis nullis; peritheciis amphigenis, sparsis, subcuticularibus, depresso-sphæricis, nigris, $\frac{1}{4}-\frac{1}{3}$ mm. diam., leviter prominulis;

ostiolo indistincto; sporulis bacillaribus, rectis, continuis, hyalinis, subobtusis, $15-20 \approx 2\frac{1}{2}-3$.

Hab. in foliis dejectis Populi moniliferæ, Kansas, Amer. bor. (BARTHOLOMEV).

64. **Septoria Pirottæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. VIII, 1896, p. 7 extr. et Rev. Mycol. 1896, p. 170, t. CLXXIII, fig. 3. — Maculis amphigenis, arescendo expallentibus, rufo-cinctis; peritheciis minutis, paucis, sparsis, epidermide velatis, globosis, pertusis, $\frac{1}{10}-\frac{1}{12}$ mm. diam., contextu pallide fuligineo; sporulis filiformibus, subcylindraceis, curvatis, utrinque obtusiusculis, interdum distincte pluriguttulatis, hyalinis, $24-30 \approx 2-3$.

Hab. in foliis vivis Fici repentis in horto bot. Senensi Italiæ.

65. **Septoria Montemartini** Pollacci, Atti Ist. bot. Pavia 3 ser. V, 1896, p. 15 extr. tab. III, fig. 5 a, 14. — Maculis nullis; peritheciis sparsis, nigricantibus, immersis, globalosis, ostiolo obtuso latiuscule hiantibus, $110 \approx 90 \mu$ diam.; sporulis cylindraceo-vermicularibus, hyalinis, pluriseptatis, ad septa non constrictis, $25-28 \approx 2-2.5$.

Hab. in petioli foliorum Cycadis revolutæ in horto bot. Genuæ Italiæ bor.

66. **Septoria Muscari** P. Brun. Sphærosp. Char. 1889, p. 83. — Maculis viridulis, magnis, irregularibus, interdum brunneo-marginatis; peritheciis sparsis, erumpentibus, globosis, demum depressis, nigris; sporulis filiformibus, rectis vel flexuosis, continuis, hyalinis, $40-60 \approx 1\frac{1}{2}-2$.

Hab. in foliis Muscari comosi, Fouras Galliæ.

67. **Septoria Asphodeli-ramosi** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 124. — Maculis cinereis, superficialibus, longitudinaliter elongatis; peritheciis numerosis, punctiformibus, $60-100 \mu$ latis; sporulis rectis, bacillaribus, hyalinis, $70 \approx 2$, utrinque acutis, nec septatis nec guttulatis.

Hab. in caulibus emortuis Asphodeli ramosi in Tunisia.

68. **Septoria arisaricola** Pat. Bull. Soc. Mycol. de France 1897, p. 213. — Maculis amphigenis, orbicularibus, sparsis v. confluentibus, 2-10 mm. diam., albidis; peritheciis minutis, nigris, immersis globosis, $100-160 \mu$ diam., poro lato pertusis; sporulis hyalinis, filiformibus, rectis v. leniter flexuosis, continuis v. indistincte guttulatis, $30-40 \approx 1$.

Hab. in foliis vivis Arisari vulgaris in Tunisia.

69. **Septoria gallica** Sacc. et Syd. *Septoria Colchici* Fautr. Rev. 3859
Mycol. 1895, p. 169, nec Pass. — Maculis aridis, primo ovalibus elongatis, dein confluentibus, marginem foliorum arefacientibus; peritheciis sparsis v. gregariis, minutissimis, 50 μ ., sub lente nigris, sub microsc. pallidis, innatis; sporulis filiformibus, guttulatis, 38-45 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis Colchici autumnalis in Gallia.

70. **Septoria Listeræ** Allesch. Hedw. 1895, p. 272. — Peritheciis 3860
epiphyllis, laxè gregariis, globosis, glabris, atris, epidermide tectis in maculis orbicularibus v. oblongis, aterrimis; sporulis anguste fusiformibus, curvatis, utrinque acutiusculis, multiguttulatis, hyalinis, ca. 30-45 \times 2-2 $\frac{1}{2}$; basidiis fasciculatis, filiformibus, hyalinis, ca. 25 \times 1 $\frac{1}{2}$.

Hab. in foliis adhuc vivis vel languidis Listeræ ovatæ duobus locis in Bavaria australi (ALLESCHER, SCHNABL).

71. **Septoria posekensis** Sacc. Malpighia 1896, p. 274, tab. VI, fig. 4, 3861
— Maculis inæqualiter orbicularibus, amphigenis, virescenti-olivaceis, centro pallidioribus; peritheciis sæpius epiphyllis, globulosis, 80-100 μ . diam.; sporulis bacillaribus, brevibus, continuis, hyalinis, 15-16 \times 0,7-1, rectiusculis.

Hab. in foliis subvivis Orchidearum in Sibiria.

72. **Septoria sigmoidea** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 289. 3862
— Maculis nullis; peritheciis tectis, sparsis v. subseriatis, 80-100 μ ., inter nervos foliorum dispositis, minutis, nigris, epidermidem leniter elevantibus; sporulis arcuato-fusoideis v. sigmoideis, 3-6-septatis, vulgo ad septa leniter constrictis, 35-52 \times 4 $\frac{1}{2}$ -5 $\frac{1}{2}$ (medio), utrinque angustatis.

Hab. in foliis Panici virgati, Jowa Amer. bor. — *S. epigeios* affinis.

73. **Septoria Passerinii** Sacc. - Syll. III, p. 560. — forma **santonensis** 3863
P. Brun. Bull. Soc. Sc. Nat. de l'ouest de la France 1894, p. 37.
— Sporulis cylindraceutis, hyalinis, utrinque obtusis, septatis vel guttulatis, rectis vel paulum curvulis, 20-22 \times 2.

Hab. in foliis emortuis Hordei murini in Gallia.

74. **Septoria Poæ-trivialis** Coccoeni, Mem. R. Acc. Bologna 1896, 3864
p. 153, fig. 3. — Peritheciis sphæroideis, poro rotundo pertusis, 76-85 μ . diam., in maculis minutis flavidis subcircularibus insidentibus; sporulis longe bacillaribus, hyalinis, pluriguttulatis, 26-29 μ . longis.

Hab. in foliis culmisque Poæ trivialis pr. Bologna Ital. bor. — Socius stat. ascophor. (*Sphærella?*) nondum plane evolutus.

75. **Septoria Asplenii** Ell. et Ev. Proc. Acad. Philad. 1895, p. 434. 3365
 — Maculis sordide albidis, late rubro-brunneo-marginatis, 3-4 mm. diam.; peritheciis paucis, sparsis, minutis, 65-75 μ . diam., pallide brunneis, supra perforatis, leviter prominentibus; sporulis filiformibus, continuis, pluriseptatis, curvulis, subæqualibus, hyalinis v. virescenti-hyalinis, 35-45 \approx 1 $\frac{1}{4}$.

Hab. in foliis *Asplenii angustifolii*, Michigan, Amer. bor. (Hicks).

76. **Septoria Machadoi** Sacc. et Syd. Sic dicenda est *Septoria Phillyreæ* (Mach.) Sacc. in Syll. X, p. 357, quum exstet anterior *S. Phillyreæ* Thüm. in Syll. III, p. 496.

77. **Septoria Aquilegiæ** Penz. et Sacc. Syll. III, p. 525. Huc certe ducenda est *Septoria Aquilegiæ* Ell. et Kell. in Syll. X, p. 360

SEPTORELLA Allesch. Hedw. 1897, p. 241, nec Berk., quæ = *Phleospora* (Etym. a *Septoria* cui affinis). — Peritheciis superficialibus, carbonaceis, opacis, nigris; sporulis anguste fusoides, curvulis, guttulatis, hyalinis; basidiis cæspitosis, brevibus.

1. **Septorella Salaciæ** Allesch. l. c. — Characteribus generis; sporulis 18-22 \approx 1. 3366

Hab. in foliis *Salaciæ* spec. sociâ *Asterinâ Salaciæ* Allesch. pr. Goyaz Brasiliæ (GLAZIOU). — Status spermogon. *Asterinæ Salaciæ* Allesch.

PHLEOSPORA Wallr. — Syll. III, p. 577, X, p. 398, XI, p. 550.

1. **Phleospora Sydowiana** Allesch. Hedw. 1897, p. (163). — Acervulis tuberculatis, magnis, innatis, erumpentibus, amphigenis, plerumque epiphyllis, gregariis v. sparsis, non maculicolis; cirris albidis; sporulis longe obclavatis v. fusiformibus, vermicularibus v. subfalcatis, multiguttulatis v. septulatis, hyalinis, ca. 70-90 \approx 4-5 $\frac{1}{2}$. 3367

Hab. in foliis vivis *Clematidis Viticellæ* pr. Berolinum Germaniæ (SYDOW).

2. **Phleospora californica** Ell. et Ev. Proc. Acad. Philad. 1895, p. 435. 3368
 — Maculis parvis, 2-3 mm. diam., pallidis, indefinitis, dense sparsis; acervulis tectis, epiphyllis; peritheciis nigris, subclypeatis, obsolete; sporulis cylindræis, plerumque rectis, 1-3-septatis, 20-35 \approx 3 $\frac{1}{2}$ -4 $\frac{1}{2}$, hyalinis, non constrictis; cirris albis, filiformibus, amphigenis.

Hab. in foliis *Aceris californici*, Californiæ (BLASDALE). — Peritheciis nigris et cirris albis a *Ph. Aceris* diversa.

3. *Phleospora dolichospora* Sacc. Malpighia 1896, p. 275, tab. VI, 3869
fig. 6. — Maculis subcircularibus, minutis, atro-sanguineis, epiphyllis; peritheciis imperfectis seu nucleis subglobosis, immatis, hypophyllis, pallidis; sporulis bacillaribus, curvulis, prælongis, utrinque obtusulis, obsolete pauci-septatis, 80-96 \times 3, hyalinis; basidiis fasciculatis, brevibus.

Hab. in foliis adhuc vivis *Spirææ* sp. in Sibiria. — A *Septoria Ulmaricæ* differt præcipue sporulis multo longioribus, septulatis, a *S. Salicifoliæ* sporulis minime fusoides, pariter multo longioribus.

4. *Phleospora Myrtacearum* Allesch. Hedw. 1897, p. 242. — Maculis 3870
parvis, amphigenis, fusco-brunneis, dein medio expallescentibus, 3-4 μ . diam., sæpe confluentibus; peritheciis epiphyllis, epidermide velatis, erumpentibus, fusco-nigricantibus; sporulis subfusoides, curvulis v. flexuosis, multiseptatis, apice obtusis, deorsum attenuatis, hyalinis, 30-60 \times 3-5; basidiis non visis.

Hab. in foliis emortuis Myrtaceæ cujusdam pr. Goyaz Brasiliæ (GLAZIOU).

5. *Phleospora Bigeloviæ* Ellis in Contrib. U. S. Nat. Herb. IV, p. 232 3871
(1893). — Peritheciis erumpentibus, gregariis, nigris, irregularibus, supra inæqualiter dehiscentibus et massam sporularum ostendentibus; sporulis cylindrico-vermicularibus, plus minus curvis, 20-28 \times 4-5, hyalinis, granulato-nucleatis; basidiis brevibus.

Hab. in foliis Bigeloviæ spec. Tejon Pass, California. — Characteres peritheciæ potius *Microperæ*.

6. *Phleospora Phyllarthri* F. Tassi, Bull. del Lab. Bot. d. R. Univ. 3872
Siena 1898, fasc. I, p. 13, tab. XI, fig. 5. — Maculis nullis; peritheciis hypophyllis, sparsis v. laxè gregariis, late apertis, epidermidem perforantibus, spuriis, raro contextu proprio formatis; sporulis cylindræco-bacillaribus, initio parum stipitellatis, utrinque obtusiusculis, granulosis, dein plus minusve spurie 3-4-septatis, 46-50 \times 3-4.

Hab. in foliis emortuis Phyllarthri Bojerani in horto bot. Senensi, Italia.

RHARDOSPORA Mont. — Syll. III, p. 578, X, p. 387, XI, p. 548.

1. *Rhabdospora microstema* F. Tassi, Atti R. Acc. dei Fisioc. Siena 3873
4 ser. VIII, 1896, p. 9 extr. et Rev. Mycol. 1896, p. 171 tab. CLXXIII, fig. 5. — Maculis obsolete; peritheciis minutissimis, dense aggregatis, subsuperficialibus, lenticularibus, anguste pertusis, 100-150 μ . diam., contextu fuligineo; sporulis filiformibus, re-

ctis v. leniter curvis, utrinque obtusiusculis, continuis, hyalinis, $13-20 \approx \frac{2}{3}-1$.

Hab. in petiolis emortuis Hepaticæ trilobæ in Italia.

2. **Rhabdospora Falcula** Sacc. Malpighia 1896, p. 275, tab. VI, fig. 5. 3874

— Peritheciis epidermide velatis, punctiformibus, nigris, pertusis, 100 μ . diam., hyphulis cinctis; sporulis fusoido-falcatis, utrinque acuminatis, $24 \approx 4-5$, continuis, hyalinis; basidiis obsoletis.

Hab. in caulibus emortuis Hesperidis in desertis in Sibiria. Potissimum sporulis eximie falcatis dignoscenda species.

3. **Rhabdospora eriosporioides** Vestergr. Bihang K. Svenska V. A. 3875

Haendl. XXII, Afd. III, n. 6, 1896, p. 23. — Peritheciis sub epidermide nigrescente 4-8-connato-aggregatis, subglobosis, 150-225 μ . diam., papillato-prominulis, atris; sporulis numerosissimis, binis in basidio communi 6-10 μ . longo acrogenis, facile deciduis, filiformibus, valde curvulis, $40-70 \approx 1$, continuis vel subinde obsolete pluriguttulatis, hyalinis.

Hab. in ramulis junioribus vivis Berberidis sibiricæ in oppido Visby Sueciæ.

4. **Rhabdospora Helianthemi** Vestergr. Oefv. K. Vet.-Acad. Förh. 3876

1897, n. I, p. 42. — Peritheciis in foliorum pagina superiore sparsis v. 2-3-connatis, non maculicolis, erumpentibus, basi semper innatis, hemisphæricis, demum collapsis, 0,2-0,3 mm. diam., membranaceis, nigris, papilla majuscula coronatis, contextu indistincte parenchymatico; sporulis rectis, tereti-fusoides, utrinque acutatis, $40-60 \approx 2-2\frac{1}{2}$, hyalinis, 7-10-guttulatis, basidiis minutissimis, ad 4 μ . longis fultis.

Hab. in foliis subputrescentibus Helianthemi in horto bot. Upsaliensi, Suecia.

5. **Rhabdospora Hyperici** Vestergr. Oefv. K. Vet.-Acad. Förh. 1897, 3877

n. I, p. 43. — Peritheciis in partibus inferioribus caulium sparsis, epidermide decidua liberis, majusculis, rotundatis, 0,5-0,7 mm. diam. vel sæpe ellipsoideo-subcylindræis, circ. 1 mm. longis, 0,5 mm. latis, apice ostiolo cylindræo subelongato facile deciduo coronatis, subcarbonaceis, atris, textura parenchymatica, laxiuscula, distincta, fusca, cellulis majusculis, ca. 10 μ . diam.; hyphis fuscis, rectiusculis, parce septatis, ca. 4 μ . diam.; sporulis tereti-fusoides, utrinque attenuatis, rectis v. subrectis, continuis v. medio 1-septatis, eguttulatis, hyalinis, $40-55 \approx 1\frac{1}{2}-2$; basidiis non manifestis.

Hab. in caulibus aridis Hyperici perforati in Gotlandia.

6. **Rhabdospora norvegica** Fautr. Rev. Mycol. 1895, p. 169. — Pe- 3878

ritheciis numerosis, orbicularibus v. ovalibus, nigris, tectis, ostiolo perforato emergentibus; sporulis acicularibus, numerosissime guttulatis, 60-70 \times 2.

Hab. in caulibus siccis *Potentillæ norvegicæ* in Gallia.

7. **Rhabdospora Punicæ** Casali, Malpighia 1897, p. 88. — Peritheciis 3879
sparse gregariis, oblongo-fusoidis, immersis, flavescentibus, 100
 \times 50; sporulis bacilliformibus, 3-septatis 3-guttulatisque, 20-25 \times
1 $\frac{1}{2}$ -2; basidiis tenuissimis indistinctis.

Hab. in ramis emortuis *Punicæ Granati* pr. Romam Italiae.

8. **Rhabdospora Onobrychidis** Syd. Hedw. 1897, pag. (163). — Pe- 3880
ritheciis in maculis pallescentibus caulium, numerosis, immersis,
epidermide tectis, dein erumpentibus, punctiformibus, nigris; spo-
rulis filiformibus, valde curvatis vel falcatis, hyalinis, guttulatis,
32-40 \times 1-2.

Hab. in caulibus *Onobrychidis sativæ* pr. Berolinum
Germaniæ.

9. **Rhabdospora Schnabliana** Allesch. Hedw. 1895, p. 273. — Ma- 3881
culis nullis; peritheciis gregariis, epidermide tectis, dein erumpen-
tibus, parenchymaticis, globosis, perforatis, nigris. ca. 50-80 μ .
diam.; sporulis filiformibus, rectis v. leniter flexuosis, utrinque ob-
tusiusculis, obsolete multiguttulatis, hyalinis, ca. 30-50 \times 1-1 $\frac{1}{2}$.

Hab. in foliis caulibusque languidis *Erigerontis alpini*
in Bavaria australi (SCHNABL).

10. **Rhabdospora Hypochæridis** Allesch. Hedw. 1897, p. (163). — 3882
Peritheciis minutis, sparsis v. gregariis, epidermide tectis, dein
erumpentibus, subconicis, atris; sporulis filiformibus, rectis v. le-
niter curvulis, hyalinis, ca. 16-30 \times 0,6-1.

Hab. in caulibus emortuis *Hypochæridis radicatæ* pr.
Berolinum Germaniæ (SYDOW).

11. **Rhabdospora Xylostei** Lamb. et Fautr. Rev. Mycol. 1896, p. 70. 3883
— Peritheciis membranaceis, tectis, parum emergentibus, epider-
midem nigrefacientibus; sporulis hyalinis, simplicibus, cylindræis,
fusoidis, circiter 30 \times 4.

Hab. in ramis vivis *Loniceræ Xylostei* in Gallia.

12. **Rhabdospora Clinopodii** Allesch. Hedw. 1895, p. 273. — Peri- 3884
theciis sparsis, epidermide velatis, mediocribus, lenticularibus, ni-
gris; sporulis acicularibus, flexuosis v. rectis, continuis, guttulatis,
hyalinis, 40-50 \times 1-1 $\frac{1}{2}$.

Hab. in caulibus *Clinopodii vulgaris* in Bavaria australi.

13. **Rhabdospora Bæumleri** Sacc. et Syd. *Rhabdospora Clinopodii* 3885

Bäuml. Beitrag Pressb. Pilze 1896, p. 195, nec Allesch. — Peritheciis tenuibus e cellulis parenchymatiéis fuscis compositis, epidermide fornicata tectis, dein stromate verrucoso erumpente, 200-300 μ . latis, 50-120 μ . altis, stromate 15-30 μ .; sporulis filiformibus, rectis v. curvulis, interdum serpentinis, 20-35 \times 1, hyalinis.

Hab. in caulibus siccis Clinopodii vulgaris pr. Pressburg Hungariæ.

14. **Rhabdospora Galeopsidis** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3836

p. 35. — Peritheciis gregariis sparsisve, epidermide tectis, dein suberumpentibus, globoso-depressis seu lenticularibus, papillatis, contextu parenchymatico, atro-fusco, 80-120 μ . diam.; sporulis acicularibus, multiguttulatis, subrectis vel varie flexuosis, hyalinis, 40-70 \times 1-1 $\frac{1}{2}$; basidiis brevibus.

Hab. in caulibus emortuis Galeopsidis Tetrahit pr. München Baviariæ — var. **maculicola** Allesch. l. c. — Maculis oblongis, sæpe subconfluentibus, nigro-brunneis, dein medio expallescens, brunneo-griseis, margine obscuriore; peritheciis et sporulis ut in forma typica. In caulibus exsiccatis Galeopsidis Tetrahit pr. München Baviariæ.

15. **Rhabdospora Rubiæ** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 125. 3887

— Maculis nullis; peritheciis hypophyllis, sparsis, atris, epidermide tectis, globosis, 300 μ . latis, contextu pallide fuligineo; sporulis bacillaribus, hyalinis, rectis v. curvulis, utrinque attenuatis, plerumque 3-septatis, 50-60 \times 5; basidiis hyalinis.

Hab. in foliis siccis Rubiæ in Tunisia.

16. **Rhabdospora Tabaci** Fautr. Rev. Mycol. 1895, p. 169. — Pe- 3888

ritheciis minutis, $\frac{1}{10}$ mm. diam., gregariis v. sparsis, sphaericis, perforatis; sporulis oblongo-attenuatis, plerumque cylindræis, uniseptatis, 9-13 \times 2.

Hab. in caulibus siccis et decorticatis Nicotianæ Tabaci in Gallia.

17. **Rhabdospora Belladonnæ** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3889

p. 35. — Maculis nullis; peritheciis sparsis, minutis, epidermide velatis, globoso-depressis, pertusis, nigris, 50-70 μ . diam.; sporulis anguste fusoides, utrinque acutiusculis, hyalinis, pluriguttulatis v. septatis, plerumque leniter curvulis, 50-80 \times 1 $\frac{1}{2}$ -2.

Hab. in caulibus emortuis Atropæ Belladonnæ pr. München Baviariæ.

18. **Rhabdospora Gomphocargi** F. Tassi, Atti R. Acc. dei Fisiocr. 3990

Sienna 4 ser. VIII, 1896, p. 8 extr. et Rev. Mycol. 1896, p. 170,

tab. CLXXIII, fig. 4. — Maculis nullis; peritheciis minutis, nigris, numerosissimis, dense sparsis, prominulis, 50-110 μ . diam.; sporulis filiformibus, rectis v. curvulis aut flexuosis, utrinque obtusiusculis, continuis, raro obsolete pluriguttulatis, hyalinis, 12-15 \times 1-2.

Hab. in caulibus exsiccatis Gomphocarpi fruticosi in horto bot. Senensi Italiae.

19. **Rhabdospora putaminis** Sacc. Malpighia XI, 1897, pag. 314. 3891

— Peritheciis subgregariis basi adnata subsuperficialibus, circiter $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., globoso-conicis, papillatis, denique leviter collabentibus, membranaceis, nigris, glabris; sporulis acicularibus, curvulis, utrinque acutulis, 4-5-septatis, non constrictis, hyalinis, 36-42 \times 2-2 $\frac{1}{2}$; basidiis filiformibus, inaequalibus, tortuosis, 10-15 \times 1, fasciculatis.

Hab. in putaminibus Coryli Avellanae, Riva-Valdobbia, Italia bor. (CARESTIA).

20. **Rhabdospora Cerris** Vesterg. Jahreskatalog der Wiener Kryptog. 3892

Tauschanstalt. 1897, p. 4. — Maculis nullis; peritheciis amphigenis, passim congregatis, per epidermidem laciniatim fissam prorumpentibus globosis, 150-200 μ . diam., papillatis, nigris, textura parenchymatica, cellulis magnis; sporulis bacillaribus, rectis 3-septatis, utrinque subobtusis, hyalinis, 30-45 \times 1,5 sterigmatibus obscuris.

Hab. in foliis exaridis pendulis Quercus Cerris in horto botanico Upsaliensi Sueciae. — A *Septorice* speciebus quereigenis maculis deficientibus nec non forma sporularum diversa.

21. **Rhabdospora Berlesii** Sacc. et Syd. Sic dicenda est *Rhabdospora maculans* Sacc. et Berl. in Syll. X, p. 393, quum exstet anterior *Rh. maculans* (B. et C.) Sacc. in Syll. III, p. 584.

22. **Rhabdospora Ellisii** Sacc. et Syd. Sic dicenda est *Rhabdospora Artemisiae* Ell. et Ev. in Syll. XI, p. 549, quum exstet anterior *Rh. Artemisiae* Trail in Syll. X, p. 395.

PHLYCTÆNA Mont. et Desm. — Syll. III, p. 593, X, p. 400, XI, p. 550.

1. **Phlyctæna albocincta** Ell. et Ev. Americ. Natur. 1897, p. 429. 3893

— Peritheciis cortici immersis, annulo albo cinctis, 400-700 μ . diam.; ostiolo brevi, epidermidem perforante; sporulis linearibus, curvulis, apice angustatis curvatisque, 12-15 \times 1-1 $\frac{1}{2}$.

Hab. in ramulis emortuis Rhois radicans pr. Newfield N. J. Amer. bor.

2. **Phlyctæna Jasionis** Bres. Hedw. 1897, p. 381. — Peritheciis 3894
sparsis v. gregariis, hypophyllis, centro nigris, contextu paren-
chymatico, margine cellulis pallidis tenuissimis, oblongatis, confla-
to, obovatis, 85-100 μ .; sporulis oblongatis, 18-24 \times 1-1 $\frac{1}{2}$.

Hab. in foliis exsiccatis *Jasionis montanæ* pr. Kœnigstein Germaniæ. — Species hæc ob perithecia tenuiora, ambitu subin-
completo ad *Phlyctænam vagabundam* accedit, a qua tamen opti-
me distincta.

3. **Phlyctæna maculans** Fautr. Rev. Mycol. 1896, p. 70. — Peritheciis 3895
oblongis, elongatis, nigris, innatis, astomis, matricem nigrifi-
cantibus; sporulis filiformibus, rectis v. curvulis v. uncinatis, sim-
plicibus, 35 \times 1 $\frac{1}{2}$; basidiis fasciculatis, rectis, circiter 12 μ . longis.

Hab. in caulibus *Solani tuberosi* in Gallia.

4. **Phlyctæna Plantaginis** Lamb. et Fautr. Rev. Mycol. 1896, p. 70. 3896
— Peritheciis numerosis, ovalibus, elongatis, sæpe confluentibus,
poro amplo pertusis; sporulis uncinatis, 20 \times 1 (immaturis!).

Hab. in caulibus siccis *Plantaginis lanceolatae* in Gallia.

MICROPERA Lév. — Syll. III, p. 604, X, p. 404, XI, p. 551.

1. **Micropera fusco-mellea** Sacc. sp. n. — Pseudoperitheciis laxe gre- 3897
gariis, innato-erumpentibus, globoso-depressis, 1-1 $\frac{1}{2}$ mm. lat.,
inaequalibus, subcoriaceis, fusco-melleis, pruinosis; contextu et
basi sporigera oehraceo-olivaceis; sporulis filiformibus, utrinque
acutis, curvis, 12 \times 1, hyalinis; basidiis fasciculatis, cylindræis, sim-
plicibus v. ramulosis, hyalinis.

Hab. in ramis corticatis *Persicæ vulgaris*, Côte-d'Or Gal-
liæ (FAUTREY). — Affinis *M. Sorbi* sed nihil habet fusco-violacei.

ERIOSPORA B. et Br. — Syll. III, p. 600.

1. **Eriospora ambiens** Sacc. sp. n. — Stromate innato-applanato, 3898
levi, nigricante, annuli ad instar culmum cingente, intus minute
et obsolete plurilocellato, concolori v. ima basi albicante, loculis
subglobosis, faretis; sporulis bacillaribus, utrinque obtusulis, 20-22 \times 2
lenissime curvis, hyalinis, coacervatis diluté chlorinis, plerumque
ternis in apice basidii brevissimi, mox secedentibus.

Hab. sub nodis culmorum nondum emortuorum *Panicis* sp.,
Paraguay, 1884 (B. BALANSA, n. 4337). — Ab *E. leucostoma* omnino
diversa et a typo generis sporulis a basidio dein secedentibus ali-
quid recedens.

CYTOSPORINA Sacc. — Syll. III, p. 601, X, p. 403.

1. **Cytosporina Cratægi** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 35. 3399

— Stromatibus subentaneis, epidermide tumidula, denique fissa tectis, linea nigra subcirculari cinctis, plurilocularibus; nucleo fusco-griseo; sporulis filiformibus, rectis vel leniter curvulis, utrinque obtusiusculis, continuis, 10-20 \times 1-1 $\frac{1}{2}$, hyalinis; basidiis fasciculatis, verticillato-ramosis, 20-25 \times 1 $\frac{1}{2}$, hyalinis.

Hab. in ramulis emortuis Cratægi *Oxyacanthæ* in Bavaria merid.

2. **Cytosporina brunnea** Sacc. sp. n. — Stromatibus dense gregariis 3900

cortice innatis, dein erumpentibus, pulvinatis, 0,7-1 mm. diam., melleo-brunneis, intus irregulariter pluri-locellatis, farctis; contextu cellulari ochraceo-fusco; sporulis filiformibus, prælongis, 45-55 \times 2,5, arcuatis v. flexuosis, utrinque obtuse attenuatis, pluriguttulatis, hyalinis; basidiis paliformibus irregularibusque, 12-15 \times 2, hyalinis.

Hab. in ramulis corticatis *Persicæ vulgaris*, Côte d'Or Galliæ (FAUTREY). — A *Cytosporina Persicæ* Brun. mox differt quia stromata numquam nigra sed pallide brunnea.

3. **Cytosporina loanensis** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, 3901

p. 15 extr. — Stromatibus nigris, plurilocularibus, ellipsoideis sub epidermide elevata nidulantibus; sporulis filiformibus, curvatis, hyalinis, continuis, 27 \times 1, basidiis fasciculatis suffultis, 20-21 μ . longis.

Hab. in ramis corticatis *Coryli Avellanæ* in Italia boreali.

Fam. 2. **Nectrioidaceæ** Sacc.

ZYTHIA Fr. — Syll. III, p. 614, X, p. 404, XI, p. 552.

1. **Zythia Atriplicis** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 ser. 3902

VIII, 1896, p. 9 extr. et Rev. Mycol. 1896, p. 171, tab. CLXXIII, fig. 6. — Peritheciis sparsis, subsuperficialibus, globulosis, pertusis, 120-150 μ . diam., contextu membranaceo, flavo-melleo, subiculo simplici v. ramuloso albo insidentibus; sporulis ovoideis, hyalinis vel nubuloso-chlorinis; 5-7 \times 4-4 $\frac{1}{2}$; basidiis non visis.

Hab. in utriculo exsiccato *Atriplicis halimoidis*, Melbourne Australiæ.

2. **Zythia maxima** Fautr. Rev. Mycol. 1896, p. 71. — Peritheciis 3903

globulosis, amœne rosaceis, tectis, maculis nigris tectis; sporulis

hyalinis, simplicibus, fusiformibus, acicularibus, 5 v. 6-guttatis, 14-16 \approx 4-4 $\frac{1}{2}$; basidiis simplicibus, 20 μ . longis.

Hab. in foliis Caricis maximæ in Gallia. — Verisimillime nil nisi forma *Neottiosporæ Caricum*, neglectis appendicibus sporularum.

TRELEASIELLA Speg. Rev. Agr. y Veter. La Plata, 1896, p. 241 (Etym. a cl. mycologo et botanico TRELEASE). — Perithecia superficialia, nectrioidea, cæspitosa, globulosa, ostiolo parenchymatico longissimo coronata hyalina. Basidia longiuscula, simplicia, apice catenulas sporularum gerentia. Sporulæ ellipsoideæ, continuæ, hyalinæ. Status sporulifer *Treleasiæ* Speg.

1. **Trelesiella Sacchari** Speg. l. c. p. 242. — Acervulis sparsis minutis, 1-3 mm. diam., convexulis, albo-gossypinulis superficialibus; peritheciis in cæspitulose dense congestis, nucleo minuto parenchymatico hyalino subsclerotiaceo insidentibus, hyphis tenuibus continuis v. septulatis (2-2 $\frac{1}{2}$ v. crass.), ramulis intricatis concoloribus vestitis, globulosis (50-60 μ . alt. \approx 60-50 μ . diam.), ostiolo cylindræo erecto prælongo (250-700 μ . long. \approx 30-50 μ . diam.) apice eximie fimbriato, fimbriis sæpius patulis, coronatis tenuimembranaceis, prosenchymaticis, ex hyphis laxè connexis continuis simplicibus (5-6 μ . crass.) ad ostioli apicem usque excurrentibus efformantibusque constitutis; basidiis e fundo perithecorum fasciculatim exsurgentibus erectis simplicibus hyalinis, 30 \approx 4, apice catenuliferis; sporulis cylindræis, utrinque e rotundato truncatis, longitudine ludentibus, 7-10 \approx 4-5, catenulatis, continuis, levibus, hyalinis, eguttulatis.

Hab. ad folia gemmarum adhuc convoluta sed ægrotantia *Sacchari* officinarum prov. Tucuman, Argentina.

ASCHERSONIA Mont. — Syll. III, p. 619, X, p. 408, XI, p. 552.

1. **Aschersonia badia** Pat. Journ. de Bot. 1897, p. 370. — Stromatibus hypophyllis sparsis, $\frac{1}{2}$ -2 mm. diam., initio hemisphæricis albis, dein supra applanatis brunneis v. rubris, tandem nigrescentibus, basi velo angusto fibrilloso tenui ex albo brunneo folio applicato præditis; peritheciis rotundatis v. ovalibus, distantibus, ostiolis vix prominulis donatis; sporulis hyalinis eseptatis, fusoides, utrinque acutatis, 10-13 \approx 2-3.

Hab. in foliis vivis Dilleniaceæ ejusdam, Tonkin.

2. **Aschersonia marginata** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 3906.

p. 436. — *Stromatibus amphigenis*, carnosis, sessilibus, adnatis, hemisphaericis v. convexis, plerumque anguste marginatis, 2-3 mm. diam., extus subnigris, (in vivo luteis?), intus dilute luteis, contextu sclerotioideo; peritheciis aggregatis, immersis, 4-8-consociatis, minutis, 75-110 μ ., e mutua pressione irregularibus; ostioliis leviter prominentibus, mox perforatis; sporulis fusoidis, 2-3-nucleatis, hyalinis, 5-7 \times 1 $\frac{1}{2}$, utrinque acutis; basidiis gracilibus, sporulas superantibus.

Hab. in foliis vivis *Psidii* spec. in ins. Sandwicensibus (HELLER).

— Affinis *A. tahitensi* et *A. turbinatae*, a quibus differt peritheciis aggregatis et sporulis minoribus.

3. *Aschersonia Goldiana* Sacc. et Ellis sp. n. — Effusa, crustiformis, plano-colliculosa, 2-3 cm. extensa, 1 $\frac{1}{2}$ mm. cr. rubro-testacea, glabra albo-marginata, carnosula, intus albida, minute multilocellata, locellis e globoso sinuosis vix $\frac{1}{4}$ mm. diam., farctis, testaceis; contextu stromatis sinuoso-cellulari, sordide melleo; sporulis anguste fusoidis, rectiusculis, utrinque acutissimis, 13-15 \times 2,5, hyalinis, subinde simulate 1-septatis; basidiis dense fasciculatis, periphericis, bacillaribus, 10-17 \times 1, hyalinis; paraphysibus filiformibus 75-120 \times 1,5 hyalinis, plasmate interrupto simulate pluri-septatis.

Hab. in foliis dejectis *Viticis* sp., Parâ Brasiliæ (Legit Doct. E. A. GOLDI, comm. prof. COCKERELL). Ab affini *A. paraphysata* differt colore, forma, dimensionibus etc. — Teste cl. Ellis in litt. nuperius missa, species hæc nomine *A. pulcherrimæ* Cocker. edita est, diagnosim tamen nullibi vidimus.

4. *Aschersonia chætospora* Sacc. Fl. mycol. Lus., p. 69. — *Stromatibus* hypophyllis, subsolitariis, pulvinatis, carneo-flavidis, intus pallidioribus, 1 mm. diam., carnosio-fragilibus, levibus; contextu sinuoso-celluloso; peritheciis peripherice immersis, globulosis, remotiusculis, pallide fuscellis, poro circulari ampliusculo non emergente apertis; sporulis creberrimis, fusoidis, rectis, continuis, 8 \times 2 μ ., hyalinis, utrinque setula recta, 4 \times 1, autis.

Hab. in foliis nondum emortuis *Sabiceæ ingratae*, S. Thomé (MOLLER).

5. *Aschersonia paraphysata* Sacc. Fl. mycol. Lus. p. 69. — *Stromatibus* hypophyllis, subsolitariis, pulvinatis, superficialibus, levibus, intus et extus fusco-violaceis contextu tortuoso-celluloso; peritheciis globulosis, immersis, in quoque stromate paucis (4-8), ostiolo circulari non exserto pertusis; sporulis fusoidis, utrinque acutis sed non setigeris, continuis, 9 \times 2; rectis, hyalinis, basidiis bacilla-

ribus fultis paraphysibusque filiformibus prælongis, 200-240 \approx 1, hyalinis obvallatis.

Hab. in foliis nondum emortuis Sabiceæ ingratae, S. Thomé (MOLLER) cum *A. chatospora* Sacc.

6. **Aschersonia samoënsis** P. Henn. Engl. Jahrb. XXIII, 1896, p. 289. 3910

— Stromatibus carnosis, pulvinatis, applanatis vel subplacentiformibus, 1-2 mm. diam., flavo-aurantiis, vertice poris apertis obscurioribus; peritheciis immersis, numerosis; sporulis fusiformibus, hyalinis, utrinque acutis, rectis, continuis, 10-14 \approx 1; basidiis filiformibus, basi fasciculatim conjunctis, ca. 1 μ . crassis.

Hab. ad folia Rubiaceæ cujusdam arboreæ in ins. Upolu ins. samoëns. (REINECKE).

7. **Aschersonia carpnicola** E. et D. Proc. of the Canad. Inst. 1897, 3911

p. 93. — Stromate convexo, erumpente, 2 mm. circ. cortice interiore innato, epidermide lacerata laxè cincto, vivo carnosulo, succineo, sicco obscure rufescente, facile deciduo; peritheciis minutis stromate immersis, ostioliis papillatis atris erumpentibus; sporulis ellipticis, hyalinis, 15-20 \approx 6-8; basidiis brevibus.

Hab. in cortice emortuo Carpini americanæ, London et Dorchester, Canada.

8. **Aschersonia Zenkeri** P. Henn. Engl. Jahrb. XXIII, p. 541. — 3912

Stromatibus carnosio-ceraceis, subscutellatis, orbicularibus, depressis, flavis v. aurantiacis, punctato-porosis, margine late byssino-candido, circiter 2 mm. diam.; peritheciis immersis, minutis; sporulis fusiformibus, utrinque acutis, continuis, pluriguttulatis, hyalinis, 9-11 \approx 1.

Hab. in foliis indeterminatis in Camerunia (ZENKER).

9. **Aschersonia Aleyrodis** Webber, U. S. Dep. of Agric. Div. of Veg. 3913

Phys. and Path. 1897, Bull. n. 13, p. 20. — Stromatibus hypophyllis, depresso-hemisphæricis, ochroleucis, coriaceis, 1-1 1/2 mm. diam.; hypothallo mucedineo albido-griseo, membranam tenuem folio dense adhaerentem efformante, circiter 1 mm. diam.; peritheciis membranaceis, primo superficialibus, dein immersis, irregularibus, maturis reniformibus v. orbicularibus, poro minuto rotundo v. elliptico pertasis; basidiis confertis, filiformibus gracilibusque, continuis, 28-40 \approx 0,9-1,5 diam.; paraphysibus numerosis, gracilibus, 65-100 \approx 3/4-1; sporulis fusiformibus, continuis, mucilagineis, hyalinis, interdum obscure 3-4-guttulatis, numerosissimis erumpentibusque, 9-14 \approx 0,9-1,9, massas rufas formantibus.

Hab. in Aleyrode Citri parasitans ad Citrum in Florida Amer. bor.

HYPOCREODENDRON P. Henn. Hedw. 1897, p. 223 (Ety. *Hypocrea* et *dendron* arbor). — Stroma carnosum, truncatum, fruticuloso-ramosum; perithecia stromatis parti superiori disciformi tantum immersa, subglobosa; basidia ramosa; sporulæ bacillares hyalinæ, continuæ. — Status ascophorus ignotus.

1. **Hypocreodendron sanguineum** P. Henn. l. c. — Stromatibus car- 3914
nosis, truncatis, 5 cm. longis, 6 cm. diam., trunco radicato subcylindraceo rugoso, atro-fusco, usque ad 2½ cm. longo, 5-7 mm. crasso, palmato-partito, ramis incrassatis, compressis, usque ad 1½ cm. latis, palmatifidis; ramulis subteretibus v. compressis, 1-2 cm. longis, rufo-brunneis, curvatis, apicæ discoideo, incrassatis, disco patelliformi v. subcupulato, ruguloso, margine undulato-crenato v. lacerato, ½-1 cm. diam.; peritheciis immersis, subglobosis, ca. 90 µ. diam.; basidiis ramosis; sporulis bacillaribus, hyalinis, continuis, utrinque planis, 8-14 ≈ 1.

Hab. ad truncum, ex rimis eius oriens, Sierra Chica de Cordoba Argentiniæ (HIERONYMUS).

Fam. 3. Leptostromaceæ Sacc.

LEPTOTHYRIUM Kze. et Schm. — Syll. III, p. 626, X, p. 412, XI, p. 553.

1. **Leptothyrium parasiticum** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 3915
1897, p. 4, extr. tab. VII, fig. 8,9 a. — Maculis magnis, griseo-ochraceis, in plantis initio vivis, magis magisque diffusis; peritheciis magnis, gregariis, carbonaceis, scutiformibus; basidiis 22,5 µ. longis; sporulis hyalinis, ovoideo-oblongis, biguttulatis, 8-11 ≈ 3-4.

Hab. in caulibus vivis Cerei stellati et C. triangularis in horto bot. Ticinensi Ital. bor.

2. **Leptothyrium Borzianum** F. Tassi, Atti R. Acc. dei Fisiocr. 4 ser. 3916
VIII, 1896 (Microm. III, p. 8) et Rev. Mycol. 1896, p. 171, tab. CLXXIII, fig. 8. — Peritheciis epiphyllis vel raro amphigenis, sparsis, scutiformi-applanatis, atris, superficialibus, nitidis, medio plus minusve collapsis, astomis, 1-3 ≈ 1 mm. diam., contextu fuligineo; sporulis fusoideis, curvulis, 6-7 ≈ 1½-2, nubiosis, hyalinis, basidiis filiformibus, simplicibus v. furcatis fultis.

Hab. in foliis emortuis *Jambosæ vulgaris* in horto bot. Senensi Italiæ.

3. **Leptothyrium minimum** Allesch. Fungi camerun. I, in Engl. Jahrb. 3917

XXII, 1895, p. 81. — Peritheciis plerumque hypophyllis, dense gregariis, minutissimis, rotundis v. oblongis, superficialibus, ca. 30-40 μ . diam., subapplanatis, nigris; sporulis ovoideis oblongisve, hyalinis, unicellularibus, ca. $2\frac{1}{2}$ - $3\frac{1}{2}$ \times $1-1\frac{1}{2}$.

Hab. in foliis ægrotantibus *Coffeæ libericæ*, Kamerun (PREUSS).

4. **Leptothyrium Penzigi** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, 3918 tab. III, p. 15 extr. tab. III, fig. 2 *a, b*. — Peritheciis scutiformibus, carbonaceis, crebre sparsis, contextu distincte radiato; sporulis continuis, hyalinis, ovoideo-oblongis, 9-10 \times 2,25, uni-guttulatis; basidiis longis.

Hab. in petiolis *Chamæropis* in horto bot. Genuæ It. bor.

5. **Leptothyrium Polygonati** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3919 4 ser. VIII, 1896, p. 10 extr. et Rev. Mycol. 1896, p. 171, tab. CLXXIII, fig. 7. — Peritheciis disciformibus, applanato-scutatis, gregariis, superficialibus, nigris, 160-200 μ . diam., contextu distincte celluloso-radiato, fuligineo; sporulis copiosis, teretibus, 4-5 \times $1-1\frac{1}{2}$, rectis aut vix curvulis, continuis, interdum obsolete guttulatis, hyalino-viridulis.

Hab. in foliis emortuis *Convallariæ Polygonati* in Italia.

6. **Leptothyrium cylindricum** Atk. Bull. Cornell Univ. III, n. 1, 1897, 3920 p. 34. — Maculis late ellipticis, griseo-albis, dilute brunneo-marginatis; peritheciis amphigenis, dimidiatis, nigris, astomis, poro vel rima varia dehiscentibus, in longitudine radiatis, 300-400 μ . diam., depressis; sporulis cylindræis, utrinque abrupte attenuatis, hyalinis, rectis v. leniter curvulis, 18-25 \times $3\frac{1}{2}$ -4.

Hab. in foliis *Arundinariæ tectæ*, Auburn, Alabama Amer. bor.

7. **Leptothyrium carpnicolum** Sacc. et Syd. Sic nominandum est *Leptothyrium Carpini* Roum. et Fautr. Syll. XI, p. 554, quum exstet anterius *L. Carpini* Brun. Syll. X, p. 412.

PIGGOTIA B. et Br. — Syll. III, p. 636, X, p. 417.

1. **Piggotia Negundinis** E. et D. Proc. of the Canad. Inst. 1897, 3921 p. 93. — Peritheciis minutis subglobosis v. ellipticis, 50-70 μ . diam., in soros punctiformes applanatos sparsos, hypophyllos conatis, atris, initio epidermide tectis, mox liberis; sporulis oblongis, continuis, hyalinis, 2,5-3 \times 1.

Hab. in foliis vivis *Aceris Negundinis*, London, Canada. — A *P. Fraxini* sporulis minoribus dignoscitur.

MELASMIA Lév. — Syll. III, p. 637, X, p. 419, XI, p. 555.

1. **Melasmia Sapindacearum** P. Henn. Hedw. 1897, p. 243. — 3922
Stromatibus epiphyllis in maculis flavis, suborbicularibus acutangulis, planis, crustaceo-carbonaceis, atris, subnitentibus; sporulis fusiformibus v. botuliformibus, curvulis, utrinque acutis, continuis, hyalinis. 11-14 \approx $\frac{1}{2}$.

Hab. in foliis Sapindaceae cujusdam in Mexico (KERBER).

2. **Melasmia Myrtacearum** P. Henn. Hedw. 1897, p. 242. — 3923
Stromatibus in maculis fuscis, suborbicularibus, explanatis, planis, crustaceo-carbonaceis, atris, opacis, $\frac{1}{2}$ -1 cm. diam.; sporulis botuliformibus curvulis, utrinque acutiusculis, continuis, hyalinis, 28-35 \approx 1.

Hab. in foliis vivis Myrtacearum variarum pr. Goyaz Brasiliae (GLAZIOU).

3. **Melasmia Quercuum** Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 34. 3924
— Stromatibus nigris, orbicularibus, tenuibus, crustaceis, 2-3 mm. diam.; peritheciis rima dehiscentibus; sporulis hyalinis v. olivaceis, late fusoideis, curvulis, 20-30 \approx 7-8.

Hab. in foliis vivis Quercus Phelli, Auburn, Alabama Amer. bor. — Probabiliter status stylosporus *Rhytismatis tosti*.

4. **Melasmia Setariae** Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 34. 3925
— Maculis epiphyllis, elliptico-oblongis, minutis, confluentibus v. dense sparsis ac magnam foliorum partem occupantibus; peritheciis tectis, e cellulis atro-brunneis angulosis, 3-4 μ . diam. compositis, stromate cavitatem cellularum epidermidis replente; sporulis oblongo-ellipticis, utrinque rotundatis, hyalinis, 12-14 \approx 2 $\frac{1}{2}$ -3; basidiis brevibus, coloratis.

Hab. in foliis vivis Setariae glaucae, Auburn, Alabama Amer. bor.

5. **Melasmia imitans** Peck, Bull. Torr. Bot. Club. 1895, p. 209. — 3926
Peritheciis hypophyllis, membranaceis, variae formae et magnitudinis, plerumque subellipticis v. oblongis, ad nervos subconfluentibus, rugosulis, nigris, irregulariter apertis; sporulis subcylindraceis, rectis v. subrectis, hyalinis, interdum obscure plurinucleatis, 21-31 $\frac{1}{2}$ \approx 4-5 $\frac{1}{4}$.

Hab. in foliis vivis Pteridis aquilinæ, California (HOWE). — Aspectu externo *Phyllachoram Pteridis* in mentem revocat.

LEPTOSTROMA Fr. — Syll. III; p. 639, X, p. 420, XI, p. 555.

1. **Leptostroma Eupatorii** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3927
p. 36. — Peritheciis dense gregariis, saepe confluentibus, circula-

ribus, oblongis, rarius lanceolatis, convexulis vel applanatis, initio epidermide velatis, rima obsolete notatis, sæpe series irregulares efformantibus, nigro-fuscis, nitentibus, magnitudine valde varia; sporulis oblongis cylindræisve, rectis v. vix curvulis, utrinque obtusis, ut plurimum biguttulatis, hyalinis, 4-8 \times 1-2; basidiis fasciculatis, brevibus, hyalinis.

Hab. in caulibus emortuis *Eupatorii cannabini*, socio *Asteromate eupatoriicola* Allesch. pr. München Baviariæ.

2. **Leptostroma Lycopi** Allesch. Hedw. 1896, p. (33). — Peritheciis 3928 gregariis v. sparsis sæpe confluentibus irregularibusque, plerumque oblongis, applanatis, striatis, nitidulis, nigris; sporulis oblongis sæpe cylindræo-fusoideis, rectis curvulisve, unicellularibus, hyalinis, 5-7 \times 1 $\frac{1}{2}$ -2.

Hab. in caulibus siccis *Lycopi europæi* pr. Berlinum Germaniæ (SYDOW). — An huc pertinet *Leptothyrium Lycopi* Rich.?

3. **Leptostroma Vestitæ** Seym. et Patters. Bot. Gaz. XXII, 1896, 3929 p. 423, Pringle's Mexican Fungi n. 10. — Amphigenum, plerumque epiphyllum; stromatibus numerosis, nidulantibus, leviter depressis, orbicularibus v. oblongis, $\frac{1}{2}$ -1 (raro usque ad 2 $\frac{1}{2}$ mm.), partem maximam paginæ superioris occupantibus, distinctis v. sæpe confluentibus, olivaceis, margine angusto, nigro; conceptaculis 2-5 in quoque stromate; sporulis hyalinis, linearibus, multiguttulatis, guttulis sæpe elongatis, 30-85 \times 4.

Hab. in foliis *Agaves vestitæ*, Guadalajara, Mexico (PRINGLE).

4. **Leptostroma aquilinum** C. Mass. sp. n. in litt. — Peritheciis mi- 3930 nutis, nigris, crebre parallele seriatis, sæpe confluentibus, dimidiatis, subhysterioideo-elongatis, primum epidermide velatis dein erumpentibus, subcarinato-prominulis, rima plus minus manifesta notatis; sporulis elliptico-oblongis, chlorino-hyalinis, vulgo 2-guttulatis, 5-8 \times 2-3,5; basidiis bacillaribus 7-14 \times 2.

Hab. in stipitibus siccis *Pteridis aquilinæ* in horto bot. Ferrara. — A *L. Pteridis* et *L. filicino*, æque pteridophilis et quorum sporulæ hucusque iguotæ sunt, perithecio nec granuloso nec carinato præ ceteris differt.

LABRELLA Fr. — Syll. III, p. 647, X, p. 421, XI, p. 556.

1. **Labrella Xylostei** Fautr. Rev. Mycol. 1895, p. 168, tab. CLVII, 3931 fig. 2. — Maculis numerosis, aridis, orbiculo nigro circumdati; peritheciis subsuperficialibus, ad marginem macularum orbiculatim

dispositis, in longitudine striatis, 1 vel 2 rimis dehiscentibus; sporulis granulosis, curvulis, obtusis, angustatis, grossis, 25-30 \times 10-12.

Hab. in foliis *Lonicerae Xylostei* in Gallia « Verisimiliter *Leptothyrium Periclymeni* (Desm.) Sacc. Syll. III, p. 626 ».

2. **Labrella infuscans** Ell. et Barth. *Erythea* 1896, p. 27. — Peritheciis subellipticis, minutis, $\frac{1}{4}$ mm. longis, applanatis, supra tenuissimis, rima elongata dehiscentibus, nigris, siccis plus minus collapsis, involutis (ut in *Hysterio*), contextu celluloso sub microsc. viridi-tincto; sporulis breve ellipticis v. subglobois, hyalinis, non nucleatis. 3932

Hab. ad lignum pineum, Kansas, Amer. bor. (BARTHOLOMEW).

SACIDIUM Nees — Syll. III, p. 649, X, p. 422.

1. **Sacidium Vitis** Ell. et Ev. *Field Columb. Mus.* IX, 1896, p. 121. 3933
— Peritheciis sparsis, scutellatis, non perforatis, 180-220 μ . diam.; sporulis oblongo-cylindræis, erectis v. curvulis; 15-20 \times 4-5, guttulat.

Hab. in *Vite cordifolia* in W. Virginia Amer. bor. (NUTTALL).

PIROSTOMA Fr. — Syll. III, p. 653.

1. **Pirostoma coniothyrioides** Sacc. *Bull. Soc. Myc. de Fr.* 1896, 3934
p. 70. tab. VI, fig. 7. — Sparsum punctiforme nigrum; peritheciis superficialibus dimidiatis, radiatim contextis, minute pertusis, 100-150 μ . diam.; sporulis ovato-ellipsoideis, fuligineo-olivaceis, 8-6 \times 3, subsessilibus, h. e. basidiis brevissimis fultis.

Hab. in foliis *Scirporum*, Chioggia, Italia superior.

2. **Pirostoma Farnetianum** Pollacci, *Atti Ist. bot. Pavia* 2 ser. V, 3935
1897, p. 5 extr. tab. VII, fig. 11, 15, 16, 17. — Peritheciis scutiformi-oblongis, gregariis, nigris, 1- vel 2-ocularibus; basidiis hyalinis, densis; sporulis numerosis, ellipsoideo-oblongis, 7-9 \times 2,5-4, fuliginis.

Hab. in foliis vivis *Pandani utilis* in horto bot. Ticinensi Ital. bor.

DISCOSIA Lib. — Syll. III, p. 653, X, p. 426, XI, p. 557.

1. **Discosia Artocreas** (Tode) Fr. — Sacc. Syll. III, p. 653. — var. **si-** 3936
birica Sacc. *Malpighia* 1896, p. 275, tab. VI, fig. 3. — Peritheciis oblongis, dein umbilicatis; sporulis 15 \times 3, olivaceis, 3-septatis; setulis 12-15 \times 0,5.

Hab. in caulibus emortuis *Geranii* sp. in Sibiria.

LABRIDIDIUM Vestergr. Oefv. K. Vet.-Acad. Förh. 1897, n. I, p. 43 (Etym. *labrum*, ob peritheciorum formam). — Perithecia dimidiata, hysterioideo-rimosa, demum hiantia, membranaceo-carbonacea, nigra. Sporulæ pluriseptatæ, coloratæ (brunneæ), utrinque 1-ciliatæ, basidiis filiformibus fultæ. — Sistit *Leptostromacearum* novam sectionem «phæophragmiarum». A *Discosia* differt peritheciorum forma, sporulis coloratis. Ob perithecia demum latiuscule hiantia ad *Excipulaceas* videtur paullulum vergere.

1. **Labridium hians** Vestergr. l. c. — Peritheciis in caulibus dealbatis 3937 sparsis, plus minusve elongatis, ellipsoideo-oblongis v. fusoideis, hysterioideis, rima longitudinali, initio angustissima, demum plus minus latiuscule aperta, dimidiatis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. longis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. latis, membranaceo-carbonaceis, nigris, textura solidiuscula, sed non manifeste parenchymatica, subimpellucida, atrofusca, cellulis rotundatis, minutis, ca. 3 μ . diam.; sporulis oblongis, inæquilateralibus v. subcurvulis, 3-septatis, ad septa typice constrictis, ex hyalino castaneo-brunneis, utrinque sub apicè cilio hyalino, ad 9 μ . longo præditis, 11-14 \times 4-5 (sine ciliis), loculis ultimis pallidiusculis, rotundatis, minoribus; basidiis simplicibus, longitudine varia (ad 20 μ .), hyalinis, continuis.

Hab. in caulibus exsiccatis *Potentillæ reptantis* in Gotlandia.

MELOPHIA Sacc. — Syll. III, p. 658, X, p. 428, XI, p. 557.

1. **Melophia glandicola** Vestergr. Oefv. K. Vet. Acad. Förh. 1897, 3938 n. I, p. 44. — Peritheciis non maculicolis, dense sparsis, interdum plus minusve connatis, subcircularibus, scutiformibus, convexis, basi applanatis, varia magnitudine, $\frac{1}{3}$ -1 mm. diam., carbonaceis, astomis, textura non parenchymatica (?), opaca, impellucida; sporulis filiformibus, utrinque obtusiusculis, 35-50 \times 1 $\frac{1}{2}$ -2 $\frac{1}{2}$, continuis, hyalinis, 2-3 in basidio communi, minutissimo, 3 μ . longo confertis, facile secedentibus.

Hab. in glandibus *Quercus* in Gotlandia.

2. **Melophia costaricensis** Speg. Rev. Agr. y Veter. La Plata 1896, 3939 p. 346. — Maculis nullis; stromatibus amphigenis, sæpius suborbicularibus, 3-10 mm. diam., ambitu repandulis, ad epiphyllum planis subnitidulis, ad hypophyllum convexulis opacis atque subpapulosis, extus intusque atris subcarbonaceis duris, loculis internis minimis, 100-120 μ . diam., fusco-farctis; sporulis filiformibus, utrinque atte-

nnato-acutatis, $20 \approx 1$, continuis, hyalinis, arcuatis v. abrupte geniculato-inflexis.

Hab. ad folia viva coriacea Fici ejusdam, Costa-Rica.

LEPTOSTROMELLA Sacc. — Syll. III, p. 659, X, p. 430, XI, p. 558.

Subgen. **Vestergrenia** Sacc. et Syd.

Basidia crassiuscula, apice umbellato-ramosa.

1. **Leptostromella umbellata** Vestergr. Oefv. K. Vet.-Acad. Förh. 3940
1897, n. I, p. 44. — Peritheciis in longitudinem ramulorum decorticatorum secus fibrillas ligni seriatis v. sparsis, superficialibus, sed basi innatis, elongatis, tereti-fusoideis, hysteroideo-dimidiatis, rima longitudinali distinctissima exaratis, 1-3 mm. longis, 0,3-0,5 mm. latis, carbonaceis, nigris, textura fusca, parenchymatica; sporulis filiformibus, valde arcuatis, $17-25 \approx 1$, continuis, eguttulatis, hyalinis; basidiis sporulis similibus, sed rectis, 20-30 μ . longis, 6-8 basi connatis, ex basidio primario communi, crasso, $7 \approx 3$ oriundis.

Hab. in ramulis decorticatis Populi tremulæ in Gotlandia. — Species egregia, ob basidia deorsum crassa, continua, sursum umbelliformiter ramosa forte novi generis typus.

CRANDALLIA Ell. et Sacc. Bull. Torr. Bot. Cl. 1897, p. 466 (Etym. a cl. collectore C. S. CRANDALL). — Perithecia scutellata, carbonaceo-membranacea, contextu subhomogeneo; celluloso-radiato, centro ostiolo minuto rotundo pertusa; sporulæ bacillares, catenulatæ.

1. **Crandallia juncicola** Ell. et Sacc. l. c. — Peritheciis 400-500 μ . 3941
diam., siccis rugosis, ostiolo circiter 5 μ . diam.; sporulis cylindraceis, continuis, hyalinis, $8-10 \approx 1\frac{1}{2}-2$, initio concatenatis, mox secedentibus.

Hab. in calamis mortuis Junci Drummondii. Colorado Amer. bor. (CRANDALL). — Videtur spermogonium *Duplicariæ acuminatæ*.

CHÆTOPELTIS Sacc. Bull. del Lab. Bot. d. R. Univ. Siena 1898, fasc. I, p. 14 (Etym. *chæte* setula et *pelta*). — Perithecia dimidiata, membranacea, secedentia, minute cellulosa, astoma, orbicularia, atra, demum diffracta, setulis rigidulis, septatis, nigrescentibus vestita. Sporulæ bacillares, sessiles, pluriseptatæ, hyalinæ,

in articulos facile secedentes. — Est fere *Leptothyrium* setulosum scolecosporum.

1. **Chætopeltis laurina** (Tassi) Sacc. l. c. tab. XI, fig. 6. *Volutellaria laurina* F. Tassi, Atti d. R. Acad. dei Fisiocr. Siena 4 ser. vol. VIII, 1897, p. 5, fig. 6. — Peritheciis hypophyllis, superficialibus, hemisphærico-disciformibus, subinde applanatis, sessilibus, pulvinulatis, nigro-cinereis, $\frac{2}{3}$ -1 mm. diam., margine setulis erectis v. subpatentibus, 200-250 μ . longis, 3-5-septulatis, sursum attenuatis nec torulosis, nigrescentibus præditis; sporulis 45-52 \times 2, hyalinis, 4-6-septatis, in articulos facile secedentibus, basi stipitiformi-tenuatis.

Hab. in foliis putrescentibus Lauri nobilis in horto bot. Senensi, Italia.

Fam. 3. Excipalaceæ Sacc

GODRONIELLA Karst. — Syll. III, p. 665.

1. **Godroniella Linnææ** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 1895, III, n. 5, p. 22. — Peritheciis sparsis, fere plane superficialibus, primo clausis, globosis vel ovoideis, deinde ore lacerato, orbiculari apertis, textura fere omnino oblita; sporulis bacillaribus cylindræis, utrinque obtusis, verticillatim acro- vel pleurogenis, hyalinis, continuis vel medio spurie uniseptatis, 8-12 \times 1 $\frac{1}{2}$; basidiis filiformibus, ramosissimis, sæpe fasciculatim conjunctis. Filamenta excipuli latiora quam apud formam ascigeram.

Hab. in caulibus Linnææ borealis pr. Dröbak Norvegiæ.

EXCIPULA Fr. — Syll. III, p. 665; X, p. 432, XI, p. 558.

1. **Excipula ilicicola** Allesch. Hedw. 1897, p. 242. — Maculis parvis, amphigenis, subcircularibus in pagina superiore folii exaridis albescensibus, linea elata marginatis, in pagina inferiore folii pallidis, ca. 4-6 mm. diam., sæpe confluentibus; peritheciis amphigenis, præcipue hypophyllis, dense cæspitosis, rugulosis, nigris; sporulis cylindræis, rectis, continuis, hyalinis, magnitudine valde varia, ca. 5-10 \times 1.

Hab. in foliis adhuc vivis Ilicis spec. pr. Goyaz Brasiliæ (GLAZIOU).

HETEROPATELLA Fuck. — Syll. III, p. 670.

1. **Heteropatella hendersonioides** Fautr. et Lamb. Rev. Mycol. 1896, 3945

p. 143. — Acervulis subcutaneis. minutissimis; sporulis curvatis, hyalinis, biseptatis, apice seta obliqua, basi tribus setis divergentibus vestitis, 20-25 \approx 3-4.

Hab. in caulibus siccis *Bupleuri falcati* in Gallia.

DOTHICHIZA Lib. — Syll. III, p. 671, X. p. 432, XI, p. 559.

1. **Dothichiza serotina** Atk. Bull. Cornell Univ. III, n. 1, 1897, 3946
p. 33. — Peritheciis in areis magnis dimidium foliorum occupantibus insidentibus, hypophyllis nigris, erumpentibus, 50-80 μ . diam., tandem late apertis, margine plus minusve recurvato; sporulis cylindraceutis, continuis, hyalinis, 10-14 \approx 1 $\frac{1}{2}$ -2 $\frac{1}{4}$.

Hab. in foliis *Pruni serotinæ*, Auburn, Alabama Amer. bor.

SPORONEMA Desm. — Syll. III, p. 677, X, p. 434.

1. **Sporonema Camelliæ** Earle, Bull. Torr. Bot. Cl. 1897, p. 32. — 3947
Epiphyllum; maculis magnis, albis, brunneo-marginatis, 2-5 cm. diam.; peritheciis dense sparsis, innatis, epidermidem elevantibus, orbicularibus v. subelongatis, plerumque rima dehiscentibus, interdum stellatim laciniatis, demum discoideis, circiter 200 μ . diam.; sporulis cylindraceutis, utrinque obtuse rotundatis, interdum curvatis, vulgo biguttatis, 12-18 \approx 4-5; basidiis brevibus crassisque, sporulam subæquantibus, vulgo simplicibus.

Hab. in foliis vivis *Camelliæ japonicæ* pr. Auburn, Alabama Amer. bor.

2. **Sporonema Ilicis** Earle, Bull. Torr. Bot. Cl. 1897, p. 32. — Epi- 3948
phyllum; maculis magnis, albescentibus, emortuis; peritheciis sæpe subconcentrice dispositis v. dense sparsis, magnis, brunneis, membranaceis, epidermide innatis, plerumque subelongatis, epidermidem elevantibus eamque longitudinaliter v. stellatim fudentibus; sporulis continuis, ellipticis, hyalinis, basidiis brevibus simplicibus hyalinis suffultis, 12-15 \approx 4-6.

Hab. in foliis languidis *Ilicis opacæ* pr. Auburn, Alabama Amer. bor. (UNDERWOOD).

3. **Sporonema strobilinum** Desm. — Sacc. Syll. III, p. 678. — ***Sp. ramu-** 3949
lorum Vestegr. Oefv. K. Vet.-Acad. Förh. 1897, n. I, p. 45. — Peritheciis per rimam longitudinalem corticis prorumpentibus, initio clausis, astomis, sphæroideis, rugosiusculis, 0,5-0,7 mm. diam., mox valvulis 4-5 plus minus distinctis late patellariformiter apertis, 1-1 $\frac{1}{3}$ mm. diam., coriaceis, nigris, textura grosse parenchymatica, olivaceo-fuliginea, cellulis 9-13 μ . diam.; hyphis fuliginis,

parce septatis; sporulis fusoides, utrinque rotundatis, 11-16 \times 3-5, continuis, eguttulatis, hyalinis; basidiis obscuris.

Hab. in ramulis emortuis Pini silvestris in regione Upsaliensi Sueciæ — var. **microsporum** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 40. — Peritheciis erumpentibus, dein superficialibus, rugosis, sæpe confluentibus, astomis, denique in lacinas plures inæquales dehiscentibus, nigris; sporulis numerosis, ovoideis v. oblongis, utrinque obtusis rotundatisve, eguttulatis, hyalinis, 5-8 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$; basidiis non visis. — In squamis strobilorum Abietis excelsæ, Franconia super. (ROHNFELDER).

AMEROSPORIUM Speg. — Syll. III, p. 680, X, p. 436, XI, p. 559.

1. **Amerosporium cinctum** Ell. et Ev. Proc. Acad. Philad. 1895, p. 435. 3950

— Peritheciis superficialibus, applanatis, 100-150 μ . diam., membranaceis, contextu celluloso, supra late apertis, basi pilis rigidis, fumoso-hyalinis, continuis, simplicibus v. parce ramosis, 80-120 \times 3 metientibus; sporulis breve ellipticis, fumoso-hyalinis, obtusis, 3 $\frac{1}{2}$ -5 \times 2-2 $\frac{1}{2}$.

Hab. in caulibus emortuis Gladioli, California (Mc CLATCHIE).

DINEMASPORIUM Lév. — Syll. III, p. 683, X, p. 438, XI, p. 560.

1. **Dinemasporium Lippiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 3951

4 ser. VIII, 1896 (Microm. III, p. 8) et Rev. Mycol. 1896, p. 171, tab. CLXXIII, fig. 9. — Peritheciis dense sparsis, superficialibus, pezizoideis, collabascendo depressis, atris, $\frac{1}{2}$ - $\frac{1}{3}$ mm. diam., pilis simplicibus, nigris, 150-200 \times 3-4 hirtis; sporulis elongatis, subcurvatis, 8-10 \times 2-3, eguttulatis v. raro nubiosis, hyalinis, utrinque setula filiformi 2-4 μ . obliqua auctis, basidiis filiformibus primitus fultis.

Hab. in ramis decorticatis Lippiæ citriodoræ in horto bot. Senensi Italiæ.

2. **Dinemasporium graminum** Lév. — Sacc. Syll. III, p. 683. — forma 3952

Bambusæ Roll. Bull. Soc. Myc. de Fr. 1896, p. 8, tab. II, fig. 9. — Peritheciis membranaceis, atris, siccis rotundis, udis ore amplo apertis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. latis, setulis rigidis, acutis, continuis, aterrimis, 120-200 \times 5 ornatis; sporulis allantoideis, hyalinis, 10 \times 2, utrinque arista obliqua sporulam æquante auctis, extremis aliquando 1-guttatis.

Hab. in foliis emortuis Bambusæ, Golfe Juan Galliæ.

DISCELLA B. et Br. — Syll. III, p. 687, X, p. 440, XI, p. 560.

1. **Discella Rosæ** Lamb. et Fautr. Rev. Mycol. 1896, p. 143. — 3953

Peritheciis sæpe seriatim dispositis, fibras v. rimas matricis sequentibus, membranaceis, ovalibus, elongatis, initio clausis dein late cupuliformibus, margine nigro, centro pallidiore; sporulis numerosis oblongis, cylindraceis, irregularibus, utrinque rotundatis hyalinis, uniseptatis, leniter constrictis, 10-13 \times 3-4.

Hab. in sarmentis siccis Rosæ caninæ in Gallia.

EXCIPULINA Sacc. — Syll. III, p. 688, X, p. 441, XI, p. 560.

1. **Excipulina obscura** Peck, Bull. Torr. Bot. Club. 1895, p. 209. — 3954

Peritheciis cupulatis, $\frac{1}{2}$ -1 mm. latis, sessilibus, nigris, margine primo incurvo, dein erecto, tenui; hymenio subgelatinoso; sporulis subfiliformibus, curvulis, plurinucleatis v. obscure pluriseptatis, hyalinis, 31-47 \times 4.

Hab. in cortice Tsugæ canadensis, Newfoundland, Amer. bor. (WAGHORNE).

SCHIZOTHYRELLA Thüm. — Syll. III, p. 690, X, p. 444.

1. **Schizothyrella Fraxini** Ell. et Ev. Bull. Torr. Bot. Cl. 1897

p. 465. — Peritheciis epiphyllis, innato-erumpentibus, membranaceis, orbicularibus, 300-550 μ . diam., diu clausis, demum laciniatim dehiscentibus, convexis, siccis collabentibus, disco sordide aurantiaco; sporulis cylindraceis, 80-100 \times 3, demum in articulos 11-13 \times 3 metientes utrinque truncatos secedentibus, hyalinis.

Hab. in foliis dejectis Fraxini viridis, Kansas Amer. bor. (BARTHOLOMEW).

2. **Schizothyrella borealis** Ell. et Sacc. Americ. Natur. 1897, p. 429. 3956

— Peritheciis superficialibus, sparsis v. subseriatis, orbicularibus v. ellipticis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., ovato-globosis, primo ostiolo papilliformi, mox late apertis et cupulatis, glabris, nigris; sporulis cylindraceis, hyalinis, interdum dichotomis, in articulos secedentibus, 6-15 \times 1 $\frac{1}{2}$ -2, 1-3-septatis.

Hab. in ligno sicco decorticato (betulino?), New York Amer. bor.

3. **Schizothyrella hysterioides** Atk. Bull. Cornell Univ. III, n. 1, 3957

1897, p. 33. — Peritheciis immersis, dein erumpentibus, 1-2 mm. diam., membranaceis, siccis subcollabentibus, brunneis, obconicis, epidermide longitudinaliter fissa lateraliter compressis, siccis margine incurvato, tandem irregulariter fisso, disco pallido; sporulis

filiformibus, septatis, curvatis v. flexuosis, hyalinis, 80-120 \times 2, demum in articulos longitudine varios 1-3-septatos secedentibus.

Hab. in culmis *Chrysopogonis nutantis*, Auburn, Alabama Amer. bor.

EPHELIS Fr. — Syll. III, p. 691, X, p. 444.

1. **Ephelis pallida** Pat. Journ. de Bot. 1897, p. 372. — Stromate ex 3958
albido griseolo, spicas deformante; cupulis superficialibus, extus albidis, intus griseis v. nigrescentibus, minutissimis, sparsis, sessilibus, orbicularibus v. sinuosis, interdum confluentibus; basidiis erectis linearibus, fuliginosis, 100 μ . circiter longis; sporulis linearibus, hyalinis, rectis curvulisve, utrinque acutatis, 13-18 \times 1.

Hab. in inflorescentiis *Andropogonis acicularis*, Tonkin.

PSEUDOCENANGIUM Karst. — Syll. X, p. 445.

1. **Pseudocenangium Hartigianum** Allesch. Ber. Bayr. Bot. Ges. IV, 3959
1896, p. 36. — Peritheciis sparsis, erumpenti-superficialibus, globoso-depressis, in statu sicco subcupuliformibus, membranaceis, atro-olivaceis, primum clausis, dein late apertis, margine oris lobato, 100-150 μ . diam.; sporulis numerosis, filiformibus, rectis, utrinque obtusiusculis, minute multiguttulatis, hyalinis, 40-60 μ .; basidiis nullis.

Hab. in acubus putrescentibus *Laricis europææ* pr. Freising Bavaricæ (R. HARTIG).

MELANCONIACEÆ Berk. em. Sacc.

Syll. III, p. 696, X, p. 446, XI, p. 562.

Sect. 1. Hyalospora.

HAINESIA Ell. et Sacc. — Syll. III, p. 698, X, p. 446, XI, p. 562.

1. **Hainesia Epilobii** Eliasson, Fungi Upsalienses in Bih. K. Sv. Vet.-
Akad. Handl. Bd. XXII, Afd. III, N. 12, 1897, p. 16. — Acer-
vulis amphigenis, sparsis, superficialibus, orbicularibus, subgelati-
nosis, depresso-hemisphæricis, aurantiacis, ad 350 μ . diam, margine
atro lineari cinctis; conidiis 6-9 \times 1,5, suballantoideis, leviter cur-
vatis, continuis, hyalinis: basidiis filiformibus, copiose ramosis,
fasciculatis, 1 μ . crassis, usque ad 115 μ . longis.

Hab. in foliis languescentibus *Epilobii angustifolii* in
silva regia Asen in Suecia.

GLÆOSPORIUM Desm. et Mont. — Syll. III, p. 699, X, p. 446,
XI, p. 562.

1. **Glæosporium Nymphæarum** Allesch. Hedw. 1895, p. 276. — Ma-
culis amphigenis, subcircularibus v. irregularibus, sæpe confluen-
tibus, primum subrubicundis, dein brunneo-griseis v. nigris, de-
nique in centro expallentibus; acervulis epidermide tectis, minutis,
erumpentibus; conidiis oblongis v. cylindraceutis, etiam clavatis v.
subpiriformibus, utrinque rotundatis, nubiosis vel eguttulatis, con-
tinuis, hyalinis, magnitudine varia, usque ad 20 μ . longis, 4-6 μ .
crassis.

Hab. in foliis subviviis vel languidis *Nymphææ albæ*, fla-
væ, odoratæ et *Nupharis lutei* in horto botan. Monacensi.
— Sec. Allescher huc pertinet *Ramularia Nymphææ* Bresad.
Syll. XI, p. 601.

2. **Glæosporium orthosporum** Sacc. Malpighia XI, 1897, pag. 318. 3962
— Maculis albicantibus vagis; acervulis subcutaneis, amphigenis,
gregariis, disciformibus, $\frac{1}{6}$ mm. diam., nigricantibus; conidiis te-
reti-oblongis, rectiusculis, 18-19 \times 4, intus granulosus, hyalinis; ba-
sidiis bacillaribus, inæqualibus, 12-15 \times 2 $\frac{1}{2}$, hyalinis.

Hab. in foliis languidis Ilicis Aquifolii, Molliæ-Valsesia, Italia (CARESTIA).

3. **Glæosporium alutaceum** Sacc. Malpighia XI, 1897, pag. 317. — 3963

Acervulis subcutaneis, in macula expallente gregariis v. circumstantibus, plerumque hypophyllis, 0,3 mm. diam., succineo-melleis; conidiis fusoido-cylindraceis, arcuatis, 20-21 \times 2 $\frac{1}{2}$, continuis, hyalinis; basidiis fasciculatis, 8-12 \times 2, inæqualibus, hyalinis.

Hab. in foliis languidis Ilicis Aquifolii, Molliæ-Valsesia, Italia boreal. (CARESTIA).

4. **Glæosporium Menispermii** Allesch. Hedw. 1895, p. 217. — Acer- 3964

culis hypophyllis, numerosis, minutissimis, epidermide tectis, in partibus emortuis et demum expallentibus foliorum, vix conspicuis; conidiis ovoideo-oblongis, sæpe inæquilateralibus, utrinque obtusis v. rotundatis, nubiosis, guttulatis, continuis, hyalinis, 10-18 \times 3-6.

Hab. in foliis Menispermii canadensis in horto bot. monacensi.

5. **Glæosporium Josephinæ** Dom. Sacc. Atti d. Soc. Ven.-Trent. di 3965

Sc. Nat. 2 ser., 2 vol., 2 fasc. 1896, pag. 477, tab. I, n. 9, et Bull. Soc. Myc. de Fr. 1896, p. 78. — Acervulis densissime gregariis, epidermide tectis, subglobosis, atris; basidiis fasciculatis, teretibus, 15-20 \times 3 $\frac{1}{2}$ -4, guttulatis, hyalinis, e thalamio fuligineo nascentibus; conidiis oblongo-fusoides v. cylindraceis, utrinque obtusis, rectis, 20-24 \times 4-5, inæqualiter pluri-guttulatis, carneohyalinis, mox in cirrum tortuosum compressum amœne incarnatum protrusis.

Hab. in ramis Cerei nycticali in horto botanico Patavino, Italia.

6. **Glæosporium tiliæcolum** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3966

p. 20. — Maculis amphigenis, pallide ochraceis, obscurius marginatis, subcircularibus v. irregularibus, 4-8 mm. latis, sæpe confluentibus; acervulis circularibus oblongisve, tectis, pallide ochraceis, minutis, subconvexis; sporulis ovoideis v. ellipticis, unicellularibus, nubiosis guttulatisve, utrinque obtusis, hyalinis, 8-14 \times 4-6.

Hab. in foliis vivis Tiliæ parvifoliæ in Franconia super. (RONIFELDER). — A *Gl. Tiliæ* Oud. differt quia maculicolum.

7. **Glæosporium bicolor** Mc Alpin. Addit. Fung. Vin. Austral. p. 38, 3967

fig. 44-45. — Pustulis gregariis, subcuticularibus, erumpentibus basi ex atro-brunneo atro-virentibus, sursum flavo-viridulis, 300 μ . alt.; hyphis septatis, ramosis, hyalinis, 4 μ . cr.; conidiis minutis,

elongatis, hinc v. utrinque acutatis, passim navicularibus et rarius 1-septatis, 7,5-11 \times 2-3.

Hab. in baccis *Vitis* var. dictæ *Raisin des dames*, Ardmona Australiæ.

8. **Glæosporium Calophylli** Trel. Nat. Akad. of Sc. Mem. Rep. of the Eclipse Exped. to Carol. Island, May 1883 p. 90. — Conidiis unicellularibus, ellipticis v. oblongis, rectis v. leniter curvulis, utrinque obtusis, dense granulosi vel paucis nucleis oleosis magnis faretis, 18 \times 4, muco salmoniceolore obvolutis. 3968

Hab. in fructibus *Calophylli inophylli*, Caroline Island.

9. **Glæosporium Chamænerii** Allesch. in Allesch. et P. Hennings, Pilze aus dem Umanakdistrikt, 1897. p. 14. — Acervulis plerumque hypophyllis, dense gregariis epidermide tectis, minutis, orbicularibus, cinereo-nigris; conidiis oblongo-obovatis v. obpiriformibus, vertice incrassatis rotundatisque, basi attenuatis, sæpius apiculatis v. subtruncatis, continuis, nubiosis guttulisve, hyalinis, 40-50 \times 2-3. 3969

Hab. in foliis emortui *Chamænerii latifolii* (forma transitoria ad albiflorum) pr. Umanakfjord Groenlandiæ (VANHÖFFEN).

10. **Glæosporium socium** Sacc. Bull. Soc. Myc. de Fr. 1896, p. 71, tab. VI, fig. 7. — Maculis nullis; acervulis epi-raro hypophyllis, laxe et dense gregariis, minutis, ochraceis, epidermide velatis, 0,2-0,5 mm. diam.; conidiis ex ovato oblongis, 15-18 \times 4 $\frac{1}{2}$ -5 $\frac{1}{2}$, rectis, utrinque obtusulis, 1-2-guttatis nubiosisque hyalinis; basidiis bacillaribus, fasciculatis, 16-18 \times 3-3 $\frac{1}{2}$, hyalinis. 3970

Hab. in foliis adhuc vivis *Phaseoli vulgaris*, socio *Uromycete Phaseoli*, Vittorio Italia bor. — Subaffine *G. Kurziano*.

11. **Glæosporium vexans** Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 37. — Acervulis dense sparsis, minutis, obscuris, punctiformibus, ætate depressis; conidiis oblongis, rotundatis, basi abrupte attenuatis acutatisque, sursum interdum latoribus, continuis. 3971

Hab. in foliis *Meliloti albi*, Auburn, Alabama Amer. bor.

12. **Glæosporium Spirææ** Bres. Hedw. 1897, p. 381. — Maculis fuscidulo-umbrinis, amphigenis, marginalibus indeterminatis, centralibus obovatis, vix marginatis; acervulis gregariis, punctiformibus, amphigenis, hypodermicis, pustulati prominulis, 90-100 μ . latis; conidiis oblongatis, sæpe inæquilateralibus, 10-14 \times 3-4; basidiis simplicibus, cylindræcis, 12-14 \times 2-3. 3972

Hab. in foliis *Spirææ opulifoliæ* pr. Prebischthor Saxoniciæ.

13. **Glæosporium rubicolum** Ell. et Ev. Field Columb. Mus. IX, 3973

1896, p. 123. — Maculis primitus numerosis angulosisque minutis, flavis v. rubescenti-luteis, mox confluenso majoribus brunneis, siccis irregularibusque, indefinite limitatis, magnam foliorum partem occupantibus; acervulis paucis sparsis, epiphyllis, prominulis, perithecia simulantibus; conidiis oblongo-ellipticis 12-16 \times 6-7.

Hab. in foliis Rubi strigosi, W. Virginia Amer. bor. (NUTTALL).

14. **Glæosporium amygdalinum** Brizi in Zeitschr. f. Pflanzenkrankh. 3974

1896, p. 67, c. tab. II. — Maculis epicarpicis, rarius caulogenis, circularibus, centro umbilicato-depressis, centro flavo-cinctis, acervulis concentricis, primum fuscis, dein conidiis erumpentibus, fulvis v. late flavo-pruinosis, dense gregariis, pulvinatis, sporophoris teretibus, simplicibus, fasciculato-aggregatis, e mycelio crassiusculo ramoso, pericarpium invadente, oriundis; conidiis oblongis, ovato-acuminatis, hyalinis, granulosis, bi-triguttulatis, 15-20 \times 4-5.

Hab. in fructibus adhuc viridibus Amygdali communis, quos vexat, rarius ad ramulos, pr. Monastir Sardiniae australis.

15. **Glæosporium ochrostictum** Sacc. sp. nov. — Acervulis amphigenis, gregariis, minutis, vix $\frac{1}{3}$ mm. diam., diu tectis dein erumpentibus, ochraceis; conidiis oblongo-clavulatis, 9-12 \times 4-5, inaequilateris, 1-2-guttatis, hyalinis; basidiis brevissimis spiculiformibus. 3975

Hab. in foliis languidis Eucalypti rostratae prope Melbourne Australiae (READER). — A *Gl. nigricante* differt soris ochraceis nec nigris, conidiis angustioribus etc.

16. **Glæosporium Senecionis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3976
p. 290. — Maculis orbicularibus, $\frac{1}{2}$ -1 cm. diam., saepe confluentibus ac magnam foliorum partem occupantibus, dilute luteis; acervulis in hypophyllo magis numerosis, luteis, circiter 75 μ . diam.; conidiis oblongis, 12-23 \times 3-3 $\frac{1}{2}$, leniter curvulis, utrinque obtuse acutatis, continuis.

Hab. in foliis Senecionis aronicoidis in California (DAVIS).

17. **Glæosporium Senecionis-cordati** Allesch. Hedw. 1895, p. 276. — 3977

Maculis magnis, irregularibus, amphigenis, superne ochraceis, subtus ochraceo-cinereis, obscurius marginatis, saepe confluentibus, dein folium totum occupantibus; acervulis epiphyllis, subcutaneis, minutis, numerosis, concoloribus, dein albidis; conidiis oblongis v. cylindræis, rectis v. leniter curvatis, saepe inaequilateralibus, utrinque obtusis v. rotundatis, continuis, guttulatis v. nubilesis, hyalinis, magnitudine varia, ca. 9-18 \times 3-5.

Hab. in foliis adhuc vivis *Senecionis cordati* in Bavaria australi, sociâ *Phyllosticta Senecionis-cordati* Allesch.

18. **Glæosporium coffeanum** Delacr. Bull. Soc. Mycol. de France XIII, 3978 p. 110, tab. VIII, fig. E. — Maculis atro-brunneis, latioribus; pseudo-peritheciis epiphyllis, erumpentibus, 140-170 μ . latis; basidiis cylindraceis, hyalinis, 18-20 \times 3,5; conidiis cylindro-ovoideis, hyalinis, rectis v. paullum arcuatis, 15 \times 4.

Hab. in foliis *Coffeæ arabicæ* in ins. Reunion Africae.

19. **Glæosporium Pedicularis-lanatae** P. Henn. in Allesch. et P. Hennings, Pilze aus dem Umanakdistrikt 1897, p. 14. — Acervulis sparsis v. aggregatis, interdum confluentibus, orbicularibus, depresso-pulvinatis, sublenticularibus, nigris, ca. $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam.; conidiis cylindraceo-oblongis, utrinque rotundatis, obtusis, 4-pluriguttulatis, rectis v. subcurvulis, continuis, hyalinis, 12-18 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in foliis vivis et caulibus *Pedicularis lanatae* pr. Sermilik Groenlandiae (VANHÖFFEN).

20. **Glæosporium Armeriae** Allesch. in Allesch. et P. Hennings, Pilze 3980 aus dem Umanakdistrikt 1897, p. 14. — Acervulis subcutaneis, epidermidem inflatis, pallidis, sparsis v. gregariis; conidiis ovoideis oblongisve, utrinque obtusis, 2-3-guttulatis, continuis, hyalinis, magnitudine valde varia, 5-9 \times 2-4; basidiis brevibus.

Hab. in scapis emortuis *Armeriae vulgaris* var. *sibiricae* pr. Karajak Groenlandiae (VANHÖFFEN).

21. **Glæosporium Myrtilli** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3981 p. 21. — Maculis variis, subcircularibus irregularibusve, saepe confluentibus, denique folium totum occupantibus et necantibus, ochraceo-brunneis, amphigenis, in pagina superiore folii obscurius, rarius violaceo-marginatis; acervulis gregariis, pallidis v. albidis minutissimis, convexulis v. planis, epidermide fissa cinetis, amphigenis; conidiis oblongis cylindraceisve, utrinque obtusiusculis v. obtusis, saepe guttulatis, continuis, hyalinis, 6-10 \times 1 $\frac{1}{2}$ -3; basidiis filiformibus, hyalinis, 12-15 \times 1.

Hab. in foliis adhuc vivis vel languidis *Vaccinii Myrtilli* in Bavaria et Saxonia. — *Gl. Fuckelii* Sacc. affine sed certe diversum.

22. **Glæosporium Syringæ** Allesch. Hedw. 1895, p. 276. — Maculis 3982 irregularibus, subochraceis, indeterminatis, primum marginem foliorum invadentibus, demum folium totum occupantibus et necantibus; acervulis plerumque hypophyllis, numerosis, epidermide

tectis, subochraceis; conidiis ovato-oblongis v. subcylindraceis, rectis v. inæquilateralibus, sæpe nubilosis, utrinque obtusis, continuis, hyalinis, magnitudine varia, ca. 6-15 \times 3-6; basidiis conidio subæquilongis, acicularibus, hyalinis.

Hab. in foliis adhuc vivis *Syringæ* albæ et *S. vulgaris* in Bavaria infer.

23. **Glæosporium samararum** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 3983

p. 36. — Acervulis minutis, dense gregariis, epidermide nigrificata dein fissa tectis, lenticularibus; conidiis fusoideo-oblongis oblongisve, utrinque acutiusculis seu obtusiusculis rotundatisve, granulosis v. nubilosis, continuis, hyalinis, 15-20 \times 3-4; basidiis dense fasciculatis, bacillaribus, subhyalinis, 20-30 \times 2-3.

Hab. in fructibus dejectis *Fraxini* excelsioris pr. München Bavariæ.

24. **Glæosporium Crotonis** Delacr. Bull. Soc. Mycol. de France XIII, 3984

1897, p. 111 c. icone. — Maculis fulvis, exsiccatis, mox dilaceratis; acervulis prominulis, plerumque tectis; basidiis hyalinis, cylindraceis, 18-25 \times 5-6, conidia hyalina, ovoideo-cylindracea, grosse bi-guttulata, 20 \times 7 gerentibus.

Hab. in foliis *Crotonum* in calidariis horti «Luxembourg» Parisiorum Galliæ.

25. **Glæosporium Sorauerianum** Allesch. in Zeitschr. f. Pflanzenkrankh. 3985

1895, p. 276. — Maculis amphigenis, magnis, irregularibus, indeterminatis, flavo-cinereis; acervulis minutis, amphigenis, rufulo-flavis, gregariis, subgelatinosis; conidiis ovoideis v. oblongis, utrinque obtusis v. rotundatis, 2-multiguttulatis nubilosisve, continuis, sæpe inæquilateralibus, circiter 15-20 \times 3 $\frac{1}{2}$ -6; basidiis inæqualibus; conidiis subæquilongis.

Hab. in foliis vivis *Codii* picti culti in Germania (*SORAUER*). — An *Hainesia* species?

26. **Glæosporium Louisiæ** Bäuml. Beitr. Pressb. Pilze 1896, p. 196. 3986

— Acervulis $\frac{1}{4}$ mm. diam., erumpentibus; conidiis hyalinis, 10-13 \times 6-8, ovoideis, interdum basi attenuatis, superne semper rotundatis, granulosis; membrana tenuissima.

Hab. in foliis *Buxi* sempervirentis pr. Pressburg Hungariæ.

27. **Glæosporium Spinaciæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3987.

p. 466. — Maculis suborbicularibus, subindefinitis, 2-3 mm. diam., mox confluentibus, magnam foliorum partem occupantibus necantibusque; acervulis punctiformibus, amphigenis, epidermide in pu-

stulas conicas elevatâ tectis, intio pallidis, mox nigris; conidiis oblongis, obtusis, 5-10 \times 2-2 $\frac{1}{2}$, hyalinis, continuis.

Hab. in foliis vivis Spinaciæ oleraciæ, Côte d'Or Galliæ (FAUTREY).

28. *Glæosporium Rumicis* Ell. et Ev. Field Columb. Mus. IX, 1896, 3988 p. 122. — Maculis rubescenti-brunneis centro dilutioribus, plus minusve distincte zonatis, 3-4 mm. diam., obscurius marginatis; acervulis innatis minutis; sporulis apice erumpentibus oblongis, hyalinis, continuis, 5-8 \times 2-2 $\frac{1}{2}$.

Hab. in foliis Rumicis obtusifoliæ, W. Virginia Amer. bor. (NUTTALL).

29. *Glæosporium Eriogoni* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 3989 p. 466. — Maculis indefinitis, rubescenti-brunneis, 3-4 mm. diam.; acervulis dense sparsis, subepidermicis, punctiformibus, collabentibus; conidiis ellipticis, hyalinis, 8-13 \times 5-8.

Hab. in foliis Eriogoni umbellati, Colorado Amer. bor.

30. *Glæosporium Capræ* Allesch. Ber. Bayr. Bot. Ges. V, 1897, 3990 p. 20. — Maculis epiphyllis, magnis, indeterminatis, fere folium totum occupantibus, brunneo-griseis, dein expallentibus; acervulis epiphyllis, minutis, dense gregariis, versiformibus, epidermide tectis, sæpius confluentibus, nigris; conidiis oblongis, rectis v. parum curvatis, utrinque obtusis, hyalinis, continuis, sæpe guttulatis, magnitudine varia, 6-16 \times 2-4; basidiis sursum attenuatis, hyalinis, continuis, 15-20 \times 1-1 $\frac{1}{2}$.

Hab. in foliis adhuc pendulis et deciduis Salicis Capræ pr. München Baviariæ.

31. *Glæosporium Alni* Ell. et Ev. Field Columb. Mus. IX, 1896, 3991 p. 123. — Maculis sordide fuscis, suborbicularibus, indistincte zonatis, $\frac{1}{2}$ -1 cm. diam., centro pallidioribus, margine concolore; acervulis epiphyllis, numerosis, parvis, 100-200 μ . diam., castaneis, demum obscurioribus; conidiis oblongo-ellipticis, 12-16 \times 6-8.

Hab. in foliis vivis Alni rugosæ in W. Virginia Amer. bor. (NUTTALL).

32. *Glæosporium inconspicuum* Cav. Fung. Longob. V, n. 249. — 3992 Maculis suborbicularibus, ochraceis, magnis, in foliis languescens, decoloratisque; acervulis sub lente quoque non perspicendis, conico-depressis vel applanatis, hyalino-ceraceis; basidiis filiformibus, dense stipatis e strato prolifero orientibus; conidiis minimis, bacteriformibus, ellipticis, 1-2 μ . longis, hyalinis.

Hab. in foliis Ulmi americanæ, quæ enecat, in Italia bor.

33. *Glæosporium carpnicolum* E. et D. Proc. of the Canad. Inst. 3993
1897, p. 93. — Maculis suborbicularibus, definitis, atro-brunneis,
2-5 mm. diam.; acervulis innatis numerosis, minutis; conidiis mi-
nutis, 3-4 \times 1,5-2, demum in utraque pagina in cirros niveos eru-
ctatis.

Hab. in foliis Carpini americanæ, London Canada.

34. *Glæosporium castanicolum* Ell. et Ev. Proc. Acad. Philad. 1895, 3994
p. 435. — Amphigenum, plerumque hypophyllum; maculis dilute
tinctis; acervulis numerosis, minutis, luteolis, erumpentibus; co-
nidiiis fusioideis, subobtusis, leniter curvulis, 20 \times 2-2 1/2.

Hab. in foliis Castaneæ vescae, sociâ *Discosia Artocreatæ*, De-
laware, Amer. bor. (COMMONS).

35. *Glæosporium taxicolum* Allesch. in Hedw. 1896, p. (34). — Acer- 3995
vulis sparsis, epidermide dein fissa tectis, lenticularibus, cinereis;
conidiis ellipsoideis v. oblongis, utrinque obtusis, unicellularibus,
continuis, nubiosis guttulisve, hyalinis, 10-16 \times 5-8; basidiis cy-
lindræcis, hyalinis, 25-30 \times 2 1/2-3 1/2.

Hab. in foliis emortuis Taxi baccatæ pr. Muskau Silesiæ
(SYDOW) et München Baviariæ (ALLESCHER). — A *Glæosporio Taxi*
(DUBY) Karst. prorsus diversum, etiam a *Macrophoma Taxi* (Berk.)
Berl. et Vogl. peritheciis carentibus et sporulis multo minoribus.

36. *Glæosporium Anthurii* Allesch. Hedw. 1895, p. 218. — Acervulis 3996
subrotundis, oblongis v. elongatis, epidermide nigrificata tectis,
dein rimose dehiscentibus, hysteriiformibus, atris; conidiis ovatis
v. cylindræcis, utrinque rotundatis, 2-guttulatis nubiosisve, con-
tinuis, hyalinis, 10-18 \times 3-6; basidiis simplicibus, continuis, hyalinis,
20-30 μ . longis.

Hab. in foliis petiolisque Anthurii Martiani in calidariis,
München Baviariæ.

37. *Glæosporium Stanhopeæ* Allesch. Hedw. 1895, p. 219. — Ma- 3997
culis nullis; acervulis amphigenis, minutis, subrotundis oblongisve,
epidermide tectis, pallide olivaceis, magnitudine varia; conidiis
ovatis, oblongis subcylindræcisve, utrinque rotundatis, 2-guttulatis
v. nubiosis, subhyalinis, continuis, 10-20 \times 4-6; basidiis brevissimis
v. nullis.

Hab. in foliis languescentibus vel emortuis Stanhopeæ spec.
in calidariis, München Baviariæ.

38. *Glæosporium pallidum* Karst. et Har. — Sacc. Syll. X, p. 462. — 3998
forma *Physosiphonis Loddigesii* Allesch. Hedw. 1895, p. 217. —
Acervulis sparsis v. subgregariis, amphigenis, epidermide pallida

tectis, lenticularibus v. planis; conidiis elongatis, rectis v. leniter curvatis, sæpe inæquilateralibus, utrinque obtusis, 2-guttulatis, hyalinis, 10-15 \times 3-5; basidiis non visis.

Hab. in foliis *Physosiphonis Loddigesii* in calidariis, München Bavarix.

39. *Glæosporium Maxillarix* Allesch. Hedw. 1895, p. 217. — *Acer-* 3999
 vulis in utraque pagina foliorum æqualiter dispersis, rarius in pag. sup. foliorum gregariis, semiglobosis, demum applanatis, epidermide nigrificata, vertice dehiscente velatis; conidiis elongatis v. subcylindræcis, utrinque rotundatis, plerumque rectis, sæpe leniter curvatis v. inæquilateralibus, guttulatis granulosisve, hyalinis, 9-18 \times 3-6 $\frac{1}{2}$; basidiis fasciculatis, simplicibus, continuis, basi fuliginis, 25-35 \times 3 $\frac{1}{2}$.

Hab. in foliis subviviis vel emortuis *Maxillarix rufescentis* in calidariis, München Bavarix.

40. *Glæosporium Ornithidii* Allesch. Hedw. 1895, p. 218. — *Maculis* 4000
 magnis, irregularibus, ochraceis, sæpe confluentibus; acervulis amphigenis lenticularibus, convexis, epidermide nigrificata, vertice grisea velatis, subrotundis v. difformibus; conidiis fuscoideo-elongatis, subinde inæquilateralibus, sæpe oblongis, utrinque rotundatis, 2-3-guttulatis granulosisve, hyalinis, 16-24 \times 4-6.

Hab. in foliis emortuis *Ornithidii densi* in calidariis, München Bavarix.

41. *Glæosporium confluens* E. et D. Proc. of the Canad. Inst. 1897, 4001
 p. 93. — *Maculis* minutis $\frac{1}{3}$ -3 mm. diam., suborbicularibus, initio viridulis, dein brunneis, tandem in sicco sordide albis et diaphanis, sæpe late confluentibus; acervulis minutis, inconspicuis mox confluentibus et maculas omnino occupantibus; conidiis oblongo-ellipsoideis, continuis, hyalinis, 8-10 \times 3-3,5.

Hab. in foliis *Sagittariæ variabilis*, London, Canada. — *Acervuli* passim petiolos occupant ibique conidia in massulas albas expulsa conspiciuntur.

42. *Glæosporium victoriense* D. Sacc. Myc. Ital. n. 177. — *Acer-* 4002
 vulis gregariis, amphigenis, subrotundis, $\frac{1}{3}$ mm. diam., centro pallidis, ambitu atris, semper subcutaneis; conidiis ellipsoideis v. oblongo-ellipsoideis, utrinque obtusis, 18-20 \times 5-7, granulosis, hyalinis; basidiis fasciculatis, cylindræcis, plerumque apicè obtusis, 35 \times 6, granulosis, hyalinis, periphericis multo longioribus, 80-90 \times 6-7, obsolete septatis, brunneolis.

Hab. in foliis languidis *Yuccæ gloriosæ*, Costa-Vittorio.

Italia boreal. — A *G. yuccogeno* Ell. et Ev. differt acervulis ambitu nigris, basidiis evidentissimis et conidiis brevioribus.

43. **Glæosporium Convallariæ** Allesch. Hedw. 1895, p. 277. — Ma- 4003
culis amphigenis, minutis, oblongis, rarius subcircularibus, flavidis, dein pellucidis v. vitreis, ochraceo-marginatis; acervulis amphigenis, epidermide tectis, minutis, lenticularibus, candidis; conidiis minutissimis, oblongis, continuis, hyalinis, ca. 3-5 × 1-1 1/2; basidiis brevibus.

Hab. in foliis adhuc vivis Convallariæ majalis in Bavaria inferiori.

44. **Glæosporium caricinum** Sacc. Malpighia 1896, p. 275, tab. VI, 4004
fig. 7. — Late effusum v. confluens, subepidermicum, fulvescens, mycelio in meatibus foliorum copiose evoluto, filiformi, ramoso, hyalino; basidiis fasciculatis brevissimis e thalamio minute parenchymatico hyalino oriundis; conidiis oblongis, rectis, 4-5 × 1, hyalinis, eguttulatis.

Hab. in foliis subvivis Caricis sp, ubi maculas elongatas aureo-fulvas gignit, in Sibiria. — A typo generis habitu præcipue desciscens.

45. **Glæosporium Everhartii** Sacc. et Syd. Sic nominandum est *Glæo-* 4005
sporium americanum Ell. et Ev. in Syll. XI, p. 563, quum exstet antèrius *Gl. americanum* Speg. in Syll. III, p. 709.
46. **Glæosporium Harknessii** Sacc. et Syd. Sic nominandum est *Glæo-*
sporium carpogenum Cke. et Harkn. in Syll. X, p. 453, quum exstet antèrius *Gl. carpogenum* Cke. in Syll. III, p. 719.
47. **Glæosporium Caryæ** Ell. et Ev. in Syll. XI, p. 540 certe idènticum est cum *Gl. Caryæ* Ell. et Dearn. in Syll. X, p. 455.
48. **Glæosporium Commonsii** Sacc. et Syd. Sic nominandum est *Glæo-*
sporium punctiforme Ell. et Ev. in Syll. X, p. 452, quum exstet antèrius *Gl. punctiforme* Sacc. et Ell. in Syll. III, p. 720.

MYXOSPORIUM Link — Syll. III, p. 722, X, p. 464, XI, p. 568.

1. **Myxosporium Rhamni** Allesch. Hedw. 1895, p. 281. — Acervulis 4006
gregariis v. sparsis, epidermide primum tectis, dein erumpentibus et epidermide fissa circumdatis, cinereo-atris, intus albidis, nucleis fusco-griseis; conidiis oblongis v. oblongo-ellipsoideis, utrinque rotundatis, rectis, continuis, hyalinis, ca. 12-15 × 4-5; basidiis non visis.

Hab. in ramulis emortuis Rhamni Frangulæ prope München in Bavaria (SCHNABL).

2. **Myxosporium Spæthianum** Allesch. Hedw. 1897, p. (163). — *Acer-* 4007
vilis sparsis, numerosis, erumpentibus, epidermide rupta cinctis,
 extus fusco-nigris, intus griseis; conidiis oblongis, utrinque obtusis
 v. obtusiusculis, plerumque rectis, rarius leniter curvulis v. inæ-
 quilateris, unicellularibus, hyalinis, $8-11 \times 2-3\frac{1}{2}$; basidiis filifor-
 mibus, fasciculariter conjunctis, conidio paulo longioribus.

Hab. ad ramulos emortuos *Aceris crispici* sociâ *Diplodiâ sub-*
tecta, pr. Berolinum Germaniæ (SYDOW).

3. **Myxosporium Everbartii** Sacc. et Syd. *Myxosporium Corni* Ell. et 4008
 Ev. Bull. Torr. Bot. Cl. 1897, p. 290, nec Allesch. — *Acervulis*
 subcuticularibus, convexo-discoideis, intus ardesiacis, $1-1\frac{1}{2}$ mm.
 diam., epidermide pustulitim inflata dein fissa tectis; sporulis ob-
 longis, hyalinis, 2-nucleatis, $6-8 \times 3$, in globulos carneos protrusis.

Hab. in cortice emortuo *Corni floridæ*, Michigan Amer. bor.

4. **Myxosporium incarnatum** (Desm.) Bon. - Sacc. Syll. III, p. 722. — 4009
 forma *Cratægi* Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 40. —
 Conidiis oblongis, obovoideis vel obpiriformibus, utrinque rotun-
 datis vel obtusis, $15-24 \times 8-10$, ex hyalino dilute carneis, denique
 olivaceis, granulosis v. guttulatis; basidiis fasciculatis v. cæspitosis,
 subcylindraceis, plerumque conidio brevioribus $14-20 \times 3$.

Hab. in ramis corticatis emortuis *Cratægi Oxyacanthæ*,
 Oberammergau Bavariæ.

5. **Myxosporium Aucupariæ** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 4010
 p. 36. — *Acervulis* orbicularibus v. oblongis, initio epidermide tectis,
 dein ea fissa cinctis, plane cupuliformibus, ex albidis fuliginosis,
 intus griseis; conidiis oblongis, utrinque rotundatis, rectis v. per-
 parum curvulis, continuis, eguttulatis, magnitudine varia, ca. $6-10$,
 interdum ad 12μ . longis, $3-4 \mu$. crassis, hyalinis; basidiis non
 visis.

Hab. in ramulis emortuis *Sorbi Aucupariæ* pr. München
 Bavariæ.

6. **Myxosporium Ariæ** Allesch. Hedw. 1895, p. 280. — *Acervulis* 4011
 sparsis v. confertis, epidermide dein fissa tectis, pustuliformibus,
 intus olivaceis; conidiis rotundato-ellipticis, oblongis v. sub favu-
 latis, utrinque rotundatis, continuis, biguttulatis, subhyalinis, ca. $10-14 \times 5-7$;
 basidiis fasciculatis, acicularibus, ca. $15-20 \times 1-1\frac{1}{2}$.

Hab. in ramis emortuis *Sorbi Ariæ* in Bavaria (SCHNABL).

— *Myxosporio Piri* Fekl. proximum, sed præcipue differt conidiis
 duplo minoribus.

7. **Myxosporium diplodioides** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 4012

p. 37. — Sine peritheciis; acervulis sparsis, epidermide dein fissa tectis, 1 mm. latis, griseo-fuligineis, intus pallidis vel albidis; conidiis oblongo-ovatis, utrinque rotundatis, nubiosis guttulisve, continuis, subhyalinis, demum flavescens, 25-30 \times 9-11; basidiis fasciculatis, bacillaribus vel clavatis, crassis, 14-18 \times 3-5, hyalinis.

Hab. in ramis emortuis Sorbi Ariæ pr. München Baviaræ.

8. **Myxosporium Mali** Bres. Hedw. 1897, p. 382. — Acervulis primitus epidermide velatis, dein liberis, rotundatis vel oblongatis, $\frac{1}{2}$ -1 mm. latis, pallidis, siccitate nigris; conidiis oblongo-ovatis, hyalinis, 8-11 \times 3-4. 4013

Hab. in ramis aridis Piri Mali pr. Koenigstein Germaniæ.

9. **Myxosporium Lycii** Allesch. Hedw. 1895, p. 280. — Acervulis epidermide dein irregulariter fissa tectis, subcircularibus, minutis, nucleis obscure cinereis v. olivaceis; conidiis ovatis, oblongis v. subcylindraceis, utrinque obtusiusculis, biguttulatis, hyalinis, ca. 8-12 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$; basidiis dense fasciculatis, acicularibus, hyalinis, ca. 12-20 \times 1. 4014

Hab. in ramulis Lycii barbari in horto botanico Monacensi Baviaræ.

10. **Myxosporium Juglandis** Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 21. — Acervulis late conicis, basi plerumque suboblongis, tectis, dein epidermide fissa circumdatis, gregariis, intus griseis; conidiis oblongo-ellipsoideis, utrinque rotundatis, eguttulatis, hyalinis, 10-14 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$; basidiis non visis. 4015

Hab. in ramulis emortuis Juglandis regiæ in Franconia super. (ROHNFELDER). — Affine *Myx. prunicolo* Sacc. et Roum. et *M. Rosæ* Fekl.

COLLETOTRICHUM Corda — Syll. III, p. 735, X, p. 468, XI, p. 569.

1. **Colletotrichum Hibisci** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1896, p. 16 extr. — Maculis orbicularibus, irregularibus, brunneis; acervulis sparsis v. subgregariis, lenticularibus, 225 \times 65, setulis brevibus, acutis, atro-violaceis, usque 55 \times 3,5, continuis vel septatis; basidiis hyalinis, brevibus; conidiis elongato-subclavatis, continuis, hyalinis, biguttulatis, 11-25 \times 4,2. 4016

Hab. in caulibus Hibisci palustris in horto bot. Genue Ital. bor.

2. **Colletotrichum dussii** Earle, Bull. Torr. Bot. Cl. 1897, p. 29. — Maculis orbicularibus flavo-albis, aridis, purpureo-marginatis, 2-10 mm. diam.; acervulis sparsis, non erumpentibus, minutis, circiter 4017

100 μ .; setis paucis pellucidis, interdum septatis, obtusis, plerumque rectis, basi dilatatis, 70-100 \times 6-8.

Hab. in foliis vivis *Jussiaë decurrentis* pr. Auburn, Alabama Amer. bor. (ATKINSON). — Conidiorum characteres non indicati.

3. *Colletotrichum Erythrinæ* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 4018
p. 437. — Maculis orbicularibus, ferrugineis, margine obscurioribus, $\frac{1}{2}$ cm. diam.; acervulis epiphyllis, erumpenti-superficialibus, 150-200 μ . diam., setulis simplicibus brunneis, parce septatis, 70-100 \times 3-4 metientibus laxè vestitis; conidiis oblongo-cylindraceis, hyalinis, continuis, 14-16 \times 3 $\frac{1}{2}$.

Hab. in foliis *Erythrinæ herbacææ*, Florida, Amer. bor. (NASH).

4. *Colletotrichum solitarium* Ell. et Barth. Bull. Torr. Bot. Cl. 1897, 4019
p. 467. — Maculis amphigenis, orbicularibus, sordide albidis, 1-1 $\frac{1}{2}$ mm. diam., anguste elevato-marginatis; acervulis plerumque hypophyllis, in centro macularum solitariis vel interdum pluribus minoribus consociatis; setulis numerosis, 65-75 \times 2-3, plerumque leniter curvulis; conidiis fusoidè-oblongis, leniter curvulis, hyalinis, subobtusis, 12-14 \times 2 $\frac{1}{2}$ -3.

Hab. in foliis *Solidaginis radulæ*, Kansas Amer. bor. (BARTHOLOMEW).

5. *Colletotrichum Primulæ* Halst. Rep. of the Bot. Dep. New Jersey 4020
Agric. Coll. Esp. Stat. 1894, Trenton. 1895 (Diagnosim. non vidimus).

Hab. in foliis vivis *Primulæ* in Amer. bor.

6. *Colletotrichum Azalææ* Ell. et Ev. Bull. Torr. Bot. Club. 1895, 4021
p. 437. — Maculis obscure ferrugineis, orbicularibus, 3-8 mm. diam., definitis, margine concolori; acervulis plerumque epiphyllis, erumpentibus, 120 μ . diam., setulis gracilibus, nigris, leniter curvulis, 50-70 \times 3-3 $\frac{1}{2}$, septatis laxè vestitis; conidiis oblongis, 8-13 \times 3-3 $\frac{1}{2}$.

Hab. in foliis *Azalææ viscosæ*, Florida, Amer. bor. (NASH).

7. *Colletotrichum Anthurii* Delacr. Bull. Soc. Mycol. de France XIII, 4022
1897, p. 110, tab. VIII, fig. D. — Maculis fulvis; pseudo-peritheciis fusco-olivaceis, in pagina inferiori frequentioribus late apertis, sed interdum initio subclausis et Vermiculariam simulantibus, 180 μ . latis circiter; basidiis confertis, cylindraceis, 25 \times 5, apice conidia hyalina, recta, elongata, utrinque rotundata, granulata, 18-20 \times 4-4,5 gerentibus; setis fusco-atris, subrigidis, summo hyalinis, prope basim interdum inflatam flexuosamque uniseptatis, 80 \times 3,5-4.

Hab. in foliis *Anthurii* in caidariis horti «Luxembourg» Parisiorum Galliæ.

8. **Colletotrichum macrosporum** Sacc. Bull. Soc. Roy. Bot. Belg. 4023 XXXV, 1896, p. 130, tab. IV, fig. 7. — Acervulis subcutaneis, dein erumpentibus et epidermide lacerata cinctis, 0,7-1 mm. diam. vel confluendo latioribus nigris; setulis crebris erectis filiformibus, acutiusculis, septulatis, 180-200 \times 6-8, fuligineis; basidiis fasciculatis paliformibus, 1-2-septatis, apice rotundatis, 26-30 \times 9, brunneolis; conidiis oblongis, apice rotundatis, 28-32 \times 8-10, intus granulosis, hyalinis, interdum fumosis.

Hab. in foliis Orchidearum epiphytarum in Brasilia. — Præsertim conidiis magnis species dignoscenda.

9. **Colletotrichum Cordylinæ** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 4024 1896, p. 16 extr. — Acervulis sparsis, fuscis, plano-convexiusculis, magnis, 450 \times 200; setulis simplicibus, erectis, septatis, basi inflatulis, 124 \times 7-8; conidiis continuis, hyalinis, dense fasciculatis, subæquilongis.

Hab. in foliis *Cordylinæ* indivisæ in horto bot. Genuæ Ital. bor.

10. **Colletotrichum Commelinæ** Ell. et Ev. Bull. Torr. Bot. Club. 4025 1895, p. 437. — Maculis obscure brunneis, suborbicularibus, 2-3 mm. diam., subindefinitis, in pagina foliorum inferiore pallidioribus; acervulis circiter 100 μ . diam.; setulis brunneis, obscure septatis, basi 4-5 μ . crassis, sursum angustioribus, 60-75 μ . longis; conidiis oblongis, hyalinis, continuis, 12-16 \times 4-5, uno apice paululo angustioribus.

Hab. in foliis *Commelinæ* angustifoliæ, Florida, Amer. bor. (NASH).

11. **Colletotrichum Yuccæ** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 4026 1896, p. 16 extr., tab. III, fig. 1. — Acervulis numerosis, crebre sparsis, usque 200 μ . latis et 260 μ . longis, epidermide vix centro fissa tectis, basi cellulis fuligineo-umbrinis parenchymaticis, setulis rigidulis, 60 \times 6 vel usque 80 . longis, 2-3-septatis, fuligineis; basidiis hyalinis, cylindraceis; conidiis fusoideis, continuis, 13 \times 3,5.

Hab. in foliis *Yuccæ* filamentosæ in horto bot. Genuæ Ital. bor.

PESTALOZZIELLA Sacc. et Ellis. — Syll. III, p. 737, X, p. 470.

1. **Pestalozziella gossypina** Atk. Bull. Cornell Univ. III, n. 1, 1897, 4027 p. 38. — Acervulis latis, circularibus, depressis, immersis, epider-

midem leniter elevantibus; conidiis anguste elliptico-cylindræis, rectis v. curvulis, hyalinis, continuis, grosse guttatis, 25-35 \times 5-6, apice basiue setis suboctonis 20-30 μ . longis ornatis.

Hab. in truncis Gossypii herbacei, Auburn, Alabama Amer. bor.

NÆMOSPORÆ Pers. — Syll. III, p. 746, X, p. 507.

1. **Næmospora Alni** Allesch. Hedw. 1895, p. 279. — Pustulis conicis, 4020
minutis, gregariis, vertice rima transversali perforatis; nucleis subrotundis v. oblongis. varie lobatis, atris; cirris filiformibus, aureis; conidiis bacillaribus v. subfusiformibus, curvulis, utrinque obtusis, hyalinis, ca: 9-14 \times 1 $\frac{1}{2}$ -2; basidiis dense fasciculatis, filiformibus, simplicibus, 20-20 μ . longis, 1-1 $\frac{1}{2}$ μ . crassis, hyalinis.

Hab. in cortice Alni in canæ, socio *Melanconio apiocarpo* et *Melancone thelebola* immatura, in Bavaria.

2. ? **Næmospora sclerotioides** Allesch. Hedw. 1896, p. (33). — Stro- 4029
mate subcutaneo erumpente, epidermide irregulariter rupta cincto, durissimo, subcorneo, pluricellulari, extus rubro-brunneo, intus nigro v. cinereo, subrimoso; conidiis filiformibus rectis v. leniter curvulis, hyalinis, 10-20 \times 1; basidiis furcatis, hyalinis, 10-25 \times 1.

Hab. in cortice Quercus pr. Berolinum Germaniæ (Sydow). — Vergit ad *Libertellam*.

3. **Næmospora Strobi** Allesch. Hedw. 1895, p. 279. — Peritheciis 4030
nullis; acervulis epidermide dein irregulariter fissa tectis, convexis, sæpe confluentibus, carneo-vel flavo-albis; conidiis numerosissimis, oblongis, utrinque obtusis, continuis, hyalinis, ca. 2-2 $\frac{1}{2}$ \times 1 $\frac{1}{2}$ -1; basidiis dense fasciculatis, verticillato-ramosis, hyalinis, longitudine varia.

Hab. in cortice ramulorum emortuorum Pini Strobi in Bavaria australi.

Sect. 2. Phæosporæ.

MELANCONIUM Link — Syll. III, p. 749, X, p. 471, XI, p. 571.

1. **Melanconium crinigerum** Ell. et Ev. Proc. Acad. Philad. 1895, 4031
p. 436. — Acervulis subcutaneis, convexis, ardesiacis, 2-3 mm. diam.; conidiis ovatis, ellipticis v. subglobosis, 25-40 \times 22-30, laxè fibrillosis, in cirros atros erumpentibus.

Hab. in cortice acerino, Ohio et New York, Amer. bor.

2. **Melanconium Alni** Ell. et Ev. Proc. Acad. Philad. 1895, p. 436. 4032

— Acervulis perithecioides, minutis, $\frac{1}{4}$ mm. diam., immersis, subcircinatis, primitus conidiis subglobois, hyalinis, 3-4 μ . diam. abundanter repletis, dein conidia elliptica v. oblongo-elliptica, obtusa, brunnea, 20-25 \times 12-15, generantibus; basidiis circiter 15 μ . longis.

Hab. in cortice vivo Alni serrulatæ et rhombifoliæ in California. — Ob conidia ad *Sphaeropsidem* vergit.

3. **Melanconium hysteriopsis** Pat. Cat. rais. pl. cell. Tunisie 1897, 4033 p. 127; Explor. Tun. Illustr. bot. tab. IV, fig. 8. — Acervulis amphigenis, epidermide tectis, dein erumpentibus, atris, ellipticis, $\frac{1}{2}$ -1 $\frac{1}{2}$ mm. longis; stromate crasso, brunneo-cellulose; basidiis linearibus, confertis, pallidioribus, apice obtusis, 35-50 \times 7-8, monosporis; conidiis solitariis, exacte globosis (non lentiformibus), pallide brunneis, levibus, 10 μ . latis.

Hab. in foliis languescentibus Phragmitis in Tunisia.

4. **Melanconium arundinaceum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4034 p. 290. — Acervulis gregariis ellipticis, 1-1 $\frac{3}{4}$ \times $\frac{3}{4}$ -1 mm., lenticularibus, epidermide alutacea demum medio fissa tectis; conidiis globosis, 15-20 μ . diam. vel ellipticis, 18-22 \times 13-16; basidiis inconspicuis, conidio brevioribus.

Hab. in culmis emortuis Arundinariæ, Louisiana Amer. bor. (LANGLOIS). — Ab affini *M. hystero* acervulis majoribus, conidiis vulgo obovato-ellipticis ac basidiis inconspicuis recedit.

5. **Melanconium Sacchari** Masee, Not. on the Melancon. 1895; Spegazzini in Rev. Agr. y Veter. La Plata 1896, p. 242. — Acervulis fere semper numerosis, plus minusve laxe gregariis, in foliis sæpe areola indeterminata pallescente insidentibus, orbicularibus, 250-500 μ . diam., convexulis epidermide supra plus minusve stromatice nigrificata tectis, atris, poro ostiolorum (rarius rimoso) dehiscens, compactis, per ætatem cirro nigro protrudente ornatis; conidiis cylindræis, utrinque rotundatis, 10-15 \times 3 $\frac{1}{2}$ -4, rectis v. leniter curvulis, olivaceis, levibus, sæpius grosse 1-vel 2-guttulatis, in sterigmatibus hyalinis monosporis (7-10 \times 3) e strato prolifero (in pseudoperithecio?) crasso, dense minutissimeque parenchymatico atro-olivaceo oriundis, acrogenis.

Hab. in foliis, vaginis, nec non culmis languidis v. emortuis Sacchari officinarum, prov Tucuman, Argentina. — Acervuli ambitu paraphysibus filiformibus guttulatis hyalini, 40-70 \times 4, mox articulatum secedentibus (et evanescentibus) cincti.

Sect. 3. Didymosporæ.

DIDYMOSPORIUM Nees — Syll. III, p. 763, X, p. 475, XI, p. 572.

1. **Didymosporium rhoinum** Ell. et Ev. Erythea 1897, p. 5. — Acer- 4036
vulis epiphyllis, subcutaneis, globosis, $\frac{1}{4}$ - $\frac{1}{3}$ mm. diam., nigris,
epidermidem leviter elevantibus et nigrificantibus; conidiis ob-
longo-fusoides, 1-septatis. 12-14 \approx 3 $\frac{1}{2}$ -4.

Hab. in foliis emortuis Rhois integrifoliæ in California.

SEPTOMYXA Sacc. — Syll. III, p. 766, X, p. 476, XI, p. 573.

1. **Septomyxa Negundinis** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 4037
p. 22. — Acervulis subcutaneo-erumpentibus, epidermide fissa
cinctis, fusco-rubris; conidiis elongatis v. subfusoides, utrinque
obtusis, plerumque rectis, rarius curvulis, medio 1-septatis v. gut-
tulatis, hyalinis, 12-20 \approx 2 $\frac{1}{2}$ -4; basidiis subcylindraceis, conidio
paulo longioribus.

Hab. in ramulis emortuis Aceris Negundinis pr. München
Bavariæ.

2. **Septomyxa Amorphæ** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 38. 4038
— Acervulis dense gregariis, depresso-sphæroideis, epidermide
dein fissa tectis, rufo-brunneolis, demum subfuscescentibus; conidiis
ovoideis v. oblongis, utrinque rotundatis, medio 1-septatis, primum
non vel vix, dein valde constrictis, hyalinis, 10-16 \approx 4-7; basidiis
non visis.

Hab. in ramulis emortuis Amorphæ fruticosæ pr. Mün-
chen Baviariæ.

MARSONIA Fisch. — Syll. III, p. 767, X, p. 476, XI, p. 573.

1. **Marsonia Clematidis** Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 21. 4039
— Maculis irregularibus, indeterminatis, magnis, fuscis, dein ex-
pallentibus, lineis elatis, zonatis, amphigenis; acervulis tuberculi-
formibus, epidermide dein fissa tectis, amphigenis, concoloribus;
conidiis subcylindraceis, utrinque rotundatis, medio subconstrictis,
plerumque 4-guttulatis, continuis, dein 1-septatis, 15-20 \approx 3-5, hya-
linis; basidiis bacillaribus brevibus, hyalinis.

Hab. in foliis adhuc vivis Clematidis Vitalbæ in Bavaria.

2. **Marsonia Rhamni** Ell. et Ev. Proc. Acad. Philad. 1895, p. 436. 4040
— Maculis suborbicularibus, $\frac{1}{2}$ -1 cm., centro albidis, late et ob-
scure purpureo-marginatis; acervulis epiphyllis, sed etiam hypo-

phyllis, carneis, 200-250 μ . diam.; conidiis oblongis v. elliptico-oblongis, uniseptatis, hyalinis, 6-8 \times 2 $\frac{1}{2}$ -3, ad septum non constrictis.

Hab. in foliis Rhamni Purshianæ, Washington, Amer. bor. (PIPER).

3. **Marsonia carnea** Vesterg. Jahreskatalog der Wiener Kryptog. 4041

Tauschanstalt p. 4. — Maculis epiphyllis, orbicularibus, circ. 1 cm. diam., exarescentibus, subcarneis, margine latiusculo, sæpe circulis 2-3 concentricis, purpurascentibus confertato; acervulis numerosis, laxe gregariis vel subinde circinatim dispositis, subepidermicis, rotundatis, circ. 0,1-0,2 mm. diam., carneis, poro pertusis, demum late dehiscens; conidiis cylindricis, utrinque rotundatis, rectis vel leviter curvulis, medio 1-septatis, non vel vix constrictis vel sæpe continuis, 2-pluriguttulatis, hyalinis, 8-13 \times 3-4; sterigmatibus non visis.

Hab. in foliis vivis Cytisi Laburni in horto botan. Upsaliensi Sueciæ.

4. **Marsonia Baptisiæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 291. 4042

— Maculis orbicularibus 2-4 mm. diam., flavo-brunneis, margine lato subnigro cinctis, zonatis; acervulis cuticula atrata tectis, demum erumpentibus, 150-200 μ . diam.; conidiis oblongo-ellipticis, utrinque obtuse rotundatis, 14-18 \times 6-7, initio continuis, demum subtiliter uniseptatis ac vulgo leniter constrictis.

Hab. in foliis Baptisiæ leucanthæ, Jowa Amer. bor.

5. **Marsonia Potentillæ** (Desm.) Fisch. — Sacc. Syll. III, p. 770 — M. 4043

Fragariæ Sacc. Malpighia 1896, p. 276. — Maculis minutis, ochraceis, late sanguineo-marginatis; acervulis atris; conidiis minoribus, nempe 18 \times 5-6, curvato-rostratis, constricto-1-septatis.

Hab. in foliis Fragariæ vescæ in Sibiria.

6. **Marsonia Helosciadii** Fautr. et Lamb. Rev. Mycol. 1896, p. 144. 4044

— Maculis griseolis, indeterminatis, totum folium suboccupantibus; conidiis cumulatis, epidermide circulariter v. irregulariter rupta tectis, cylindræis, obtusis, rotundatis, irregularibus, hyalinis guttulatis, uniseptatis, ad septum constrictis, 26 \times 8.

Hab. in foliis vivis Helosciadii nodiflori in Gallia.

7. **Marsonia Panattoniana** Berl. Riv. Patol. veget. III (1895) p. 342. 4045

— Maculis subrotundis, subinde confluentibus, parum excavatis, 3-5 mm. diam.; acervulis dense gregariis, strato prolifero vix perspicuo formati, initio subcutaneis mox epidermide secedente liberis; conidiis obclavatis, 15-20 \times 3-4, medio 1-septatis, protoplasmate granuloso-farctis hyalinis; basidiis brevibus.

Hab. in foliis vivis Lactucæ sativæ, quæ corumpit, Lari di Pisa in Italia media (Doct. G. PANATTONI)

8. **Marsonia rubiginosa** Ell. et Ev. Proc. Acad. Philad. 1895, p. 436. 4045
— Maculis numerosis, parvis, circiter 1 mm. diam., interdum confluentibus et majoribus, rubiginosis, indistincte marginatis, in pagina foliorum superiore magis definitis; acervulis numerosis. 100-150 μ . diam., amphigenis plerumque hypophyllis; conidiis elongato-piriformibus, hyalinis deorsum uniseptatis, sæpe leniter curvulis, basi acutis, $11-13 \approx 2\frac{1}{2}-4\frac{1}{2}$.

Hab. in foliis Salicis spec., Idaho, Amer. bor. (MULFORD).

9. **Marsonia californica** Ell. et Ev. Americ. Natur. 1897, p. 429. — 4047
Maculis amphigenis, angularibus, 1-3 mm. diam., subconfluentibus, ferrugineis, dein supra griseolis, margine angusto, leviter elevato, obscuro; acervulis innatis, amphigenis; conidiis cylindraceis, plerumque rectis, sed interdum leniter curvulis, hyalinis, uniseptatis, $20-27 \approx 3$, utrinque obtuso-rotundatis.

Hab. in foliis Juglandis californicæ in California (Mc CLATCHIE). — Differt a *Marsonia Juglandis* maculis minoribus definitis et conidiis cylindraceis.

10. **Marsonia Secalis** Oud. Konink. Akad. Wetensch. Amsterdam, 1897, p. 88. — 4048
Maculis minutis, subcircularibus, amphigenis, pallescentibus; conidiis sub epidermide dense aggregatis, oblongo-fusoides, falcatis, apice subrostratis, hyalinis, bilocularibus, $16\frac{1}{2}-18 \approx 3-4\frac{2}{3}$, loculo inferiore paullo minore quam superiore, basi contracto, brevissime pedicellato.

Hab. in foliis languescentibus Secalis Cerealis in Hollandia (RITZEMA Bos).

11. **Marsonia aurantiaca** (Link) Rostr. Bot. Tidsskr. 1895, p. 217. 4049
— Ita nuncupandum est *Gleosporium aurantiacum* (Link) Sacc. Syll. III, p. 717, nam conidia sunt ovoidea, curvula, bicellularia, cellulis inæqualibus. — Habitat præterea in caulibus Laserpitii latifolii in Dania.

Sect. 4. Phragmosporæ.

CORYNEUM Nees — Syll. III, p. 774, X, p. 481, XI, p. 576.

1. **Coryneum septosporioides** Sacc. et Syd. *Coryneum Negundinis* Ell. 4050
et Ev. Bull. Torr. Bot. Cl. 1897, p. 292, nec B. et C. — Acervulis subepidermicis initio separatis, mox confluentibus ac per epidermi-

dem erumpentibus, expositis, in maturitate continuis effusisque, cortice interiore insidentibus; conidiis obovatis v. ellipticis, 2-septatis, sæpe ad septa constrictis, luteo-brunneis, 20-30 (rarius 40) \times 12-15; basidiis compactis, 15-20 \times 4-5, subhyalinis, subtorulosis, continuis v. subtiliter septatis.

Hab. in ramis emortuis Negundinis aceroidis. Colorado Amer. bor. — In maturitate ob statum effusum *Septosporii* speciem optime simulat, sed hyphis caret.

2. **Coryneum Pistaciæ** Pat. Cat. rais. pl. cell. Tunisie 1897, p. 128; 4051
Explor. Tun. Illustr. bot. tab. IV, fig. 7. — Maculis amphigenis, fuscis; acervulis hypophyllis, sparsis, minutis, 300 μ . latis, tectis, dein erumpentibus; conidiis ovoideis, 30-40 \times 10-15, brunneis, levibus, 3-septatis (rarissime 4-septatis), vix constrictis; basidiis hyalinis, 40-50 \times 3.

Hab. in foliis Pistaciæ Lentisci in Tunisia.

3. **Coryneum sambucinum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 467. 4052
— Acervulis acuto-ellipticis, nigris, subcuticularibus, 3-4 \times 1 $\frac{1}{2}$ -2 mm., erumpentibus, sed epidermide rupta pro parte tectis; conidiis ellipticis, utrinque leviter attenuatis, 3-septatis, plerumque constrictis, olivaceo-brunneis, 35-45 \times 15-20; basidiis firmis, septatis, 25-35 \times 4-5.

Hab. in ramis emortuis Sambuci, Colorado Amer. bor.

4. **Coryneum pezizoides** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 292. 4053
— Acervulis erumpenti-superficialibus, primo punctiformibus, dein orbicularibus, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., nigris, vulgo planis vel supra subconcavis, superficie asperatis; conidiis oblongis, 3-septatis, ad septa constrictis, olivaceo-fuliginis, 20-25 \times 6-7, basidiis circiter 15 μ . longis suffultis.

Hab. in cortice salicino, Colorado Amer. bor.

5. **Coryneum Sydowianum** Allesch. Hedw. 1896, p. (33). — Acervu- 4054
lis subsemiglobosis, sparsis, epidermide tectis, vertice elevatis, intus aterrimis, 0,6-1 mm. latis; conidiis subfusiformibus v. clavatis, leniter curvulis, deorsum angustatis, 6-8-septatis, olivaceo-brunneis, 50-70 \times 12-16; basidiis cylindræis, leniter curvulis, septatis, 40-60 \times 3-4, subhyalinis.

Hab. in ramis emortuis Alni incanæ pr. Berolinum, Germania (SYDOW).

6. **Coryneum thycolum** Vestergr. Oefv. K. Vet.-Acad. Förh. 1897, 4055
n. I, p. 45. — Acervulis sparsissimis, subcutaneis, punctiformibus, applanatis, nigris, circ. 250 μ . diam.; conidiis fusideo-oblongis,

3-septatis, ad septa non constrictis, fuscis, utrinque papilla conica, 3 μ . longa, acutiuscula, perfecte hyalina ornatis, non ciliatis, 23-34 \times 9-11; basidiis e strato parenchymatico, parum distincto surrectis, filiformibus, parce guttulatis, hyalinis, longitudine valde variis, 15-80 \times 2.

Hab. in foliis aridis Thujæ occidentalis in horto bot. Upsaliensi, Suecia.

7. *Coryneum* (?) *camerunense* P. Henn. Fungi camerun. I in Engl. 4056
Jahrb. XXII, 1895, p. 81. — Acervulis gregariis, erumpentibus, pulvinatis v. capituliformibus, brunneis, rugulosis, circiter 1 mm. diam.; conidiis clavatis, obtusis, 5-10-septatis, aureo-flavis, 120-250 \times 35-45, loculis non constrictis, stipitibus hyalinis, fasciculatis, 20-40 μ . longis.

Hab. in rhizomate et stipite emortuis Filicum, Kamerun (JUNGNER).

PESTALOZZIA De Not. — Syll. III, p. 784, X, p. 485, XI, p. 578.

1. *Pestalozzia maculicola* Rostr. Bot. Tidskr. 1895, p. 211. — Ma- 4057
culis orbicularibus, 3-4 mm. diam., albidis, amphigenis, linea fusca cinctis; acervulis minutissimis nigris; conidiis oblongo-fusoideis, 4-ocularibus, loculis duobus interioribus fuscis, 16-20 \times 6-7, vertice ciliis tribus ornatis.

Hab. in foliis Ulmi montanæ in Dania.

2. *Pestalozzia funerea* Desm. — Sacc. Syll. III, p. 791. — forma *Ca-* 4058
melliæ P. Brun. Act. Soc. Linn. Bordeaux 1889, p. 20 extr. — Acervulis sparsis, cortice innatis, demum erumpentibus; conidiis oblongis, 4-septatis, 18 \times 5, ad septa constrictis, loculis tribus interioribus brunneis, duobus extimis hyalinis, apice rostellis tribus hyalinis 4-6 μ . longis ornatis, basi in pedicellum desinentibus.

Hab. in ramis emortuis *Camelliæ japonicæ*, Saintes Galliæ.

3. *Pestalozzia Oenotheræ* Ell. et Barth. Erythea. 1896, p. 26. — 4059
Acervulis gregariis, erumpenti-superficialibus, orbicularibus v. subellipticis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; conidiis obelavato-oblongis, 3-septatis, ad septa non constrictis, subinæquilateralibus v. leniter curvulis, 10-12 \times 3-4, basi rotundatis, apice acutis, cellula terminali plerumque hyalina; seta unica terminali, brevi, hyalina, plerumque obliqua, 5-7 μ . longa.

Hab. in caulibus emortuis *Oenotheræ biennis*, Kansas, Amer. bor. (BARTHOLOMEW). — *P. monochæte* valde affinis, hinc e subgenere *Monochætie*.

4. *Pestalozzia fibriseda* Ell. et Barth. *Erythea* 1896, p. 27. — 4060
Acervulis gregariis, subhysteriiformibus, $\frac{1}{2}$ -1 mm. longis; conidiis oblongo-ellipticis, 5-septatis, brunneis, 15-20 \times 8; loculis terminalibus minutis, hyalinis; seta terminali brevi, 10-12 μ . longa, obliqua, pedicellis gracilibus, 25 μ . longis.

Hab. in ligno aeri exposito Rhœis glabræ, Kansas, Amer. bor. (BARTHOLOMEW). — E subg. *Monochaetia*.

5. *Pestalozzia Terebinthi* Brizi, Bull. Soc. bot. ital. 1895, p. 81. — 4061
Acervulis parvis, primo immersis, dein erumpentibus, atris; conidiis obovato-fusoideis, 18-22 μ . longis, 9-11 μ . latis, 6-locularibus, pariete crasso, loculis 4 interioribus atrofuscis, 2 extimis conoideis hyalinis, apice rostello singulo 8-10 μ . longo, e basi leniter curvato, hyalino.

Hab. in ramulis abnormibus emortuis Pistaciæ Terebinthi pr. Mompeo in Sabina Italiæ (CUBONI). — E subg. *Monochaetia*.

6. *Pestalozzia uniseta* Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 4062
p. 209. — Acervulis sparsis, erumpentibus, ovalibus v. ellipticis, irregulariter elongato-erumpentibus, 50-100 \times 100-200; conidiis ellipticis, sæpe leniter curvulis, 5-septatis, 4 cellulis mediis obscure fuscis, cellulis terminalibus hyalinis, 25-30 \times 7-8; arista una hyalina, 8-10 μ . longa, curvata; stipite brevissimo, curvato.

Hab. in cortice Vitis in Mississippi Amer. bor. — E subg. *Monochaetia*.

7. *Pestalozzia Cuboniana* Brizi, Bull. Soc. bot. ital. 1895, p. 82. — 4063
Acervulis gregariis, maculas foliorum latas flavescentes, livido-areolatas occupantibus, punctiformibus, atro-fuscis, primum hypodermicis, dein erumpentibus; conidiis 22-24 \times 5-6, oblongis, tereti-fusoideis, 5-locularibus, loculis 3 intimis cinereo-fuscis, 2 extimis hyalinis, apice tribus rostellis brevibus, hyalinis, 7-9 μ . longis, filiformibus, basi pedicello brevi, hyalino præditis.

Hab. in foliis emortuis Myrti communis in agro Romano Italiæ (CUBONI).

8. *Pestalozzia Psidii* Pat. Bull. Soc. Myc. de Fr. 1896, p. 232. — 4064
Acervulis gregariis, lenticularibus, innato-erumpentibus, epidermide circinatim lacerata cinctis, 200-250 μ . diam.; conidiis piriformibus, 4-septatis, loculis tribus mediis olivaceo-fuscis, duobus extimis hyalinis, 22-25 \times 8, apice setulis ternis hyalinis, 8-10 μ . longis donato; pedicello brevissimo.

Hab. in fructibus Psidii pomiferi in Æquatoria (v. LANGERHEIM).

- 9 **Pestalozzia truncata** Lév. - Syll. III, 794. — var. **Rubi** Karst. 4065
Hedw 1896, p. 48. — Acervulis gregariis, globoso-depressis, erumpentibus, nigris; conidiis oblongatis, raro inaequilateralibus, 3-septatis, ad septa non vel vix constrictis, cellulis 2 mediis majoribus fuliginosis, 2 extremis minutissimis hyalinis, supera in cilia 2-3, saepe furcata, conidiis longiora abeunte, infera in pedicellum filiformem conidium superantem, utraque denique secedente et conidium truncatum, 1-septatum, 13-14 \times 4-6 muticum relinquente.

Hab. in caulibus **Rubi** siccis pr. Aboam Fenniae. — A typo praecipue conidiis minoribus angustioribusque differt. Species *Pestalozziae* in Fennia prima.

10. **Pestalozzia turgida** Atk. Bull. Cornell Univ. III. n. 1, 1897, 4066
p. 37. — Acervulis maculis magnis nigrescentibus insidentibus, discoideis, circularibus, triangularibus v. oblongis, epidermidem stellatim disrumpentibus, nigris, margine epidermidis plus minusve recurvato; conidiis late ellipticis, inaequilateralibus v. curvulis, 22-28 \times 8-12, 5-septatis, loculis quattuor internis atro-brunneis, extremis hyalinis v. fuliginosis, conoideisque, una seta apicali 8-15 μ . longa hyalina ornatis; basidiis 6-12 μ . longis.

Hab. in foliis emortuis **Crataegi**, Auburn, Alabama Amer. bor. — E subgenere *Monochætia*.

11. **Pestalozzia Eriobotryæ** Mc Alp. Agr. Gaz. Sydney VI, 1896,
p. 7, fig. 33-34. — Acervulis pulvinatis, subcutaneis, demum erumpentibus, epidermide cinctis, nigris, solitariis v. gregariis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; conidiis fusiformibus, 4-cellularibus, loculis mediis viridulis, luteo-vel brunneo-tinctis crasse tunicatis, loculis terminalibus hyalinis, 14-17 \times 6, apice plerumque ciliis 2 divergentibus (interdum 1 vel 3 et ramosis) conidia aequantibus ornatis; basidiis gracillimis, hyalinis, 28 μ . longis, conidium solitarem gerentibus.

Hab. in nervis foliorum dejectorum **Eriobotryæ japonicæ** pr. Melbourne, Australia. — *P. Casuarinæ* aënis.

- 12 **Pestalozzia breviaristata** Tracy et Earle, Bull. Torr. Bot. Club. 4068
1895, p. 178. — Maculis indistinctis, arescentibus; acervulis sparsis, nigris, demum collabentibus; conidiis curvulis, ellipticis, 5-septatis, 25-27 \times 7-8, septis saepe diagonalibus, cellulis internis fuscis, duabus extremis hyalinis; stipite hyalino, conidiis duplo minore, basi interdum subtumidulo, saepe deciduo; aristis singularibus, valde obliquis, incrassatis, circiter 6 μ . longis.

Hab. in caulibus vivis **Tecomæ** radicans, sociâ *Diplodia minutâ*. Mississippi, Amer. bor. — F. subg. *Monochætia*.

13. *Pestalozzia Cliftoniæ* Tracy et Earle, Bull. Torr. Bot. Club. 1895, 4059
p. 178. — Maculis epiphyllis, orbicularibus, aridis, brunneo-marginatis; acervulis sparsis, per epidermidem erumpentibus; conidiis obovatis, interdum curvulis, 4-septatis, septis sæpe obliquis, 16-18 × 8, cellulis tribus mediis fuligineis, quandoque duabus superioribus obscurioribus et opacis, inferiore pallidiorè, cellula basali hyalina, minuta, brevi acuta, in stipitem brevem abrupte contracta, cellula terminali in apiculum brevem hyalinum reducta et setis tribus late divergentibus, 12-14 μ . longis ornata.

Hab. in foliis vivis *Cliftoniæ ligustrinæ*, Mississippi, Amer. bor.

14. *Pestalozzia effusa* Vestergr. Oefv. K. Vet.-Acad. Förh. 1897, 4070
n. I, p. 45. — Acervulis diu subcutaneis, demum erumpentibus, plus minusve ellipsoideis, varia magnitudine, sæpissime 0,4-0,8 μ . longis, 0,3 μ . latis, convexulis, obsolete, collapsis et late diffusis, maculis nullis; conidiis oblongis, 3-septatis, ad septa leviter constrictis (11-)14-17 × 6-7, fuligineis, eguttulatis, apice setula una 2-3-ramosa vel setulis 3 simplicibus, filiformibus, hyalinis ornatis; pedicellis 15-22 × 1½, simplicibus, continuis, hyalinis.

Hab. in peridermio ramorum vivorum *Loniceræ cæruleæ* in horto bot. Upsaliensi, Suecia.

15. *Pestalozzia Sydowiana* Bres. Hedw. 1896, p. (32). — Acervulis 4071
epiphyllis, punctiformibus, nigris, erumpentibus, dense sparsis, in maculis cinereis, angulato-sinuosis, rubro-limitatis, nidulantibus; conidiis fuscoideis, 4-septatis, loculis mediis fusco-olivaceis, extimis hyalinis, ad septa vix constrictis, 24-26 × 8, apice setulis tribus, erectis v. arcuato-reflexis, 24-38 × 8 præditis; stipite brevi, hyalino, 5-7 × 1.

Hab. in foliis vivis *Gaultheriæ procumbentis* horti bot. Berolin. (SYDOW). — *Pestalozziæ longisetæ* Speg. videtur proxima.

16. *Pestalozzia Coryli* Rostr. Bot. Tidskr. 1895, p. 211. — Maculis 4072
epiphyllis, irregularibus, brunneis, numerosis; acervulis atris, planis; conidiis fuscoideis, 4-septatis, loculis tribus interioribus fuscis, 23-25 × 6-7, rostello apicali curvato, 11-13 μ . longo.

Hab. in foliis *Coryli Avellanæ* in Dania. — Spectat ad subgen. *Monochætiæ* Sacc.

17. *Pestalozzia flagellata* Earle, Bull. Torr. Bot. Cl. 1897, p. 30. — 4073
Epiphylia; maculis magnis orbicularibus v. irregularibus, brunneis, lineâ angusta obscuriore marginatis; acervulis tantum in centro desmitem hmitato pallido macularum evolutis, plerumque elongatis,

nervos minores sequentibus, rimose dehiscentibus; conidiis epidermidem nigrificantibus, fusoides, 4-septatis, non constrictis, cellulis tribus internis atro-fuscis, extimis hyalinis, 16×6 ; stipite recto, gracili, conidium æquante; seta solitaria abrupte curvata, conidium duplo superante, circiter 28 μ . longa.

Hab. in foliis vivis *Quercus rubræ* et *Q. nigræ* pr. Auburn, Alabama Amer. bor. (DUGGAR). — E subg. *Monochaetia*.

18. *Pestalozzia clavispora* Atk. Bull. Cornell Univ. III, n. 1, 1897, 4074 p. 37. — Acervulis minutis, irregulariter sparsis, circularibus, immersis, interdum epidermidem nigrificantibus, 150-200 μ . diam., poro minuto pertusis; conidiis clavatis, rectis v. curvulis, 4-septatis; loculis tribus internis coloratis, 2 superioribus intensius, inferiore pallidissimo quandoque subhyalino; loculo infimo oblongo-conoideo; loculo supremo breve conoideo, tribus rarius quattuor setis 25-35 ν . longis ornato; basidiis brevibus.

Hab. in foliis dejectis *Quercus rubræ*, Auburn, Alabama Amer. bor. — *P. longisetæ* affinis.

19. *Pestalozzia kansensis* Ell. et Barth. Erythea 1896, p. 26. — 4075 Acervulis hypophyllis; conidiis oblongo-fusoides, 4-septatis, cellulis terminalibus hyalinis conicisque, tribus mediis pallide brunneis, $16-18 \times 5-5\frac{1}{2}$; seta terminali obliqua, 15-20 μ . longa; pedicello circiter 15 μ . longo.

Hab. in foliis emortuis *Quercus macrocarpæ*, Kansas, Amer. bor. (BARTHOLOMEW). — *P. Saccardoï* proxima. E subg. *Monochaetia*.

20. *Pestalozzia Platani* Fautr. Rev. Mycol. 1896, p. 70. — Acer- 4076 vulis hypophyllis, nigris, laxè gregariis, pulverulentis, vagis; conidiis 3-septatis, loculis mediis obscuris, loculis extimis hyalinis, 16-20 \times 6-8; basidiis longissimis; ciliis 1-3, divergentibus.

Hab. in foliis *Platani orientalis* in Gallia.

21. *Pestalozzia Coccolobæ* Ell. et Ev. Field Columb. Mus. I, n. 3, 4077 1896, p. 286, tab. IX, f. 6-11. — Maculis amphigenis, rubescenti-brunneis, orbicularibus, 2-5 mm. diam., albescentibus, interdum confluentibus marginalibusque; acervulis subcuticularibus, per epidermidem fissam erumpentibus, nigris; conidiis obovato-ellipticis, 15-18 \times 7, subtiliter 3-septatis, non constrictis; loculis terminalibus subhyalinis, loculo medio opaco, superiore deciduo; aristis 1-4, circiter 12 μ . longis.

Hab. in foliis *Coccolobæ uvifæræ*, Yucatan Amer. centr. — *P. Guèpini* affinis; sed differt conidiis brevioribus, latioribus.

22. **Pestalozzia Juniperi** Rostr. Bot. Tidskr. 1895, p. 211. — Acer- 4078
 vulis epiphyllis, gregariis, atris; conidiis fusoides, 6-ocularibus,
 loculis omnibus fuscis, 21-22 \approx 7-8, apice rostello obliquo basi longe
 stipitellato præditis.

Hab. in foliis Juniperi communis in Dania. — Spectat
 ad subgen. *Monochaetiam* Sacc.

23. **Pestalozzia tumefaciens** P. Henn. Verh. Bot. Ver. Prov. Bran- 4079
 denb. 1895, p. XXVI. — Tumores magnos interdum 4-5 cm. diam.,
 sed et forma et magnitudine valde variantes efficiens; conidiis nu-
 merosissimis, oblongo-cylindraceis, 3-septatis, 13-17 \approx 5-6; loculis
 duobus mediis æqualibus atro-brunneis, loculo infero hyalino ver-
 ruciformi, supero hyalino tribus setis tenuissimis extrorsum cur-
 vatis circiter 25 μ . longis prædito, verruciformi.

Hab. ad ramos Abietis nobilis, A. balsameæ, A. sub-
 alpinæ, A. Pichtæ etc. pr. Berolinum Germaniæ.

24. **Pestalozzia Rollandi** Fautr. Rev. Mycol. 1895, p. 71. — Acer- 4080
 vulis erumpentibus in acuum sulco seriatim dispositis, applanatis,
 tectis; conidiis hyalinis, diu simplicibus, demum 2-septatis, cylin-
 draceis, curvulis, summo apice setula tenuissima oblique inserta co-
 nidium superante ornatis, 12 \approx 3.

Hab. in acubus Pini Strobi in Gallia. — E subg. *Mono-
 chaetia*.

25. **Pestalozzia mycophaga** Vuill. Bull. Soc. Myc. de Fr. 1896, p. 35. 4081
 — Acervulis sparsis, hypophyllis, atris, primum epidermide tectis,
 demum erumpentibus epidermide expulsa, sed cellulis stomaticis
 sub pseudo-parenchymate relictis, 200-300 μ . diam.; conidiis
 4-septatis, 27-32 \approx 7,3, loculis 3 internis atro-opacis, 2 extimis vix
 fusciscentibus, superiore conoideo, brevior, rostellum singulum
 gracillimum e basi curvatum v. angulato-uncinatum, hyalinum,
 15-18 \approx 0,6-0,75 sub apice gerenti, inferiore basi attenuato; pedi-
 cello 100 \approx 1,3.

Hab. in foliis brunneis Abietis pectinatæ inter perithecia
 Ascomycetis cujusdam parasitans, in Vogesis Gallia. — E subg.
Monochaetia.

26. **Pestalozzia Cycadis** Allesch. Hedw. 1895, p. 219. — Acervulis 4082
 primum tectis, dein epidermidem discidentibus et erumpentibus,
 sparsis, atris; conidiis fusiformibus, rarius clavato-fusiformibus,
 4-septatis, 18-24 \approx 5-8, utrinque acutiusculis, loculis 3 intermediis
 olivaceo-fuscis, loculis extimis conicis, hyalinis, apice 2-3-ciliatis;
 basidiis brevibus, 5-8 \approx 1, hyalinis.

Hab. in foliis languidis Cycadis revolutæ in horto bot. monacensi.

27. *Pestalozzia Lapageriæ* P. Henn. Hedw. 1897, p. 243, — Maculis 4083
flavis irregularibus, acervulis amphigenis, plerumque hypophyllis
sparsis rotundatis v. confluentibus, explanatis tenuiter subcrusta-
ceis, atris, $\frac{1}{2}$ - $1\frac{1}{2}$ mm. diam.; conidiis subclavatis, 3-septatis,
17-21 \approx 7-8, loculo supremo rotundato, hyalino tribus rostellis hya-
linis, 4-6 . longis coronato; loculis mediis atris, ad septa constri-
ctis; pedicello hyalino, 4-6 μ . longo.

Hab. in foliis languidulis Lapageriæ roseæ pr. Concepcion
in Chile (NEGER).

28. *Pestalozzia Karstonii* Sacc. et Syd. Sic nominanda est *Pestaloz-*
zia inquinans Karst. in Syll. X, p. 487, quum exstet anterior *P.*
inquinans Cke. et Harkn. in Syll. III, p. 784.

29. *Pestalozzia palmicola* Sacc. et Syd. Sic nominanda est *Pestaloz-*
zia brevipes Prill. et Delacr. in Syll. XI, p. 578, quum exstet an-
terior *P. brevipes* Cke. in Syll. III, p. 788.

30. *Pestalozzia Ellisii* Sacc. et Syd. Sic nominanda est *Pestalozzia*
microspora Ell. et Ev. in Syll. X, p. 489, quum exstet anterior
P. microspora Speg. in Syll. III, p. 789.

TOXOSPORIUM Vuill. Bull. Soc. Myc. de Fr. 1896, p. 34 (Etym.
toxon arcus et *spora*). — Acervuli sublenticulares, erumpentes,
sparsi, minuti, atrii. Conidia stipitibus brevibus, simplicibus, sufful-
ra, solitaria, arcuata, utrinque curvo-rostrata, tribus partibus bilo-
cularibus composita; loculi 2 interni atro-opaci, extimi dilutissime
fusci vel hyalini, mutici. Ab affini *Scolecosporio* differt conidiis
tota longitudine curvatis et in partes biloculares divisis.

1. *Toxosporium abietinum* Vuill. l. c. — Acervulis pulvinatis, stro- 4084
maticis, 100-150 μ . latis, nigrescentibus, per epidermidem fissam
erumpentibus; conidiis arcuatis, medio ventricosis, 18-24 altis (chor-
dæ mensura), $7\frac{1}{2}$ -8 μ . crassis in gibbosa parte media, stipitibus sub-
rectis 5-6 \approx $1\frac{3}{4}$ suffultis.

Hab. in apicibus emortuis foliorum Abietis pectinatæ, in
Vogesis Galliæ.

SEPTOGLÆUM Sacc. — Syll. III, p. 801, X, p. 496, XI, p. 581.

1. *Septoglœum Potentillæ* Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 4085
p. 38. — Maculis irregularibus, pallide ochraceis, non limitatis,
demum folium totum occupantibus; acervulis epiphyllis, gregariis,

epidermide tectis, pallidis; conidiis irregulariter cylindraceis, curvulis flexuosisve, utrinque rotundatis, 1-3-septatis, 20-50 \times 3-5, hyalinis; basidiis non visis.

Hab. ad folia viva vel languida *Potentillæ caulescentis*, in Bavaria merid.

2. *Septoglœum Cynanchi* Allesch. Hedw. 1895, p. 282. — Maculis 4086
pallidis, indeterminatis, irregularibus; acervulis epiphyllis, gregariis, circularibus, epidermide tectis, dein erumpentibus, pallidis; conidiis subcylindraceis, leniter curvatis, flexuosis, sæpe subrectis, utrinque rotundatis, primum continuis et guttulatis, dein 1-3-septatis, hyalinis, ca. 10-30 \times 4-7.

Hab. in foliis languidis *Cynanchi Vincetoxici* in Bavaria australi.

3. *Septoglœum saliciperdatum* Allesch. et Tubeuf, Ber. Bayr. Bot. Ges. 4087
IV. 1896, p. 38. — Acervulis pulvinatis, subcutaneis, dein erumpentibus et peridermio fissis cinctis, gregariis, subrotundis oblongisve, sæpe confluentibus et tum longe linearibus, 2-3 mm. longis, 0.3-0.5 mm. latis, fuscis; basi conidiophora e cellularum seriibus verticalibus, parallelis, dense stipatis composita; basidiis nullis; conidiis ovoideo-oblongis, plerumque rectis, rarius curvulis v. inæquilateralibus, utrinque obtusis. 1-2-septatis, ad septa valde constrictis, 12-22 \times 7-9, dilute melleis.

Hab. in foliis ramulisque languidis *Salicis laurinzæ*, plerumque socio *Septoglœo salicino* Peck, in Bavaria merid. — *S. Hartigiano* proximum, sed conidiis minoribus, plerumque 1-septatis et basidiis nullis diversum.

Sect. 5. Scolecosporæ.

TRICHODYTES Kleb. Ber. d. Deutsch. Bot. Ges. 1897, p. 527 (Etym. *thrix*, *trichos*, pilus et *dyo* mergor). — Fungillus intra pilos plantarum innatus, ex acervulo denique partim erumpente constans; hyphæ filiformes, variæ, septatæ, apice conidia elongata. continet hyalina gerentes. — Genus *Cylindrosporio* subaffine, sed habitu et habitatione vere singulare.

1. *Trichodytes Anemones* Kleb. l. c. tab. XXVI. — Hyphis in ju- 4088
ventute solitariis v. paucis aggregatis, septatis, demum totam matricem replentibus; conidiis numerosis, in apicibus hypharum fasciculatis, hyalinis, unicellularibus, bacillaribus, interdum leniter curvulis, 19-22 \times 1.

Hab. in pilis glanduligeris *Anemones nemorosæ* pluribus locis in Germania.

CYLINDROSPORIUM Ung. — Syll. III, p. 737, X, p. 498, XI, p. 582.

1. ***Cylindrosporium Ranunculi*** (Bon.) Sacc. — Syll. III, p. 737. — forma 4089
Scelerati P. Brun. Act. Soc. Linn. Bordeaux 1890, p. 40 extr.
 — Conidiis filiformibus v. fusiformibus, granulosis, flexuosis, 55-60 \times 2 $\frac{1}{2}$.

Hab. in foliis vivis *Ranunculi scelerati*, Rochefort in Gallia.

2. ***Cylindrosporium acerinum*** Tracy et Earle, Proc. Californ. Acad. V, 4090
 1895, p. 732. — Maculis luteolis, minutis, irregularibus, non marginatis; acervulis epiphyllis, magnis, nigris, sparsis; sporulis valde curvatis, hyalinis, granulosis, 35-40 \times 1 $\frac{1}{2}$ -2.

Hab. in foliis *Aceris glabri*, Utah, Amer. bor.

3. ***Cylindrosporium Violæ*** Sacc. Malpighia XI, 1897, p. 318. — Ma- 4091
 culis amphigenis ex ochraceo pallentibus, variis; acervulis amphigenis, punctiformibus dense gregariis, alutaceis, innatis; hyphis filiformibus tortuosis, parce ramosis, conidiis bacillaribus, rectis v. curvis, variis, 15-35 \times 2, continuis, hyalinis.

Hab. in foliis languidis *Violæ caninæ*, Riva-Valsesia, in Italia boreali (CARESTIA).

4. ***Cylindrosporium Rhamni*** Ell. et Ev. Proc. Acad. Philad. 1895, 4092
 p. 435. — Maculis parvis, 1 mm. diam., albis, in maculis majoribus 3-5 mm. diam., definitis, brunneis, concentricè dispositis; acervulis epiphyllis, erumpentibus, areolis albis insidentibus, nigris 150-200 μ . diam.; conidiis cylindraceis, curvulis, obtusis, nucleatis, hyalinis, 35-45 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in foliis *Rhamni* spec., California (BLASDALE).

5. ***Cylindrosporium Tubeufianum*** Allesch. Hedw. 1895, p. 278. — Pu- 4093
 stulis primum convexis, epicarpio tectis, dein applanatis v. scutiformibus, epicarpio rupto cinctis, subcircularibus, sæpe cæspitosis v. confluentibus, luteo-brunneolis, subfurfuraceis; acervulis minutis, innatis, erumpentibus; conidiis filiformibus, curvatis, multiguttulatis, hyalinis, 40-60 \times 2-2 $\frac{1}{2}$.

Hab. in fructibus immaturis *Pruni Padi*, quæ necat, in Bavaria australi (TUBEUF).

6. ***Cylindrosporium Lupini*** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4094
 p. 291. — Maculis irregularibus suborbicularibus, 2-4 mm. latis,

sæpe marginem vel apicem foliorum occupantibus, sordide rube-
scenti-brunneis; acervulis amphigenis, pallidis, circiter 75 μ . diam.;
conidiis fusoideo-filiformibus v. spiculiformibus, nucleatis, rectis,
continuis, 15-23 \times 1 $\frac{1}{4}$ -1 $\frac{1}{2}$.

Hab. in foliis Lupini cytisoidis et L. latifolii in Cali-
fornia (DAVIS). — A *Cyl. longisporo* conidiis brevioribus continuis
præcipue recedit.

7. *Cylindrosporium spiræicolum* Ell. et Ev. Americ. Natur. 1897, 4095
p. 429. — Maculis minutis, dilute flavidis, irregularibus, 1-2 mm.
diam.; acervulis epiphyllis, innatis, paucis; conidiis clavato-cylin-
draceis, rectis, apice rotundatis et obtusis, inferne gradatim atte-
nuatis, 3-5-septatis, 40-70 \times 3 $\frac{1}{2}$ -5, hyalinis, erumpentibus, auran-
tiaco-luteis.

Hab. in foliis Spirææ betulifoliæ in Idaho (KELLER). —
A *Cylindrosporio Filipendulæ* Thüm. differt acervulis epiphyllis
et conidiis clavatis longioribus.

8. *Cylindrosporium graphalicolum* Atk. Bull. Cornell Univ. III, n. 1, 4096
1897, p. 36. — Maculis minutis irregularibus, nigris; acervulis
amphigenis, magnis irregularibus, epidermidem elevantibus; conidiis
vermiformibus, 6-15-septatis, 50-90 \times 2 $\frac{1}{2}$ -3.

Hab. in foliis vivis Gnaphalii, Auburn, Alabama Amer. bor.

9. *Cylindrosporium Steironematis* Atk. Bull. Cornell Univ. III, n. 1, 4097
1897, p. 36. — Maculis orbicularibus, 3-6 mm. diam., brunneolis,
centro plerumque pallidioribus; acervulis 100-120 μ . diam.; conidiis
subtiliter 3-5-septatis, curvulis, teretibus, 30-70 \times 1 $\frac{1}{2}$ -2, in
cirros longos gelatinosos protrusis.

Hab. in foliis Steironematis, Auburn, Alabama Amer. bor.

10. *Cylindrosporium Kelloggii* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4098
p. 291. — Maculis numerosis minutis, 1-2 mm. diam., initio atro-
brunneis, dein centro plus minusve albescens ac margine ob-
scuro angusto cinctis, sæpe confluentibus et areas irregulares di-
lute brunneas $\frac{1}{2}$ -1 cm. vel ultra effusas formantibus; acervulis
hypophyllis, 110-150 μ . diam., erumpentibus, carnis, conglutina-
tis, demum subnigris; conidiis cylindraceis plus minusve curvulis,
nucleatis, demum 3-septatis, 40-65 \times 2 $\frac{1}{2}$ -3.

Hab. in foliis vivis Quercus Kelloggii in California
(HANSEN).

11. *Cylindrosporium Celtidis* Earle, Bull. Torr. Bot. Cl. 1897, p. 29. 4099
— Maculis minutis, flavis, indefinitis indistinctisque; acervulis hy-
pophyllis sparsis, sæpe in macula solitariis, flavo-brunneis; conidiis

diis cylindraceis v. clavatis, guttatis, demum obscure pluriseptatis, 20-25 \times 3.

Hab. in foliis vivis Celtidis mississippiensis in Alabama Amer. bor. (ATKINSON).

12. **Cylindrosporium Tabebujæ** Sacc. sp. n. — Acervulis epiphyllis 4100 subcutaneis, maculas ochraceas, nunc minutas gregarias nunc confluyendo latiores efformans; hyphis sterilibus repentibus, fertilibus adscendentibus cylindraceis 20-30 \times 2-4; conidiis acro-pleurogenis, filiformibus, arcuatis v. varie flexis, 25-30 \times 1-5, hyalinis.

Hab. in foliis languidis (piloso-asperulis) plantæ cujusdam *Tabebuja* vulgo dictæ, Guarapi. Paraguay, Dec. 1882 (B. BALANSA. n. 3726).

13. **Cylindrosporium kilimandscharicum** Allesch. in P. Henn. Pilz. 4101 Ostaf. p. 35. — Maculis amphigenis. minutis, brunneis, indeterminatis, sæpe confluentibus; acervulis hypophyllis, subcutaneis, brunneis v. pallidis; conidiis filiformibus v. fusioideo-filiformibus, sæpe una extremitate acutioribus, flexuosis, 60-100 \times 1 $\frac{1}{2}$ -2 $\frac{1}{2}$, granulosis v. multiseptatis, subhyalinis v. fuscidulis.

Hab. in foliis Commelinæ in Africa trop. (VOLEENS).

14. **Cylindrosporium paludosum** Schröt. ap. Bandm. Jahresb. d. Schles. 4102 Ges. f. Vaterl. Cultur. Zool. Bot. Sect. 1894, p. 89 (nomen).

Hab. ex limo canalium ad Breslau Germaniæ, in laboratorio cultum. — E loco vix genuina species!

CRYPTOSPORIUM Kunze — Syll. III, p. 740, X, p. 506, XI, p. 585.

1. **Cryptosporium Aucupariæ** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 4103 p. 37. — Acervulis discoideo-conicis v. difformibus, sæpe confluentibus, rubellis, dein griseo-nigris, epidermide diu tectis, magnitudine varia; conidiis fusiformibus, falcatis, utrinque acutiusculis guttulatis, continuis, hyalinis, 16-22 \times 1 $\frac{1}{2}$ -2; basidiis fasciculatis, simplicibus (?), hyalinis, 25-50 \times 1 $\frac{1}{2}$ -2.

Hab. in ramis emortuis Sorbi Aucupariæ pr. München Baviariæ.

2. **Cryptosporium Phillyræ** Pat. Cat. rais pl. cell Tunisie 1897, 4104 p. 127. — Acervulis gregariis, epidermide cinctis; conidiis hyalinis, filiformibus, curvulis vel flexuosis, 10-13 \times $\frac{1}{2}$.

Hab. in foliis emortuis Phillyræ in Tunisia.

LIBERTELLA Desm. — Syll. III, p. 744, X, p. 507, XI, p. 585.

1. **Libertella affinis** Dom. Sacc. Atti d. Soc. Ven.-Trent. di Sc. Nat. 4105

2 ser. 2 vol., 2 fasc. 1896, p. 477, tab. I, n. 10 et Bull. Soc. Myc. de Fr. 1896, p. 78. — Acervulis gregariis, subcutaneis, globulosis, $\frac{1}{2}$ mm. diam.; basidiis prælongis, bacillaribus, fasciculatis, rectis, 40-45 \times 1-1 $\frac{1}{2}$; conidiis filiformibus, eximie arcuatis, utrinque acutis, 15 \times 1, e flavido hyalinis, mox in cirros deformes crassiusculos amœne aureos protrusis.

Hab. in ramis corticatis emortuis Hibisci syriaci in horto bot. patavino, Italia bor.

2. *Lihertella viticola* Fautr. Rev. Mycol. 1896, p. 69. — Acervulis 4106 minutis, erumpentibus, amœne luteo-aurantiacis; conidiis filiformibus, acicularibus, valde curvulis, 30-35 \times 1 $\frac{1}{2}$.

Hab. in sarmentis siccis Vitis viniferæ in Gallia.

3. *Libertella Ariæ* Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 37 4107 — Acervulis difformibus, sæpe confluentibus, rubro-aurantiacis; conidiis filiformibus, leniter curvis, 18-25 \times 1; basidiis dense fasciculatis, filiformibus, hyalinis, 15-20 \times 1.

Hab. in ramis emortuis Sorbi Ariæ pr. München Baviaræ.

Sect. 6. Phæodictyæ.

STEGANOSPORIUM Corda — Syll. III, p. 803, X. p. 508.

1. *Steganosporium heterospermum* Vesterg. Bihang. K. Svenska 4108 V. A. Handl. XXII, Afd. III, n. 6, 1896, p. 26 — Acervulis peridermio tectis, sparsis v. 2-3 confertis, subsphæroideis, 400-650 μ . diam., extus griseis, intus nigris, demum prorumpentibus, conidia ut pulverem nigrum emittentibus; conidiis valde difformibus, piriformibus, ovalibus, cylindræis, etiam subsphæroideis, utrinque rotundatis, 3-6-septato-muriformibus, typice septo longitudinali divisus, obscure fuscis, 12-30, typice 18-22 μ . longis, 8-12 μ . latis.

Hab. in ramulis corticatis mortuis Pruni spinosæ in Gotlandia Sueciæ.

2. *Steganosporium Fautreyi* Sacc. et Syd. *Steganosporium irregulare* 4109 Fautr. Rev. Mycol. 1895, p. 170, tab. CLVII, fig. 5. — Acervulis nigris, epidermidem transverse findentibus; conidiis ovalibus, luteis, muriformibus, nitido-guttulatis, in appendiculam attenuatis, 2-3-septatis, 55-60 \times 20; basidiis hyalinis longissimis.

Hab. in ramis siccis dejectis Betulæ albæ in Gallia. — *Massariæ Niessleanæ* Rehm status conidiophorus.

PHRAGMOTRICHUM K. et S. — Syll. III, p. 806, X, p. 509, XI, p. 585.

1. **Phragmotrichum Spirææ** Vesterg. Oefv. K. Vet.-Acad. Förh. 1897, 4110 n. I, p. 46. — Acervulis sparsis v. paucis aggregato-connatis, primo peridermio totis tectis, dein eo laciniatim fisso prorumpentibus, demum subsuperficialibus, lenticularibus v. subsphæroideis, 0,2-0,3 mm. diam., atris; conidiis oblongis, utrinque rotundatis, in catenulas longas connexas, 5-7-septato-muriformibus, septo longitudinali divisis, ad septa transversa leviter constrictis, flavido-brunneis, 19-30 × 8-10.

Hab. in ramulis emortuis *Spirææ* sp. in horto bot. Upsaliensi, Suecia.

HYPHOMYCETÆ Mart. em. Sacc.

Syll. IV, p. I, X, p. 510, XI, p. 586.

Fam. 1. Mucedinaceæ Link.

Sect. 1. Amerosporæ.

Subsect. 1. Micronemææ Sacc.

Trib. 1. CHROMOSPORIÆ Sacc.

CHROMOSPORIUM Corda. — Syll. IV, p. 6, X, p. 510, XI, p. 586.

1. **Chromosporium flavum** Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 128. 411
— Effusum, fusco-flavum, pulverulentum; conidiis subglobosis, levibus, 4-5 \times 3-4; hyphis obsolete.

Hab. in cortice et ligno Alni in Tunisia.

MICROSTROMA Niessl — Syll. IV, p. 9.

1. **Microstroma Cycadis** Allesch. Hedw. 1895, p. 219. — Cæspitulis 4112
candidis, laxiuscule gregariis, hypophyllis, demum fere confluentibus; conidiis ovato-oblongis, 4-6 \times 1-2 $\frac{1}{2}$, non guttulatis, continuis, hyalinis; basidiis subfiliformibus, simplicibus, dense stipatis, hyalinis, 15-20 μ . longis.

Hab. in foliis languidis Cycadis revolutæ in horto bot. monacensi.

Trib. 2. OOSPOREÆ Sacc.

OOSPORA Wallr. — Syll. IV, p. 11, X, p. 512, XI, p. 588.

1. **Oospora Verbasci** E. Rostr. Bot. Tidsskr. 1897, p. 49. — Coni- 4113
diis globosis, 3-5 μ . diam. v. ellipticis, 6-8 \times 2-4.

Hab. in inflorescentiis Verbasci speciosi in Dania.

2. **Oospora Nicotianæ** Pezz. et Sacc. sp. nov. — Candida, minute 4114
cæspitulosa v. effusa, subpulveracea, nitri efflorescentiæ æmula; hyphis filiformibus, repentibus, parce ramosis, septulatis, hyalinis, 2-2,2 μ . cr., denticulos conidiophoros brevissimos hinc inde gerentibus; conidiis in catenulas breves v. brevissimas digestis et mox

secedentibus, globosis, 2,5-3 μ . diam., dein, solutis, subellipsoideis et utrinque breve papillatis.

Hab. in rotulis nicotianeis (*sigari forti o napoletani*) et in foliis Nicotianæ fermentescentibus, Romæ alibique, præcipue tempestate calida et uda, et est valde noxia (A. PEZZOLATO et SPLENDORE) Autumno 1898. — Vulgo audit *floritura, florume. bianco del tabacco*.

3. **Oospora Cascaræ** Sacc. sp. n. — Effusa, velutina v. pannosa, brun- 4115
neo-tabacina; hyphis paucis, brevibus, ramulosis, subcontinuis; conidiis globosis plerumque hinc v. utrinque truncato-apiculatis, 9-10 μ . d., rarius usque 14 μ . diam., levibus, in catenulas brevissimas digestis et mox dilabentibus, plasmate tabacino, granuloso, episporio hyalino.

Hab. in superficie pillularum ex Cascara sagrada (*Rhamnus Purshiana*) compositarum in officina pharmaceutica quadam, Romæ, Nov. 1897 (BRIZI). — Conidia germinando fila mycelica varia gignunt. Ob conidia varie apiculata et polymetrica species ad *Saccharomycetem* nutat.

4. **Oospora Abietum** Oud. Konink. Akad. Wetensch. Amsterdam 1897, 4116
p. 224. — Caspitis rotundatis, subpulvinatis, juxta nervum medianum acuum seriatim dispositis, stomatum situm exacte indicantibus; thallo filamentoso in meatibus intercellularibus celato; hyphis fertilibus, ex stomatum fissura assurgentibus, brevibus, simplicibus; conidiis ellipticis, 10-12 \times 6-7, utrinque rotundatis, hyalinis, continuis, caducis.

Hab. in acubus Abietis excelsæ, Pinsapo, Nordmannianæ et Douglasii in Hollandia.

5. **Oospora Betæ** Delacr. Bull. Soc. Mycol. de France XIII, 1897, 4117
p. 116, tab. LX, fig. E. — Effusa v. caspitos laxissimos efformans; mycelio hyalino, ramoso, granulato, vix septato, 2-2 μ . lato; conidiis longiuscule concatenatis cylindricis, utrinque rotundatis v. subovatis, eguttulatis, 14-16 \times 4-4,5.

Hab. in tuberibus putrescentibus Betæ cultæ, per hiemem, Parisiis Galliæ.

6. **Oospora Alquieri** Delacr. Bull. Soc. Mycol. de France, XIII, 1897, 4118
p. 117, tab. IX, fig. F. — Lanata, alba; mycelio hyalino, septato, ramoso, circiter 5 μ . lato; plasmate guttulato; conidiis in catenas breves summo ramorum dispositis, ovoideo-fusoides, hyalinis, 6-7,5 \times 4.

Hab. in fructibus Musæ, Congo.

7. **Oospora Opoixi** Delacr. Bull. Soc. Mycol. de France XIII, 1897, 4119
p. 121, tab. IX, fig. G. — Cæspitulis albido-griseis, pulveraceis;
mycelio parçissimo, delicatulo; conidiis minimis, 3×1 , hyalinis, in
catenas longas, ramosas digestis.

Hab. in foliis oxidecatis *Zygopetali Mackayii* in calidariis
horti «Luxembourg» Parisiorum Galliæ.

8. **Oospora tomentella** Speg. Rev. Agr. y Veter. La Plata 1896, 4120
p. 243. — Acervulis solitariis v. gregariis, minutis, 0,2-0,5 mm.
diam., superficialibus, pulvinulatis, difformibus, tomentellis, sub-
compactiusculis, candidis; conidiis globosis v. ellipsoideis, $1\frac{1}{2}$ -2 μ .
diam., hyalinis levibus, catenulatis.

Hab. inter folia ægrotantia adhuc convoluta gemmarum Sac-
chari officinarum, prov. Tucuman, Argentina.

9. **Oospora parca** Sacc. Malp. 1898, p. 218, t. VIII, f. 16. — Cæspitulis 4121
superficialibus, gregariis sæpe confluentibus, applanatis, candidis
dein roseolis, byssoideo-velutinis; hyphis sterilibus, repentibus, te-
nerrimis, 1-2 μ . crassis, subcontinuis, parce ramosis ex hyalino ro-
seis, hinc inde denticulos minutissimos conidiophoros exserentibus;
conidiis in catenulas brevissimas digestis et mox secedentibus ob-
longo-ellipsoideis, 3-4 \times 2-3, sæpe inæquilateralibus, dilute-roseis.

Hab. in asseribus putridis udis, Vittorio (Treviso), Sept. 1897.
— Affinis *Oo. hyalinulæ* Sacc., differt ramulis sporiferis brevissi-
mis et conidiorum catenulis oligosporis roseolis.

10. **Oospora lateritia** D. Sacc. Malpighia 1898, p. 218, tab. VIII, 4122
fig. 15. — Cæspitulis pulvinatis, superficialibus, sparsis, velutinis,
1-2 mm. diam., rubro-lateritiis; hyphis sterilibus, repentibus, septu-
latis, parce ramosis, 3-4 μ . cr., hinc inde noduloso-dentatis; ca-
tenulis conidiorum e nodulis oriundis, longiusculis; conidiis cu-
boideo-sphæricis, 4 \times 3-4, dilute cinnabarino lateritiis.

Hab. in foliis putrescentibus et dejectis in horto botanico, Pa-
dova, Martio 1897. — Affinis *Oo. ruberrimæ* Sacc., quæ entomo-
gena, nec non *Oo. cinnabarinæ* (Mart.) Sacc. et Vogl. et *Oo. coc-
cinæ* (Corda) Sacc. et Vogl., quæ tamen parum notæ.

11. **Oospora heterospora** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 470. 4123
— Effusa, tenuis, alba; hyphis sterilibus obscuris vel nullis, fer-
tilibus indistinctis; conidiis oblongo-cylindraceis, obtusis, hyalinis,
5-7 \times $1\frac{1}{2}$ -2, concatenulatis, e cellula basali globosa v. subelliptica
6-8 \times 5-6 metiente oriundis.

Hab. parasitica in *Xylaria polymorpha*, Missouri Amer.
bor. (DEMETRIO).

12. **Oospora Rivaltæ** Sacc. et Syd. Sic dicenda est *Oospora inequalis* (Riv.) Sacc. in Syll. X, p. 513, quum exstet anterior *Oospora inequalis* (Cda.) Sacc. et Vogl. in Syll. IV, p. 15.

FUSIDIUM Link — Syll. IV, p. 25, X, p. 515, XI, p. 589.

1. **Fusidium violaceum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 234. — 4124
Cæspitulis hypophyllis, punctiformibus, subglobois, confluentibus, violaceis, maculas effusas, 4-15 mm. latis formantibus; conidiis cylindraceis, utrinque acutis, hyalinis, continuis v. medio 1-septatis, 30-40 × 1-2.

Hab. in foliis Rubiacæe cujusdam in Æquatoria (LAGERHEIM).

2. **Fusidium Melampyri** E. Rostr. Bot. Tidsskr. 1897, p. 49. — Al- 4125
bidum, tenuiter effusum, hypophyllum; conidiis cylindrico-fusoides, hyalinis, 13-18 × 3-5.

Hab. in foliis Melampyri silvatici in Dania.

3. **Fusidium Peronosporæ** Fautr. et Lamb. Rev. Mycol. 1896, p. 69. 4126
— Hyphis brevissimis, hyalinis, hypo-vel epiphyllis, cum eis *Plasmoparæ Vitis* mixtis; conidiis solitariis v. binis trinis consociatis, ovalibus, oblongis, attenuatis, fusiformibus, hyalinis, simplicibus, 6-13 × 3-4.

Hab. in foliis vivis *Vitis viniferæ* a *Plasmopara Vitis* pervasis in Gallia.

POLYSCYTALUM Riess — Syll. IV, p. 38, X, p. 519.

1. **Polyscytalum Saccardianum** Brizi, sp. nov. in litt. — Mycelio in- 4127
tra baccas effuso, ramoso, filiformi, dein per epidermidem erumpente et cæspitulos albos, pulveraceo-velutinos formante; hyphis fertilibus adscendentibus, totis hyalinis, filiformibus, 2-3-furcatis, in catenulas longas conidiorum abeuntibus; conidiis cylindricis utrinque truncatis, 6-12 × 3-5, hyalinis, eguttulatis.

Hab. in baccis fermentescentibus *Lycopersici* esculenti Romæ, Nov. 1897.

2. **Polyscytalum ? Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 4128
q. 243. — Effusum, superficiale, arachnoideum, candidum; hyphis sterilibus repentibus laxè intricato-ramulosis, septulatis hyalinis, 5-8 μ . diam.; ramis fertilibus hinc inde adsurgentibus erectis, rectis simplicibus plus minusve elongatis, 40-250 × 4-12, basi non v. vix subincrassatis continuis v. septulatis, sursum attenuatis apiceque conidiiferis; conidiis cylindraceis v. fusoides, utrinque at-

tenuatis sed truncato-subrotundatis atque minute 1-guttulatis, 8-14 \approx 2 $\frac{1}{2}$ -4, hyalinis, levibus.

Hab. ad folia juniora languida v. infecta adhuc convoluta Sacchari officinarum, La Plata, Argentina.

MONILIA Pers. — Syll. IV, p. 31, X, p. 516, XI, p. 589.

1. **Monilia fungicola** Ell. et Barth. Erythea 1897, p. 50. — Cæ- 4129
spitulis indumentum crassum cinereum tomentosum formantibus, compositis ex hyphis intricatis hyalinis; hyphis fertilibus ramosis, catenulas conidiorum gerentibus; conidiis subellipticis, hyalinis, 20-30 \approx 15-23.

Hab. in peridio vivo Lycoperdonis gigantei in Kansas Amer. bor. (BARTHOLOMEW).

2. **Monilia penicillioides** Delacr. Bull. Soc. Mycol. de France XIII, 4130
1897, p. 114, tab. IX, fig. B. — Initio albida, effusa, sublanata, dein e cinereo albo-flavida, pulverulenta; mycelio repente, hyalino, septato, granulato; hyphis fertilibus erectis, interdum simplicibus v. sæpius modo umbellæ apice ramosis, ramis ultimis obtusiusculis catenas conidiorum gerentibus; conidiis hyalinis, in massa sublutescentibus, late limoniformibus, maturitati echinulatis, isthmice conjunctis, 6-7 \approx 4,5, junioribus levibus, ovatis v. subpiriformibus, parte superiori attenuata.

Hab. in Gryllo campestri mortuo, Clion (Indre) Galliæ.

3. **Monilia Acremonium** Delacr. Bull. Soc. Mycol. de France XIII, 4131
1897, p. 114, tab. IX, fig. C. — Alba, effusa, leviter floccosa; hyphis repentibus, hyalinis, parce septatis, guttulato-granulatis, 4-5 μ . latis; sporophoris erectis, inter se propinquis, sæpius septatis, catenula conidiorum terminatis; conidiis ovato-piriformibus, basi paulum truncatis, hyalinis, 12-15 \approx 8,5-10, isthmice conjunctis.

Hab. in charta putrida, inter immunditias, Parisiis Galliæ.

OIDIUM Link — Syll. IV, p. 40, X, p. 520.

1. **Oidium Oxalidis** Mc Alp. Roy. Soc. Victoria 1894, p. 219. — 4132
Late effusum, griseum, pulverulentum; hyphis septatis, ramosis, 4-6 μ . crassis; conidiis ovalibus v. cylindræis, granulosis, hyalinis, 31 \approx 12.

Hab. in foliis Oxalis corniculatæ, Victoria Australiæ.

2. **Oidium Cyparissisæ** Syd. Hedw. 1897, p. (163). — Cæspitulis pul- 4133
veracis, laxè effusis, granulosis, albis; hyphis repentibus, ramosis,

non septatis, hyalinis; conidiis numerosis, cylindraceo-ellipticis, utrinque rotundatis, hyalinis, parce granuloso-guttulatis, 35-45 \approx 10-15.

Hab. in fructibus vivis Euphorbiæ Cyparissiæ pr. Berlinam Germaniæ.

Subsect. 2. Macronemeæ SACC.

Trib. 3. CEPHALOSPORIÆ SACC.

ÆDOCEPHALUM Pr. — Syll. IV, p. 47, X, p. 521, XI, p. 590.

1. **Ædocephalum intermixtum** Peck, 50 Rep. p. 116 (1897). — Hy- 4134
 phis fertilibus erectis, simplicibus, continuis v. deorsum obscure 1-2-septatis, hyalinis, 7 μ . cr., apice in vesiculam verruculosam leviter inflatis; conidiis ellipsoideis v. obovatis, levibus, hyalinis, 12-25 \approx 10-15.

Hab. in caulibus emortuis Iridis germanicæ, socio et intermixto *Macrosporio Iridis*, Albany N. Y. Amer. bor.

2. **Ædocephalum Bergii** Speg. Rev. Agr. y Veter. La Plata 1896, 4135
 p. 244. — Effusum, superficiale, arachnoideum, candidum v. subroseum; hyphis fertilibus adsurgentibus, erectis, rectiusculis, magnitudine ludentibus, teretibus, 100-150 \approx 6, parce septulatis, hyalinis, sursum leniter incrassatis atque in parte incrassata, 30-80 \approx 12-14, sterigmatibus patulis laxis, cylindricis, longiusculis, simplicibus, continuis (5-6 \approx 1-5) horridis; conidiis sterigmatibus acrogenis, solitariis, ellipticis v. subovoideis, deorsum non v. vix apiculatis, 10-20 \approx 6-10, hyalinis, levibus eguttulatis; hyphis fertilibus quandoque proliferis, ramis sæpe subverticillatis v. catenulato-impositis; adsunt etiam sæpe sterigmata prolifera et tandem cruciformia.

Hab. ad folia, vaginas, nec non culmos viva, præcipue circa ramulos subputrescentes Sacchari officinarum, prov. Tucuman, Argentina.

HYALOPUS Corda — Syll. IV, p. 51.

1. **Hyalopus Populi** Nypels, Bull. Soc. bot. Belg. 1898, p. 266, f. 13-14. 4136
 — Albo-cinereus; hyphis sterilibus filiformibus, repentibus, fertilibus erectis, simplicibus, continuis, apice in capitulum sphaericum mucilagineum e conidiis conglutinatis formatum abeuntibus; conidiis elliptico-oblongis, 8-11 \approx 3, continuis, hyalinis.

Hab. in vulneribus ramorum Populi moniliferæ, morbo

quodam ulceratis et deformatis, Loth Belgii — Verisimiliter saprophyticus nec parasiticus.

BOTRYOSPORIUM Corda — Syll. IV, p. 54.

1. **Botryosporium Leucostachys** Zopf, Hedw. 1895, p. 220. — Hyphis 4137
fertilibus assurgentibus, repetite dichotomis, septatis, lateraliter
vage ramulosis, albis; ramulis (sporophoris) sparsis, simplicibus,
apice spinulas (basidia) 3, rarius 4 gerentibus; capitulis globosis,
albis; conidiis ellipsoideis, hyalinis, 5-7 \times 3-4.

Hab. in foliis languidis *Smilacis grandifloræ* in calidariis.
München Bavariæ.

2. **Botryosporium hamatum** Bon. - Syll. IV, p. 55. — var. *fimico-* 4138
lum March. Bull. Soc. Roy. Bot. Belg. XXXIV, 1895, p. 138.
— Effusum, initio albidum, denique chlorino-fuligineum; basidiis
ampulliformibus, haud subternatis sed oppositis vel alternis, 8-9 \times
4-4 $\frac{1}{2}$; conidiis globosis, 2-2 $\frac{1}{2}$ μ . diam.

Hab. in fimo equino in Belgio.

ALLANTOSPORA Wakk. Arch. v. de Java Suikerindustr. 1896,
Afd. 18, n. 28, tab. II (Etym. *allas*, *allantos*, botulus et *spora*). —
Hyphæ repentes, conidiophoræ erectæ, septatæ, hyalinæ; conidia
allantoidea, continua v. raro septata, hyalina, muco glomerato-con-
globata. — Genus *Menisporæ*, quoad formam conidiorum, accedit,
sed tota fabrica potius *Botryosporii*.

1. **Allantospora radicolola** Wakk. l. c. et De Ziekten Suiker. Java, 4139
1898, p. 179-181, tab. XXIV. — Biophila; hyphis erectis, conidiophoris
simplicibus v. ramosis; conidiis continuis v. (abnormiter?)
1-2-septatis, 10-28 \times 4. allantoideis, hyalinis, granulosis; hyphis
repentibus gemmiparis.

Hab. in radicibus *Sacchari officinarum* in Java.

CEPHALOSPORIUM Corda — Syll. IV, p. 56, X, p. 523, XI, p. 591.

1. **Cephalosporium asperum** El. March. Bull. Soc. Roy. Bot. Belg. 4140
XXXIV, 1895, p. 134, tab. I, fig. 3. — Cæspitulis griseolis, laxis,
indeterminatis; hyphis sterilibus decumbentibus, flexuosis, ramosis,
400-600 \times 2-4 $\frac{1}{2}$, vix septatis; hyphis fertilibus simplicibus v. rarissime
ramosis, continuis, 15-30 μ . longis, rectis, capitulo sæpius
irregulari, 2-7-sporo, coronatis; conidiis sessilibus v. brevissime
et tenuissime stipitatis. ovoideis v. sublimoniformibus, hyalino-
chlorinis, 4-6 \times 3, 2-3, 7, extus eximie asperulatis.

Hab. ad finum ovinum in Belgio.

2. **Cephalosporium oxysporum** El. March. Bull. Soc. Roy. Bot. Belg. 4141
XXXIV, 1896, p. 135, tab. II, fig. 6. — Candidum; cæspitulis
sparsis, rarius contiguus, densis, $\frac{1}{2}$ -1 mm. diam.; hyphis sterilibus
repentibus, laxis, gracilibus, minutis, intricato-ramosis, hyphis fer-
tilibus erectis v. ascendentibus, subflexuosis, continuis v. 1-septatis
(septo tenui), intus granulosis, apice paulo incrassato-denticuligeris;
conidiis in capitulum laxum, oligosporum digestis, continuis, li-
nearibus, inferne acutis, sursum plerumque obtusis, interdum asym-
metricis, 12-15 \times 2-2,3, initio 1-5-guttulatis, hyalinis, mucō haud
conglutinatis.

Hab. in stercore aprugno in Belgio.

CORETHROPSIS Corda — Syll. IV, p. 62, X, p. 523.

1. **Corethropsis elegans** Speg. Rev. Agr. y Veter. La Plata, 1896, 4142
p. 245. — Superficialis, effusa, subpulverulento-arachnoidea. ten-
uissima, delicatissima, candida; hyphis sterilibus repentibus tenni-
bus (4-5 μ . crass.) septulatis, hyalinis, fertilibus confertiusculis
erectis, rectiusculis simplicibus (60-80 \times 6) continuis concoloribus,
apice abrupte umbellato-verticillatis; ramulis apicalibus v. sterig-
matibus 5-15 capitulatis (capitulo 20-25 \times 20) olavulatis, postice
subattenuatis, antice abrupte rotundato-apiculatis (10-15 \times 5) mo-
nosporis (rarius 2-apiculatis et bisporis); conidiis acrogenis, soli-
solitariis, e globoso ovoideis v. ellipsoideis, 10 \times 8-9, hyalinis, le-
vibus, grosse 1-guttulatis, non catenulatis.

Hab. in foliis ægotantibus adhuc convolutis et ad vaginas sub-
putrescentes culmorum Sacchari officinarum, prov. Tucuman, Argentina.

Trib. 4. ASPERGILLEÆ Sacc.

ASPERGILLUS Mich. — Syll. IV, p. 64, X, p. 524, XI, p. 591.

1. **Aspergillus Delacroixii** Sacc. et Syd., *Aspergillus olivaceus* Delacr. 4143
Bull. Soc. Mycol. de France XIII, 1897, p. 118, c. icone, nec
Preuss. — Effusus, mucedineus, primo albus, demum olivaceus,
capitulis punctatus; mycelio hyalino, repente, septato; hyphis co-
nidiferis erectis, hyalinis, continuis, 150 \times 6, summo in vesiculam
hyalinam, ovoideam, plus minusve inflatam, 8-15 μ . diam., tume-
scentibus; basidiis ovoideis, hyalinis, 6-7 \times 2,5, catenas conidiorum
interdum ramosas, apice gerentibus; conidiis initio hyalinis, dein

subglaucescentibus, denique dilute olivaceis, ovoideis, levibus, 5-6 \approx 3,5-4, distincte isthmice conjunctis. .

Hab. in sinibus cotyledonum seminis *Theobromæ Cacao* in Columbia (DYBOWSKI).

2. ***Aspergillus brunneo-virens*** Delacr. Bull. Soc. Mycol. de France 414
XIII, 1897, p. 120 c. icone. — Pulverulentus, e brunneo virescens
v. olivascens; mycelio hyalino, septato, parco; hyphis fertilibus
erectis, paulum sinuosis, simplicibus, 200 \approx 7-7,5, summo constrictulis atque in vesiculam 10 μ . diam. dilatatis; basidiis cylindraceis, gracilioribus, hyalinis v. glauco-olivaceis; conidiis rotundatis v. subovoideis, levibus, 4-4,5.

Hab. in parte centrali, inter cotyledones seminis *Arachydis hypogææ torrefactæ*, Gallia.

3. ***Aspergillus Wentii*** Wehm. Centralbl. f. Bact. u. Par. II, 1896, 415
p. 149, tab. I. — Mycelio niveo, in matricem penetrante, in maturitate dilute v. obscure brunneo; hyphis sterilibus valde ramosis, septatis, repentibus; fertilibus numerosis, densis, magnis, 3-4 mm. altis, pedicello levi pallido; capitulo 150-300 μ . diam., ex hyalino luteo v. luteo-brunneo, demum brunneo; vesicula levi, globosa, undique sterigmatibus confertis non ramosis radiatim dispositis gracilibus 15 \approx 4 metientibus munita, 75-90 μ . diam.; conidiis regularibus, globosis, minutis, subtiliter verrucosis, 4,2-5,6 μ . diam.

Hab. in Soja in insula Java.

4. ***Aspergillus rufescens*** Berl. Fung. Mor. fasc. VII, t. LIV, f. 8-11. 416
— Cæspitulis primo albis, dein glauco-rufulis, demum lateritio-rufescentibus; hyphis sterilibus repentibus, ramosis; fertilibus erectis, continuis, simplicibus vel parce ramosis, 1-1,5 mm. altis, apice subinde dichotomis, ramis in capitulum globosum inflatis; basidiis simplicibus, crassiusculis, soleæformibus, tristerigmaticis, sterigmatibus minutissimis; conidiis globosis v. ovoideis, episporio crassiusculo muriculatis, 10-12 \approx 10, subhyalinis, catenulatis.

Hab. in cortice vivo radicum *Mori albæ* loco udo servatarum in Italia boreali.

5. ***Aspergillus penicillioides*** Speg. Rev. Agr. y Veter. La Plata, 1896, 417
p. 246. — Effusus, minutus, sordide pallideque virescenti-cinereoscens, hyphis sterilibus repentibus, laxissime araneoso intertextis, superficialibus hyalinis, septulatis gracilibus, 4-5 μ . crass.; hyphis fertilibus erectis, rectiusculis 100 \approx 4-5 diam., basi sæpius septulatis, superne continuis hyalinis, apice obovato v. clavato inflatis (10-12 μ . diam.); vesicula tandem ad partem superam asperula et pe-

nicillato-catenuligera; sterigmatibus minutissimis, oconidio simillimis, ellipsoideis, $3-4 \approx 2\frac{1}{2}$; conidiis e cuboideo globosis, minutis, 3μ . diam., hyalinis levibus catenulas breviusculas, $15-30 \mu$. long., $5-10$ -articulatas efformantibus.

Hab. ad folia nondum evoluta putrescentia Sacchari officinarum prov. Tucuman, Argentina.

6. **Aspergillus argentinus** Speg. Rev. Agr. y Veter. La Plata 1896, 4148 p. 245. — Cespitulis sparsis v. laxissime gregariis, magnitudine indentibus rariis effusis, araneosis, primo albis, dein sordide diluteque cinerulentis; hyphis sterilibus, superficialibus repentibus tenuibus, $5-7 \mu$. diam., laxe ramoso-intricatis, hyalinis septulatis; hyphis fertilibus, caespitulosis v. sparsis, erectis, rectis, rigidulis, $250-2000 \approx 10-15$, continuis, hyalinis, apice vesiculoso-inflatas, vesicula globosa v. ovata, $35-40 \approx 30-40$, minute laxequae asperula; sterigmatibus fusiformibus constipatis parvulis, $8-10 \approx 4$, apice conidiiferis; conidiis catenulatis globosis, superne sensim majoribus, $6-10 \mu$. diam., hyalinis, levibus.

Hab. ad folia culmorum adhuc viventium excisorum et constipatorum Sacchari officinarum, prov. Tucuman, Argentina.

7. **Aspergillus subgriseus** Peck, Bull. Torr. Bot. Club. 1895, p. 210. 4149 — Griseus; hyphis sterilibus repentibus; fertilibus erectis, continuis, simplicibus, 8μ . crassis, apice in vesiculam inflatam subglobosam, $31-40 \mu$. latam desinentibus; sterigmatibus nullis v. obsoletis; conidiis globosis, 4μ . latis.

Hab. parasitice in Corticio amorpho, Newfoundland, Amer. bor. (WAGHORNE).

STERIGMATOCYSTIS Cram. — Syll. IV, p. 71, X, p. 524, XI, p. 593.

1. **Sterigmatocystis pulverulenta** Mc Alp. Agricult. Gaz. of N. S. 4150 Wales. May 1896, p. 4. — Mycelio albo v. sordide luteo, pulverulento; hyphis repentibus gracilibus, septatis, ramosis, hyalinis, $3-6 \mu$. crassis; fertilibus erectis, rigidis, non septatis nec ramosis, flavo-brunneis, sursum attenuatis, usque ad 7 mm. longis, 20μ . crassis, crasse tunicatis, vesiculoso-inflatas; vesicula globosa, subglobosa v. ovali, $80-170 \mu$. diam.; basidiis radiantibus flavo-brunneis, plerumque septatis, incrassatis, usque ad 144μ . longis, 8μ . latis, apice sterigmatibus numerosis, 10 vel pluribus pallide luteis, firmis, oblongis v. subulatis, $14-18 \mu$. longis coronatis; conidiis catenulatis, sphaericis, obscure brunneis v. pallidis, decidue verrucosis, circiter 4μ . diam.

Hab. in foliis fructibusque Phaseoli vulgaris, Victoria Australiæ.

2. **Sterigmatocystis vitellina** Ridley, Journ. of Bot. 1896, p. 152, 4151
tab. 357, fig. 14-16. — Tota lutea, 2-3 cm. alta; hyphis fertilibus numerosis, erectis, aseptatis, 10-12 μ . crassis, fasciculatis, apice in capitulum globosum v. late piriforme, 80-100 v. diam. inflatis; basidiis radiantibus, confertis, anguste clavatis, 15-18 μ . longis, apice fere 4 μ . crassis, sterigmata 3-5 conica gerentibus; conidiis solitariis, subglobosis, apice 4 μ . diam.

Hab. in pericarpio fructus ignoti, Singapore.

PENICILLIUM Link. — Syll. IV, p. 78, X, p. 527, XI, p. 593.

1. **Penicillium italicum** Wehm. Hedw. 1894, p. 211 et in Beiträge 4152
zur Kenntniss einh. Pilze, Jena 1895, p. 68, tab. II; Sacc. Syll. XI, p. 593 (nomen!). — Mycelio effuso, superficiali, repente, ex albido glauco v. griseo-viridi; hyphis gracilibus, erectis, hyalinis, apice alternato-ramosis, 250 μ . longis; sterigmatibus oblongis, 10 \times 3; catenulis conidiorum cylindraceis, demum ellipsoideis; conidiis in cumulo griseo-cœruleis v. glaucis, solitariis subhyalinis, levibus, 4-5 \times 2-3.

Hab. in fructibus Citri Aurantii et C. deliciosæ, ex Messina Siciliæ, quibus putrescentiam inducit. Habitus *P. glauci*, sed conidia ellipsoidea, majora etc.

2. **Penicillium olivaceum** Wehm. in Beiträge zur Kenntniss einh. 4153
Pilze, Jena 1895, p. 73, tab. II. — Mycelio superficiali v. inter-cellulari, repente, ex niveo dilute olivaceo; hyphis gracilibus, erectis, hyalinis, plus minus regulariter ramosis, 200-250 μ . longis, capitulo 36 μ . longo; sterigmatibus paucis vel numerosis, 14 \times 3; conidiis difformibus, plerumque ellipsoideis, levibus, hyalinis, in cumulo olivaceis, 6-7 \times 4, raro 10 \times 6.

Hab. in fructibus adhuc veretis Citri Aurantii, C. Limonum, C. medicæ et C. deliciosæ in Germania. — Habitus *P. glauci* et *P. lutei*, sed conidia majora etc.

3. **Penicillium platense** Speg. Rev. Agr. y Veter. La Plata 1896, 4154
p. 246. — Cæspitulis minutis, subhemisphæricis, 350-500 μ . diam., erumpenti-superficialibus, plus minusve dense gregariis, glaucovirescentibus, velutinis; hyphis sterilibus matrici adnatis v. innatis repentibus, ramulosis, septatis, hyalinis, gracilibus, fertilibus fasciculatim exsurgentibus, penicillatim radiantibus erectis rectiusculis 100-150 \times 3-4, continuis, sub lente hyalinis levibus, superne non v.

vix inflatulis, apice abrupte truncatis atque ramulis 7-12 verticillatis coronatis; ramulis erectis, antice modice attenuatis, $20 \approx 3-3\frac{1}{2}$, apice rotundatis atque catenulas conidiorum longiusculas gerentibus; conidis globosis, minutis, $2-2\frac{1}{2}$ μ . diam., hyalino-chlorinis, levibus.

Hab. in pagina inferiore vaginarum ad internodia infera subputrescentia Sacchari officinarum, prov. Tucuman, Argentina.

CITROMYCES Wehm. Beitr. z. Kenntn. einheim. Pilze I (1893) p. 21.

— Syll. XI, p. 593. — Hyphæ fertiles simplices, tenellæ, apice plus minus globoso- v. clavato-inflatæ, sterigmata pauca, fere verticillatim et succedaneæ ex vesicula nascentiæ, cylindrico-acuta. Conidia catenulata, minuta, globulosa. Videtur genus intermedium inter *Aspergillum* et *Penicillium*, sed cum hæc pro loci natura maxime varient, novus typus ulterius inquirendus est.

1. **Citromyces Pfefferianus** Wehm. l. c. t. I, fig. 1-13. — Hyphis 415
sterilibus hyalinis, septatis, effusis et erectis, ramosis; hyphis fertilibus simplicibus v. ramosis vix v. raro septatis, $70 \approx 3$. apice in vesiculam clavatam 4-8 μ . latam plus minus inflatis; sterigmatibus simplicibus hyalinis (5-10) apice acutis, difficile dilabentibus, $9-14 \approx 2-4$; capitulo conidiophoro penicilliformi; conidiis globosis, catenulatis, copiosis, virescentibus, dein cinereis, $2.5-3$ μ . diam.

Hab. in fructibus putrescentibus Citri medicæ, in solutione Sacchari et acidi citrici, Leipzig. Hannover, Thann Alsatiæ. — Receptacula ascogena dubia, globosa, alba v. flava, 2-9 mm. d.

2. **Citromyces glaber** Wehm. l. c. p. 24, t. I, fig. 14-24. — A specie 415
præcedente tantum recedit pulvinulis densius contextis et superficie fere glabris, nec gossypinis; conidiis copiosius formatis, citius virentibus; vesicula conidiophora usque 15 μ . diam.; ceteræ notæ simillimæ.

Hab. in iisdem substantiis ubi præcedens. In Oryzæ granis coctis cultus, colorem flavum inducit et aciditatem fortiorem gignit quam præcedens.

GLIOCLADIUM Corda — Syll. IV, p. 84, X, p. 528, XI, p. 594.

1. **Gliocladium macropodinum** El. March. Bull. Soc. Roy. Bot. Belg. 4157
XXXIV, 1895, p. 105, tab. I, fig. 6. — Cæspitulis albis, delictulis; hyphis sterilibus tenuibus, flexuosis, repentibus, fertilibus erectis, validis. 3-4-septatis, 350-400 \approx 14-16, capitulum mucosum albidum ferentibus; basidiis pluries divisus; conidiis conglutinatis,

hyalinis, 9-11 \approx 2-2 $\frac{1}{2}$, oblongis, continuis, episporio levi, intus guttulatis.

Hab. in fimo Macropodis in Belgio.

Trib. 5. BOTRYTEÆ Sacc.

PHYSOSPORÆ Fr. — Syll. IV, p. 88, X, p. 530.

1. **Physospora elegans** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, 4158
p. 44, tab. III, fig. 23, nec Cav. — Cæspitulis effusis, tenuibus, flocculosis, dein pulverulentis, dilute ochraceis; hyphis longis, gracilibus, repentibus, septatis, dilute ochraceis, vage iteratoque ramosis intricatisque, ubique vesiculas breves erectas inflatas exserentibus; vesiculis ellipsoideis, obovoideis v. irregularibus, 14-20 \approx 9-12, apice sterigmata brevia plerumque bina gerentibus; conidiis globosis, ochraceis, 16-20 μ . diam.

Hab. in truncis putridis Quercus, Ohio Amer. bor. — A typo *Physosporæ* valde recedens, probabiliter novum genus sistit cum *Hypochno* comparandum, hinc mutatio nominis superflua.

RHINOTRICHUM Corda — Syll. IV, p. 91, X, p. 531.

1. **Rhinotrichum herbicolum** E. et D. Proc. of the Canad. Inst. 1897, 4159
p. 90. — Effusum, luteolum; denique centro brunneum; hyphis ramosis, septatis, subhyalinis, 8-10 μ . cr.; hyphis fertilibus sursum subundulatis, apice inflatulis; conidiis globosis, subhyalinis, leviter echinulatis, 7-9 μ . diam.

Hab. in caulibus emortuis Solidaginis canadensis, London, Canada. — Differt a *R. Curtisii* hyphis crassioribus et conidiis minoribus echinulatis.

2. **Rhinotrichum Coliolum** Pound et Clem. Bot. Survey of Nebraska 4160
IV, Lincoln 1896, p. 5. — Effusum, compactum, velutinum, griseum v. flavo-griseum; hyphis adscendentibus, ramosissimis, hyalinis, tortuosis, pluriseptatis, 5 μ . latis, basidiis lageniformibus dense obsessis; basidiis 7-8 \approx 3-4, plerumque oppositis, raro alternatim dispositis; conidiis breve stipitatis, hyalinis, ovoideo-ellipticis, 3-5 \approx 2-3.

Hab. in Myxomycete quodam, Nebraska Amer. bor.

3. **Rhinotrichum pariotinum** Sacc. Atti d. Soc. Ven. — Trent. di Sc. 4161
Nat. 2 ser. 2 vol. 2 fasc., 1896, p. 478 et Bull. Soc. Myc. de Fr. 1896, p. 79, t. VII, fig. 2. — Late effusum, pannoso-velutinum, ubique cremoum; hyphis sterilibus repentibus, vage ramosis septatis, 5-6 μ . crassis, fertilibus patentibus, rectis, 45 \approx 4,

uniseptatis, simplicibus, rarius furcatis, sursum remotiuscule, acute denticulatis; conidiis ellipsoideis, basi apiculatis, 9-11 \times 6-7, hyalinis.

Hab. in parietibus udis, calceis calidariorum horti bot. Patavini, Italia. — Affine *Rh. corticioidi*, sed hyphis fertilibus non moniliformibus nec hypha sterili crassioribus.

SPOROTRICHUM Link — Syll. IV, p. 96, X, p. 532, XI, p. 594.

1. **Sporotrichum crassipilum** Karst. Hedw. 1896, p. 48. — Cæspitulis 4162
effusis, velutinis, denique pulveraceis, olivaceo-griseis, crassiusculis; hyphis repentibus articulatis, 5-10 μ . crassis; conidiis copiosis, sphaeroideis, hyalinis, 2-5 μ . diam.

Hab. ad fructus putres Cucurbitæ, Mustiala Fennicæ.

2. **Sporotrichum parvulum** P. Brun. Act. Soc. Linn. Bordeaux 1898, 4163
p. 18 extr. — Cæspitulis minutissimis, griseo-albescentibus, gregariis; conidiis numerosissimis, hyalinis, minutissimis, 2-2½ μ . d.

Hab. in foliis dejectis Viburni Tini, La Rochelle Gallicæ.

3. **Sporotrichum ambiguum** Karst. Hedw. 1896, p. 48. — Cæspitulis 4164
longitudinalibus effusis, velutinis, griseo-fuscis; hyphis repentibus, articulatis, ramosis, flavidis (sub lente), ca. 3 μ . crassis; conidiis ovalibus, eguttulatis, hyalinis, 6-8 \times 4-5.

Hab. in ligno vetusto in ins. Mjölö pr. Helsingforsiam Fennicæ.

— Ad *Trichosporium* vergit.

4. **Sporotrichum floccosum** Bres. Hedw. 1896, p. 301. — Late ef- 4165
fusum, albo-stramineum, floccosum; hyphis repentibus ramosis, 4-6 . latis, in ramos laterales, septatos, strictiores abeuntibus; conidiis acrogenis v. lateralibus, hyalinis, deorsum apiculatis, 14-16 \times 7-9.

Hab. ad corticem arborum pr. Blumenau Brasiliæ (MÖLLER).

5. **Sporotrichum arabicum** Masee, Journ. of Bot. 1896, p. 153. — 4166
Olivaceo-brunneum, velutinum, mox pulverulentum, mycelio pallido radiato limitatum; hyphis sterilibus repentibus, ramosis, parce septatis, hyalinis, 4-5 μ . crassis; fertilibus adscendentibus, septatis, apicem versus ramulis subfasciculatis brevibus dense septatis ornatis; conidiis solitariis, terminalibus, fusoides, basi truncatis, apice apiculatis, levibus, pallide olivaceis, 6 \times 3.

Hab. in inflorescentiis Phœnicis dactyliferæ parasitans, in Arabia.

6. **Sporotrichum niveum** Allesch. et P. Henn. Hedw. 1897, p. 243. 4167
— Effusum, niveum; hyphis repentibus, ramosis, valde intricatis, hyalinis, continuis; conidiis globosis, hyalinis, 3½ μ . diam.

Hab. ad *Hymenophyllum Bridgesii* pr. Concepcion in Chile (NEGER).

7. **Sporotrichum Araneorum** Cav. Fung. Longob. V, n. 240. — 4168

Candidum, gossypinum, araneorum corpus et artuum articulationes tegens; hyphis laxè intricatis, pertenuibus, 0,6-0,7 μ . latis, monopodica ramificatione præditis, albis; conidiis ad ramulorum apicem solitarie insertis, ellipticis, minimis, $2\frac{1}{2}$ -3 \approx 0,5, hyalinis.

Hab. ad Araneas, fortasse parasitans, in Italia bor.

8. **Sporotrichum entomophilum** Peck, 50 Rep. p. 116. — Hyphis tenuissimis, vix 3 μ . cr. ramosis, stratum album tomentosum tenue formantibus; conidiis subellipticis, 4-5 μ . long. 4169

Hab. in larvis *Galerucellæ luteolæ* ad folia Ulmi, Albany, Amer. bor. (J. A. LINTNER).

9. **Sporotrichum Allescheri** Sacc. et Syd. Sic dicendum est *Sporotrichum obducens* Allesch. in Syll. XI, p. 595, quum exstet antèrius *Sporotrichum obducens* Link in Syll. IV, p. 97.

MONOSPORIUM Bon. — Syll. IV, p. 113, X, p. 535.

1. **Monosporium stilboideum** Sacc. Atti d. Soc. Ven.-Trent. di Sc. 4170

Nat. 2 ser. 2 vol. 2 fasc. 1896, p. 497, tab. I, n. 12 et Bull. Soc. Myc. de Fr. 1896, p. 79. — Mycelio velutino, tenerrimo, late effuso, ex albo sordide rubescente, modo siromata clavata, usque 1 mm. alta, glabra, albida, dein sursum rubro-brunnea, modo cæspitulos depresso pulvinatos efformante; hyphis fertilibus assurgentibus, filiformibus, 3-4 μ . crassis, spurie septulato-guttulatis, sursum parce et inæqualiter patenti-ramosis; conidiis acropleurogenis, eximie sphericis, levibus, 24-28 μ . diam., intus minute crebre guttulatis, hyalinis.

Hab. in epicarpio fructuum putridorum Luffæ in horto bot. Patavino, Italia. — Ob mycelium nunc effusum, nunc coremioideo-coalescens, nec non ob conidia, præ hyphis, maxima, species prædistincta.

2. **Monosporium Galanthi** Oud. Konink. Akad. Wetensch. 1897, p. 462. 4171

cum fig. — Cæspitibus minutis, late effusis, primitus candidis, conidorum maturitate absoluta vero cinereis vel fusciscentibus; hyphis omnibus achromis, articulatis, ramosis, repentibus intermixtis in retia coalitis, erectis semel v. pluries sed parce ramosis; ramis axi primario, ut videtur, brevioribus, spiraliter dispositis, curvatis, curvatura concava axi primario opposita, omnibus conidio solitario terminatis; conidiis substipitellatis, late ovalibus v. late

obovatis, levissimis, primitus achromis, postea per varios gradus ad fulvum vergentibus, 25-30 \approx 20.

Hab. in foliis *Galanthi nivalis* in Hollandia.

BOTRYTIS Mich. — Syll. IV, p. 116, X, p. 536. XI, p. 596.

1. **Botrytis Pæoniæ** Oud. Konink. Akad. Wetensch. Amsterdam 1897, 4172
p. 464, cum fig. — Mycelio in plantarum parenchymate abscondito, hyphas erectas juxta stomatum fissuram protrudente (?); hyphis erectis numerosissimis, æqualiter in stratum continuum accumulatis, non cæspitosis, $\frac{1}{4}$ -1 mm. altis, sursum ramosis; ramis 3 ad 5 spiraliter dispositis, sub angulo 45 gr. patentibus, simplicibus aut sursum semel vel pluries divisis, articulo ultimo in vesiculam globosam vel plano-convexam (minime elongatam) muriculatam dilatato; conidiis plurimis in glomerulos transverse 12-15 μ . metientes aggregatis, oblongis v. oblongo-ovatis (neque sphaeriom nec ellipticis nec ovatis), 16-18 \approx 7-7 $\frac{1}{2}$. achromis aut dilutissime tinctis, sterigmatum subtilissimorum ope vesicularum terminalium superficiei infixis.

Hab. in foliis caulibusque *Pæoniæ* spec. in Hollandia.

2. **Botrytis Ellisii** Sacc. et Syd. *Botrytis olivacea* Ell. et Ev. Field 4173
Columb. Mus. IX, 1896, p. 88. — Cæspitulis tenuibus, olivaceis, 2-4 cm. longis latisque; hyphis olivaceis, septatis, circiter 4 μ . crassis, superne dichotomo-vel opposito-ramosis, ramis brevibus superne subattenuatis; conidiis obovatis v. ellipticis, olivaceis, 6-8 \approx 4-4 $\frac{1}{2}$.

Hab. in ligno emortuo in Virginia Amer. bor. (NUTTALL).

3. **Botrytis angillacea** Cooke - Syll. IV, p. 125. — var. **Avicenniæ** 4174
Mc Alp. Proc. N. S. Wales 1897, p. 701, t. 27-28. — A typo differt hyphis brevioribus, paullo densioribus; conidiis ovato-oblongis, pallide flavis, 9 $\frac{1}{2}$ -11 \approx 4-5 $\frac{1}{2}$.

Hab. ad corticem *Avicenniæ* officinalis, Balline Australiæ.
— Nascitur e stromate tuberculari *Hypoxyli* speciei adhuc imperfectæ.

4. **Botrytis fulgens** El. March. Bull. Soc. Roy. Bot. Belg. XXXIV, 4175
1896, p. 137, c. icone. — Effusa, bombycina, rubra; hyphis sterilibus repentibus, elongatis, plus minus intertextis, vage ramosis, remote septatis, 3-5 μ . crassis; hyphis fertilibus assurgentibus, 8-12 μ . diam., superne septato-articulatis, hyalino-roseis et sæpius dichotome ramosis; conidiis e ramulis apicalibus oriundis, globosis, 15-19 μ . diam., rubris, argute asperulatis.

Hab. in ascomatibus *Ascophani carnei* ad fimum anserinum in Arduennis.

5. *Botrytis muscaria* Trog, Mittheil. nat. Gesell. Bern. 1857, p. 44. 4176
— Cæspitulis sordide albis, compactiusculis, inter segmenta abdominis sitis, dein pulvereis; conidiis copiosis, basidiis clavatis suffultis, diffluentibus.

Hab. in *Musca domestica*, quam necat, in Helvetia. — Certe *Empusa*. Citavimus ut synonymon novum innotescat.

6. *Botrytis papyrogena* Ell. et Barth. Erythea 1897, p. 50. — Pul- 4177
vinata vel sphaericeformis, atra, punctiformis vel usque ad 1 mm. diam.; hyphis irregulariter ramosis, gracilibus; conidiis minutis, 3 μ ., subglobosis, prope apices profuse congregatis.

Hab. in charta crassa putri in Kansas Amer. bor. (BARTHOLOMEW). — *B. fuliginosæ* Cke. et Ell. proxima, sed cæspitulis pulvinatis et hyphis brevioribus diversa.

7. *Botrytis Douglasii* Tub. Pflanzenkrankh. p. 283 et Behrens in 4178
Zeitschr. Pflanzenkr. 1895, p. 136.

Hab. in turionibus *Pseudotsugæ Douglasii* cultæ in Germania. — Turiones arescunt et fuscescunt, tunc *Sclerotia* magnitudine capitis aciculæ formantur, ex quibus *Botrytis* oritur, certe *B. vulgari* peraffinis.

OVULARIA Sacc. — Syll. IV, p. 139, X, p. 540, XI, p. 597.

1. *Ovularia Cucurbitæ* Sacc. Bull. Soc. Myc. de Fr. 1896, p. 71, 4179
tab. VII, fig. 1. — Maculis amphigenis, subrotundis, sordide mel-
leis, fusco-marginatis; cæspitulis sæpius hypophyllis, exiguis, pal-
lidis; conidiis ovato-oblongis, basi breviter apiculatis, 13-15 \times 5,
nubilosis et interdum etiam biguttatis, hyalinis; hyphis cylindra-
ceis, tortuosis, 20-30 \times 3, continuis, hyalinis.

Hab. in foliis *Cucurbitæ Peponis* cultæ, Italia superior.

2. *Ovularia Gei* Eliasson, Fungi Upsalienses in Bich. K. Sv. Vet.- 4180
Akad. Handl. Bd. XXII, Afd. III, n. 12, 1897, p. 19, fig. 5. —
Maculis subcircularibus, amphigenis, brunneo-griseis, obscuriore
marginatis; cæspitulis amphigenis, parvis, gregariis, cinereis; hy-
phis dense fasciculatis, simplicibus, sursum acutioribus; conidiis
apicalibus, 10-25 \times 3-6, continuis vel interdum 1-septatis, hyalinis,
utrinque rotundatis, rectis.

Hab. in foliis vivis *Gei* urbani pr. Kungshanin in Suecia.

3. *Ovularia lotophaga* Ell. et Ev. Proc. Acad. Philad. 1895, p. 437. 4181
— Maculis irregularibus v. suborbicularibus, 2-3 mm. diam., gri-

- seo-brunneis, anguste obscureque marginatis; hyphis subfasciculatis, hyalinis, continuis, simplicibus v. parce ramosis, 15-25 \times 2 $\frac{1}{2}$ -3, sursum subgeniculatis; conidiis subglobosis v. obovato-globosis, 7-9 \times 5-7.
- Hab.* in foliis vivis Loti Torreyi, California (BLASDALE).
4. **Ovularia ? globifera** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 471. 4182
— Maculis hypophyllis, orbicularibus, 4 mm. diam., luteolis, margine peritheciis nigris, erumpentibus (immaturis) præditis; cæspitulis hypophyllis, effusis, centrum macularum colore olivaceo-griseo tingentibus; hyphis clavatis, fumoso-hyalinis, 20-25 \times 4-6; conidiis globosis, 8-10 μ . diam., episporio crasso subechinulato.
- Hab.* in foliis Lupini Stiversi, California (DAVIS).
5. **Ovularia rhamnigena** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 471. 4183
— Maculis amphigenis, 1-2 mm. diam., suborbicularibus, ferrugineis, obscure marginatis; hyphis hypophyllis, cæspitosis, erectis, hyalinis, continuis, supra geniculatis, simplicibus, 35-45 \times 3; conidiis anguste ellipticis, granulosis, hyalinis, basi subacutis, apice obtusis, 12-20 \times 5-7, continuis.
- Hab.* in foliis Rhamni tomentellæ, Oregon Amer. bor. (DAVIS).
6. **Ovularia Saxifragæ** E. Rostr. Botan. Tidskr. XX, 1896, p. 158. 4184
— Maculis epiphyllis, minutis, dilute fuscis, apicem versus foliorum; hyphis numerosis, longis, vage ramosis, 3 μ . crassis; conidiis oblongis, hyalinis, 5-6 \times 2.
- Hab.* in foliis Saxifragæ cæspitosæ in ins. Feroensibus (Faröer).
7. **Ovularia Inulæ** Sacc. — Syll. IV, p. 141. — forma **major** P. Brun. 4185
Act. Soc. Linn. Bordeaux, 1890, p. 46 extr. — Maculis angulosis v. irregularibus, purpureis; conidiis oblongis v. ovoideo-oblongis, utrinque rotundatis, granulosis, hyalinis, 18-20 \times 4-4 $\frac{1}{2}$.
- Hab.* in foliis Inulæ dysentericæ, Fouras Galliæ.
8. **Ovularia abscondita** Fautr. et Lamb. Rev. Mycol. 1896, p. 144. 4186
— Maculis pallidis, pergameneis, demum totum folium occupantibus; cæspitulis minutis; hyphis hyalinis, simplicibus v. breve uniramosis, interdum denticulo terminatis; conidiis initio ovoideis, 8-10 \times 3, denique cylindræis, attenuatis, usque ad 15 μ . longis.
- Hab.* in foliis Lappæ majoris in Gallia.
9. **Ovularia conspicua** Fautr. et Lamb. Rev. Mycol. 1895, p. 169. 4187
— Maculis numerosis, aridis, brunneo-marginatis; cæspitulis sim-

plicibus; hyphis hypophyllis, curvatis, 30-40 μ . longis; conidiis simplicibus, ovalibus, 12-16 \times 6-8.

Hab. in foliis *Cirsii eriophori* in Gallia.

10. *Ovularia Vossiana* (Thüm.) Sacc. — Syll. IV, p. 141. — **O. jubata-* 4188
kana Sacc. *Malpighia* 1896, p. 276, tab. VI, fig. 8. — *Acervulis*
hypophyllis, late effusis, cinerescentibus; hyphis 45 \times 4, fasciculatis,
erectis, sursum denticulatis; conidiis majoribus (quam typi), ovoi-
deis, 15 \times 7.

Hab. in foliis languidis *Cardui crispi* in Sibiria.

11. *Ovularia bullata* Ell. et Ev. *Bull. Torr. Cl.* 1897, p. 471. — 4189
Maculis epiphyllis, ferrugineis; *cæspitulis* hypophyllis, definitis,
nervis limitatis; hyphis fertilibus fasciculatis, simplicibus, 10-12 \times
3-3 $\frac{1}{2}$; conidiis ovato-globosis, 8-12 \times 6-8, continuis, granulosis,
hyalinis, interdum oblongo-ellipticis et 20-22 \times 8-10 metientibus.

Hab. in foliis *Stachydis bullatæ*, California (DAVIS).

12. *Ovularia Rumicis* Eliasson, *Fungi Upsalienses* in *Bih. K. Sv.* 4190
Vet. - Akad. Handl. Bd. XXII, Afd. III, n. 12, 1897, p. 18, fig. 6.
— *Maculis* circularibus v. ellipticis, amphigenis, ochraceis, brunneo-
purpureo-marginatis; hyphis fasciculatis, continuis, sursum denti-
culatis et conidia gerentibus, 20-25 \times 3; conidiis elongato-cylin-
draceis, utrinque acutatis, hyalinis, continuis, 15-25 \times 2-3.

Hab. in foliis vivis *Rumicis crispi* in horto bot. Upsaliensi
in Suecia.

13. *Ovularia canægricola* P. Henn. in litt. *Ovularia obliqua* (Cke.) 4191
Oud. var. canægricola P. Henn. *Notizbl. Königl. bot. Gart. u.*
Mus. Berlin. 1897, n. 7, p. 238. — *Maculis* pallide flavis v. dilute
brunneis, centro pallidioribus, sæpe albidis, pellucidis, $\frac{1}{2}$ -2 cm.
diam., luteo-virescenti-marginatis; *cæspitulis* hypophyllis, nume-
rosis, albidis, farinaceis; hyphis hyalinis, basi fasciculato-conjun-
ctis, erectis, simplicibus, raro ramosis septatisque, sæpe subtorulo-
sis, usque ad 80 μ . longis, 4-5 μ . latis; conidiis oblongo-ovoideis,
sæpe subclavatis, raro ellipticis, levibus, hyalinis, intus granulosis,
15-24 \times 8-11.

Hab. in foliis vivis v. languidis *Rumicis hymenosepali*
(*Canaigre*) in horto botanico Berolinensi, Germania.

14. *Ovularia salicina* Vestergr. *Bihang. K. Svenska V. A. Handl.* 4192
XXII, Afd. III, n. 6, 1896, p. 23. — *Maculis* amphigenis, vio-
laceis, nervis sæpe limitatis; hyphis in fasciculos sparsos, hypo-
phyllos, ca. 70-100 \times 25, hyalinos v. præsertim prope basim lu-
teolos collectis, ca. 3 μ . latis, sursum denticulatis; conidiis e den-

ticulis oriundis, ovoideo-ellipsoideis, utrinque rotundatis v. obtuse apiculatis, 9-16 \times 5-7. granulosis, hyalinis.

Hab. in foliis vivis Salicis cineræ in Gotlandia, Suecia.

ACROSPIRA Mont. VIII, Cent. pl. cell. in Ann. Sc. nat. 1857, p. 299 (Eym. *acros* extremus et *speira* spira). — Hyphæ simplices, mucedineæ, limpide, hyalinæ, septatæ, e gelatina granulosa conglutinante undique irradiantes, apice in conidia concatenata spiraliter involuta, dein soluta abeuntes. — Gen. *Acrospeira* B. et Br. (eodem anno conditum!) peraffine est, sed non videtur identicum.

1. **Acrospeira Crouani** Mont. l. c. — Mollis, subgelatinosa, alba; hyphis simplicibus v. furcatis circ. 100 \times 3-4, parte sporifera helicoidæa 40-50 μ . longa; conidiis sæpe ovoideis (an intra articulos hypharum evolutis?).

Hab. in ima basi caulium Angelicæ silvestris, primo vere, circa Brivatem (Brionde) Galliar.

SEPEDONIUM Link — Syll. IV, p. 146, X. p. 513.

1. **Sepedonium tuberculiferum** Ell. et Ev. Americ. Natur. 1897, p. 430. 4194 — Cæspitulis tenuibus, effusis, dein pulveraceis et serius luteolis; hyphis fertilibus demum dichotomo-, trichotomo-vel verticillato-ramosis, ramis lanceolatis, 20-50 \times 2-2 $\frac{1}{2}$; conidiis globosis, 15-18 μ . diam.; verrucis 8-10, globosis, hyalinis, levibus, 6-7 μ . diam. et interdum dilabentibus.

Hab. parasiticum in *Peziza hemisphærica* et *P. fusicarpa* in W. Virginia Amer. bor. (NUTTALL).

Trib. 6. VERTICILLIÆ Sacc.

VERTICILLIUM Nees — Syll. IV, p. 150, X, p. 545, XI, p. 599.

1. **Verticillium osteophilum** Ell. et Ev. Field Columb. Mus. IX, 1896, 4195 p. 89. — Hyphis sterilibus prostratis, luteolo-brunneis, distanter septatis, asperatis, 6-7 μ . diam.; hyphis fertilibus laxè cæspitosis, erectis, septatis, levibus, luteolo-hyalinis, 7-15 μ . diam.; ramulis primariis alternis, secundariis oppositis v. ternato-verticillatis; conidiis 1-4, globosis, hyalinis, 3 $\frac{1}{2}$ -4 μ .

Hab. in ossibus bovinis in W. Virginia Amer. bor. (NUTTALL).

ACROSTALAGMUS Corda — Syll. IV, p. 163, XI, p. 600.

1. **Acrostalagmus penicillioides** Bandu. Jahresh. d. Schles. Ges. f. 4196 Vaterl. Cultur. Zool. Bot. Sect. 1894, p. 90 (nomen!).

Hab. in limo canalium ad Breslau Germaniæ; in laboratorio cultus.

CLONOSTACHYS Corda — Syll. IV, p. 165, X, p. 547.

1. **Clonostachys Theobromæ** Delacr. Bull. Soc. Mycol. de France XIII, 4197
1897, p. 114, tab. IX, fig. A. — Albus, effusus, subpulverulentus; hyphis sterilibus repentibus, hyalinis, circiter 5 μ ., septatis, fertilibus erectis, ramis primariis plerumque ternatis, secundariis quaternatis, tertiariis, ubi adsunt, binis v. ternatis, acutatis; conidiis cylindraceutis, utrinque rotundatis v. elongato-ovoideis, hyalinis, 7 \times 2, circa hypham secundum quatuor series ordinatis.

Hab. in fructibus Theobromæ Cacao in Columbia (DUBOWSKI).

Sect. 2. Didymosporæ.

CEPHALOTHECIUM Corda — Syll. IV, p. 180, X, p. 549.

1. **Cephalothecium roseum** Corda — Syll. IV, p. 181 — var. **arthro-** 4198
botryoides Berl. Fung. moric. fsc. V, n. 17, tab. 56, fig. 1-3. — Cæspitulis velutinis, effusis, roseis; hyphis fertilibus erectis apice vesiculoso-denticuligeris, passim ad medium vel infra apicem noduloso-denticuliferis, 150-200 \times 5-7; conidiis ovoideo-elongatis basi apiculatis, 1-septatis, 20-22 \times 9-10, dilutissime roseis.

Hab. in ligno putri udo Mori albæ in agro Patavino. A typo hyphis capitato-denticuligeris differt.

DIPLOCLADIUM Bon. — Syll. IV, p. 176.

1. **Diplocladium penicillioides** Sacc. — Syll. IV, p. 177 — var. **Cla-** 4199
variarum Pat. Cat. rais. pl. cell. Tunisie, 1897, p. 130. — Cæspitulis dein roseis vel violaceis; conidiis hyalinis, uniseptatis, vix leniter constrictis, inferne attenuatis, 23-26 \times 8-10.

Hab. in Clavaria cinerea in Tunisia.

ARTHROBOTRYS Corda — Syll. IV, p. 181.

1. **Arthrobotrys chilensis** Allesch. et P. Henn. Hedw. 1897, p. 243. 4200
— Cæspitulis minutis, hypophyllis, gregariis, rotundatis, olivaceo-nigris; hyphis erectis, nodulosis, nodulis verrucosis, olivaceis, 6-11 μ . crassis; conidiis obovoideis, uniseptatis, apice rotundatis, deorsum attenuatis, 25 μ . longis, 15 μ . crassis, olivaceis.

Hab. in foliis *Viciae nigrescentis* in Andibus chilensibus (NEGER).

MYCOGONE Link — Syll. IV, p. 183, X, p. 550, XI, p. 600.

1. *Mycogone cinerea* Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 4201
1895, p. 45, tab. III, fig. 24. — Cæspitulis effusis, tenuibus, initio albis flocculosisque, dein cinereis v. argillaceis, pulverulentis; hyphis gracilibus, hyalinis, ramosis, intricatis; ramulis brevibus, apice conidia gerentibus; conidiis 15-20 μ . longis, inæqualiter bilocularibus, loculo superiore majore, cinereo, dense spinuloso, 13-17 μ . diam., inferiore hyalino, 5-8 μ . diam.

Hab. parasitica in *Helvella elastica*, Ohio Amer. bor.

2. *Mycogone rosea* Pound et Clem. Bot. Surv. of Nebraska. IV, 4202
Lincoln 1896, p. 6. — Late effusa, totum substratum occupans, 300-500 μ . crassa, primo alba, dein rosea v. raro pallide lateritia; hyphis hyalinis, septatis, erectis, ramosis, 3-4 μ . latis; conidiis lateralibus, sæpe nutantibus, breviter pedicellatis, didymis, 20 \approx 15, loculo superiore majore, dense echinulato, globoso, pallide lateritio, 12-15 μ ., loculo inferiore subhyalino v. pallide roseo, minute parceque punctulato, 8-9 μ .

Hab. in *Helvella albipede* parasitans in Nebraska Amer. bor.

DIDYMARIA Corda — Syll. IV, p. 184, X, p. 550, XI, p. 601.

1. *Didymaria Symphoricarpi* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4203
p. 471. — Maculis irregularibus, 2-4 mm. diam., interdum confluentibus, sordide brunneis, margine concolori; hyphis amphigenis, plerumque hypophyllis, cæspitosis, hyalinis, simplicibus, continuis, 10-12 \approx 3-3 $\frac{1}{2}$; conidiis terminalibus, ovato-ellipticis, 1-septatis, vix vel leniter constrictis, hyalinis, 15-22 \approx 6-9.

Hab. in foliis *Symphoricarpi*, California (DAVIS).

2. *Didymaria aquatica* Starb. Bot. Centralbl. 1895, Bd. 64, p. 382. — 4204
Maculis forma variis, sæpissime suborbicularibus, confluentibus, amphigenis, e fusco griseis, fusco-marginatis; hyphis non manifestis; sporulis rectis, fuscoideis, utrinque obtusiusculis, 10-19 \approx 4-5.

Hab. in foliis *Alismatis Plantaginis* in Suecia.

Sect. 3. Phragmosporæ.

RAMULARIA Ung. — Syll. IV, p. 196, X, p. 553, XI, p. 601.

1. **Ramularia Hellebori** Fekl.-Sacc. Syll. IV, p. 200. — var. *nigricans* 4205
Massal. Bull. Soc. Bot. Ital. 1897, p. 30. — *Cæspitulis punctiformibus farinaceis, hypophyllis, in maculis nigris irregularibus domum segmenta tota occupantibus disseminatis; hyphis fertilibus fasciculatis, 30-60 \times 3-4, ramulosis, hic illic septatis, superne denticuligeris; conidiis catenulatis breviter ellipticis vel fusosideo-cylindraceis, 6-20 \times 3-4, continuis rarius medio 1-septatis.*

Hab. in foliis languidis Hellebori fœtidi in Italia super.

2. **Ramularia Buniadis** Vestergr. Jahreskatalog der Wiener Kryptog. 4206
Tauschanstalt. 1897, p. 4. — *Maculis amphigenis, suborbicularibus, amplis, cœruleo-griseis, margine plus minusve distincto, fusco-viridulo cinctis; hyphis subfasciculatis, simplicibus, septatis, ad apicem parce denticulatis, hyalinis, 30-38 \times 3-4; conidiis cylindricis, utrinque obtuse attenuatis, medio 1-septatis, 16-25 \times 3 vel subcirculari-ovalibus, continuis, 5-12 \times 3-5, hyalinis.*

Hab. in foliis vivis Buniadis orientalis in regione Upsaliensi Sueciæ, frequens. — Videtur ab aliis *Ramulariis* crucifericulis, *R. matronali* Sacc., *R. Armoraciæ* Fekl. bene diversa.

3. **Ramularia Rapæ** Pim, Journ. of Bot. 1897, p. 58. — *Maculis irregularibus, mox confluenso magnis, pallidis, pellucidis; hyphis indistinctis; conidiis fasciculatis, longissimis gracilibusque, leniter curvulis, obtusis, 40-60 \times 1-2, plerumque 3-septatis, hyalinis.* 4207

Hab. in foliis Brassicæ Rapæ, Tullamore, King Co. Britannicæ.

4. **Ramularia deflectens** Bres. Hedw. 1896, p. 200. — *Maculis nullis; cæspitulis dense gregariis, hypophyllis, fere totum folium occupantibus, majusculis albis; hyphis ramosis, hyalinis, septatis, sursum dentatis, 100-120 \times 4-6; conidiis cylindraceis, ad latera compressis v. clavato-subcurvatis, 1-4-septatis, 18-40 \times 5-7.* 4208

Hab. in foliis Violæ tricoloris var. arvensis «Schandau» Saxonici (KRIEGER). — A *Ramularia agresti* Sacc., notis datis, satis distincta.

5. **Ramularia lychnicola** Cke.-Sacc. Syll. IV, p. 204. — var. *chalcedonice* 4209
Voss in Mycologia Carniolica Berlin 1892, p. 278. — A typo cedit conidiis elongatis, obtusis, hyalinis, domum uniseptatis, ad septum sæpe constrictis, 17-26 \times 5 $\frac{1}{2}$ -6 $\frac{1}{2}$.

Hab. in foliis vivis *Lychnidis chalycedoniæ* in Carnioliæ.

6. **Ramularia Polygalæ** (Schroet.) Sacc. et Syd. *Cylindrospora Polygalæ* Schroet. Kryptog. Flora v. Schlesien, 1897, p. 486. — Maculis dilute brunneolis, immarginatis, sæpe partem majorem foliorum occupantibus; acervulis albidis, laxis; hyphis fasciculatis, 30-45 \times 3-4, hyalinis; conidiis cylindræis, utrinque leniter attenuatis, 17-30 \times 2 $\frac{1}{2}$ -3, simplicibus v. 1-3-septatis, hyalinis. 4210

Hab. in foliis *Polygalæ vulgaris* in Silesia.

7. **Ramularia anserina** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 38. 4211
— Maculis epiphyllis, subcircularibus, ochraceis, centro demum expallentibus, sæpe confluentibus et folium totum necantibus; cæspitulis hypophyllis, dense gregariis, candidis; hyphis brevibus simplicibus, parum flexuosis et vix denticulatis, hyalinis; conidiis cylindræis, utrinque rotundatis, breve catenulatis, continuis vel 1-2-septatis, hyalinis, 18-20 \times 2 $\frac{1}{2}$ -4.

Hab. in foliis vivis *Potentillæ anserinæ*, in Franconia super. (ROHNFELDER).

8. **Ramularia Agrimoniz** Sacc. Malpighia 1896, p. 277, tab. VI, f. 9. 4212
— Maculis nullis; cæspitulis hypophyllis, latis, albidis, tenuissimis; hyphis repentibus, sterilibus filiformibus, fertilibus assurgentibus, tortuosis, simplicibus, parce denticulatis, 20-25 \times 2-3; conidiis tereti-fusoideis, rectis, 1-septatis, 15-16 \times 3, utrinque acutis, hyalinis.

Hab. in foliis vivis *Agrimoniz* sp. in Sibiria.

9. **Ramularia cercosporoides** Ell. et Ev. Proc. Acad. Philad. 1895, 4213
p. 437. — Maculis numerosis, variæ magnitudinis, 1-3 mm., sæpe irregulariter subanguloso-confluentibus et $\frac{1}{2}$ -1 cm. diam., obscure purpureis, centro sordide albedo; hyphis hypophyllis, cæspitulosis, e stromate luteo-brunneo ortis, subgeniculatis, continuis v. subtiliter 1-2-septatis, brunneolo-hyalinis, nucleatis, 30-60 \times 3 $\frac{1}{2}$; conidiis terminalibus, oblongo-fusoideis, hyalinis, primo continuis, dein medio angustatis et 1-3-septatis, 15-30 \times 4-5.

Hab. in foliis *Epilobii spicati*, Washington, Amer. bor. (PIPER).

10. **Ramularia enecans** Magn. Hedw. 1895, p. (102). — Maculis sordide albidis v. luteolis, brunneolo-marginatis; cæspitulis hypophyllis; hyphis filiformi-elongatis, interdum septatis; conidiis elongato-fusiformibus, 2-4-cellularibus, 21-26 μ . longis. 4214

Hab. in foliis *Epilobii angustifolii* in Saxonia.

11. **Ramularia circæina** Sacc. et Syd. *Cylindrospora Circæiz* Schroet. 4215
Kryptog. Flora v. Schles. 1897, p. 487. — Maculis vix evolutis

pallide brunneolis, dein luteo-brunneis, vesicularibus, subrotundis, 3-4 mm. latis; cæspitulis albidis, laxis, obsolete; hyphis hyalinis, 25-30 \times 2-3; conidiis cylindræis v. cylindræo-fusoideis, 12-22 \times 2-4, simplicibus v. 1-septatis.

Hab. in foliis *Circææ lutetianæ* in Silesia.

12. **Ramularia Saxifragæ** Syd. in *Mycotheca Marchica* 1889, n. 2596, 4216

Cylindrospora Saxifragæ Schroet. in *Kryptog. Flora v. Schlesien*. 1897, p. 487. — Maculis brunneis, obsolete, magnam partem foliorum occupantibus; cæspitulis albidis, laxis; hyphis fasciculatis, circiter 30 μ . longis; conidiis cylindræis, utrinque rotundatis, 15-24 \times 3-4, simplicibus v. uniseptatis, hyalinis.

Hab. in foliis vivis *Saxifragæ granulatæ* in Marchia et Silesia.

13. **Ramularia Schroeteri** Sacc. et Syd. *Cylindrospora Levistici* Schröt. 4217

Kryptog. Flora v. Schlesien. 1897, p. 488, nec *Ramularia Levistici* Oud., Sacc, Syll. X, p. 555. — Maculis subrotundis, 3-5 mm. latis, ochraceis, obscurius marginatis, dein albidis; cæspitulis albis; hyphis fasciculatis, circiter 50 \times 3; conidiis cylindræis, plerumque 20-33 \times 3-4, simplicibus v. uniseptatis, hyalinis.

Hab. in foliis *Levistici officinalis* in Silesia.

14. **Ramularia Erodii** Bres. Hedw. 1897, p. 382. — Maculis amphig- 4218

genicis, parvis, irregularibus, hand marginatis; cæspitulis dense gregariis, albis, amphigenis; hyphis cylindræo-tortuosis, septatis, simplicibus, 45-60 \times 4; conidiis oblongis, 1-4-septatis, utrinque attenuatis, 24-55 \times 2-3.

Hab. in foliis *Erodii cicutarii* pr. Koenigstein Germaniæ.

15. **Ramularia Hypochæridis** P. Magn. Verhandl. d. Prov. Brandbg. 4219

XXXVII, p. 83. — Maculis brunneis; cæspitulis hypophyllis, erumpentibus; hyphis non ramosis, denticulatis; conidiis elongato-fusiformibus, 1-3-septatis.

Hab. in foliis vivis *Hypochæridis radicata* pr. Berolinum Germaniæ.

16. **Ramularia Bupthalmi** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 4220

p. 24. — Maculis variis, subcircularibus vel irregularibus, sæpe confluentibus, amphigenis, primo atro-violaceis, dein expallentibus et sæpe late violaceo-marginatis; cæspitulis plerumque epiphyllis, minutissimis, gregariis, erumpentibus, albidis; hyphis fasciculatis, flexuosis, ramalosis, parce septatis, sursum dentatis, hyalinis, 30-40 \times 2-3; conidiis breve catenulatis, cylindræis, utrinque obtusis, continuis, hyalinis, 10-30 \times 3.

Hab. in foliis adhuc vivis vel languiscentibus *Buphthalmi salicifolii* in Bavaria super.

17. *Ramularia Helianthi* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 472. 4221

— Maculis hypophyllis, rubescenti-vel flavo-brunneis, 2-3 mm. diam., sæpe confluentibus; hyphis subfasciculatis, brevibus, 10-15 \times 3, supra denticulatis; conidiis oblongo-fusoideis, interdum obovatis, hyalinis, 2-3-nucleatis, subcatenulatis, 10-20 \times 3-4.

Hab. in foliis *Helianthi exilis*, California (HANSEN).

18. *Ramularia filaris* Fres.—Syll. IV, p. 240. — var. *Lappæ* Bres. 4222

Hedw. 1896, p. 200. — Maculis variis, fuscidulis; cæspitulis amphigenis, albis; hyphis valde ludibundis, denticulatis v. breviter ramulosis, subinde sursum attenuatis; conidiis nunc 15-20 \times 2-3, nunc brevioribus 6-7 \times 3.

Hab. in foliis *Lappæ minoris* pr. Schweizermühle Saxonie (KRIEGER).

19. *Ramularia Cardui* Karst.—Syll. X, p. 557 — var. *Personatæ* 4223

Allesch. Hedw. 1895, p. 285. — Maculis amphigenis, subcircularibus, pallidis, 4-8 mm. diam.; cæspitulis ut plurimum hypophyllis, densissime gregariis, macularum superficiem, ut pruina albida, obtegentibus; conidiis cylindraceis, diu continuis, denique uniseptatis, rectis, hyalinis, ca. 12-25 \times 2-3.

Hab. in foliis vivis v. languidis *Cardui Personatæ* in Bavaria.

20. *Ramularia Lophanthi* Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 472. 4224

— Maculis amphigenis, irregularibus, subangulosis, pro parte venulis limitatis, superne ferrugineis, inferne pallidioribus subconfluentibus, definitis, 3-5 mm. diam.; hyphis amphigenis, plerumque hypophyllis, cæspitosis, simplicibus, continuis, hyalinis, 20-30 \times 3, apice denticulatis v. sublobatis; conidiis oblongo-ellipticis v. fuscoideo-oblongis, 15-30 \times 5-7, hyalinis, continuis v. uniseptatis.

Hab. in foliis *Lophanthi serophulariæfolii*, California (HANSEN).

21. *Ramularia Anchusæ-officinalis* Eliasson, Fungi Upsalienses in Bih. 4225

K. Sv. Vet.-Akad. Handl. Bd. XXII, Afd. III, n. 12, 1897, p. 19. — Cæspitulis amphigenis, in macula fusca, irregulari, indefinite marginata insidentibus, densissime gregariis, griseis; hyphis dense fasciculatis, simplicibus v. obsolete 1-septatis, hyalinis, apice denticulatis, 25-50 \times 3; conidiis 20-50 \times 4-7, cylindricis, hyalinis, rectis v. leniter curvatis, typice 1-septatis, interdum tamen continuis vel 3-septatis, utrinque rotundatis.

Hab. in foliis vivis *Anchusæ officinalis* pr. Grindstugan in Suecia. — Differt a *R. Anchusæ* Mass. cæspitulis maculisque amphigenis et conidiis majoribus.

22. *Ramularia Campanulæ-latifoliæ* Allesch. Hedw. 1895, p. 283. — 4225

Maculis subcircularibus v. irregularibus, cinereo-viridibus, ochraceo-marginatis, venulis limitatis, parvis; cæspitulis amphigenis, plerumque epiphyllis, minutissimis, albidis; hyphis simplicibus, parce dentatis, brevibus; conidiis cylindraceis, catenulatis, rectis, utrinque obtusis, plurimum 3-septatis, ad septa leniter constrictis, hyalinis, ca. $20-40 \times 2\frac{1}{2}-4$.

Hab. in foliis vivis *Campanulæ latifoliæ* in Bavaria australi.

23. *Ramularia cylindriopsis* Peck, 50 Rep. p. 116. — Hyphis brevissimis vel a conidiis parum diversis; conidiis valde ludibundis, ellipsoidis, oblongis v. cylindraceis, catenulatis, continuis, $7-25 \times 4-5$. 4227

Hab. in foliis vivis *Andromedæ Mariandæ*, Westburg, Queens County, Amer. bor. (STEWART).

24. *Ramularia Rhei* Allesch. Hedw. 1896, p. (34). — Maculis amphigenis subelevatis, orbicularibus sæpeque confluentibus, rubro-brunneis, medio pallescentibus, 3-5 mm. latis; cæspitulis hypophyllis gregariis, albis; hyphis fasciculatis subsimplicibus, sursum attenuatis dentatisque, hyalinis, $40-45 \times 3-5$; conidiis cylindraceis utrinque obtusis unicellularibus, rarius uniseptatis, hyalinis, $10-30 \times 3-4$. 4228

Hab. in foliis vivis v. languidis *Rhei undulati* pr. Berolinum Germaniæ (SYDOW).

25. *Ramularia circumfusa* Ell. et Ev. Proc. Acad. Philad. 1895, p. 437. — Maculis amphigenis, parvis, 1-2 mm. diam., albidis, brunneo-marginatis, dense sparsis; hyphis longissimis, 100-150 $\times 2\frac{1}{2}-3$, vage et laxè ramosis, distanter septatis, hyalinis, assurgentibus, sursum subgeniculatis et denticulatis; conidiis variis, ovatis vel oblongo-ellipticis, $5-10 \times 2-2\frac{1}{2}$ vel cylindraceis et $10-15 \times 2-2\frac{1}{2}$, hyalinis, continuis, concatenatis. 4229

Hab. in foliis Rumicis obtusifolii, Ohio, Amer. bor. (KELSEY). — *R. pratensi* affinis.

26. *Ramularia Spinaciæ* Nypels, Bull. Soc. bot. Belg. 1898, p. 238. 4230

— Maculis epiphyllis pallidis, hypophyllis brunneis; hyphis fertilibus fasciculatis per stomata exeuntibus, septatis, 150-200 μ . long.; conidiis acro-pleurogenis, oblongis, utrinque rotundatis, $13-26 \times 8$.

Hab. in foliis *Spinaciæ oleracæ* in Belgio.

27. **Ramularia macularis** (Schroet.) Sacc. et Syd. *Cylindrospora macularis* Schroet. Kryptog. Flora v. Schlesien. 1897, p. 492. — Maculis angulosis, 2-3 mm. latis, pallide luteolis, dein albis; cæspitulis albis, densis; hyphis fasciculatis, 22-25 \times 5, hyalinis; conidiis cylindræis, 35-55 \times 4-5, 1-2-septatis, hyalinis.

Hab. in foliis *Chenopodii Boni-Henrici* in Silesia.

28. **Ramularia beticola** Fautr. et Lamb. Rev. Mycol. 1897, p. 54. — Maculis albidis, minutis, orbiculo griseo cinctis; hyphis simplicibus, albidis, amphigenis, in cæspitulos confertis; conidiis rectis, cylindræis, utrinque attenuato-subobtusis, simplicibus v. uniseptatis, 25-30 \times 4-5.

Hab. in foliis *Betæ vulgaris* v. *rapacæ* in Gallia.

29. **Ramularia Thesii** Syd. in Mycotheca March. 1890, n. 2991, *Cylindrospora Thesii* Schroet. Kryptog. Flora v. Schlesien. 1897, p. 492. — Maculis immarginatis, sæpe totum folium occupantibus; cæspitulis albis, densis; hyphis fasciculatis, 30-40 \times 2-3; conidiis ovoideis, ellipsoideis v. breve cylindræis, 13-17 \times 4-5, simplicibus v. uniseptatis, hyalinis.

Hab. in foliis vivis *Thesii intermedii*, alpini et ebracteati in Germania.

30. **Ramularia Arisæmatis** E. et D. Proc. of the Canad. Inst. 1897, p. 90. — Maculis ovatis, brunneis, annulis concentricis pallidis vel flavido-albidis præditis, 0,5-2 cm. lat.; cæspitulis minutis copiosissimis plerumque epiphyllis, cinerescentibus; conidiis elongatis, rectis, grumoso-nucleatis, hyalinis, 20-22 \times 3,5, plerumque sessilibus.

Hab. in foliis *Arisæmatis triphylli*, Gramton, Ontario, Amer. bor. — Hyphæ nullæ descriptæ, ergo species dubia.

31. **Ramularia Sagittariæ** Bres. Hedw. 1896, p. 200. — Maculis dense gregariis, minimis, fuscis, obscurius limitatis; acervulis albis, epiphyllis, in centro macularum præsertim vegetantibus; hyphis brevibus, ramosis v. furcatis, septatis, 25-36 \times 3-5; conidiis cylindræis, hyalinis, uniseptatis, 16-24 \times 3-4.

Hab. in foliis *Sagittariæ sagittifoliæ* pr. Königstein Saxonie (KRIEGER).

32. **Ramularia rubicunda** Bres. Hedw. 1896, p. 200. — Maculis parvis, gregariis, subcircularibus, rufis, saturatius limitatis; cæspitulis hypophyllis rufis; hyphis sub microscopio hyalinis, 70-75 \times 4; conidiis primitus catenulatis, hyalinis, 1-3-septatis, 18-39 \times 5.

Hab. in foliis *Majanthemii bifolii*, « Polenzthal » Saxonie (KRIEGER).

33. *Ramularia Rollandi* Fautr. Rev. Mycol. 1897, p. 54. — Maculis 4237
nigris, elongatis, 10-15 mm. longis; hyphis amphigenis, erectis,
in cæspitulis minutis, fasciculatis, tortuosis, denticulatis; conidiis
cylindraceis, utrinque attenuatis, simplicibus v. guttulatis, inter-
dum uniseptatis, 20-40 \times 3.

Hab. in foliis Iridis Pseudacori in Gallia.

34. *Ramularia Sorokinii* Sacc. et Syd. Sic dicenda est *Ramularia Leo-*
nuri Sorok. in Syll. X, p. 559, quum exstet anterior *R. Leonuri*
Sacc. et Penz. in Syll. IV, p. 243.

35. *Ramularia Peckii* Sacc. et Syd. Sic nuncupanda est *Ram. Plan-*
taginis Peck in Syll. X, p. 561 (1891), quæ videtur satis diversa
ab homonyma Ellis et Mart. in Syll. IV, p. 214 (1889).

FUSOMA Corda — Syll. IV, p. 220, X, p. 566, XI, p. 607.

1. *Fusoma Galanthi* Oud. Konink. Akad. Wetensch. 1897, p. 462 4238
cum fig. — Conidiis hyphis destitutis, entophytis, hyalinis, in
acervulos orbiculares coalitis, singulis curvatis, acutissimis, 3-,5-,
7-,9-ocularibus, hyalinis, 25-35 \times 2½.

Hab. in foliis Galanthi nivalis in Hollandia. — An *Me-*
lanconiacea?

SEPTOCYLINDRIUM Bon. — Syll. IV, p. 223, X, p. 567, XI, p. 607.

1. *Septocylindrium Aspidii* Bres. Hedw. 1896, p. 201. — Maculis 4239
nullis; cæspitulis epiphyllis, candidis, effuso-pulveraceis; conidiis
cylindraceis, rectis v. subcurvulis, 15-24 \times 3, pluriguttulatis, dein
1-4-septatis, basiis brevibus, 6-8 \times 3 suffultis.

Hab. in frondibus vivis, quas enecat, *Aspidii spinulosi*,
«Polenzthal» Saxonie (KRIEGER). — Maculis propriis nullis, sed
pars frondium quam investit, exsiccatur.

Sect. 4. Scolecosporæ.

CERCOSPORELLA Sacc. — Syll. IV, p. 218, X, p. 564, XI, p. 606.

1. *Cercospora Helianthellæ* Eil. et Ev. Bull. Torr. Bot. Cl. 1897, 4240
p. 473. — Maculis dilute brunneis, irregularibus, subangulosis,
subconfluentibus, 2-3 mm. diam.; cæspitulis confertis, albis, gra-
nulosis; hyphis epiphyllis, dense cæspitosis, 20-30 \times 4, simplicibus
vel apicem versus noduloso-ramulosis, interdum ibique subdentatis,
hyalinis; conidiis cylindraceis, hyalinis, uniseptatis, utrinque sub-
attenuatis, 30-60 \times 2½.

- Hab.* in foliis *Helianthellæ quinquenervis*, Colorado Amer. bor. (CRANDALL).
2. **Cercosporella nivea** Ell. et Barth. *Erythea* 1896, p. 82. — Cæspitulis minutis, niveis, sparsis, amphigenis, maculis nullis; hyphis fertilibus cæspitosis, continuis, hyalinis, oblongo-cylindraceutis, interdum apice incrassatis, 15-25 \times 4; conidiis gracilibus, longis, multiguttulatis, hyalinis, 100-160 \times 3-4.
- Hab.* in foliis vivis *Solidaginis radulæ* in Kansas Amer. bor. (BARTHOLOMEW). — Aspectu externo *Cercosporellam canam* Sacc. optime simulat.
3. **Cercosporella carduicola** P. Brun. *Act. Soc. Linn. Bordeaux* 1898, p. 18 extr. — Maculis orbicularibus brunneis, obscure marginatis; cæspitulis albis minutissimis; conidiis bacillaribus hyalinis, guttulatis, rectis v. leniter flexuosis, 20-25 \times 2.
- Hab.* in foliis *Cardui tenuiflori*, Rochefort Galliæ.
4. **Cercosporella Baccharidis** Ell. et Ev. *Proc. Acad. Philad.* 1895, p. 438. — Maculis suborbicularibus, 3-4 mm. diam., sordide brunneis, primo virescentibus, plerumque rugosis; hyphis hypophyllis, cæspitosis, hyalinis simplicibus, plerumque rectis continuisque, sursum integris v. subtiliter denticulatis, 25-40 \times 4; conidiis cylindraceutis, utrinque obtusis, 1-3-septatis, hyalinis, 40-60 \times 4-4½.
- Hab.* in foliis *Baccharidis Douglasii*, California (BLASDALE).
5. **Cercosporella Pycnanthemi** Atk. *Bull. Cornell Univ.* III, n. 1, 1897, p. 47. — Maculis hypophyllis magnis angulosis, foliorum nervis limitatis; hyphis hypophyllis, e stromate minuto dilute luteo copiose ascendentibus; conidiis numerosis.
- Hab.* in foliis *Pycnanthemi*, Auburn, Alabama Amer. bor.
6. **Cercosporella nivosa** Ell. et Ev. *Proc. Acad. Philad.* 1895, p. 438. — Maculis parvis, rotundis, 1-2 mm. diam., albis, margine angusto elevato, purpurascente cinctis; hyphis simplicibus, apice subattenuatis, nucleatis, continuis, 12-15 \times 1½-2, sursum hyalinis deorsum brunneolis et plus minusve tumidulis, numerosis, cæspitulos hemisphæricos, cellulosos, brunneolos, sphaeriaformés formantibus; conidiis cylindraceutis, hyalinis, 12-25 \times 1½-2, nucleatis, demum 1-2-septatis.
- Hab.* in foliis *Pentastemonis Digitalis* et ovati, Ohio et Idaho, Amer. bor.
7. **Cercosporella prolificans** Ell. et Holw. *Bull. Lab. Nat. Hist. State Univ. of Iowa* III, n. 3. 1895, p. 42. — Amphigena sed plerum-

que hypophylla; hyphis dense fasciculatis brevibus, 25-30 \times 4, continuis, hyalinis; cæspitulis effusis, rufo-cinereis, suborbicularibus 3-5 mm. diam.; conidiis clavato-cylindraceis, granulosis, hyalinis, tenuiter 1-3-septatis, 30-75 \times 3-4.

Hab. in foliis Sambuci glaucæ, S. Bernardino, California (S. S. PARISH).

8. **Cercosporella macrospora** Bres. Hedw. 1896, p. 201. — Maculis 4247 subcircularibus, amphigenis, fuscis; cæspitulis dense gregariis, albis, plerumque epiphyllis; hyphis hyalinis, basi stramineo-tinctis, septatis, 40-45 \times 5-6; conidiis bacillari-clavatis, pluriseptatis, 160-230 \times 4-5, hyalinis.

Hab. in foliis Sagittariæ sagittifoliæ pr. Königstein Saxonie (KRIEGER).

9. **Cercosporella tamicpla** Lamb. et Fautr. Rev. Mycol. 1897, p. 53. 4248 — Maculis griseis, variæ magnitudinis, super totum folium sparsis idque destruentibus; hyphis fasciculatis, multiseptatis, hypophyllis; conidiis hyalinis, ocellatis, multiseptatis, 60-80 \times 6.

Hab. in foliis Tami communis in Gallia.

Sect. 5. Staurosporæ.

TETRACLADIUM De Wild. Ann. Soc. belg. Micr. 1893, p. 35, tab. IV, fig. 1-13, 1894, p. 137, tab. IV, fig. 1-14 (Etym. *tetra* quatuor et *clados* ramus). — Saprophyticum, in contextu plantarum evolutum, pluricellulare; mycelium ramosum; hyphæ fertiles erectæ, ramosæ, ramis apice ramulis duobus v. tribus divergentibus plus minusve acutatis terminatis; conidia ex alis ramulorum oriunda, ovalia, cylindrica v. globosa. Generi *Titææ* proximum.

1. **Tetracladium Marchalianum** De Wild. l. c. — Mycelio irregulari, 4249 repente; hyphis fertilibus erectis, dichotome ramosis, ramis pauciseptatis apice ramulos duos v. tres gerentibus; ramulis divergentibus, acutatis, 18-70 \times 4, nunquam in aristam abeuntibus; conidiis in alis ramulorum ortis, ovalibus, cylindraceis v. globosis, solitariis v. 2-4 associatis, septatis, apicem versus sæpe capitatis, probabiliter secedentibus, filamentis laterali germinantibus.

Hab. in foliis in aqua submersis, intra algarum filamenta etc. in Belgio, Gallia, Helvetia.

LEMONNIERA De Wild. Ann. Soc. belg. Micr. 1894, p. 143 (Etym. a el. mycologo LE MONNIER parisiensi). — Saprophytica, pluri-

cellularis, in contextu plantarum evoluta, mycelio repente; hyphæ fertiles erectæ pluricellulares, ramosæ, apice conidia quadriradiata gerentes. Generi *Titææ* affinis.

1. **Lemonniera aquatica** De Wild. l. c. tab. V. — Hyphis erectis, 4250
ramosis, basi anastomosantibus, distincte septatis; ramis primariis septatis vulgo basi inflatis, 5-7 μ . diam., secundariis e septis transversalibus oriundis, apice umbelliformibus ibique conidia gerentibus; conidiis quadriradiatis, interdum globosis ac 5-12 μ . diam., a matrice secedentibus apiceque gerinantibus; radiis usque ad 70 μ . longis, septatis.

Hab. in foliis emortuis in aqua submersis, Nancy Galliæ.

Fam. 2. Dematiaceæ Fr.

Sect. 1. Amerosporæ.

Subsect. 1. Micronemæ Sacc.

Trib. 1. CONIOSPORIÆ Sacc.

CONIOSPORIUM Link. — Syll. IV, p. 238, X, p. 569, XI, p. 610.

1. **Coniosporium ferruginascens** Karst. in Hedw. 1896, p. 49. — 4251
Acervulis superficialibus, late effusis, aridis, contiguis, subinde rimosis, cinnamomeo-ferrugineis; conidiis ellipsoideis, 1-2-guttulatis, subflavis et pellucidis, 8-10 \times 4-6.

Hab. supra corticem brevem Betulæ in Mustiala Fennia. — *Hypochnum ferrugineum* externa facie nonnihil simulat.

2. **Coniosporium subseriatum** Ell. et Ev. Bull. Labor. Nat. Hist. 4252
Univ. Jowa IV, 1896, p. 67. — Acervulis erumpentibus, subhysteriiformibus, 1-2 mm. longis, subconfluenti-seriatis, atris; conidiis globoso-ellipticis, fuscis, ca. 5 \times 3-3 $\frac{1}{2}$, abundantibus.

Hab. in cortice pr. Castillo Nicaraguæ (SMITH).

3. **Coniosporium blumenaviense** Allesch. Hedw. 1897, p. 243. — Ef- 4253
fusum, pulverulentum, aterrimum; conidiis pulveraceo-inspersis, aterrimis, globosis, ca. 8-14 μ . diam.

Hab. in lignis putridis pr. Blumenau Brasiliæ (MOELLER). — *Coniosporio aterrimo* (Cda.) Sacc. valde affine, sed conidiis duplo majoribus diversum.

4. **Coniosporium nitidum** Karst.-Sacc. Syll. X, p. 569. — var. **sordarioides** Sacc. Malpighia XI, 1897, p. 82 extr. — 4254
Conidiis stipitatis, 36 \times 20-22, paullo majoribus quam in typo, eis *Sordaria* affinibus.

Hab. in calamis *Scirpi silvatici*, Riva-Valsesia, Italia bor.

(CARESTIA).

5. **Coniosporium Maydis** Ell. et Barth. *Erythea* 1896, p. 82. — Co- 4255
nidiis globosis v. subglobosis, fuscis, $3\frac{1}{2}$ - $5\frac{1}{2}$ μ . diam.; stromate
orbiculari, subapplanato-tuberculato, $\frac{1}{2}$ -1 mm. diam., atrò.

Hab. in culmis *Zeæ Maydis* in Kansas Amer. bor. (BARTHOLOMEW).

6. **Coniosporium pulvinatum** A. L. Smith, *Journ. of Bot.* 1895, p. 343. 4253
— *Acervulis linearibus, atro-fuscis, pulvinatim emersis, erumpen-*
tibus; conidiis lenticulari-compressis, 10 μ . diam., fuliginis.

Hab. ad culmos *Bambusæ* in Africa orient. (ELLIOT).

7. **Coniosporium Sacchari** Speg. *Rev. Agr. y Veter. La Plata* 1896, 4257
p. 248. — *Acervulis superficialibus, minutis, hemisphæricis, 250-*
400 μ . diam., aterrimis, e pulverulento compactiusculis, hinc inde
densiuscule gregariis; conidiis globosis, 8-9 μ . diam., atro-fuligi-
neis, opacis, levibus, per ætatem rimoso-dehiscentibus.

Hab. in pagina interna vaginarum ad internodios subputre-
scentes *Sacchari officinarum*, prov. Tucuman, Argentina.

Trib. 2. TORULÆ Sacc.

TORULA Pers. em. Sacc. — *Syll. IV*, p. 247, *X*, p. 572, *XI*, p. 610.

1. **Torula Sambuci** Fckl.-Sacc. *Syll. IV*, p. 249. — forma minor 4258
P. Brun. Bull. Soc. Sc. Nat. de l'ouest de la France 1894, p. 38.
— *Conidiis 5-6 μ . diam.*

Hab. in ramis decorticatis *Sambuci nigræ* in Gallia.

2. **Torula erumpens** Ell. et Ev. *Americ. Natur.* 1897, p. 430. — 4259
Erumpens; cæspitulis discoideis, orbicularibus v. ellipticis, $\frac{1}{2}$ - $\frac{3}{4}$
mm. diam.; conidiis cylindræis, 2-5-septatis, concatenatis, 10-20 \times
 $3\frac{1}{2}$ -4, obscure brunneis, subopacis.

Hab. in ligno decorticato putrido populino in Colorado
Amer. bor.

3. **Torula occulta** Ell. et Barth. *Erythea* 1897, p. 50. — *Effusa, 4260*
nigra, laxa, pulvinulum formans; hyphis fertilibus brevissimis;
conidiis 5-7-catenatis, globosis, 7-8 μ ., oblongis v. oblongo-elli-
pticis, 20-24 \times 7-8, medio leviter angustatis v. biconicis, 20-24 \times
8-10, dilute brunneis, interdum 3-septatis, subopacis (biconicis
exceptis), non constrictis; catenis plus minus ramosis.

Hab. ad lignum ulmæum, Kansas, Amer. bor. (BARTHOLOMEW).

4. **Torula colliculosa** B. et C. — *Sacc. Syll. IV*, p. 254. — var. orbi- 4261

cularis Peck 49 Rep. Stat. Bot. N. York, 1896, p. 23. — Cæspitulis pulvinatis, orbicularibus, nigris, elevatis.

Hab. in ligno decorticato *Tsugæ canadensis*, New York Amer. bor.

5. **Torula verticillata** Sacc. Bull. Soc. Roy. Belg. XXXV, 1896, p. 131, 4262
tab. IV, fig. 8. — Cæspitulosa, superficialis, nigra, pulveraceo-velutina; hyphis sterilibus repentibus filiformibus, parce ramosis, subhyalinis, hinc inde emittentibus basidia brevissima, rectiuscula, 5 μ . cr, ex apice obtuso verticillato-ramosa, ramulis terno-quaternis sursum tenuatis, 15-20 \times 2-3, subhyalinis, apice conidiorum catenas gerentibus; conidiis globosis, leviter irregularibus. 4 μ . d., atro-fuligineis.

Hab. in foliis putrescentibus Orchidearum epiphytarum in Brasilia. — Habitus *Torulæ herbarum*, sed conidiis minoribus, sporophoris verticillatis etc., abunde diversa.

6. **Torula caricina** E. et D. Proc. of the Canad. Inst. 1897, p. 90. 4263
— Hypophylla, densa, atro-olivacea, orbicularis vel elliptica, 1-2 mm. diam.; conidiis in catenulas simplices vel furcatas, erectas dispositis, levibus, pallide brunneis, globosis, 3 μ . diam.

Hab. in foliis emortuis *Caricis lupulinæ*, London, Canada. — Catenulæ ex 10-15 conidiis formatae, 20-30 μ . longæ.

7. **Torula Peckii** Sacc. et Syd. Sic dicenda est *Torula ramosa* Peck in Syll. X, p. 573, quum exstet anterior *Torula ramosa* Fckl. in Syll. IV, p. 250.

HORMISCIMUM Kunze — Syll. IV, p. 263, X, p. 575.

1. **Hormiscium Bussardi** Delacr. Bull. Soc. Mycol. de France, XIII, 4264
1897, p. 116, tab. IX, fig. D. — Cæspitulis solitariis, hemisphæricis, usque 2 mm. diam., olivaceo-griseis, mycelio septato, brunneo, ramoso; conidiis dilutius coloratis, apice hypharum concatenatis, cuboideo-sphæricis, ægerrime secedentibus, 4-5 μ .

Hab. in tuberculis *Solani tuberosi*, in solutione acidi sulfurici 0,5% immersis, in laboratorio Parisiorum Galliæ.

Trib. 3. ECHINBOTRYÆ Sacc.

ECHINBOTRYUM Corda — Syll. IV, p. 268.

1. **Echinobotryum pulvinatum** El. March. Bull. Soc. Roy. Bot. Belg. 4265
XXXIV, 1895, p. 139, tab. II, fig. 2-2 a. — Dense gregarium, pulvinatum, nigrum; hyphis prælongis, hyalinis, densis, flexuosis,

parce septatis, $1\frac{1}{2}$ -2 μ . crassis, vage ramosis; conidiis acrogenis, rarius pleurogenis, in glomerulos ætate magnitudine variantes, stellatim digestis; sessilibus v. sæpius breviter stipitatis, fuscis, sed primitus hyalinis, oblongo-cylindraceis apice attenuatis, basi truncatis, $7-9\frac{1}{2} \times 3\frac{1}{2}$ -4, episporio levi.

Hab. in stercore gallinacéo in Arduennis.

Subsect. 2. Mæronemææ SACC.

Trib. 4. PERICONIÆ.

STACHYBOTRYS Corda — Syll. IV, p. 269, X, p. 577, XI, p. 612.

1. **Stachybotrys pulcra** Spæg. *Rev. Agr. y Veter.* La Plata, 1896, 4266 p. 248. — *Sparsa* v. *laxa gregaria*, rarius subcæspitosa, maculis indeterminatis fuscidulis; hyphis fertilibus erectis, rectiusculis teretibus 100-200 \times 6-10 levibus opaco-fuligineis, laxe septulatis basi non v. leniter subbulboso-incrassatis, apice non v. vix inflatilis atque sterigmatibus minimis subglobosis, 4 μ . diam., fusco-subpellucidis, dense congestis vestitis; conidiis in sterigmatibus acrogenis ellipsoideis, 10-15 \times 5-6, minute granuloso-asperulatis, continuis, fuligineis.

Hab. ad culmos nec non folia languida atque coacervata adhuc viventia Sacchari officinarum, prov. Tucuman, Argentina.

2. **Stachybotrys crassa** El. March. *Bull. Soc. Roy. Bot. Belg.* 4207 XXXIV, 1895, p. 140, c. icone. — Cæspitulis nigricantibus; hyphis sterilibus repentibus, gracilibus, dichotome ramosis, hyalinis, sparse septatis; hyphis fertilibus pallidis, erectis, septatis, 5-8 μ . crassis; ramis 3-5 eleganter patulo-ascendentibus, apice sterigmatophoris; sterigmatibus 5-7, ovoideis, 17-21 \times 10-12 $\frac{1}{2}$, apice subacutis, hyalinis; conidiis sphericis, pro genere maximis, 16-18 μ . diam., atro-fuscis, granulatis, interdum 1-guttulatis.

Hab. in stercore damarum in Belgio.

PERICONIA (Tode) Bon. — Syll. IV, p. 270, X, p. 578, XI, p. 612.

1. **Periconia scyphophora** El. March. *Bull. Soc. Roy. Bot. Belg.* 4268 XXXIV, 1895, p. 141, tab. II, fig. 1. — Cæspitulis densiusculis, parum elevatis, indeterminatis; hyphis sterilibus brunneis, obsoletis, crassiusculis, approximatis; hyphis fertilibus dense fasciculatis, erectis v. ascendentibus, 60-90 \times 2-5, olivaceo-fuscis, simplicibus v. rarius inferne bifurcatis, cylindraceis, parce septatis, ima basi frequenter incrassatis, sursum sæpe inæqualibus, subarticulatis, cu-

pula parva, hyalina, aliquando caduca, terminatis; conidiis in globulum album, mucosum, 8-12 μ . diam., in cupula impositum digestis, 1,9-2,2 μ . crassis, irregulariter globulosis, subhyalinis, nucleolatis et levibus.

Hab. in ligno stercorato in Belgio.

2. **Periconia felina** El. March. Bull. Soc. Roy. Bot. Belg. XXXIV, 4269
1895, p. 141, tab. II, fig. 4. — Cæspitibus densis, late effusis, indeterminatis, initio albidulis, dein chlorino-griseis; hyphis sterilibus repentibus, laxè ramosis, hyphis fertilibus ascendentibus, erectis, subfloxuosis, sæpe subfasciculatis, simplicibus v. inferne bifurcatis ubi 1-2-septatis, apice incrassatis, 40-60 \approx 2-3; conidiis in capitulum 12-18 μ . diam. digestis, initio mucoso fluxili conglutinatis, ovoideis, fuscis, subpellucidis, nucleo obscuro. 4-6 \approx 3-3,4.

Hab. in fimo felino vetusto, socio Gymnoasco rubro in Belgio.

Trib. 5. TRICHOSPORIÆ.

VIRGARIA Nees — Syll. IV, p. 280, X, p. 580.

1. **Virgaria cardiospora** Bres. Hedw. 1896, p. 301. — Cæspitulis 4270
dense gregariis, pistilliformibus, apice penicillatis, 1-1 1/2 mm. longis, nigris, ex hyphis septatis, luteo-fuscis, 4-6 μ . latis compositis; conidiis cordiformibus, fuscis, continuis, demum spurie uniseptatis, 20-22 \approx 12.

Hab. ad caules herbarum pr. Blumenau Brasilicæ (MÖLLER).

STREPTOTHRIX Corda — Syll. IV, p. 282, X, p. 580.

1. **Streptothrix cinerea** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 4271
1895, p. 44, tab. III, fig. 22. — Cæspitulis initio minutis, albis, dein confluentibus, effusis, cinereis; hyphis valde elongatis, intricato-ramosissimis, hyalinis, spiraliter tortis; conidiis omnino sessilibus, hyalinis, globosis, 4-6 μ . diam.

Hab. ad culmos Zeæ Maydis, Ohio Amer. bor.

2. **Streptothrix fusca** Corda - Syll. IV, p. 283. — Adde locum: 4272

Hab. in ramis corticatis dejectis in silvaticis pr. Kharcoff Rossicæ merid. (ANDR. POTEVNIA!). — Fungillus, ut videtur, rarus, hucusque lectus in Bohemia, Rossia et Amer. bor. Conidia ovoidea, 8-9 \approx 5-6, atro-fuliginea.

ZYGODESMUS Corda — Syll. IV, p. 283, X, p. 581, XI, p. 612.

1. **Zygodemus truncatus** Karst. Hedw. 1896, p. 49. — Effusus, 4273

mucedineus, latus, avellaneus vel spadiceo-testaceus; hyphis dichotomis, articulatis, levissimis, enodosis, apice truncatis, hyalinis, 12-20 μ . crassis; conidiis sphaeroideis, aculeolatis, membrana obscura, subfuligineis, diaphanis, ca. 4 μ . diam.

Hab. supra corticem vetustum Salicis ad Mustiala Fenniae.

TRICHOSPORIUM Fr. — Syll. IV, p. 288, X, p. 583, XI, p. 613.

1. **Trichosporium tenellum** Karst. Hedw. 1896, p. 49. — Cæspitulis 4274
late effusis, tenuissimis, orbicularibus, pulveraceis, olivaceo-atris, minutis; hyphis parvis, ramosis, articulatis, tenerrimis, hyalinis, circiter 2 μ . crassis; conidiis copiosissimis, sphaeroideis, eguttulatis, olivaceis, in flavum levissime vergentibus, pellucidis, circiter 3 μ . d.

Hab. ad ramos Rubi Idæi siccos, Aboæ Fenniae.

2. **Trichosporium populneum** Lamb. et Fautr. Rev. Mycol. 1896, 4275
p. 145. — Hyphis prostratis, brunneis, ramosis, septatis, tomentum crassiusculum formantibus; conidiis ovalibus, 4 \times 3, brunneis, uniguttulatis.

Hab. in ramulis diu asservatis Populi in Gallia.

3. **Trichosporium gossypinum** Pat. Bull. Soc. Myc. de Fr. 1895, p. 233. 4276
— Pulvinulis effusis, 1-6 cm. longis, 1 mm. crassis, gossypinis, fusco-olivaceis, ex hyphis erectis, dense approximatis, ramosis, gracilibus, 2-3 μ . crassis, pallide olivaceis, hinc inde fusco-notatis, conidiferis compositis; conidiis acro-pleurogenis, ovalibus, brunneo-fuscis, 6 \times 4, numerosissimis.

Hab. in truncis vetustis in Æquatoria (v. LAGERHEIM).

4. **Trichosporium inflatum** El. March. Bull. Soc. Roy. Bot. Belg. 4277
XXXIV, 1895, p. 142, tab. II, fig. 5. — Cæspitulis laxis, delicatis, late effusis; hyphis decumbentibus, subflexuosis, tenuissime et remote septatis, 2-3 $\frac{1}{2}$ μ . crassis, hyalinis, sæpe ramosim-dichotomis, hinc v. inde inflatis; conidiis initio albidis, dein fuscis, in apice ramulorum congregatis, 6-7 $\frac{1}{2}$ \times 3 $\frac{1}{2}$ -4, ellipsoideis, utrinque rotundatis, episporio crassiusculo, levi.

Hab. in fimo suino in Belgio.

RHINOCLADIUM Sacc. et March. — Syll. IV, p. 295, X, p. 585.

1. **Rhinocladium Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 4278
p. 250. — Pulverulento-velutinum sordide olivaceum v. atro-olivaceum rarius gossypinulum, superficiale subdetersile; hyphis sterilibus repentibus, gracilibus, 5-6 μ . diam., septulatis, dense ramoso-intertextis, fertilibus erectis submollibus flexuosulis sæpe in-

tricatis, simplicibus, septulatis, 100-150 \times 3-4, olivaceis, pellucidis, apice acutis, ad medium vel sub apice lenissime incrassatis (parte incrass. 30-50 μ . long., 5-6 μ . crass.) ac dense murioulatis; conidiis in papillis monospermis hypharum acrogenis, capitulato-congestis, non catenulatis, obovatis, 6-8 \times 3, superne obtuse rotundatis, inferne cuneato-acutatis, levibus, continuis, intus eguttulatis non v. vix nubiloso-farctis, chlorinis.

Hab. in vaginis interioribus Sacchari officinarum, La Plata, Argentina. — Species ad genus *Rhinotrichum* nonnihil vergens.

CAMPSOTRICHUM Ehrenb. — Syll. IV, p. 295, X, p. 586, XI, p. 613.

1. **Campsotrichum Tetraceræ** Allesch. Hedw. 1897, p. 244. — Hyph⁴²⁷⁹is intricatis, decumbentibus, septatis, ramosis, fusco-olivaceis, epiphyllis, maculas parvas subcirculares formantibus; conidiis obpiriformibus, fusco-brunneis, continuis, guttulatis, ca. 16-22 \times 10-12 (in parte incrassata).

Hab. in pagina superiore folii Tetraceræ spec. pr. Goyaz Brasiliæ (GLAZIOU).

GLENOSPORA B. et Curt. — Syll. IV, p. 298, X, p. 586.

1. **Glenospora Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 4280 p. 248. — Effusa, pulverulenta, superficialis, matrice arctiuscule adnata; hyphis sterilibus dense articulato-ramulosis ac submembranaceo-intertextis, articulis irregulariter obtuseque angulato-ellipsoideis, 5-10 μ . long., 5-10 μ . crass., fumosis; hyphis fertilibus ad-surgentibus, 2-3-articulatis, sæpius breviusculis, 16-20 \times 5-10, rectis v. geniculatis, articulo supremo sæpe clavato, concoloribus, levibus, monosporis; conidiis ellipsoideis v. globosis, 20-22 \times 15-18, solitariis, opace fuligineis, continuis, levibus.

Hab. in foliis culmisque languidis Sacchari officinarum, prov. Tucuman, Argentina.

Trib. 6. MONOTOSPOREÆ Sacc.

SPOROGLENA Sacc. apud Hennings in Engl. Jahrb. XVIII, 1894, p. 40 (Etym. *spora* et *glene* cavitas et oculus). — Hyphæ fusco-rufæ, steriles, late effusæ, repentes, fasciculato-intricatæ, simplices v. raro ramosæ, continuæ, ramulos fertiles erectos, breves, simplices, apice monosporos ubique gerentes. Conidia globulosa, colorata,

intus nucleum majusculum nitidum includentiâ. Mycelio et conidiis ad *Glenosporam*, ramis monosporis ad *Hadrotrichum* et *Monotosporam* accedit.

1. **Sporoglena velutina** Sacc. l. c. — Effusa, tenuissime velutina, castaneo-fulva, a matrice viva secedens, ramis fertilibus cylindraceis, cræberrimis, parallelis, erectis, $30 \approx 4$, apice in conidium singulum globulosum, persistens, 8μ . crassum, concolor, nucleum globosum hyalinum refringentem includens, desinentibus. 4281

Hab. ad folia *Palmarum* in Nova Guinea.

MONOTOSPORA Corda — Syll. IV, p. 299, X, p. 588, XI, p. 613.

1. **Monotospora nigra** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 1895, p. 44, tab. III, fig. 20. — Effusa, tenuis, nigra; hyphis sterilibus longis, gracilibus flexuosis, brunneis, sæptatis, ramosis; ramis numerosis, apice conidium solitarium gerentibus; sporophoris plus minus elongatis, interdum brevissimis, assurgentibus v. erectis; conidiis globosis v. obovoideis, levibus, nigris, opacis, plerumque brunneo-pedicellatis, $14-18 \mu$. diam., pedicello $4-6 \mu$. longo. 4282

Hab. ad culmos *Zeæ Maydis* emortuos, Ohio Amer. bor. — An potius *Acremoniellæ* species?

ALLESCHERIELLA P. Henn. Hedw. 1897, p. 244 (Etyrn. a sollertissimo mycologo monacensi A. ALLESCHER). — Hyphæ repentes, septatæ, ramosæ, hyalinæ, subflavescentes; conidia apice ramulorum oriunda, singularia, continua, subglobosa, ovoidea v. oblonga læte colorata. *Monotosporæ* et *Sporoglenæ* affinis.

1. **Allescheriella uredinoides** P. Henn. l. c. — Cæspitulis pulvinatis, rotundatis v. confluentibus, læte effusis, cinnamomeis v. læte ochraceis subvelutinis; hyphis tenuibus ramosis, sæptatis, interdum inflatis, hyalino-subflavescentibus, usque ad 20μ . crassis, ramulis conidiophoris $4-6 \mu$. crassis; conidiis subglobosis, ovoideis, piriformibus v. oblongis, aurantiaco-brunneolis, intus guttulatis, levibus, $12-25 \approx 10-19$. 4283

Hab. in muscis corticibusque pr. Blumenau in prov. St. Catharina Brasiliæ (MÖLLER).

ACREMONIELLA Sacc. — Syll. IV, p. 302, X, p. 588, XI, p. 614.

1. **Acremoniella verrucosa** Togn. Rendic. del R. Ist. Lomb. di sc. e lett. 2 ser. vol. XXIX, 1896, p. 3 extr. — Hyphis sterilibus repentibus, sæptatis, hyalinis, in maculis atris prope nodos culmo- 4284

rum insidentibus; ramis modo alterno-rectangulâri insertis, in ramusculis vario ordine divisâs; conidiophoris sæpius continuis, subinde vix curvatis, conidia apice acuto solitarie gerentibus, 18-47 \times 5-6; conidiis obovatis, avellaneis, maturis episporio crasso verrucoso præditis, 22-27 \times 18-22.

Hab. in culmis et vaginis Tritici vulgaris et Avenæ sativæ, Italia super.

2. **Acremoniella atra** (Cda.) Sacc. - Syll. IV, p. 302. — var. **fimiseda** ¹²⁸⁵
El. March. Bull. Soc. Roy. Bot. Belg. XXXIV, 1895, p. 136. —
Hyphis repentibus, hyalinis, septatis; sporophoris crassioribus et brevioribus, 1 vel 2 conidia gerentibus; conidiis minoribus, 19-25 \times 13-15.

Hab. in fimo avium in Belgio.

Trib. 7. HAPLOGRAPHIÆ Sacc.

CATENULARIA Grev. — Syll. IV, p. 303.

1. **Catenularia echinata** Wakker, De Ziekten van het Suikerriet op ⁴²⁸⁶
Java, Leiden 1898, p. 196. — Hyphis subhyalinis septatis crassis; conidiis atris, globosis, concatenatis, dein liberis, 14 μ . diam., membrana interiore atra, membrana exteriori levi, hyalina decidua; cupula apicali ex interiore catenam erectam conidiorum emittente.

Hab. in caulibus emortuis Sacchari officinarum in Java.

HAPLOGRAPHIUM B. et Br. — Syll. IV, p. 304, X, p. 588.

1. **Haplographium Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, ⁴²⁸⁷
p. 249. — Sparsum v. gregarium, superficiale, rigidum, atrum; hyphis fertilibus, erectis, rigidulis, atro-opacis, 150-250 \times 10-14, simplicibus v. rarius superne breviter alterne 1-vel 2-ramosis, basi parce subbulboso-inflatis; apicibus hypharum v. ramulorum breviter capitato-ramulosis; ramulis subverticillatis e fusoido cylindræcis sub apice coarctatulis, obtusiusculis, 46 \times 20, continuis, levibus; conidiis acrogenis catenulatis, globosis, 6-10 μ . diam., minute denseque asperulis, atro-fuligineis, in sicco hemisphærico-contractis.

Hab. in foliis vaginisque languidis Sacchari officinarum, prov. Tucuman, Argentina.

HORMODENDRUM Bon. — Syll. IV, p. 310, X, p. 591.

1. **Hormodendrum Hordei** Bruhne in Zopf, Beitr. IV, 1894, p. 1, c. ⁴²⁸⁸
tab. — Maculis brunneis per totum folium sparsis v. confluenti-

bus, oblongis; hyphis simplicibus, septatis; conidiis variis, aliis cylindræis utrinque rotundatis v. subattenuatis, aliis ellipsoideis v. subglobosis, demum septatis, verrucosis.

Hab. in foliis vivis, quæ vexat, Hordei vulgaris pr. Halle et Berolinum Germaniæ. — *H. cladosporioidi* proximum. In solutionibus cultum interdum conidia levia gerit.

Trib. 8. CHLORIDIÆ Sacc.

MENISPORÀ Pers. — Syll. IV, p. 325, XI, p. 615.

1. **Menispora orthospora** Sacc. et Fautr. sp. n. — Effusa, tenuissime 4289
velutina, pallide olivaceo-cinerea; hyphis sterilibus repentibus, ramosis, intricatis, fuligineis, septatis, filiformibus, fertilibus assurgentibus, simplicibus v. parce ramosis, 100-200 \times 4-5, parce septatis, fuligineis, sursum subhyalinis et tractu longiusculo distincte denticulato-sporigeris; conidiis initio spicatis, dein in massulas varias majusculas conglutinatis, cylindricis, rectis, apice obtusis, basi subacutatis, 19-22 \times 2,5-3, intus minute multiguttulatis, hyalinis.

Hab. in fragmentis ligneis putridis, udis Populi, Côte d'Or Galliæ. — Pars hypharum sporigera facile elabitur et nonnisi in junioribus conspicitur. A *Men. glauca*, *M. cæsia* etc. præcipue conidiis rectis dignoscitur. Ad sect. *Eu-Menisporam* spectat.

Sect. 2. Didymosporæ.

DICOCCUM Corda — Syll. IV, p. 342, X, p. 595, XI, p. 616.

1. **Dicoccum Glaziovii** Allesch. Hedw. 1897, p. 244. — Cæspitulis 4290
hypophyllis, confluentibus, fuligineo-brunneis; hyphis intricatis, ramulosis, continuis; conidiis ovalibus utrinque rotundatis, medio septatis, biguttulatis, brunneis, ca. 20 \times 10.

Hab. in foliis emortuis Anacardii spec. pr. Goyaz Brasiliæ (GLAZIOU).

FUSICLADIUM Bon. — Syll. IV, p. 345, X, p. 597, XI, p. 617.

1. **Fusicladium depressum** (B. et Br.) Sacc. — Syll. IV, p. 346. — f. 4291
Petroselini Sacc. Rev. Mycol. 1897, p. 53. — Hyphis tortuosis, curvulis, denticulatis, 70-80 \times 5-6; conidiis brevioribus, sed latioribus, 30-40 \times 6-10.

Hab. in foliis vivis Petroselini sativi in Gallia.

2. **Fusicladium Fagopyri** Oud. Konink. Akad. Wetensch. Amsterdam 4292

1897, p. 38. — Mycelio in parenchymate foliorum abscondito; hyphis fertilibus hypogenis, erectis, solitariis, fere contiguis, rectis v. flexuosis, interdum p. m. nodosis, continuis v. 1-septatis, olivascensibus, 70-80 \approx 7; conidiis acrogenis, solitariis ut plurimum ovatis, dilute olivaceis, continuis vel 1-septatis, 14 \approx 9.

Hab. in foliis Fagopyri esculenti in Hollandia. — Fungus valde noxius.

3. **Fusicladium Fraxini** Aderh. Hedw. 1897, p. 83, tab. IV, fig. 6 4293
(ex errore *F. Tremulæ*). — Hyphis unicellularibus, 20-35 μ . longis, sursum parum torulosis v. crenulatis, interdum curvatis: conidiis napiformibus, gracilibus, acutis, pallide flavido-viridibus, bicellularibus, raro uni-vel tricellularibus, 12-20 \approx 4-6.

Hab. in foliis siccis Fraxini excelsioris in Germania.

4. **Fusicladium Betulæ** Aderh. Centralbl. f. Bact. u. Parasitk. II, 4294
Abth. Bd. II, p. 57 et Hedw. 1897, p. 80, tab. IV, fig. 1. — Hyphis erectis, solitariis v. fasciculatis, torulosis, luteo-brunneis, 30-70 μ . longis; conidiis oblongis usque navicularibus, bi-raro tricellularibus, leniter constrictis, apice rotundatis v. obtuso-subacuminatis, basi transverse truncatis, 15-24 \approx 5-9.

Hab. in foliis vivis Betulæ albæ, B. pubescentis et affinium in Germania.

SCOLECOTRICHUM K. et S. — Syll. IV, p. 347, X, p. 599, XI, p. 618.

1. **Scolecotrichum Cardui** Schroet. Kryptog. Flora v. Schlesien. 1897, 4295
p. 497. — Maculis subrotundis v. angulosis, circiter $\frac{2}{3}$ -1 cm. et ultra latis, olivaceis; cæspitulis olivaceis; hyphis fasciculatis, 40-50 \approx 4-5, sursum attenuatis, apice arcuatis, olivaceis; conidiis plerumque clavatis, apice latioribus, 33-38 \times 7-10, medio uniseptatis, olivaceis.

Hab. in foliis Cardui Personatæ in Silesia.

2. **Scolecotrichum Euphorbiæ** Tracy et Earle, Bull. Torr. Bot. Cl. 4296
1896, p. 209. — Hypophyllum, cæspitulis prominulis, olivaceis; maculis nullis; hyphis numerosissimis, intricatis, longis, flexuosis, olivaceis, interdum septatis, cicatricibus pleurogenorum conidiorum instructis, 225-275 \approx 4-5; conidiis ovalibus v. obovatis, basi distincte cicatricosis, hyalinis, minute granulosi, continuis v. denique subtiliter uniseptatis, haud constrictis, 20-25 \approx 7-8.

Hab. in foliis Euphorbiæ Preslii in Mississippi et Alabama, Amer. bor.

3. **Scolecotrichum punctulatum** Tracy et Earle, Bull. Torr. Bot. Club. 4297

1895, p. 178. — Maculis amphigenis, indefinitis; hyphis minute cæspitosis, irregulariter flexuosis et nodulosis, olivaceis, 2-3-septatis, 60-70 \times 5-6; conidiis ovatis v. oblongis, utrinque obtuse rotundatis, fuscis, episporio distincte granuloso v. punctulato, typice uniseptatis, sed sæpe continuis, interdum etiam 3-septatis, 15-20 \times 6-8.

Hab. in foliis Iridis pabulariæ; Mississippi, Amer. bor.

4. **Scolecotrichum compressum** Allesch. Hedw. 1896, p. (34). — Cæspitulis gregariis, rotundis, olivaceis; hyphis dense fascioulatis, simplicibus, subnodosis atque inæqualibus, olivaceis, 50-60 \times 5-7; conidiis fuscoideo-obelavatis, 20-30 \times 6-8, uniseptatis, terminalibus, olivaceis. 4288

Hab. in foliis vivis Poæ compressæ pr. Berol. Germaniæ (SYDOW). — A. *Scolecotricho graminum* Fekl. hyphis brevioribus et conidiis brevioribus atque terminalibus diversum.

CLADOSPORIUM Link — Syll. IV, p. 350, X, p. 601, XI, p. 619.

1. **Cladosporium Menispermii** Allesch. Hedw. 1895, p. 220. — Cæspitulis suborbicularibus, lanosis, fulvis, ca. 2-4 mm. diam.; hyphis erectis, flexuosis, nodulosis, septatis, simplicibus, fulvis, 80-100 \times 4-6; conidiis ellipticis, oblongis subcylindraceis v. breve catenulatis, continuis, dein 1-3-septatis, leniter constrictis, fulvis, ca. 10-28 \times 5-6. 4299

Hab. in foliis languidis Menispermii canadensis in horto bot. monacensi.

2. **Cladosporium uvarum** Mc Alp. Add. fungi vine Austral. 1898, p. 47, fig. 72-74. — Effusum, olivaceum, crassiusculum; hyphis sterilibus, nodulosis, septatis, ramosis, flavo-viridulis brunneisque, 4-15 μ . cr., hinc inde inflatis; hyphis fertilibus, atro-virentibus, septatis, apicibus obtusis v. subtenuatis, pallidioribus, 5,5-6 μ . cr.; conidiis polymorphis globosis, ovoideis v. elongatis v. piriformibus, 10-19 \times 4-9, olivascenti-brunneis, 1-2-septatis v. continuis, levibus. 4300

Hab. in bacis emortuis Vitis viniferæ, Ardmona Australiæ (ROBINSON).

3. **Cladosporium aromaticum** Ell. et Ev. Proc. Acad. Philad. 1895, p. 439. — Epiphyllum, sparsum, maculis definitis nullis; hyphis sterilibus paucis, repentibus, ramosis; hyphis fertilibus vix cæspitosis, erectis, pallide olivaceis, septatis, ad septa constrictis, subgeniculatis, 30-70 \times 5; conidiis terminalibus, concatenatis, olivaceis, oblongo-cylindraceis, uniseptatis, non constrictis, 12-22 \times 5. 4301

Hab. in foliis vivis Rhois aromaticæ, California (Mc CLATCHEE).

4. **Cladosporium glæosporioides** Atk. Bull. Cornell Univ. III, n. 1, 4302
1897, p. 39. — Hyphis laxè fasciculatis, irregulariter flexuosis, obscuris, apice subhyalinis, quandoque leviter nodulosis, 80-120 \times 4-5; conidiis oblongis, basi subacutis, hyalinis.

Hab. in foliis *Ascyri stantis* et *Hyperici mutili*, Auburn, Alabama Amer. bor. — Conidia *Glæosporii* speciem optime simulant.

5. **Cladosporium** (?) **myriosporum** E. et D. Proc. of the Canad. Inst. 4303
1897, p. 90. — Cæspitulis erumpentibus, dein confluentibus, verruciformibus; hyphis junioribus valde ramosis, subhyalinis, 40-80 \times 3-6, conidia minuta hyalina 1 μ . longa gerentibus, dein ramis olivaceis, conidia majora, colorata gerentibus; conidiis maxime variabilibus oblongis, hinc obtusis, illinc acutatis, continuis 2-14 \times 1-4, septatis vero 10-30 \times 3-8, minutissime echinulatis.

Hab. in leguminibus *Pisi*, cui valde noxium, Ontario et Columbia britannica, Canada (Doct. et FLETCHER et B. C. BUFFUM).

6. **Cladosporium herbarum** (Pers.) Link-Sacc. Syll. IV, p. 350. — 4304
var. **Vincetoxici** Allesch. Hedw. 1897, p. (163). — Cæspitulis gregariis, compactis, atris; hyphis dense fasciculatis, paulum ramosis, nodulosis, septatis, pallide olivaceis; conidiis ovoideis v. oblongis, olivaceis, 1-3-septatis, ad septa constrictis, granulosis v. minute subechinulatis, 12-20 \times 5-7.

Hab. in caulibus emortuis *Vincetoxici* purpurascens pr. Berolinum Germaniæ (SYDOW).

7. **Cladosporium acutum** E. et D. Proc. of the Canad. Inst. 1897, 4305
p. 91. — Cæspitulis atris, 0,5-1 mm. diam., dense sparsis, hypophyllis, parce confluentibus; hyphis fertilibus cæspitosis, olivaceo-brunneis, subrectis, 3-5-septatis, 80-110 \times 3,5-4, oblique abrupteque apice acutatis; conidiis ellipsoideis, 1-septatis, 10-15 \times 6-8, denique brunneis.

Hab. in foliis dejectis *Fraxini*, London Canada.

8. **Cladosporium Fusicladium** Sacc. Malpighia XI, 1897, p. 321. — 4306
Maculis epiphyllis, variis albicantibus; acervulis compactis, erumpenti-superficialibus, punctiformibus, atris, 100-150 μ . diam., sæpe in parvos greges dispositis; conidiis fusioideis utrinque acutulis, uniseptatis, non constrictis, 15-21 \times 6 $\frac{1}{2}$ -7, olivaceo-fuscis; hyphis dense fasciculatis, erectis, cylindricis, 75-90 \times 6, pluriseptatis, apice conidiophoris, concoloribus.

Hab. in foliis languidis *Salicis incanæ*, Riva-Valsesia, Italia bor. (CARESTIA).

9. **Cladosporium Idesiæ** Bres. Hedw. 1896, p. (62). — Cæspitulis minimis, punctiformibus, dense gregariis, epiphyllis, fuseis ex maculis subrotundis vel irregularibus, canescentibus fusciduloque marginatis oriundis; hyphis simplicibus, fasciculatis, crebre septatis, luteis, 160-230 \times 6-7; conidiis obovatis vel ellipticis, 1-3-septatis, minute asperulis, luteis, 16-26 \times 10-13, haud vel vix constrictis.

Hab. ad folia Idesiæ sp., Berlin Germaniæ (SYDOW).

10. **Cladosporium sessile** Ell. et Barth. Erythea 1896, p. 83, *Cl. brevipes* Ell. et Barth. in Erythea 1896, p. 27, nec Peck. — Maculis orbicularibus, griseo-brunneis, obscuro-marginatis, 3-6 mm. diam.; hyphis amphigenis, brevibus, 12-15 μ . longis, cæspitosis, nigris; conidiis oblongo-fusoideis, luteolis, continuis v. 1-septatis, rarius 2-3-septatis, 12-15 \times 3.

Hab. in foliis vivis Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW).

11. **Cladosporium Trillii** Ell. et Ev. Proc. Acad. Philad. 1895, p. 430. — Acervulis effusis, schistaceis; hyphis septatis, brunneis, 60-70 \times 5-6; conidiis oblongis, brunneis, 1-3-septatis, 15-22 \times 5-7.

Hab. in foliis Trillii petiolati, socia *Phyllosticta Trillii*, Washington, Amer. bor. (PIPER).

12. **Cladosporium Xyridis** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, p. 206. — Petala incolens eaque nigrificans; hyphis effusis, gracilibus, haud nodulosis, ramosis, interdum septatis, fuliginosis, 3-4 μ . diam.; conidiis ovalibus v. subfusiformibus, mycelio pallidioribus, denique uniseptatis, 7-10 \times 4-5.

Hab. in petalis Xyridis fimbriatæ in Mississippi Amer. bor.

13. **Cladosporium Stanhopeæ** Allesch. Hedw. 1895, p. 221. — Maculis brunneis, dein nigris, stromatoideis, hypophyllis; hyphis simplicibus, rarius subramosis, leniter flexuosis, parce septatis, olivaceis (e basi stromatica oriundis?); conidiis ovoideis, oblongis v. subfusoideis, olivaceis, levibus, dein 1-4-septatis, ad septa constrictis, magnitudine valde varia, 10-20 \times 3-5.

Hab. in foliis languescentibus Stanhopeæ sp. in calidariis, München Baviaræ.

14. **Cladosporium Typharum** Desm. — Sacc. Syll. IV, p. 366. — forma minor P. Brun. Bull. Soc. Bot. de France 1889, p. 340. — Conidiis oblongis, 1-septatis, olivaceis, 2-guttulatis, 15-16 \times 8.

Hab. in foliis Typhæ latifoliæ in Gallia. — var. **fuscum** Karst. Hedw. 1896, p. 48. — Cæspitulis gregariis, oblongatis v. elongatis, erumpentibus, fuscis; hyphis fasciculatis, ascendentibus,

flexuosis, simplicibus, septatis, nodulosis; conidiis oblongatis, 1-3-septatis, fuligineis, usque ad 17×7 . In foliis emortuis *Typhæ latifoliæ* pr. *Mustiala Fennicæ*. — Hyphæ basi coalitæ, stratum compactum efformantes.

5. **Cladosporium javanicum** Wakk. Arch. v. de Java Suikerindustr. 4313
1896, Afd. 18, n. 28, tab. I. — Hyphis tenuibus, breve ramosis; conidiis in ramorum apicibus oriundis, ovalibus, minutis, $2\frac{1}{2}-3 \times 1\frac{1}{2}-2$.

Hab. in corticibus *Sacchari officinarum* in Java.

16. **Cladosporium compactiusculum** Sacc. et Syd. Sic nominandum est *Cladosporium subcompactum* Roum. et Karst. in Syll. X, p. 603, quum exstat antèrius *Cl. subcompactum* Sacc. in Syll. IV, p. 361.
17. **Cladosporium Oryzæ** Sacc. et Syd. Sic nominandum est *Cladosporium maculans* (Gatt.) Sacc. in Syll. IV, p. 365, quum exstat antèrius *Cl. maculans* Schw. in Syll. IV, p. 355.

CLADOTRICHUM Corda — Syll. IV, p. 370.

1. **Cladotrichum Leersicæ** Atk. Bull. Cornell Univ. III, n. 1, 1897, 4314
p. 40 — Hyphis sparsis v. subfasciculatis, in magnis areis olivaceo-brunneis insidentibus, flexuosis, geniculatis, nodulosis, ramosis v. simplicibus, $100-200 \times 4-5$; conidiis ovoideis, hyalinis, 1-septatis, $10-13 \times 9-11$, e nodis vel ex hypharum apicibus oriundis.

Hab. in foliis *Leersicæ virginicæ*, Auburn, Alabama Amer. bor.

2. **Cladotrichum socium** Penz. et Sacc. Malpighia XI, 1897, p. 503. 4315
— Hyphis crebris, erectis subsimplicibus, septatis, $200-300 \times 8-9$, fuligineis, sursum pallidioribus; conidiis constricto-didymis, 36×16 , fuligineis.

Hab. inter et supra acervulos *Valsariæ massarioidis*, Tjibodas, ins. Java.

Sect. 3. Phragmosporæ.

CLASTEROSPORIUM Schw. — Syll. IV, p. 382, X, p. 606, XI, p. 621.

1. **Clasterosporium pulvinatum** Ell. et Elv. Bull. Torr. Bot. Cl. 1897, 4316
p. 473. — Cæspitulis pulvinatis, orbicularibus, nigris, applanatis, $\frac{1}{2}-1$ mm. diam., margine epidermidis ruptæ dense cinctis; conidiis erectis, cirrosis, 12-15-septatis, vix constrictis, $100-120 \times 12-15$, angustatis.

Hab. in ramulis emortuis *Bigelovia* v. *Gutierrezia*, Colorado Amer. bor.

2. **Clasterosporium sigmoideum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4317 p. 472. — Olivaceo-nigrum, valde effusum; hyphis curvatis, septatis, subcæspitosis, 300-400 \times 6-7; conidiis late fusoidis, sigmoidis, utrinque opposito-curvatis, 4-rarius 5-septatis, ad septa leniter constrictis, loculis mediis brunneis, terminalibus hyalinis, 40-70 \times 12-15, plerumque apice subtruncatis.

Hab. in ramis emortuis *Castaneæ*, W. Virginia Amer. bor. (NUTTALL).

3. **Clasterosporium cornutum** Ell. et Ev. Field. Columb. Mus. IX, 4318 1896, p. 92. — Hyphis prostratis septatis, ramosis, brunneis, 6 μ . circiter crassis, effusis; conidiis binis trinis associatis, 10-14-septatis, 100-225 \times 14, basi latissimis, sursum gradatim attenuatis, basi curvulis, corniformibus, ad septa leniter constrictis, in hyphis sessilibus.

Hab. in ligno putri, Virginia Amer. bor. (NUTTALL).

4. **Clasterosporium kansense** Ell. et Barth. Erythea 1896, p. 28. — 4319 Cæspitulis effusis, tenuibus, atris, 1-3 mm. diam.; hyphis brevissimis v. obsoletis; conidiis oblongo-fusoidis, 3-septatis, lenissime constrictis, brunneis, 20 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$, utrinque obtuso-punctatis, rectis v. curvatis.

Hab. in telis putridis, Kansas, Amer. bor. (BARTHOLOMEW).

5. **Clasterosporium Zeæ** Sacc. et Syd. Sic nominandum est *Clasterosporium olivaceum* Ell. et Ev. in Syll. XI, p. 621, quum exstet anterius *Cl. olivaceum* (Wallr.) Sacc. in Syll. IV, p. 390.
6. **Clasterosporium Ellisii** Sacc. et Syd. Sic nominandum est *Clasterosporium Populi* Ell. et Ev. in Syll. XI, p. 621, quum exstet anterius *Cl. Populi* (Crouan) Sacc. in Syll. IV, p. 384.

STIGMINA Sacc. — Syll. IV, p. 394, XI. p. 622.

1. **Stigmina Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, p. 251. 4320 — Acervulis superficialibus minutissimis, 60-100 μ . diam, laxè gregariis. atris. macula destitutus; conidiis fusiformibus v. subclavulatis, utrinque obtusis, 18-25 \times 5-7, rectis v. lenissime subcurvulis, 2-septatis, ad septa constrictulis, loculis subæquilongis. levibus, fuligineo-olivaceis, dense congestis, non catenulatis, sterigmatibus 1-3-cellularibus 5-15 \times 5) noduloso-confluentibus suffultis.

Hab. ad folia viva v. languida *Sacchari* officinarum prov. Tucuman, Argentina.

2. **Stigmina pulchella** Speg. Rev. Agr. y Veter. La Plata 1896, 4321 p. 251. — Acervulis superficialibus repando-effusis, 200-500 .d., subpulverulentis aterrimis sparsis, macula destitutis; conidiis fusoides v. fusoides-clavulatis, utrinque v. inferne tantum acutis, 20-24 \times 6-8, sæpius curvulis, 3-rarius 4-septatis ad septa constrictulis, oculis subæqualibus, olivaceis, dense conglobatis, in ramulis brevissimis ex hyphis repentibus gracilibus septatis dense ramoso-intertextis, 2-5 μ . crass. chlorinis oriundis acrogenis.

Hab. in foliis, vaginis culmisque Sacchari officinarum, prov. Tucuman, Argentina.

SEPTONEMA Corda. — Syll. IV, p. 397, X, p. 609, XI, p. 622.

1. **Septonema arcticum** Allesch. in Allesch. et P. Hennings, Pilze 4322 aus dem Umanakdistrikt 1897, p. 15. — Cæspitulis minutis, sparsis; conidiis oblongo-fusoides, 3-septatis, concatenatis, brunneis, ca. 24 \times 4; hyphis brevibus, septatis, brunneis, a conidiis difficile distinguendis.

Hab. in foliis emortuis Cassiopes tetragonæ pr. Kome (v. DRYGALSKI) et pr. Tassiusak Groenlandiæ (VANHÖFFEN).

HELMINTHOSPORIUM Link — Syll. IV, p. 402, X, p. 610, XI, p. 623.

1. **Helminthosporium Lunariæ** Pollacci, Atti Ist. bot. Pavia, 2 ser. V, 4323 1897, p. 7 extr., tab. VII, fig. 12-14. — Maculis circularibus, regularibus; hyphis brevibus, fasciculatis, simplicibus, fuscis, continuis, 1-vel 2-septatis, apice rotundis; conidiis clavatis, fuscis, 88-120 \times 10-15,5.

Hab. in foliis vivis Lunariæ biennis in horto bot. Ticinensi Ital. bor.

2. **Helminthosporium Iberidis** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 4324 1897, p. 3 extr., tab. VII, fig. 18-20. — Maculis rotundis; mycelio effuso, fusco; hyphis fasciculatis, fuscis, brevibus, interdum inflatulis et septatis, 20-30 μ . longis; conidiis subclavatis, 5-11-septatis, fuscis, 77-155 \times 11-20, interdum loculo extremo acuto hyalino pedicelliformi.

Hab. in foliis vivis Iberidis in horto bot. Ticinensi Ital. bor.

3. **Helminthosporium rhopaloides** Fres-Sacc. Syll. IV, p. 420. — 4325 forma **Sedi** P. Brun. Bull. Soc. Sc. Nat. de l'ouest de la France 1894, p. 38. — Conidiis 80-85 \times 12.

Hab. in caulibus Sedi Fabariæ in Gallia. — forma **Bambusæ**

P. Brun. l. c. — Conidiis rectis vel curvulis, 40-50 \times 6-8. In foliis exsiccatis Bambusæ arundinacæ in Gallia.

4. **Helminthosporium Tapuræ** Allesch. Hedw. 1897, p. 245. — Cæ- 4326
spitululis epiphyllis, maculas circulares, aterrimas, 1 cm. diam. formantibus; hyphis fasciculatis, erectis, rigidis, ca. 120-140 \times 6-7, indistincte septatis, nigro-fuscis; conidiis clavatis, 2-5-septatis, ca. 40-50 \times 6-10, cinereo-brunneis.

Hab. ad folia Tapuræ spec. pr. Goyaz Brasiliæ (GLAZIOU).

5. **Helminthosporium Solani** Mc Alp. Agr. Gaz. Sydney VI, 1896, 4327
p. 6, fig. 29-32. — Cæspitululis amphigenis cauliculisque, atris, minutis, circularibus v. irregularibus, sæpe confluentibus; hyphis confertissimis, rigidis, obscure brunneis, crasse tunicatis, septatis, ramosis, utrinque pallidioribus, 8 $\frac{1}{2}$ μ . crassis; conidiis atro-brunneis, levibus, ellipticis, vermicularibus, 4-septatis, plerumque utrinque rotundatis, in ramulis fertilibus acro-vel pleurogenis, 36-44 \times 14-15 $\frac{1}{2}$.

Hab. in foliis, petiolis et caulibus Solani viridis in Australia.

6. **Helminthosporium Tomato** Ell. et Barth. Bull. Torr. Bot. Cl. 1897, 4328
p. 473. — Orbiculare, atrum, definitum, 1 $\frac{1}{2}$ -2 cm. effusum; hyphis fertilibus erectis, olivaceo-brunneis, septatis, geniculatis curvatisque, apice processibus 1-2 brevibus, hyalinis, rudimentariis præditis, 40-60 \times 3 $\frac{1}{2}$ -4, ex hyphis prostratis repentibus assurgentibus; conidiis oblongis, brunneis, 1-3-septatis, non constrictis, utrinque obtusis, plerumque leniter curvulis, 15-27 \times 8-13.

Hab. in fructibus Lycopersici putridis, Kansas Amer. bor. (BARTHOLOMEW).

7. **Helminthosporium micreserum** D. Sacc. Malp. 1898, p. 219, t. VIII, 4329
f. 18, Myc. ital. n. 194. — Cæspitululis gregariis, superficialibus, minutis, aterrimis, $\frac{1}{3}$ - $\frac{1}{2}$ mm. diam., hyphis dense fasciculatis, erecto-divergentibus, pluriseptatis, simplicibus, cylindræis, 300-350 \times 12, fuliginæis; conidiis acrogenis, obverse clavatis, 110-135 \times 15-18, majusculis, 7-10-septatis, loculis cuboideis, crasse tunicatis, hinc lumine sæpius angusto.

Hab. in ramulis corticatis emortuis, sed adhuc stantibus, Quercus Ilicis. — Ab affini *Helm. macrocarpo* Grev. differt hyphis in cæspitulos discretos aggregatis et conidiis fere duplo longioribus. Conidia initio obovato-clavata, tandem vero sursum attenuata.

8. **Helminthosporium Resinæ** Bres. Malpighia XI, 1897, p. 322. — 4330
Effusum, nigrum, dense floccosum; hyphis longissimis intricatis, simplicibus v. ramosis, laxè septatis, 6-8 μ . crassis, sæpe tor-

tuosis, olivaceo-fuliginis: conidiis fusoidæo-cylindraceis, acro-pleurogenis, 10-12-septatis, ad septa non constrictis, rectis v. leniter curvulis, utrinque obtusulis, 90-110 \times 9-10, concoloribus.

Hab. in resina Laricis europæe et Abietis pectinatae, Riva-Valsesia, Italia (OANESTIA). — Status conidiophorus *Limacinæ Resinæ* Sacc. et Bres.

9. **Helminthosporium Phragmidium** Pound et Clem. Bot. Surv. of Nebraska IV, Lincoln. 1896, p. 6. — Late effusum, velutinum, primo album, dein avellaneum, 1 cm. latum; hyphis longissimis, ramis numerosis lateralibus alternatim dispositis, multiseptatis, hyalinis, 160-300 \times 2 $\frac{1}{2}$ -5; conidiis solitariis, erectis, obclavatis, levibus, pallide griseis, ad septa constrictis, 3-7-septatis, 45-70 \times 10-15. 4331

Hab. in ligno in caldariis pr. Lincoln in Nebraska Amer. bor.

10. **Helminthosporium brachypus** Ell. et Ev. Field Columb. Mus. IX, 1896, p. 92. — Cæspitulis effusis, brunneo-nigris, velutinis, tenuibus; hyphis sterilibus repentibus parce ramosis, obscure septatis, curvatis; fertilibus erectis cæspitosis, 40-50 \times 4-6, apicibus abrupte constrictis subtruncatisque 2-3-septatis; conidiis terminalibus oblongo-fusoideis, 5-septatis, brunneis, ad septa non constrictis, 30-40 \times 12-14, pedicello brevi 8-10 μ . longo, obconico, hyalino v. pallide brunneo persistente, interdum in filamentum hyalinum, sporam æquans elongato suffultis. 4332

Hab. in ligno vetusto, W. Virginia Amer. bor. (NUTTALL).

11. **Helminthosporium conspicuum** Mc. Alp. Proc. of the Linn. Soc. of N. S. Wales, 1897, p. 40, tab. 1, fig. 10-11. — Hypophyllum. velutinum, plagulas effusas, fuligineas, conspicuas, circiter 2 cm. diam. efficiens; mycelio ex hyphis viridibus gracilibus septatis ramosis in hyphas brunneas transeuntibus composito; hyphis sterilibus brunneis repentibus, crassissime tunicatis, 7 $\frac{1}{2}$ μ . latis, ramosis; fertilibus simplicibus, erectis, rigidis, brunneis, rectis v. undulatis, apice rotundatis sæpeque pallidioribus, usque ad $\frac{1}{2}$ mm. altis, 5 μ . crassis; conidiis intense brunneis, fusoideis v. elongato-fusoideis, utrinque vel uno apice subacutis, sæpe basin versus attenuatis, non constrictis, plerumque 3-septatis, 24-28 \times 5 $\frac{1}{2}$ -6 $\frac{1}{2}$. 4333

Hab. in foliis plantæ ignotæ, N. S. Wales Australiae (MAIDEN).

12. **Helminthosporium tuberosum** Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 47. — Cæspitulis distinctis, distantibus; hyphis e stromate tuberoso erumpente extus nigro intusque hyalino e cellulis minutis composito ascendentibus, nigris, septatis, 100-300 \times 10-12, apice vulgo dilutioribus, irregulariter curvulis v. flexuosis, levibus; 4334

conidiis oblongis rarius subclavatis, olivaceis, rectis, crasse tunica-
tis, 4-7-septatis, 50-100 × 12-14.

Hab. in culmis putrescentibus Secalis Cercalis, Auburn,
Alabama Amer. bor.

13. **Helminthosporium Leersii** Atk. Bull. Cornell Univ. III, n. 1, 4335
1897, p. 47. — Maculis irregulariter oblongis amphigenis, initio
atro-brunneis, dein sordide albidis ac linea atro-brunnea margina-
tis; hyphis amphigenis brunneis, irregulariter nodulosis v. flexuo-
sis, 200-350 × 4-6; conidiis leniter curvulis, 5-9-septatis, ellipticis,
subfuliginosis.

Hab. in foliis Leersie virginicæ, Auburn. Alabama Amer.
bor. — *H. turcico* affine.

14. **Helminthosporium flagelloideum** Atk. Bull. Cornell Univ. III, 4336
n. 1, 1897, p. 47. — Maculis indefinitis, nigris; hyphis amphige-
nis paucis, in cæspitulos aggregatis, firmis, fuligineo-brunneis, fle-
xuosis nodulosisque, 4-8-septatis, 50-120 × 7-9; conidiis fuliginosis,
ellipticis, supra in flagellum longum hyalinum gracile elongatis,
7-9-septatis, 70-150 μ . longis.

Hab. in foliis Panicæ, Auburn, Alabama Amer. bor.

15. **Helminthosporium geniculatum** Tracy et Earle, Bull. Torr Bot. 4337
Cl. 1896, p. 207. — Spiculas incolens easque nigrificans; hyphis
tenuibus effusis, flexuosis nodulosisque, septatis, atro-fuscis, 100-
125 × 4-5; conidiis obtuse fusoides, plerumque 4-septatis, fu-
scis, loculo centrali obscuriore, dilatato ibique plerumque abrupte
geniculatis, loculis terminalibus dilutioribus subhyalinis, 35-40 × 8-10.

Hab. in spicis Eragrostidis rachitricæ, Mississippi
Amer. bor.

BRACHYSPORIUM Sacc. — Syll. IV, p. 423, X, p. 617, XI, p. 624.

1. **Brachysporium Pisi** Oud. Konink. Akad. Wetensch. Amsterdam. 4338
1897, p. 87, o. fig. — Acervulis effusis, tenuibus, nigrescentibus,
amphigenis, mycelio in parenchymate foliorum abscondito, repente,
fuscescente, vage ramoso, flexuoso, p. m. gibboso; hyphis fertili-
bus trans ipsam epidermidem assurgentibus, fuliginosis, solitariis
vel basi spurie cæspitosis, septatis, levibus vel prope septa p. m.
torulosis, 100-250 × 5-6, apice conidio singulo onustis; conidiis elli-
pticis, utrinque late rotundatis, adultis 3-septatis, ad septa minime
constrictis, dilute fuliginosis, minutissime echinulatis, 28-30 × 11-12.

Hab. in foliis vivis Pisi sativi in Hollandia.

2. **Brachysporium pedunculatum** Ell. et Ev. Proc. Acad. Philad. 1895, 4339

p. 440. — Cæspitibus punctiformibus, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam., erumpentibus, epidermide rupta dense limitatis; hyphis sterilibus numerosis, 6-8 ρ . crassis, ramosis, parce septatis, curvatis, hyalinis, intricatis; conidiis oblongis v. ovatis, biseptatis, vix constrictis, brunneis; basidiis brevibus, ovoideis, brunneolis, persistentibus. 12-15 \times 6-8.

Hab. in ramis Sambuci glauci, Washington, Amer. bor. (PIPER).

HETEROSPORIUM Klotzsch — Syll. IV, p. 480. X, p. 657, XI, p. 630.

1. **Heterosporium groenlandicum** Allesch. in Allesch. et P. Hennings, 4340
Pilze aus dem Umanakdistrikt. 1897, p. 15. — Cæspitulis minutis, sparsis, epiphyllis, fuscis; hyphis fertilibus erectis, subnodulosis, basi sæpe incrassatis, septulatis, olivaceo-brunneis; conidiis polymorphis, oblongis, subechinulatis, brunneis, 1-3-septatis, ca. 18-24 \times 6-10.

Hab. in foliis emortuis *Papaveris nudicaulis* pr. Umanak Groenlandiæ (VANHÖFFEN).

2. **Heterosporium Sambuci** Earle, Bull. Torr. Bot. Cl. 1897. p. 30. 4341
— Effusum, velutinum, atrum; hyphis longis, 100-200 μ ., atrofuscis, erectis, sæpe fasciculatis, ramosis septatisque, nodulosis; conidiis in hypharum nodulis pleurogenis, oblongis, atrofuscis, 3-septatis, tuberculis minutis conspicue asperatis, circiter 20-30 \times 5.

Hab. in ramis emortuis *Sambuci* pr. Auburn, Alabama Amer. bor. (UNDERWOOD).

3. **Heterosporium Pretaus** Starb. Bot. Centralbl. 1895, Bd. 64, p. 382. 4342
— Cæspitulis hypophyllis, laxe gregariis, in maculis aridis foliorum insidentibus, ex hyphis fasciculatis, interdum ad basim conglutinatis stipitemque formantibus compositis; hyphis 95-150 \times 4 $\frac{1}{2}$ -6 $\frac{1}{2}$; conidiis e nodulis hypharum oriundis et forma et magnitudine valde variis, cylindræis v. cylindræo-ellipsoideis, 3-septatis, 16-24 \times 4 $\frac{1}{2}$ -8, 2-septatis, 14-15 \times 6-7, 1-septatis, 9-15 \times 3-7 $\frac{1}{2}$ vel globosis, quæ rarissime adsunt, 5-6 μ . diam., conspicue autem et densissime echinulatis.

Hab. in foliis *Quercus* in Suecia. — *H. echinulato* affine, conidiis vero proteiformibus, aliis notis exceptis, dignoscendum.

4. **Heterosporium Allii** Ell.-Sacc. Syll. IV, p. 480. — var. **Bomareæ** 4343
Pat. Bull. Soc. Myc. de Fr. 1895, p. 233. — Maculis amphigenis, fusco-brunneis, elongatis, confluentibus; cæspitulis hypophyllis, confertissimis, minutis, cinereis, dein fuscis; hyphis erectis, dilute fu-

liginosis, nodulosis, septatis, 6-8 μ . crassis; conidiis ovatis, inferne attenuatis truncatisque, superne rotundatis, continuis v. 2-3-septatis, pallide fuscis, minutissime punctatis, 20-26 \times 8-9.

Hab. in foliis Bomareæ in Æquatoria (v. LAGERHEIM).

5. **Heterosporium gracile** (Wallr.) Sacc. - Syll. IV, p. 480. — var. **Muscari-⁴³⁴⁴**
ridis Pat. Enum. Champ. Tunisie 1892, p. 18, tab. II, fig. 10.
 — A typo differt hyphis longioribus, magis torulosis conidiisque
 utrinque attenuatis, non cylindræco-obtusis.

Hab. in foliis vivis Muscari comosi in Tunisia.

ACROTHECIUM Preuss — Syll. IV, p. 483, X, p. 662.

1. **Acrothecium Ebuli** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 18 ⁴³⁴⁵
 extr. — Hyphis fertilibus erectis, gregariis, filiformibus, 2-3-septa-
 tis; conidiis in apice hypharum ortis, cylindræco-oblongis, 3-se-
 ptatis constrictisque, guttulatis, fuligineis, 17-18 \times 4 $\frac{1}{2}$ -5.

Hab. in caulibus exsiccatis Sambuci Ebuli, Saintes Galliæ.

2. **Acrothecium recurvatum** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, ⁴³⁴⁶
 1895, p. 44, tab. III, fig. 21. — Cæspitulis effusis, tenuibus, brun-
 neis; hyphis sterilibus repentibus, gracillimis, obsolete, fertilibus
 longis gracilibus, erectis, septatis, brunneis, apice conidia gerenti-
 bus; conidiis oblongis v. oblanceolatis, 3-septatis, hyalinis, in den-
 ticulis apicem hyalinorum recurvatorum minutis uniseriatim na-
 scentibus, non in capitulum apicale congestis, 25-30 \times 7-8.

Hab. in ligno putrido, Ohio Amer. bor.

3. **Acrothecium lunatum** Wakker, De Ziekten van het Suikerriet op ⁴³⁴⁷
 Java Leiden 1898, p. 196. — Hyphis sterilibus repentibus atro-
 fuligineis irregulariter septatis ramosisque; fertilibus erectis atro-
 fuligineis septatis, apice 3-4 conidiiferis; conidiis atro-fuligineis,
 3-septatis, curvatis, lunæformibus, basi et apice rotundatis, cellulis
 terminalibus subhyalinis, 30 \times 10.

Hab. in foliis emortuis Sacchari officinarum in Java.

DENDRYPHIUM Wallr. — Syll. IV, p. 487, X, p. 662, XI, p. 631.

1. **Dendryphium curtipes** Ell. et Barth. Erythea 1896, p. 82. — Hy- ⁴³⁴⁸
 phis cæspitosis, brevibus, 30-40 \times 8, obscure septatis, simplicibus;
 conidiis truncato-fusoideis, 40-50 \times 8-9, 6-8-septatis, brunneis, sub-
 opacis.

Hab. in ligno putri, Kansas Amer. bor. (BARTHOLOMEW).

Sect. 4. Dictyosporae.

SPORODESMIUM Link — Syll. IV, p. 497, X, p. 665, XI, p. 632.

1. **Sporodesmium Sydowianum** Allesch. Hedw. 1897, p. (164). — 4349

Acervulis seu caespitulis primo epidermide tectis, dein erumpentibus, punctiformibus, subrotundatis, pallide fuscis; conidiis elongatis v. clavatis, deorsum attenuato-stipitatis, pluri-(ad 10) septatis muriformibusque, ad septa constrictis, melleis, ca. 40-70 \times 9-18, denique in articulos globosos, ca. 6-7 μ . diam. dilabentibus.

Hab. in caulibus emortuis *Sisymbrii latifolii* in horto botan. Berolinensi Germaniae (SYDOW).

2. **Sporodesmium quadratum** Atk. Bull. Cornell Univ. III, n. 1, 1897, 4350

p. 40. — Caespitulis nullis, sed plagulas tenues effusas hypophyllas efficiens; conidiis in pedicellis mycelii brevibus gracilibus hyalinis v. fuscidulis ortis; irregulariter globosis, ex olivaceo nigris, loculis minutis.

Hab. in foliis *Cratægi*, Auburn, Alabama Amer. bor. — Ob septa media conidia saepe faciem quadratam praebent.

3. **Sporodesmium punctans** Ell. et Ev. Proc. Acad. Philad. 1895, 4351

p. 439. — Sparsum, punctiforme; conidiis caespitosis, breve stipitatis, variis, subglobosis, 20-32 μ . diam., v. clavatis, obpiriformibus, clathrato-septatis, brunneis, 25-75 \times 12-20, pedicello brevi 12-20 μ . longo, septato incluso.

Hab. in cortice *Planeræ aquaticæ*, Louisiana, Amer. bor. (LANGLOIS).

4. **Sporodesmium exasperatum** Ell. et Barth. Erythea 1896, p. 29. 4352

— Pulvinatum, 1-4 mm. diam., subconfluens, atrum; conidiis variis, globosis v. subglobosis, 5-7 μ . diam. vel obovatis irregularibus, 10-20 μ . diam., 1-septatis, 4-vel varie septatis, subpedicellatis, verrucis minutis subhyalinis tectis.

Hab. ad lignum quercinum in cellario, Kansas, Amer. bor. (BARTHOLOMEW).

5. **Sporodesmium suffultum** Pound et Clem. Bot. Surv. of Nebraska, 4353

IV, Lincoln 1896, p. 6. — Caespitulis gregariis, superficialibus, granulosis, botryoideis, nigris; hyphis sterilibus repentibus, fuliginosis, ramosis, torulosis; hyphis fertilibus erectis, unicellularibus, latis, turgidis, hyalinis, conidiorum diametrum æquantibus, 25-35 \times 15-20; conidiis dense congestis, globosis v. globoso-oblongis, raro

oblongis, opacis, brunneo-fuscis, irregulariter denseque polygono-areolatis v. radiato-septatis, rarissime muriformibus, 25-35 \times 25.

Hab. in ramis decorticatis Populi moniliferæ in Nebraska Amer. bor.

STIGMELLA Lév. — Syll. IV, p. 507, X, p. 667, XI, p. 633.

1. **Stigmella Cratægi** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 475. 4354

— Hypophylla; cæspitulis punctiformibus, subeffusis, nigris; hyphis repentibus hyalinis, ramosis; conidiis in apicibus pedicellorum brevium, globosis, ellipticis v. oblongo-ellipticis, olivaceo-brunneis, 1-3-septatis, submuriformibus.

Hab. in foliis Cratægi parvifoliæ, Newfield N. Jersey, Amer. bor.

2. **Stigmella Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, p. 251. 4355

— Acervulis superficialibus minutis, 100-150 μ . diam., orbicularibus, pulvinulato-convexis, e compactiusculo pulverulentis atris sparsis v. laxe gregariis, macula nulla v. diffusa indeterminata vix pallescente insidentibus; conidiis ellipsoideis v. ovatis superne acutiusculis, 20-30 \times 10-15, dense congestis, septis horizontalibus 3 divisis, loculis duobus mediis (rarius etiam supremo) septo altero (rarissime deficiente) verticali continuo divisis, opace fuliginis, loculo infimo sæpius pallidore, pedicello breviusculo, 5-20 \times 2, mox fatiscente hyalino fultis.

Hab. in foliis, vaginis culmisque Sacchari officinarum, prov. Tucuman, Argentina.

CONIOTHECIUM Corda — Syll. IV, p. 508, X, p. 668, XI, p. 633.

1. **Coniothecium Rubi** Peck, 48 Rep. 1896, p. 15. — Tenuiter effu- 4356

sum, olivaceo-griseum; conidiis in glomerulos magnitudine numeroque cellularum varios coalescentibus; conidiis 15-17 μ , diam.; glomerulis 40 μ . diam.

Hab. in truncis et ramis attritu læsis Rubi Idæi etc. culti Menands Amer. bor. — Microconidia hyalina, ellipsoidea, 7 \times 5 commixta adsunt.

2. **Coniothecium intricatum** Peck, 49 Rep. Stat. Bot. N. York 1896, 4357

p. 22. — Cæspitulis sæpe confluentibus, crustam continuam v. interruptam tenuem formantibus; conidiis variis, subglobosis, ellipticis, oblongis v. irregularibus, 15-40 μ . longis, e cellulis paucis vel numerosis subglobosis v. angulosis coloratis 8 μ . latis compositis, hyphis paucis brevibus coloratis æquicellularibus suffultis.

Hab. in ramis *Piri communis*, New York Amer. bor.

3. *Coniothecium saccharinum* Peck, 49 Rep. Stat. Bot. N. York 1896, 4358 p. 21. — Cæspitulis effusis, crustam tenuem continuam v. interruptam interdum a matrice separabilem nigram formantibus; conidiis inæqualibus, variis, subglobosis, ellipticis v. irregularibus, 26-40 μ . longis, coloratis, opacis, e cellulis paucis v. pluribus compositis, cellulis 10-13 μ . latis.

Hab. in foliis et ramis *Pruni*, New York Amer. bor.

4. *Coniothecium Syringæ* Speschnew, Les paras. Cakhetic, 1898, p. 226. 4359 — Amphigenum; maculis indeterminatis, epiphyllis, magnis, olivaceis; hyphis fertilibus simplicibus, sparsis, flexuosis, nodulosis, 40-100 \times 4-5; conidiis fusiformibus; conidiis aliis ellipsoideis v. ovoideis, olivaceis, 10-17 \times 5-7.

Hab. in foliis *Syringæ vulgaris*, Cakhétia Caucasïæ. — Ad cyclum *Capnodii* sp. pertinet.

5. *Coniothecium glumarum* Sacc. sp. n. — Acervulis punctiformibus, 4360 aterrimis dense gregariis et subinde maculas nigras formantibus, superficialibus; hyphis mycelicis repentibus simplicibus ramosisque toruloso-septatis, 8-9 μ . cr., ochraceo-fuscis, cellulis grosse guttatis; conidiis versiformibus, globosis, ovatis, oblongis angulosisque e cellulis 6-20 laxè cohærentibus formatis, constricto-sarciniformibus, 25-50 μ . d. atro-fuliginis, cellulis subgloboso-cuboideis, 8-9 μ . diam., grosse nucleatis; microconidiis (ex conidiis generatis?) ovato-ellipticis, subhyalinis, copiosis, 7 \times 4, sæpe biguttatis simulateque 1-septatis.

Hab. in glumis nondum emortuis *Phragmitis communis*, Prencov Hungariæ (KMET).

TETRAPLOA B. et Br. — Syll. IV, p. 516.

1. *Tetraploa divergens* Tracy et Earle, Bull. Torr. Bot. Club. 1895, 4361 p. 198. — Soris nigris, irregulariter linearibus; conidiis late ovalibus, obscure fuliginis, 12-14 \times 8-9, apice quaternatis, loculis plerumque bisoptatis, corniculo terminali obtuso, semipellucido continuo, divergente 4-5 μ . longo.

Hab. in foliis vivis v. languidis *Panicis agrostidiformis*, Mississippi, Amer. bor.

STEMPHYLIUM Wallr. — Syll. IV, p. 519, X, p. 671, XI, p. 634.

1. *Stemphylium laxum* Ell. et Ev. Proc. Acad. Philad. 1895, p. 440. 4362 — Effusum, nigrum, tenue, pubescens; hyphis decumbentibus, hya-

linis, numerosis, 8-10 μ . diam., continuis; conidiis subglobosis, 30-50 μ . diam., interdum binis v. trinis connatis, laxè compactis, terminalibus v. lateralibus; cellulis globosis, brunneis, 8-10 μ . diam.

Hab. in caulibus emortuis *Bigeloviæ graveolentis*, Colorado, Amer. bor. (CRANDALL).

2. **Stemphylium subradians** Ell. et Ev. Proc. Acad. Philad. 1835, 4363 p. 441. — Atrum, tenue, velutinum, effusum, 2-10 mm. longum, ramulicolum; hyphis decumbentibus, brunneis, continuis v. subtiliter septatis, $2\frac{1}{2}$ -3 μ . diam., laxè reticulatis, radiantibus; conidiis subglobosis, 20-30 μ . diam., ex ramulis lateralibus v. pedicellis oriundis; cellulis globosis, brunneis, 5-8 μ . diam.

Hab. in ramis emortuis *Loniceræ involueratæ*, Colorado, Amer. bor. (CRANDALL).

3. **Stemphylium macrosporoideum** (B. et Br.) Sacc. Syll. IV, p. 519. 4364 — f. *roseum* Fautr. Rev. Mycol. 1896, p. 71. — Late effusum, tenue, oculo nudo roseum; hyphis sub microsc. subdecoloribus; conidiis forma varia, sæpe cruciato-septatis, olivaceis.

Hab. ad lignum *Fagi* fabrefactum in Gallia.

4. **Stemphylium heterosporum** Dom. Sacc. Atti d. Soc. Ven.-Trent. 4365 di Sc. Nat. 2 ser. 2 vol. 2 fasc. 1896, p. 477 et Bull. Soc. Myc. de Fr. 1896, p. 79, t. VII, f. 7. — Effusum, castaneo-atrum, velutinum; hyphis filiformibus, dense intricatis, longissimis, decumbentibus, parce ramosis, septatis, 5 μ . diam., olivaceo-fuliginis, æqualibus; conidiis acro-pleurogenis et subinde intercalariis, versiformibus, globosis v. ovoideis v. ovoideo-oblongis constrictisque v. angulosis, 50-90 \approx 40-60, dense clathrato-septatis, fuliginis, dein prorsus opacis.

Hab. in petiolis cæsis emortuis *Chamæropis excelsæ* in horto bot. Patavino, Italia.

MACROSPORIUM Fr. — Syll. IV, p. 523, X, p. 672, XI, p. 634.

1. **Macrosporium Clematidis** Peck, Bull. Torr. Bot. Club. 1895, p. 493. 4366 — Maculis minutis, $\frac{1}{2}$ - $\frac{3}{4}$ cm. latis, suborbicularibus, albidis, griseis v. brunneolis, sæpe plus minus distincte brunneo-marginatis; hyphis amphigenis, cæspitosis v. tenue effusis, coloratis, septatis, flexuosis, 52-105 \approx 6 $\frac{1}{2}$ -8; conidiis obovatis v. subelavatis, 3-4-septatis, ad septa plerumque constrictis, 26-40 \approx 13, pedicello sporam subæquante.

Hab. in foliis vivis v. languidis *Clematidis Fremonti*, Kansas, Amer. bor. (BARTHOLOMEW).

2. **Macrosporium Violæ** Pollacci, Atti Ist. bot. Pavia 2 ser. V, 1897, 4367
p. 2 extr. tab. VII, fig. 1-5. — Maculis circularibus, regularibus, ochraceis; mycelio hyalino et toto parenchyma invadente; hyphis olivaceis, rigidiusculis, erectis, septatis, septis transversalibus et longitudinalibus, raro nodulosis, in fasciculos minutos congestis, hyphis basi inflatulis, 60-70 μ . longis; conidiis clavatis, oblongis et basi attenuatis, magnitudine variis, 40-90 \times 16, septato-muriformibus, olivaceo-fuscis, initio sarciniformibus, dein ad septa non constrictis.

Hab. in foliis vivis Violæ odoratæ in horto bot. Ticinensi Ital. bor.

3. **Macrosporium Brassicæ** Berk.-Sacc. Syll. IV, p. 526. — var. **macrosporium** Eliasson, Fungi Upsalienses in Bih. K. Sv. Vet.-Akad. Handl. Bot. XXII, Afd. III, N. 12, 1897, p. 18, fig. 3. — Conidiis (cum pedicello) 115-240 \times 20-25, 6-11-septatis. 4368

Hab. in foliis Brassicæ oleraceæ in horto bot. Upsaliensi in Suecia.

4. **Macrosporium Mac-Alpëanum** Sacc. et Syd. **Macrosporium Pelargonii** Mc Alp. Agr. Gaz. Sydney, n. 11 Novbr. p. 6, fig. 17-18 nec Ell. et Ev. — Maculis magnis, $\frac{1}{3}$ -1 cm. diam., amphigenis, luteo-brunneis, orbicularibus, interdum irregularibus confluentibusque, purpureo-marginatis; hyphis subfasciculatis, septatis, ad septa non constrictis, luteo-virescentibus, interdum torulosis, 5 $\frac{1}{2}$ -6 μ . crassis; conidiis luteo-virescentibus, clavatis v. ovoideis, 2-7-septatis, in longitudine varie septatis, sæpe in pedicellum exilem attenuatis, 20-57 \times 8 $\frac{1}{2}$ -17. 4369

Hab. in foliis vivis Pelargonii zonalis, Victoria Australiæ.

5. **Macrosporium Malvæ-vulgaris** Eliasson, Fungi Upsalienses in Bih. K. Sv. Vet.-Akad. Handl. Bd. XXII, Afd. III, N. 12, 1897, p. 18, fig. 4. — Cæspitulis dense sparsis, in macula subcirculari, nigro-grisea, viridi-marginata dispositis, amphigenis; hyphis fasciculatis, erectis, nodulosis, non vel parce (1-2)-septatis, pallide fuscis, simplicibus vel interdum apice simpliciter ramulosis, 50-60 \times 5-7; conidiis 40-100 \times 12-15, olivaceis, 5-12-transverse septatis, uno alterove septo longitudinali præditis, ad septa non vel leniter constrictis, plus minus clavatis, vertice rotundatis, basi angustatis, breviter pedicellatis. 4370

Hab. in foliis vivis Malvæ vulgaris ad Flottsund in Suecia.

6. **Macrosporium commune** Rabh.-Sacc. Syll. IV, p. 524 — f. **Brassicæ** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 18 extr. — Co- 4371

nidiis obovalibus brunneis, episporio granuloso, 3-septatis constrictisque, $17\frac{1}{2} \approx 12$.

Hab. in foliis exsiccatis Brassicæ, Saintes Galliæ. — f. **Heraclei** P. Brun. l. c. conidiis oblongis muriformibus, olivaceis, parum granulosis, $20 \approx 9$. In caulibus Heraclei Sphondylii, Fouras Galliæ.

7. **Macrosporium heteronemum** (Desm.) Sacc.-Syll. IV, p. 524 — 4372
f. **Heraclei** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 19 extr.
— Conidiis longe pedicellatis, oblongo-clavatis, 3-7-septato-cellulosis, brunneis, interdum in longitudine non septatis, $55 \approx 15$.

Hab. in caulibus emortuis Heraclei Sphondylii, Fouras Galliæ.

8. **Macrosporium Cheiranthi** (Lib.) Fr.-Sacc. Syll. IV, pag. 525 — 4373
f. **Petroselini** Sacc. Rev. Mycol. 1897, p. 54. — Maculis griseis orbiculo obscuriore circumscriptis; hyphis solitariis v. nonnullis consociatis, erectis, brunneis, septatis, $60-80 \approx 5-6$; conidiis acrogenis, clavatis v. piriformibus v. etiam difformibus, olivaceis, dein obscuris, transverse 3-7-septatis, in longitudine irregulariter uniseptatis.

Hab. in foliis vivis Petroselini sativi in Gallia.

9. **Macrosporium cucumerinum** Ell. et Ev. Proc. Acad. Philad. 1895, 4374
p. 440. — Epiphyllum; maculis orbicularibus, subconfluentibus, ferrugineis, 3-4 mm. diam., centro dein albescentibus; hyphis fasciculatis v. solitariis, subgeniculatis, 1-3-septatis, $35-50 \approx 5-6$; conidiis clavatis, gracili stipitatis, 3-8-septatis, vix constrictis, submuriformibus, $30-75 \approx 15-25$, pedicello $25-35 \mu$. longo.

Hab. in foliis vivis Cucumeris Melonis, Mexico (Wostox).

— *M. Solani* affine, sed differt pedicello gracili et conidiis plerumque minoribus.

10. **Macrosporium negundinicum** Ell. et Barth. Erythea 1897, p. 50. 4375
— Hypophyllum; cæspitulis in areis foliorum subindefinitis albicantibus, sparsis per totum folium, subcandidis; hyphis erectis, simplicibus, parce septatis, $35-45 \approx 5$, fumoso-hyalinis v. brunneis, plerumque solitariis, sed etiam interdum cæspitosis, haud numerosis; conidiis clavatis, stipitatis, 3-7-septatis, interdum 1-2 cellulis longitudinaliter septatis, dilute brunneis, $25-50 \approx 10-12$.

Hab. in foliis vivis Negundinis aceroidis in Kansas Amerbor. (BARTHOLOMEW).

11. **Macrosporium velutinum** Mc Alp. Addit. Fungi Vine Austral. 4376
1898, p. 48, fig. 75-79. — Cæspitulosum, velutinum, atro-oliva-

ceum, zona glauca cinctum; hyphis repentibus, crebre septatis, ramosis, nodulosis, viridulis, fertilibus saturatoribus, assurgentibus, septatis, non constrictis, parce ramosis, apice rotundatis, 75-140 \times 4;5 5; conidiis ex obovato elliptico-clavatis, deorsum tennato subpedicellatis, 20-64 \times 8-15, olivaceis, 1-8-septatis muriformibusque, ad septa leviter constrictis.

Hab. in baccis maturis *Vitis viniferæ*, Ardmona Australiæ (ROBINSON).

12. **Macrosporium globuliferum** Vestegr. Bihang. K. Svenska V. A. 4377

Handl. XXII, Afd. III, n. 6, 1896, p. 27. — Cæspitulis minutissimis, sparsis, olivaceo-obscuris, sæpissime in peritheciis vetustis pyrenomycetis cujusdam insidentibus; hyphis simplicibus, rectis, septatis, articulatis, olivaceis, loculis subquadraticis, sursum incrasatis; conidiis parum variabilibus, subglobosis vel breve cylindraceis, typice 3-septato-muriformibus, ad septa constrictulis, olivaceis, 20-28 \times 16-19.

Hab. in caulibus exsiccatis *Loti corniculati* in Gotlandia Sueciæ.

13. **Macrosporium congestum** Bres. Malpighia XI, 1897, p. 323. 4378

— Acervulis gregariis, prominulis, pulvinatis, orbiculatis, nigro-olivaceis; hyphis fasciculatis, flexuosis, crebre septatis, simplicibus v. rarius parce ramosis, olivaceis, 110-150 \times 9-10; conidiis valde variabilibus, ovoideis, 3-7-septato-muriformibus, olivaceis, 31-75 \times 18-36.

Hab. in caulibus *Dianthi Caryophylli*, Valsesia in Italia boreali (CARESTIA).

14. **Macrosporium Kriegerianum** Bres. Hedw. 1897, p. 382. — Cæspitulis hypophyllis, dense gregariis, minimis, fuliginosis; hyphis fasciculatis, interdum ramosis, septatis, olivaceis, 75-80 \times 4-7; conidiis variantibus, 2-5-septato-muriformibus, 36-51 \times 24-30, olivaceo-fuliginosis.

Hab. in foliis *Mulgedii alpini* «Arber im Böhmer-Walde».

15. **Macrosporium Amaranthi** Peck, Bull. Torr. Bot. Club. 1895, p. 493. 4380

— Cæspitibus minutis, punctiformibus, nigrescentibus; hyphis brevibus, 21-32 μ . longis, septatis, apice leviter nodosis; conidiis clavatis, oblongo-clavatis v. subfusiformibus, 3-8-septatis, 1-3 cellulis in longitudine septatis, 32-64 μ . longis, pedicello gracili, plerumque conidium non equante.

Hab. in maculis foliorum *Amaranthi retroflexi*, Kansas, Amer. bor. (BARTHOLOMEW).

16. *Macrosporium teruloides* Ell. et Ev. Proc. Acad. Philad. 1895, 4381 p. 439. — Cæspitibus effusis, tenuibus; olivaceo-nigris, velutinis; hyphis torulosis, dense septatis, ramosis; conidiis variis, 15-40 \times 10-15, 3-6-septatis, parce muriformibus, interdum sarcinulæformibus, interdum obovatis; pedicellis deciduis, dense septatis, 25-45 \times 5-5 $\frac{1}{2}$, supra in conidia dilatatis.

Hab. in caulibus emortuis *Urticæ Lyallii*, Washington, Amer. bor. (PIPER). — Ob hyphas fertiles dense septatas ad *Torulam* vergit.

17. *Macrosporium Fiei* Ell. et Kels. Americ. Natur. 1897, p. 430. — 4382 Maculis magnis, 1-2 cm. diam., sordide albidis, obscure purpureo-marginatis; cæspitulis olivaceis, sparsis, minutis, 1-1 $\frac{1}{2}$ mm.; hyphis amphigenis, obscure brunneis, fasciculatis, septatis, plus minusve ad septa constrictis, 70-125 \times 4-5; conidiis clavatis, 3-7-septatis, plus minus distincte longitudinaliter uniseptatis, 40-50 \times 10-16, pedicello 20-30 μ . longo.

Hab. in foliis *Fiei* elasticæ in Ohio Amer. bor. (KELSEY).

18. *Macrosporium cæspitosum* Rabh.-Sacc. Syll. X, p. 672. — f. 4333 *minor* Fautr. Rev. Mycol. 1896, p. 143. — Cæspitulis nigris, confluentibus; hyphis sub microsc. brunneis, apice hyalino, rectis v. tortuosis, multiseptatis, 100 et ultra \times 6; conidiis valde deciduis, piriformibus, olivaceis, demum brunneis, transverse 3-4-septatis, septis non v. vix constrictis, 1 vel 2 loculis uniseptatis, 30-40 \times 18.

Hab. in ligno vetusto quercino in Gallia.

19. *Macrosporium Aschodeli* Pat. Énum. Champ. Tunisie 1892, p. 19. 4334 — Maculis nigris, villosis, sparsis; hyphis simplicibus v. ramosis, cinereis, erectis, cæspitosis, 70-80 \times 5-6, basi bulbosis, apice subglobosis, cylindræis v. torulosis, septatis; conidiis cinereis, variis, aliis ovalibus, medio constrictis, 1-5-septatis, in longitudine multiseptatis, verrucosis, 30-42 \times 18-22; aliis clavatis, apice obtusis, in stipitem attenuatis, cinereis, levioribus, 10-15-septatis, ad septa constrictis, sursum cylindræis, deorsum attenuatis, 110 \times 30.

Hab. in foliis putrescentibus *Aschodeli*, Tunisia.

20. *Macrosporium heteroschemon* Fautr. Rev. Mycol. 1896, p. 69, 4335 tab. CLIX, fig. 3. — Conidiis variis, 120-150 μ . et ultra, aliis hyalinis et loculis angulosis, aliis hyalinis et loculis rotundis v. ovalibus, aliis denique obscuris et diaphragmatibus transversalibus, uno loculo oblique longitudinaliter septato; basidiis non visis.

Hab. in calamis *Cariæis vulpinæ* in Gallia.

21. *Macrosporium Panici* Ell. et Ev. Erythea 1896, p. 28. — Ma- 4386

cutis minutis, oblongis, $1 \approx \frac{1}{2}$ mm., albis, rubro-purpureo-marginatis; hyphis simplicibus, subcæspitosis, multiseptatis, 20-30 \approx 4; conidiis obovato-clavatis, 3-septatis, muriformibus, 20-30 \approx 10-12.

Hab. in foliis vivis Panici virgati, Kansas, Amer. bor. (BARTHOLOMEW).

22. **Macrosporium Uredinis** Ell. et Barth. Erythea 1896, p. 28. — 4387

Hyphis simplicibus, erectis, fumoso-hyalinis, 80-110 \approx 3 $\frac{1}{2}$ -4, septatis; conidiis clavatis, 5-7-septatis, leviter muriformibus, plerumque in stipitem brevem elongatis, flavo-brunneis, 30-50 \approx 12-15.

Hab. parasiticum in Uredine Pucciniæ graminis in foliis Tritici, Kansas, Amer bor. (BARTHOLOMEW).

ALTERNARIA Nees — Syll. IV, p. 545, X, p. 679, XI, p. 637.

1. **Alternaria Brassicæ** (Berk.) Sacc. - Syll. IV, p. 546. — f. **micro-** 4388

spora P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 19 extr. — Conidiis clavatis, 25 \approx 7 $\frac{1}{2}$, initio continuis 5-guttulatis, olivaceis, dein 5-septatis ad septa non constrictis, loculo tertio tantum in longitudine septato.

Hab. in foliis aridis Brassicæ oleraceæ, Saintes Galliæ. — f. **Phaseoli** P. Brun. Bull. Soc. Sc. Nat. de l'ouest de la France 1894, p. 38. — Conidiis 5-8-septatis muriformibus, atro-fuliginosis, 60-62 \approx 15. In foliis Phaseoli vulgaris in Gallia. — forma **Tritici** P. Brun. l. c. Conidiis clavatis vel subclavatis, pedicellatis, 7-10-septatis, vulgo loculo uno in longitudine uniseptato, luteis v. olivaceis, 95-110 \approx 18-20. In foliis exsiccatis Tritici sativi in Gallia.

2. **Alternaria viticola** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 19 4389

extr. — Cæspitulis minutis, brunneis, sparsis; conidiis clavatis luteo brunneis, initio continuis, guttulatis, tandem 3-9-septato-murilibus, ad septa constrictis, 25-45 \approx 10-12 $\frac{1}{2}$, vix pedicellatis.

Hab. in foliis Vitis viniferæ in Gallia.

3. **Alternaria rugosa** Mc Alp. Agricult. Gaz. of. N. S. Wales. May 4390

1896, p. 6, fig. cum tab. fig. 32-37. — Effusa, virescenti-nigra v. olivacea, velutina, sicca, irregularis, epidermide rugosâ circumscripta; hyphis flexuosis, ramosis, septatis; conidiis catenulatis, per isthmum brevem angustum circiter 1 μ . latum digestis, mox secedentibus, clavatis, elongato-clavatis v. ovalibus, interdum longe pedicellatis, transverse sæpe etiam verticaliter v. oblique septatis, griseo-virescentibus usque flavo-brunneis, magnitudine valde variantibus, vulgo 40-50 \approx 11-14, sed etiam usque ad 80 μ . longis.

Hab. in fructibus vivis *Lycopersici esculenti*, Victoria Australiæ.

4. *Alternaria Junci* Mc Alp. *Agricult. Gaz. of N. S. Wales.* May 1896, p. 5, fig. 28-31. — Olivaceo-atra, effusa, velutina; hyphis repentibus nodulosis, fumosis, anastomosantibus; fertilibus erectis fasciculatis, atro-brunneis, septatis, interdum brevissime ramosis, 4-5 μ . crassis; conidiis catenulatis, mox secedentibus, per isthmus pallidos 3½ μ . latos digestis, e pallide viridi flavo-brunneis, ovatis v. oblongo-clavatis, 1-5-cellularibus, sæpe muriformibus, 20-35 \times 5½-14.

Hab. in calamis *Junci maritimi*, Victoria Australiæ.

FUMAGO Pers. — *Syll. IV*, p. 547, XI, p. 638.

1. *Fumago? Sacchari* Speg. *Rev. Agr. y Veter. La Plata*, 1896, p. 256. — Tenuissima, pelliculosa, atra, late effusa, hinc inde noduloso-papillosa, ex hyphis subcoalitis dense ramuloso-intertextis gracilibus, 3-4 μ . crassis, crebre septulatis efformata.

Hab. in culmis *Sacchari officinarum*, prov. Tucuman et La Plata, Argentina.

Sect. 5. Scolccosporæ.

CERCOSPORA Fresen. — *Syll. IV*, p. 431, X, p. 618, XI, p. 625.

1. *Cercospora Hibisci* Tracy et Earle, *Bull. Torr. Bot. Club* 1895, p. 179. — Hypophylla; maculis magnis, indeterminatis; hyphis fuliginis, cumulatis, subirregularibus, basim versus 1 v. 2-septatis, 25-40 μ .; conidiis obelavatis, subcurvulis, hyalinis, guttulatis, demum subtiliter 3-5-septatis, 40-60 \times 3-4.

Hab. in foliis vivis *Hibisci esculenti*, Louisiana Amer. bor.

2. *Cercospora hibiscina* Ell. et Ev. *Proc. Acad. Philad.* 1895, p. 438. — Hypophylla; hyphis parce ramosis, septatis, æqualibus, 300-400 \times 3½-4, sursum sæpe undulatis, cæspitulos laxè intertextos, olivaceo-atros 2-4 mm. diam., formantibus; conidiis clavato-cylindraceis, hyalinis, circiter 3-septatis, 30-50 \times 3½-4½.

Hab. in foliis *Hibisci tiliacei*, Mexico (PALMER).

3. *Cercospora Cœnothæ-sinuatæ* Atk. *Bull. Cornell Univ.* III, n. 1, 1897, p. 46. — Maculis minutis, centro albidis, indefinite colorato-marginatis, hyphis amphigenis, brevibus, paucis in cæspitulis, 35-40 \times 4-5, flexuosis brunneis, septatis, utrinque truncatis; conidiis cylindraceis teretibus, hyalinis, 3-6-septatis, 35-70 \times 3½-4.

- Hab.* in foliis *Oenotheræ sinuatae*, Auburn, Alabama Amer. bor.
4. ***Cercospora didymospora*** Ell. et Barth. *Erythea* 1896, p. 28. — 4396
Maculis obscure griseis, sparsis, minutis. 1-2 mm. diam., subindefinitis; hyphis fasciculatis, simplicibus, luteo-brunneis, subintegris, 10-15 \times 4; conidiis subfusoido-cylindraccis, subrectis, utrinque leviter angustatis, uniseptatis non constrictis, hyalinis v. dilute flavis, 15-30 \times 4.
Hab. in capsulis foliisque *Oenotheræ biennis*, Kansas, Amer. bor. (BARTHOLOMEW).
5. ***Cercospora Gayophyti*** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 474. 4397
— Maculis brunneolis, indefinitis, initio folii margine insidentibus, demum totum folium occupantibus necantibusque; hyphis amphigenis, cæspitosis, subhyalinis, continuis, simplicibus, sursum subdenticulatis subgeniculatisque, 20-30 \times 3 $\frac{1}{2}$ -4; conidiis oblongis, fumoso-brunneis, nucleatis, uniseptatis, 20-35 \times 5-6.
Hab. in foliis *Gayophyti diffusi*, California (DAVIS).
6. ***Cercospora Lespedezæ*** E. et Ev. Proc. of the Canad. Inst. 1897, 4398
p. 91. — Maculis irregularibus, rubris, foliorum venis limitatis, 2-5 mm. latis; cæspitulis epiphyllis; hyphis continuis, pallide brunneis, 10-25 \times 4; conidiis clavato-cylindraccis, 35-50 \times 4.5, hyalinis (?), 1-5-septatis.
Hab. in foliis *Lespedezæ capitatae*, London, Canada.
7. ***Cercospora glothidiicola*** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 4399
p. 206. — Virescenti-atra, definita; hyphis basi nodulosis, fasciculatis, basim versus 1-2-septatis, fuliginosis, parum flexuosis v. geniculatis, 50-70 \times 5-6; conidiis exilibus, clavatis hyalinis, subtiliter 2-5-septatis, 70-80 \times 2-4.
Hab. in leguminibus *Glothidii floridani* in Mississippi Amer. bor.
8. ***Cercospora Galactiæ*** Ell. et Ev. Bull. Torr. Bot. Club. 1895, 4400
p. 438. — Amphigena; maculis nullis; hyphis cæspitosis, 100-110 \times 6, septatis, obscure brunneis, subgeniculatis, supra subundulatis, plagas laxe floccosas, $\frac{1}{2}$ -1 $\frac{1}{4}$ mm. diam., per totum folium sparsas efficientibus; conidiis obclavato-cylindraccis, subcoloratis, 2-8-septatis, 30-70 \times 5-6.
Hab. in foliis *Galactiæ Nuttallii*, Florida, Amer. bor. (NASH).
9. ***Cercospora minima*** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 4401
p. 206. — Epiphylla, fusca, irregularis, indeterminata; hyphis

dense cæspitosis, brevissimis, continuis, flexuosis irregularibusque, olivaceis, ca. 10-15 \times 4; conidiis filiformibus, hyalinis, septatis, 40-60 \times 2.

Hab. in foliis Piri communis in Mississippi Amer. bor. Rose

10. **Cercospora septorioides** Ell. et Ev. Field Columb. Mus. IX, 1896, 4402
p. 94. — Maculis sordide fuscis, irregularibus, subangulosis, plus minusve nervis folii limitatis, 2-3 mm. diam., definitis, sed nullo margine colorato cinctis; hyphis epiphyllis, cæspitosis, simplicibus, continuis, fuscidulis, 20-25 \times 3; conidiis cylindræis, leniter curvulis, hyalinis, nucleatis, 35-63 \times 2-2½.

Hab. in foliis Rubi canadensis in W. Virginia (NUTTALL). Rose

— *C. Rubi* Sacc. affinis, sed conidiis angustioribus, non septatis et hyphis brevioribus diversa.

11. **Cercospora Chrysobalani** Ell. et Ev. Bull. Torr. Bot. Club 1895, 4403
p. 438. — Maculis intense rubro-brunneis, definitis, plerumque irregularibus, 1-6 mm. diam.; hyphis amphigenis, cæspitosis, brunneolis, continuis, supra subangustatis subundulatisque, 20-30 \times 3½-4; conidiis sursum subangustatis, subhyalinis, 3-8-septatis, 30-70 \times 3.

Hab. in foliis Chrysobalani oblongifolii, Florida, Amer. bor. (NASH). Rosa

12. **Cercospora cornicola** Tracy et Earle Bull. Torr. Bot. Cl. 1896, 4404
p. 205. — Maculis epiphyllis, irregularibus, fuscis, non definite marginatis, 5-10 mm.; hyphis dense conglobatis, basi nodulosis, brevissimis, continuis, parum flexuosis, olivaceis, 11-15 \times 3-4; conidiis exilibus, filiformibus, leniter curvulis, plerumque continuis, hyalinis v. dilute olivaceis, 60-70 \times 2-3.

Hab. in foliis languidis Corni floridae, Mississippi Am. bor. Cornicola

13. **Cercospora flexuosa** Tracy et Earle Bull. Torr. Bot. Club 1895, 4406
p. 178. — Maculis indefinitis, magnis, effusis, hypophyllis; hyphis ferrugineis, irregulariter flexuosis, interdum ramosis, pluriseptatis, denticulatis, 75-150 \times 4-5; conidiis obclavatis, fuscis, plerumque 3-4-septatis, non constrictis, 20-30 \times 4-5.

Hab. in foliis Diospyri virginianæ, Mississippi, Amer. bor. — A *C. Diospyri* differt maculis indefinitis, hyphis septatis conidiisque multo longioribus. Ebenaceæ

14. **Cercospora Grindellæ** Ell. et Ev. Proc. Acad. Philad. 1895, p. 439. 4406
— Amphigena, maculis parvis, plus minus confluentibus; hyphis cæspitosis, brevibus, simplicibus, continuis, 15-35 \times 4, subintegris v. supra imperfecte denticulatis, subhyalinis; conidiis gracilibus, clavatis, luteo-hyalinis, granulosis, nucleatis, denum subtiliter

3-8-septatis, interdum ad 1 v. 2 septa constrictis, sæpe abrupto dilatatis, 50-140 \times 4-7.

Hab. in foliis Grindeliæ spec., California (BLASDALE). *Comp.*

15. **Cercospora stomatica** Ell. et Davis, Proc. Acad. Philad. 1895, 4407 p. 438. — Maculis irregularibus, angulosis, nigris, luteolo-limitatis, 3-4 mm. diam.; hyphis hypophyllis, e foliorum stomatibus oriundis, cæspitulosis, 32-70 \times 4-7, 2-3-septatis, subgeniculatis, subrectis, pallide brunneis; conidiis hyalinis v. luteolo-hyalinis, apice attenuatis, 4-10-septatis, rectis v. leniter curvulis, 50-150 \times 5-6.

Hab. in foliis Solidaginis latifoliæ, Wisconsin, Amer. bor. (DAVIS). *Comp.*

- 16 **Cercospora Coleosanthi** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4408 p. 474. — Maculis suborbicularibus, griseo-brunneis, 2-4 mm. d., sæpe confluentibus, anguste obscuro-marginatis; cæspitulis amphigenis, dense sparsis, griseis; conidiis cylindraceis, subobtusis, nucleatis, 30-40 \times 2 $\frac{1}{2}$ -3, interdum sursum attenuatis et longioribus (50-60 μ .).

Hab. in foliis Coleosanthi californici, California (HANSEN). *Comp.*

17. **Cercospora Tragopogonis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4409 p. 474. — Maculis suborbicularibus, ferrugineis, centro demum albescentibus, 1-3 mm. diam. v. confluenso majoribus; hyphis cæspitosis, brevibus, copiosis, 20-30 \times 3, fumoso-hyalinis, continuis, supra subundulatis obscureque denticulatis; conidiis clavato-cylindraceis, 30-60 \times 3, 1-3-septatis.

Hab. in foliis Tragopogonis porrifolii, Montana Amer. bor. (DEMETRIO). *Comp.*

18. **Cercospora Iochromatis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 233. 4410 — Maculis amphigenis, orbicularibus, 5-10 mm. diam., viridulis, dein sordide albis; cæspitulis hypophyllis, brunneis, 30-50 μ . diam.; hyphis fasciculatis, erectis, simplicibus, brunneis, 40-50 μ . altis, 5-7 μ . crassis; conidiis cylindraceis, rectis v. curvulis, utrinque obtusis, pallide fuscis, 30-90 \times 5-7, 2-5-septatis, sæpe constrictis.

Hab. in foliis Iochromatis sp. in Æquatoria (v. LAGERHEIM). *Comp.*

19. **Cercospora physalicola** Ell. et Barth. Erythea 1896, p. 28. — 4411 Maculis suborbicularibus, obscure rubescenti-brunneis, $\frac{1}{2}$ -1 cm. diam., linea nigra angusta cinetis; hyphis epiphyllis, fasciculatis, olivaceis, continuis, supra subgeniculatis, 60-75 \times 5; conidiis hyalinis, 110-150 \times 5, subtiliter 4-6-septatis.

Hab. in foliis vivis Physalidis virginicæ, Kansas, Amer. bor. (BARTHOLOMEW). *Comp.*

20. **Cercospora Stylismæ** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 4412 p. 206. — Maculis amphigenis, 2-3 mm. latis, albis, elevato-marginatis, margine obscuriore; hyphis conglobatis, subrectis, fusco-olivaceis, prope basim uniseptatis, 40-50 \times 5-6; conidiis clavatis, hyalinis, 3-5-septatis, 50-70 \times 4-5.

Hab. in foliis Stylismæ humistratæ in Mississippi Amer. bor. 4413

21. **Cercospora septatissima** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, p. 206. — Amphigena, primo olivacea, angularis, nervis marginata, dein late effusa; hyphis dense cæspitosis, irregulariter flexuosis, brunneis, distincte septatissimis, 40-60 \times 5-6, septis plerumque 4-6 μ .; conidiis exilibus, clavatis, septatis, hyalinis, 50-60 \times 3-5.

Hab. in foliis Verbenæ Carolinianæ in Mississippi, Amer. boreali.

22. **Cercospora Stachydis** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4414 p. 474. — Maculis numerosis, minutis, pallide ferrugineis, 1 mm. diam., anguste obscuro-marginatis; hyphis amphigenis, cæspitosis, paucis consociatis, gracilibus, septatis, brunneis, subgeniculatis, plerumque sursum undulatis v. crispatis, 60-75 \times 3 $\frac{1}{2}$ -4; conidiis maturis nondum visis.

Hab. in foliis Stachydis palustris, Jowa Amer. bor. (CARVER).

23. **Cercospora Ellisii** Sacc. et Syd. *Cercospora Hyptidis* Ell. et Ev. 4415 Erythea 1897, p. 5, nec Speg. — Maculis indefinitis, tabacinis, hypophyllis; hyphis fasciculatis, simplicibus, brunneis, parce septatis, 75-100 \times 3 $\frac{1}{2}$ -4; conidiis fusoideo-cylindræis, erectis, 30-40 \times 3-4, brunneis, 1-septatis.

Hab. in foliis Hyptidis spéc. in California. — Ad *Ramulariam* accedit.

24. **Cercospora Chionanthi** Ell. et Ev. Field, Columb. Mus. IX, 1896, 4416 p. 94. — Maculis variis, brunneis, 2-4 mm. diam.; hyphis epi-phyllis, cæspitosis, 75-150 \times 3 $\frac{1}{2}$ -5, fuseis, septatis, sursum subgeniculatis v. subundulatis; conidiis fusoideis v. clavatis, fusciscentibus, 3-5-septatis, 30-60 \times 4-4 $\frac{1}{2}$.

Hab. in foliis vivis Chionanthi virginicæ in W. Virginia (NUTTALL).

25. **Cercospora incarnata** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4417 p. 474. — Amphigena; maculis orbicularibus, 2-3 mm. diam., superne sordide albis, obscure marginatis, inferne brunneis; hyphis cæspitosis, brevibus, 18-25 \times 4, integris v. apice leniter den-

ticulatis; conidiis dilute coloratis, sursum attenuatis sæpeque contractis, 5-10-septatis, 25-60 \times 3 $\frac{1}{2}$ -4.

Hab. in foliis *Asclepiadis incarnatæ*, Ohio Amer. bor. (KELSEY).

26. *Cercospora maculans* Pat. Cat. rais. pl. cell. Tunisie 1897, p. 132. 4118

— Maculis cinereis v. nigro-cinereis, elongatis, 8-50 mm. longis, 3-15 mm. latis, pulvinulis numerosis, sparsis, 50-60 μ . diam.; hyphis fasciculatis, teretibus, rectis, rarius flexuoso-torulosis, non septatis, dilute fusco-brunneis, apice truncatis, 23-30 \times 5; conidiis longe clavatis, hyalinis, 3-septatis, 50-60 \times 5-6.

Hab. in fructibus *Asclepiadaceæ* cujusdam in Tunisia.

27. *Cercospora euphorbiæcola* Atk. Bull. Cornell Univ. III, n. 1, 4419

1897, p. 41. — Maculis amphigenis, suborbicularibus, griseo-brunneis, linea angusta nigra elevata circumscriptis; hyphis plerumque hypophyllis, e tuberculo nigro-olivaceo oriundis, simplicibus, dilute coloratis, leniter flexuosis, 25-40 \times 4; conidiis anguste lanceolatis, 80-120 \times 3 $\frac{1}{2}$ -4, subtiliter 5-10-septatis, dilute coloratis.

Hab. in foliis *Euphorbiæ* spec., Auburn, Alabama Amer. bor.

28. *Cercospora Henningsii* Allesch. in P. Henn. Pilz. Ostaf. p. 35. 4420

— Maculis subcircularibus, irregularibus, pallidis v. pallide ochraceis, linea obsoleta determinatis; cæspitulis epiphyllis, gregariis sparsive, minutis, punctiformibus, nigris; hyphis cylindræis, continuis, simplicibus, fuscis, 4-5 μ . crassis; conidiis obclavatis v. subcylindræis, 2-5-septatis, 30-50 \times 4-6, hyalinis v. fuscidulis.

Hab. in foliis vivis *Manihot utilissimæ* in Africa trop. (HOLST).

29. *Cercospora maritima* Tracy et Earle, Bull. Torr. Bot. Club. 4421

1895, p. 179. — Amphigena, dense effusa, in areis obscure coloratis, maculis indefinitis; hyphis fasciculatis, plerumque erectis, olivaceis, 5-6-septatis, ad septa sæpe tumidulis, 40-100 \times 4-6; conidiis pallidioribus, elongatis, rectis v. leviter curvulis, plerumque uniseptatis, cellula superiore brevior et latior, 50-60 \times 5-7.

Hab. in foliis *Crotonis maritimæ*, Mississippi Amer. bor.

30. *Cercospora Cassavæ* P. H. et Ev. Bull. Torr. Bot. Club. 1895, 4422

p. 438. — Maculis amphigenis, orbicularibus, dilute ferrugineis, 3-5 mm. diam., definitis, anguste et obscure marginatis; hyphis cæspitosis, continuis, supra leviter denticulatis, luteolo-hyalinis, 30-40 \times 4; conidiis cylindræis v. clavato-cylindræis, 3-5-septatis, hyalinis, 20-50 \times 5-6.

Hab. in foliis *Cassavæ* spec. Florida, Amer. bor. (NASH).

31. **Cercospora Eriogoni** Ell. et Ev. *Erythea* 1897, p. 6. — Maculis 4423
 obscure brunneis, subindefinitis, epiphyllis; cæspitulis hypophyllis
 minutis, fuligineo-nigris, irregulariter sparsis; hyphis subdecum-
 bentibus, ex hyalino obscure brunneis, multiseptatis, ramis erectis
 supra plus minus divisis adscendentibus; conidiis cylindraceis, ob-
 scure brunneis, multiseptatis, 35-55 \times 4. *Polygonaceae*
- Hab.* in foliis Eriogoni mollis in California. — Ad *Hel-
 minthosporium* accedit.
32. **Cercospora Piperis** Pat. Bull. Soc. Myc. de Fr. 1895, p. 233. 4424
 — Maculis amphigenis, sparsis, orbicularibus, fusco-brunneis, 4-6
 mm. latis; cæspitulis hypophyllis, minutis, ex hyphis pallide fu-
 ligineo-olivaceis, laxis, simplicibus, sæpius continuis, 50-60 \times 5-6
 compositis; conidiis elongatis, subhyalinis, 80-100 \times 4, guttulatis
 v. spurie septatis. *Piperaceae*
- Hab.* in foliis Piperis sp. in Æquatoria (v. LAGERHEIM).
33. **Cercospora Myricæ** Tracy et Earle, Bull. Torr. Bot. Cl. 1896, 4425
 p. 206. — Epiphylla, maculas fuscas indeterminatas incolens;
 hyphis dense cæspitosis, basi nodulosis, flexuosis, 1-2-septatis, di-
 lute fuscis, 30-40 \times 3-4; conidiis anguste clavatis, pluriseptatis,
 hyalinis, 100-125 \times 3, interdum usque ad 175 μ . longis. *Myricaceae*
- Hab.* in foliis Myricæ ceriferæ in Mississippi Amer. bor.
34. **Cercospora macrochæta** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4426
 p. 473. — Hypophylla; maculis nullis; hyphis abortivis, tantum
 e cellulis brunneis compositis; conidiis flagelliformibus, dilute brun-
 neis, 100-190 μ . longis, basi inflatis, 3-5-septatis, ad septa sæpe
 constrictis, sursum gradatim in apicem subobtusum attenuatis, le-
 niter curvulis. *Fagaceae*
- Hab.* in foliis Quercus chrysolepidis, California (HANSEN).
35. **Cercospora mississippiensis** Tracy et Earle, Bull. Torr. Bot. Club. 4427
 1895, p. 179. — Amphigena, plerumque hypophylla; maculis par-
 vis, brunneolis, irregularibus, venulis plerumque limitatis, margine
 irregulariter elevato et obscuriore; hyphis divergentibus, irregula-
 riter floccosis, nodulosis, basim versus subbulbosam plerumque
 uniseptatis, 60-70 \times 5; conidiis fuscis, anguste clavatis, apice sub-
 obtusis, basim versus filiformem subhyalinam attenuatis, 4-8 v.
 pluriseptatis, 75-150 \times 4-5. *Sitaceae*
- Hab.* in foliis Smilacis glauca, tamnifoliæ et rotun-
 difoliæ, Mississippi, Amer. bor.
36. **Cercospora caricina** E. et D. Proc. of the Canad. Inst. 1897, 4428
 p. 91. — Cæspitulis punctiformibus, minutis, inter nervos paral-

lele seriatis; hyphis cæspitosis, sæpius continuis, brunneis, sursum denticulatis et flexis, 15-25 \times 3-3,5; conidiis tenuibus obclavato-cylindraceis, hyalinis, continuis, 24-73 (plerumque 35-50) \times 3.

Hab. in foliis *Caricis roseæ*, London, Canada.

37. *Cercospora Muhlenbergiæ* Atk. Bull. Cornell Univ. III, n. 1, 4429 1897, p. 46. — Cæspitulis sparsis; hyphis amphigenis, basi in cæspitulos dense confertis, flexuosis, nodulosis brunneis, septatis, 70-140 \times 3 $\frac{1}{2}$ -4; conidiis hyalinis anguste lanceolatis, 1-5-septatis, rectis v. inæquilateralibus, 25-35 \times 4-5.

Hab. in foliis *Muhlenbergiæ diffusæ*, Auburn, Alabama Amer. bor.

38. *Cercospora vaginæ* Krueger in Went, Mededeel. Suiker. West-Java 1896, p. 29. — Maculicola; hyphis repentibus, ramosis, ramis adscendentibus, 80 \times 3 μ . metientibus, virescenti-brunneis v. fumosis; conidiis acro-vel pleurogenis, hyalinis, 1-2-septatis, 15-30 \times 4-8.

Hab. in vaginis *Sacchari officinarum* in Java.

39. *Cercospora scolecotrichoides* Atk. Bull. Cornell Univ. III, n. 1, 4431 1897, p. 46. — Hyphis in fasciculum punctiforme nigrum dense aggregatis, brunneis, flexuosis nodulosisque interdum ramosis, 100-200 \times 4-6, septatis, fasciculis hypharum numerosis denseque in partibus foliorum dilute viridibus v. luteis sparsis; conidiis terminalibus v. lateralibus, obclavatis, fuliginosis, sursum in partem terminalem longam abrupte attenuatis, 3-septatis, 30-50 \times 8-10.

Hab. in foliis languescentibus *Arundinariæ tectæ*, Auburn, Alabama Amer. bor. — Habitus omnino *Scolecotrichi graminis*.

40. *Cercospora graminicola* Tracy et Earle, Bull. Torr. Bot. Club. 4432 1895, p. 179. — Amphigena, maculis nullis; hyphis cæspitosis, rectis v. subflexuosis, fuscis, 2-3-septatis, 75-100 \times 4-5; conidiis clavatis, primo continuis, demum 1-3-septatis, fuscis, 35-40 \times 7 $\frac{1}{2}$ -10.

Hab. in foliis languescentibus *Phlei pratensis*, Mississippi, Amer. bor.

41. *Cercospora Mac Clatchieana* Sacc. et Syd. Sic nominanda est *Cercospora fuliginosa* Ell. et Ev. in Syll. XI, p. 626, quam exstet anterior *C. fuliginosa* Ell. et Kell. in Syll. X, p. 648.
42. *Cercospora Seymouriana* Wint. Hedw. 1883, p. 70. — Ita potius nominanda *C. olivacea* B. et Rav., 1875) Ellis' ap. Syll. IV, p. 462, nam certe diversa est homonyma anterior Otthii (1868) ap. Syll. XI, p. 627.

*Sect. 6. Staurosporæ.***TRIPOSPORIUM** Corda — Syll. IV, p. 554.

1. **Triposporium muricatum** Wakker, De Ziekten van het Suikerriet 4433 op Java. Leiden 1898, p. 197. — Conidiis solitariis, fuscis, sphaeroideis, 3-cellularibus; septis radiatis, muricatis.

Hab. in foliis mortuis Sacchari officinarum in Java.

2. **Triposporium bicorne** Morg. Journ. Cinc. Soc. Nat. Hist. XVIII, 4434 1895, p. 43, tab. III, fig. 19. — Hyphis sterilibus gracilibus, repentibus, septatis, brunneis, interdum ramosis, ramis conidium solitarium gerentibus; fertilibus assurgentibus v. erectis, variæ longitudinis, pauciseptatis; conidiis supra in duos radios late divergentes divisus, basi 8-10 μ . crassis; radiis variis, 4-6-septatis et 40-60 μ . longis vel 5-7-septatis et 70-75 μ . longitudine metientibus, ad septum inferius 11-14 μ . crassis, sursum gradatim attenuatis.

Hab. in culmis vetustis Zeæ Maydis, parasiticum, ut videtur, *Diplodivæ* Zeæ, Ohio, Amer. bor.

*Sect. 7. Helicosporæ.***HELICOSPORIUM** Nees — Syll. IV, p. 557, X, p. 681, XI, p. 638.

1. **Helicosporium pilosum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4435 p. 476. — Hyphis fertilibus erectis simplicibus, septatis, sursum attenuatis, rectis v. subrectis, 200-400 \approx 5-6 (basi), stratum griseo-nigrum pilosum in ligni superficie formantibus; conidiis filiformibus, hyalinis, nucleatis, in spiras tres convolutis, 100 μ . longis, 2 $\frac{1}{2}$ μ . crassis, e tuberculis hypharum lateralibus minutis (3 μ .) hyalinis, subglobosis nascentibus.

Hab. in ligno putrido; Louisiana Amer. bor. (LANGLOIS).

Fam. 3. Stilbaceæ Fr.*Ser. 1. Hyalostilbææ* Sacc.*Sect. 1. Amerosporæ.***STILBUM** Tode — Syll. IV, p. 564, X, p. 681, XI, p. 640.

1. **Stilbum Euphorbiæ** Pat. Bull. Soc. Myc. de Fr. 1895, p. 234. — 4436 Sparsum vel fasciculatum, 2 mm. altum; stipite glabro, atro, sur-

sum attenuato; capitulo globoso, pallide roseo; conidiis ellipsoideis, 6-7 \times 3, continuis, hyalinis.

Hab. in corticibus putridis Euphorbiæ sp. in Æquatoria (v. LAGERHEIM).

2. **Stilbum polycephalum** Pat. Journ. de Bot. 1897, p. 372. — Sparsum v. caespitosum, 1-2 mm. altum; stipitibus erectis, nigris, glabris, in longitudine striatis, corneis, interdum simplicibus, sæpius autem sursum in ramulos 2-5 divergentes apice capitula minuta conidifera gerentes divisus; capitulis roseis, sæpe confluentibus; conidiis ovoideis, hyalinis, 6 \times 2, in sporophoris filiformibus acrogenis.

Hab. in cortice vetusto in Tonkin.

3. **Stilbum camerunense** P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 81. — Gregarium, atrorubrum; stipitibus solitariis v. fasciculatis, compressis sublevibus, basi incrassatis, 1-1 $\frac{1}{2}$ mm. longis, 150-250 μ . crassis; capitulis subglobosis, 200-350 μ . diam.; conidiis ellipsoideis, hyalinis, utrinque rotundatis, 6-7 \times 4-5.

Hab. in truncis emortuis, Kamerun (JUNGNER).

4. **Stilbum Rimbachii** Pat. Bull. Soc. Myc. de Fr. 1895, p. 234. — Sparsum vel fasciculatum, 1-2 mm. altum; stipite glabro, albo, cylindraceo; capitulo globoso, carneo; conidiis ellipsoideis, 4-5 \times 2, continuis, hyalinis.

Hab. in corticibus in Æquatoria (A. RIMBACH).

5. **Stilbum incarnatum** Wakker, De Ziekten van het Suikerriet op Java. Leiden 1898, p. 197. — Gregarium vel subfasciculatum; stipite incarnato, cortice parenchymatico, breve-villosulo, 2 mm. longo, 0,25 mm. crasso; capitulo disciformi, convexo, conidiophoris rigidis albis, 0,8 mm. lato; sporulis hyalinis, ovalibus, terminalibus, mucō dilute roseo conglobatis, 12 \times 6.

Hab. in caulibus putridis Sacchari officinarum in Java.

COREMIUM Link — Syll. IV, p. 581, X, p. 687, XI, p. 641.

1. **Coremium glaucum** Fr. — Sacc. Syll. IV, p. 581. — var. **fimiculum** El. March. Bull. Soc. Roy. Bot. Belg. XXXIV, 1895, p. 143. — Majus, sæpe 10 mm. superans, capitulo compacto, levi, initio ovoideo, posterius dilatato-fisso; stipite crasso, 5-8 mm. alto, albo deinde rubello; conidiis globoso-ovoides, 4-5 \times 3-4, in catenulas prælongas digestis.

Hab. in fimo suino vetusto in Belgio.

ISARIA Pers. — Syll. IV, p. 584, X, p. 687, XI, p. 641.

1. **Isaria verticillata** Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 48. 4442

— Stromatibus sparsis v. cæspitosis, cylindraceis, simplicibus ac minutis vel ramosis ac majoribus, $\frac{1}{4}$ -1 mm. altis, 10-35 μ . diam.; hyphis coalescentibus, sursum dilatatis conidiaque verticillatim disposita gerentibus; conidiis navicularibus rarius ovatis, 8-14 \times 4-6, hyalinis, nucleo oleoso magno præditis.

Hab. in pagina foliorum inferiore *Quercus stellatæ*, Auburn, Alabama Amer. bor.

2. **Isaria acicularis** Pat. Journ. de Bot. 1897, p. 372. — Tota alba, 4443

erecta, simplex, linearis, 5-8 mm. alta, 100-150 μ . crassa, acutata, ex hyphis tenuibus hyalinis septatis composita, cæspitosa, clavata; conidiis ovoideis, hyalinis, levibus, 3 \times 2.

Hab. in fimo anatum in Tonkin.

Sect. 2. Phragmosporæ.

STILBOMYCES Ell. et Ev. Proc. Acad. Philad. 1895, p. 441 (Etym.

Stilbum et *myces*, ob affinitatem cum *Stilbo*). — Hyphæ steriles pallidæ, repentes; fertiles in stipites erectos apice capitatos fasciculatæ. Conidia bacillaria, pluriseptata, sursum aristata, articulis demum secedentibus.

1. **Stilbomyces Berenice** Ell. et Ev. l. c. — Stipite cinereo-albo, 4444

1-1 $\frac{1}{2}$ mm. longo, circiter 100 μ . crasso, plerumque leviter curvato, supra subattenuato; capitulo anguste elliptico, acuto, stipite paulo crassiore; conidiis bacillaribus hyalinis, 60 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$, basi moniliformi-nucleato, inter nucleos constrictis sursum continuis, hyalino-aristatis; articulis demum secedentibus, ovato-ellipticis, fumoso-hyalinis, 5-7 \times 3-4.

Hab. in cortice vivo *Diospyri*, Louisiana. Amer. bor. (LANGLOIS).

Ser. 2. Phæostilbæ Sacc.

Sect. 1. Amerosporæ.

SPOROBYBE Fr. em. Sacc. — Syll. IV, p. 604, X, p. 692, XI, p. 643.

1. **Sporocybe violacea** Pat. Bull. Soc. Mycol. de France 1897, p. 215. 4445

— Fasciculata; stipitibus $\frac{1}{3}$ - $\frac{1}{2}$ mm. altis, erectis, rigidis, simpli-

cibus, ad basim vix incrassatis, ex hyphis violaceis parallelis, simplicibus ca. 3 μ . crassis compositis; capitulis apice globosis, compactis; basidiis violaceis, confertis, unicellularibus, filiformibus, 10-13 \times 5-7, monosporis; conidiis ovoideis, levibus, violaceis, 8-10 \times 4-5.

Hab. in caulibus herbarum in Tunisia.

2. **Sporocybe Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 4446 p. 253. — Effusa, hispido-velutina, nigra; hyphis sterilibus repentibus tenuibus, 2-3 μ . diam., laxe araneoso-intertextis, septulatis, fertilibus coalescentibus ac stipites atros erectos rectiusculos simplices cylindracoos efficientibus; stipitibus apice capitulum globosum, 40 - 80 μ . diam., sterigmatibus ellipsoideo-subfusiformibus, 10 \times 4, monosporis dense vestitum gerentibus; conidiis ovatis v. ellipticis, 6-10 \times 3-5, pallide fuligineis levibus.

Hab. in foliis, vaginis culmisque subputrescentibus Sacchari officinarum, prov. Tucuman, Argentina.

STILBOTHAMNIUM P. Henn. Engl. Jahrb. XXIII, p. 542 (Etym. *Stilbum* et *thamnos* arbuscula, quasi *Stilbum arborescens*). — Stroma carnosum, cylindracoos, racemoso-ramosum; ramuli filiformes simplices, apice capitato-conidiophori; basidia cylindraco-clavata, monospora; conidia continua, subglobosa v. ovata. *Sporocybe* affine.

1. **Stilbothamnium togoense** P. Henn. l. c. tab. XIV, fig. 6 a-c. — 4447 Stromatibus carnosis, pallidis, cylindracois, subulatis, basi (2-3) connexis, 3-7 cm. longis, 2 mm. crassis, racemoso-ramosis, sulcatis; ramulis setiformibus, circiter 2 mm. longis, apice capitatis; capitulis subglobosis, atrobrunneis, nitentibus, circ. 200 μ . diam.; basidiis cylindracois, oblongis, fusco-brunneis, 23-26 \times 8; conidiis subglobosis; levibus, continuis, fusco-brunneis, 6-8 \times 6-7.

Hab. in fructibus putridis in Togo, Afr. occ. (BAUMANN).

GRAPHIUM Corda — Syll. IV, p. 609, X, p. 693, XI, p. 644.

1. **Graphium pistillarioides** Speg. Rev. Agr. y Veter. La Plata 1896, 4448 p. 254. — Late effusum, fuscum, tenuissimum; stipitibus cylindracois, 1-2 mm. longis, e basi 20 μ . crassis, ad apicem sensim attenuatis, 10-15 μ . crassis, rigidulis, erectis, levibus, nigris, clavulam linearem, acutiuscule obtusam, teretem, 500-1000 \times 30-40, candidam gerentibus; clavula undique scaberula atque conidiis minutis ovatis v. ellipticis, 4-4 $\frac{1}{2}$ \times 2 $\frac{1}{2}$ -3, levibus, eguttulatis (an catenu-

latis?) e sterigmatibus subfusiformibus, 5-8 \times 3, hyalinis oriundis undique vestita.

Hab. in foliis coacervatis subputrescentibus Sacchari officinarum, La Florida, in La Plata, Argentina.

2. **Graphium Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, 4449 p. 253. — Stipitibus sæpius late denseque gregariis, superficialibus erectis, rectiusculis v. flexuosulis, rigidulis, 500-1200 \times 20-40, sæpius simplicibus teretibus v. subcostulatis atris, sursum attenuatis, 9-10 μ . crass., atque pruinuloso-puberulis canescentibusque, ex hyphis dense arctaque adnatis, tenuibus 2-3 μ . crass., septulatis fumosis efformatis; pubescentia apicali stipitum ex hyphis exsistentibus denticulato-erosulis subhyalinis constituta; conidiis in denticulis hypharum apicalium solitariis, ellipsoideis v. ovatis, 5-7 \times 4, hyalinis, levibus, minute biguttulatis.

Hab. in foliis vaginisque putrescentibus Sacchari officinarum, prov. Tucuman, Argentina.

3. **Graphium tjibodense** Sacc. et Syd. *Graphium socium* Penz. et Sacc. 4450 Malpighia XI, 1897, p. 497. — Stipitibus gregariis, aterrimis, 1800 \times 60-80, ex hyphis filiformibus coalitis fuliginosis sursum relaxato-paniculatis, pallidioribus formatis; conidiis globosis, acro-pleurogenis, 2-3 μ . diam., hyalinis.

Hab. late effusum in ramis, sed etiam in stromatibus Xylariæ globosæ, Tjibodas Javæ. — Affine *G. Desmazierii*, sed conidia globosa.

4. **Graphium stercorarium** El. March. Bull. Soc. Roy. Bot. Belg. 4451 XXXIV, 1895, p. 143, tab. 1, fig. 5. — Gregarium; stipitibus 1-2 mm., cylindræis, 30-40 μ . crassis, rigidis, inferne haud incrassatis, apice hyphis hyalinis, basi vage ramosis, flexuosis, conidiferis, in capitulum globosum, glutinosum, albidum, 150-250 μ . diam., expansis; conidiis creberrimis, hyalinis, 8-9 $\frac{1}{2}$ \times 2,2-2,5, oblongis, utrinque obtusiusculis.

Hab. in tela stercorata, in fimo leporino et anserino in Belgio.

5. **Graphium magnum** Sacc. et Syd. Sic dicendum est *Graphium giganteum* Speg. in Syll. X, p. 694, quum exstet antèrius *Gr. giganteum* (Peck) Sacc. in Syll. IV, p. 611.

HARPOCEPHALUM Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 41 (Etym. *harpe* falx et *cephalos* caput). — Hyphæ brunneæ, erectæ, simplices v. ramis paucis brevissimis distantibus sterilibusque do-

natæ; conidia ex uno latere hypharum e cæspitulo brevissimo compacto ascendentium, nascentia, capitulum formantia, catenulata, globosa, continua, brunnea.

1. **Harpocephalum dematioides** Atk. l. c. — Hyphis septatis, atro-brunneis, sursum attenuatis, curvulis v. raro sigmoideis, 200-250 \times 8-9; conidiis glomerulum irregularem formantibus, catenulatis, globosis, demum minute echinulatis, dilute brunneis. 5-7 μ . diam.

Hab. in foliis Cinnæ arundinacæ, Auburn, Alabama Amer. bor.

STYSANUS Corda — Syll. IV, p. 621, X, p. 696. XI. p. 644.

1. **Stysanus tubericola** E. et D. Proc. of the Canad. Inst. 1897, 4454 p. 90. — Stipite ex hyphis parallelis, 700-800 \times 10-12 composito; hypharum apicibus relaxatis conidiophoris; conidiis ellipsoideis, brunneolis, 4-5 \times 2,5-3, capitulum oblongum, 110-130 \times 35-50 formantibus.

Hab. in tuberibus Solani tuberosi, loco humido servatis, London, Canada. — Fungillus ex mycelio laxo intertexto griseolo oritur. — In tuberibus sanis inoculatus facile propagatur.

2. **Stysanus amyli** Delacr. Bull. Soc. Mycol. de France XIII, 1897, 4455 p. 121, tab. IX, fig. H. — Olivaceus, sed initio sulphureus, gregarius; stipitibus rigidis, erectis, atro-brunneis, ad basim paulum incrassatis, 2-3 mm. altitudine, ad mediam partem 180-200 μ . diam., hyphis brunneo-olivaceis, septatis, 3 μ . latis, arcte coalitis compositis; capitulo rotundato, $\frac{1}{2}$ -1 mm. diam., hyphis conidiferis dilutius coloratis, septatis, 3 μ . latis, divergentibus, sursum catenas conidiorum, plus minus longas, acro- v. pleurogenas gerentibus; conidiis sphæroideis, 3,5-4,5 μ . diam., primum sulphureis, denique flavo-virentibus v. dilute olivaceis.

Hab. in amylo Solani tuberosi recens extracto, adhuc madido, gallice « fécule verte » dicto, Corbeil Gallicæ.

TRICHURUS Clem. et Shear, Bot. Surv. of Nebraska IV, Lincoln 1896, p. 7 (Etyim. *thrix*, *trichos* pilus et *oura* cauda). — Ut genus *Stysanus*, sed capitulum pilis longis strictis instructum. Forte affinis *Saccardæe* Cavara.

1. **Trichurus cylindricus** Clem. et Shear, l. c. — Solitarius v. gregarius: stipite simplici v. interdum binis a basi nigra ascendentibus, supra attenuato, in capitulum abeunte, stricto, erecto, nigro, glabro, opaco, ex hyphis $\frac{1}{2}$ -2 $\frac{1}{2}$ mm. longis, 35-85 μ . crassis in-

distinctis composito; capitulis elongatis, linearibus v. clavato-cylindraceis, æqualibus v. basim versus interdum attenuatis, griseo-fuscis, $\frac{3}{4}$ - $2\frac{1}{2}$ mm. longis, 18-30 μ . crassis, pilis acutis fuscis pauciseptatis, simplicibus, rarius 2-3-furcatis, 60-120 \times 2, dense instructis; hyphis fusco-brunneis, brevibus, pseudoverticillatis; conidiis catenulatis, oblongo-ellipticis, levibus, subglaucis, 8-9 \times 3.

Hab. in seminibus Cucurbitæ maximæ in laboratorio, Nebraska Amer. bor.

HEYDENIA Fres. — Syll. IV, p. 625.

1. **Heydenia fungicola** Peck, Bull. Torr. Bot. Club. 1895, p. 493. — 4457

Nigra, 1 mm. alta; receptaculis primo ellipticis, demum hemisphæricis, apice truncatis, disciformibus, circiter 180 μ . latis; stipite subcylindraceo; conidiis catenulatis, globosis v. subglobosis, coloratis, 4-5 μ . longis.

Hab. in Polyporo abietino vetusto, socio *Calicio tigillari*, Maine, Amer. bor. (HARVEY).

ANTROMYCOPSIS Pat. et Trab. Bull. Soc. Mycol. de France 1897, p. 215, tab. XIII, fig. 5 (Etym. *Antromyces* et *opsis* aspectus). —

Lignicola; stroma stipitato-capitatum, firmum, brunneum; capitulum hemisphæricum compactum, e filamentis simplicibus v. furcatis, septatis constans; conidia brunnea, simplicia, ovoidea v. oblonga. *Antromyceti* Fres. valde affinis, differt præcipue conidiis haud septatis; nam, teste ill. Boudier, *Antromyces* conidia 1-septata gerit.

1. **Antromycopsis Broussonetiæ** Pat. et Trab. l. c. — Cæspitosa, 6-8 4458

mm. alta; stipite solido, albido-flavido, firmo, pulverulento, cylindraceo; capitulo rotundato, 3 mm. diam., ceraceo, brunneo, dein nigro, e filamentis radiantibus, elongatis, simplicibus v. furcatis, transverse septatis, hyalinis dein brunneis, constructo; conidiis brunneis, ovoideis v. cylindraceis, utrinque obtusis, 13-18 \times 6-8.

Hab. in interiore trunci Broussonetiæ in Algeria.

Sect. 2. Phragmosporæ.

PODOSPORIUM Schw. — Syll. IV, p. 627. X. p. 699.

1. **Podosporium densum** Pat Journ. de Bot. 1897, p. 373. — Stipitibus erectis numerosis, rubro-brunneis, apice cinereo, sensim at-

tenuatis; conidiis ovoideis, apice acutis, basi truncatis, transverse 3-septatis, rubris, loculis extimis pallidioribus, 20-23 \times 6.

Hab. in *Meliola* quadam parasitans in foliis arboris ignota, Tonkin.

NEGERIELLA P. Henn. Hedw. 1897, p. 244 (Etym. a cl. mycologo *F. Neger*). — Stromata filiformia, rigida, lateraliter ramosa, ex hyphis atrofuscis, septatis ramosisque composita; conidia in apicibus ramorum singularia, subfusioidea, pluriseptata, colorata. *Helminthosporio* affinis sed composita; an ideo sat diversa a *Podosporio*?

1. **Negeriella chilensis** P. Henn. l. c. — Stromatibus filiformibus, subulatis, rigidis, singulis v. subfasciculatis, atris, 2-4 mm. longis, basi hyphis subradicantibus, atro-rufis, 8-12 μ . crassis, 180-300 μ . longis, incrassatis, usque ad apicem ramulis septatis, plus minus elongatis vestitis; conidiis apice ramulorum singularibus, subfusioideis apice mucronatis, sæpe recurvatis, pluriseptatis, septis haud constrictis, levibus, atro-castaneis, stipitatis, 60-75 \times 22-30; stipitibus plus minus elongatis 5-7 μ . crassis.

Hab. in ramis emortuis *Eugeniae* spec. pr. Concepcion in Chile (NEGER).

ISARIOPSIS Fresen. — Syll. IV, p. 630, X, p. 700, XI, p. 645.

1. **Isariopsis pilosa** Earle, Bull. Torr. Bot. Cl. 1897, p. 30. — Fasciculis sparsis, nigris, opacis, magnis, 400-600 \times 150-200 μ ., ex hyphis numerosis, brevibus, fuscis 4-12 μ . longis compositis; conidiis copiosis, acrogenis, in fasciculum penicillatum digestis, dilute fuscis, pellucidis, subcurvulis, 12-vel pluriseptatis, circiter 75 \times 3.

Hab. in cortice ramorum emortuorum *Persicæ vulgaris* pr. Auburn, Alabama Amer. bor.

2. **Isariopsis mexicana** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 475. — Fasciculis stipitiformibus, erectis, 300-400 μ . altis, 100 μ . crassis, dense sparsis, ex hyphis simplicibus brunneis septatis compositis; conidiis ex hypharum apicibus pallidioribus reflexis inflatisque oriundis, demum brunneis, multiseptatis, 70-100 \times 10-12.

Hab. in caulibus putridis, Monterey Mexico (EGELING).

3. **Isariopsis penicillata** Ell. et Ev. Bull. Torr. Bot. Club. 1895, p. 438. — Stipitibus circiter $\frac{1}{2}$ mm. altis, ex hyphis simplicibus, pallide luteis, basi dense compactis, 10-15 μ . crassis, supra flaccidis, penicillatis compositis; conidiis fusioideis, luteolo-hyalinis, 22-25 \times 5 (obscure 1-3-septatis?).

Hab. parasitica in mycelio Meliolæ cujusdam in foliis Gordonix lasianthæ, Florida, Amer. bor. (NASH).

Fam. 4. **Tuberculariaceæ** Ehrenb. em. Sacc.

Ser. 1. **Tubulariæ mucedinæ** Sacc.

Sect. 1. **Amerosporæ.**

TUBERCULARIA Tode — Syll. IV, p. 638, X, p. 700, XI, p. 645.

1. **Tubercularia Toxicodendri** Fautr. Rev. Mycol. 1895, p. 171. — 4464

Sporodochiis minutis, pallide roseis, erumpentibus; conidiis pleurogenis, cylindræis, $8-12 \times 2-2\frac{1}{2}$, rectis v. leniter curvulis.

Hab. in ramis siccis Rhois Toxicodendri in Gallia.

2. **Tubercularia Cacao** Mc Alp. Agr. Gaz. Sydney. VI, 1896, p. 6, 4465

fig. 29-32. — Sporodochiis hypophyllis, gregariis, erumpentibus, verruciformibus, obscure castaneis, confertissimis, epidermide fissa et lacerata tectis v. cinctis, $1-1\frac{1}{4}$ mm. diam.; sporophoris fasciculatis, erectis, ramosissimis; conidiis globosis, ovalibus v. ovatis, interdum leniter curvulis, hyalinis, in sporophorum ramulis apice solitariis, $10-11 \times 8-8\frac{1}{2}$.

Hab. in foliis petiolisque vivis Tetragonix implexicomæ pluribus locis in Australia.

3. **Tubercularia saccharicola** Speg. Rev. Agr. y Veter. La Plata, 4466

1896, p. 254. — Pulvinulis erumpenti-superficialibus, minutis, $0,3-0,5$ mm. diam., pulvinulatis, sparsis v. plus minusve aggregatis atque confluentibus, compactiusculis, candidis v. roseis; sterigmatibus e tereti fusiformibus, $10-12 \times 2$, levibus, hyalinis; conidiis ovatis v. ellipticis, utrinque obtusis sæpeque medio coarctatulis non v. leniter inæquilateralibus, levibus, continuis, eguttulatis v. sæpius grosse 1-vel 2-guttulatis.

Hab. in culmis putrescentibus Sacchari officinarum, prov. Tucuman et La Plata, Argentina.

4. **Tubercularia fructicola** Sacc. et Syd. Sic dicenda est *Tubercularia*

carpogena Peck in Syll. X, p. 705, quum exstet anterior *Tubercularia carpogena* Cda. in Syll. IV, p. 647.

DENDRODOCHIUM Bonord. — Syll. IV, p. 650, X, p. 706, XI, p. 646.

1. **Dendrodochium strictum** Dom. Sacc. Atti d. Soc. Ven. — Trent. di 4467

Sc. Nat. 2 ser. 2 vol. 2 fasc., 1896, pag. 478, tab. I, n. 11 et

Bull. Soc. Myc. de Fr. 1896, p. 80. — Acervulis gregariis, superficialibus, pulvinatis, ambitu irregularibus, 1-2 mm. diam., compactiusculis, amœne roseis, tandem expallentibus et fatiscentibus; basidiis densissime fasciculatis, bacillaribus, 60-70 \times 3-4, ex hyalino dilutissime roseis, guttulatis v. obsolete septatis, sursum ramulos paucos, breves, rectos gerentibus; conidiis oblongo-ellipsoideis, 5-7 \times 3, hyalino-roseolis, obsolete biguttatis.

Hab. ad corticem, in basi truncorum, Cercidis Siliquastris in horto bot. Patavino. Italia. — Affine *D. rubello*, a quo differt hyphis seu basidiis densissimis apice parce stricte ramosis.

2. **Dendrodochium gigasporum** Bres. et Sacc. Atti R. Acc. Sc. Lett. 4468 et Arti degli Agiati, ser. III 3. fasc. 1-2, 1897, p. 120. — Sporodochiis superficialibus, gregariis v. sparsis, globulosis v. pulvinatis, compactis, nitidulis, dilute roseo-isabellinis, 0,2-0,3 mm. diam.; basidiis stipitatis, radiantibus, sursum varie ramosis, continuis, hyalinis, 40-50 \times 3; conidiis oblongis, sursum crassioribus obtusioribus, sæpe inæquilateris, 24-30 \times 8-10, ex hyalino dilutissime roseis.

Hab. in ligno putri Piri Mali in Hungaria (KMET). — Conidiis majusculis et sporodochiis compactiusculis, nitidis, fere nectrioides species mox dignoscenda.

3. **Dendrodochium hymenuloides** Sacc. Bull. Soc. Myc. de Fr. 1896, 4469 p. 71, tab. VII, fig. 4. — Sporodochiis erumpenti-superficialibus, pulvinatis, gregariis, compactiusculis, intus albis, extus nitidis, roseis, 0,5 mm. diam., sat regularibus; conidiis oblongo-ellipsoideis, biguttulatis, hyalinis, 4 \times 1-1 $\frac{1}{2}$; basidiis fasciculatis, bacillaribus, 30-35 \times 2, simplicibus v. furcatis parceque trifidis, sursum attenuatis.

Hab. in ramulis putridis corticatis Mori albæ, Selva (Treviso) Italiae super. — A typo generis differt basidiis parce ramosis, hinc ad *Hymenulam* vergit.

4. **Dendrodochium subtile** Fautr. Rev. Mycol. 1895, p. 167. — Sporodochiis minutis pallide luteis v. roseis, elongatis, erumpentibus; basidiis ramosis, 50-60 \times 1; conidiis cylindræis, minutissimis, 4 \times $\frac{3}{4}$.

Hab. in acubus Pini silvestris in Gallia.

5. **Dendrodochium compressum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4471 p. 475. — Erumpens, tuberculiforme, circiter 1 mm. diam., dilute luteum, deinum subsuccineum, udum subgelatinosum, siccum corneum; sporophoris gracilibus, 200 μ . longis, 1 $\frac{1}{2}$ μ . crassis, sursum trichotomo- vel subverticillato-ramosis, ramis 20-30 μ . longis; conidiis terminalibus, compressis, ellipticis, 4-4 $\frac{1}{2}$ \times 3.

Hab. in ligno putrido, Maine Amer. bor. (HARVEY). — Ad *Cylindrocollam* vergit.

6. **Dendrodochium helotioides** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4472 p. 476. — Sporodochiis per corticis rimas seriatim erumpentibus, confertis, subconfluentibus, irregularibus, aurantiacis, demum concavo-discoideis, disco obscure aurantiaco, margine albido; sporophoris parce ramosis, erectis, gracilibus, 30-40 μ . longis; conidiis oblongo-ellipticis, hyalinis, 5-7 \times 2 $\frac{1}{2}$ -3 $\frac{1}{2}$.

Hab. in cortice emortuo in ins. Sandwicens. (HELLER). — Aspectu externo *Helotium citrinum* optime simulat.

7. **Dendrodochium Cattleayæ** Allesch. Hedw. 1895, p. 221. — Sporodochiis primum subcutaneis et epidermidem pustulatim infantibus, dein erumpentibus et superficialibus, botryoso-verrucosis, roseis; sporophoris dense verticillato-ramosis, parce septatis, 2 μ . crassis, denique 90-100 μ . (et ultra) longis; conidiis ovatis oblongisve, sæpe inæquilateralibus, subhyalinis, 5-7 \times 2-2 $\frac{1}{2}$.

Hab. in bulbis subviviis vel emortuis Cattleayæ labiatæ in calidariis, München Bavariæ.

ILLOSPORIUM Mart. — Syll. IV, p. 656, X, p. 710, XI, p. 646.

1. **Illosporium moricolum** Sacc. Bull. Soc. Myc. de Fr. 1896, p. 71, 4474 tab. VII, fig. 3. — Sporodochiis superficialibus, subgregariis, hemisphærico-pulvinatis, $\frac{1}{2}$ mm. diam., subinde confluenso inæqualibus, sordide roseis, rugulosis; conidiis ellipsoideis, 5 \times 3, biguttulatis, hyalinis, copiosissimis, initio catenulatis; sporophoris cylindraceis, flexuosis vel incurvis, ad sporodochii basim tantum inveniendis, 15-20 \times 3.

Hab. in ramulis putrescentibus udis Mori albæ, Italia super.

2. **Illosporium muscorum** E. Rostr. Botan. Tidskr. XX, 1896, p. 158, 4475 — Acervulis dense gregariis, semiglobosis, minutissimis, 0,2 \times 0,25 mm. diam., stramineis; conidiis irregulariter ellipsoideis v. ovoideis, sæpe angulatis, 5-6 μ . longis.

Hab. in Sphagnis, Hypnis etc., in ins. Faroer.

3. **Illosporium flavellum** B. et Br. Linn. Trans. 1883, p. 68; Cooke, 4476 Handb. Austral. Fg. 1892, p. 386. — Stipitatum, luteum, stipite subbrevis; conidiis globosis.

Hab. in lichenibus, Queensland Australiæ.

ASTRODOCHIUM Ell. et Ev. Americ. Natur. 1897, p. 430 (Etym. *aster* et *docheion* receptaculum, ob hyphas radiantes). — Spore-

dochium innato-superficiale, ex hyphis brunneis, ramosis, adpressis, radiantibus formatum; conidia oblonga, continua, hyalina, in basidiis simplicibus apice singulatim orta.

1. **Astrodochium coloradense** Ell. et Ev. l. c. — **Epiphyllum**, maculas rotundas, brunneas $\frac{1}{2}$ -1 cm. diam. efformans (ut in genere *Asteroma*); hyphis adnatis, apicem versus numerosissime et opposito-ramosis, mox in sporodochia coalescentibus; sporodochiis rotundis ellipticis, subdiscoidis, dilute succineis, $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam., e basidiis confertis obclavatis $12 \approx 2\frac{1}{2}$ μ . hyalinis compositis; conidiis terminalibus, oblongis, hyalinis, $4-6 \approx 1\frac{1}{4}$ - $1\frac{1}{2}$.

Hab. in foliis dejectis *Quercus undulatae* in Colorado Amerbor. (BETHEL).

ÆGERITA Pers. — Syll. IV, p. 661, X, p. 711, XI, p. 647.

1. **Ægerita carnea** Pat. Cat. rais pl. cell. Tunisie 1897; p. 135. — Minutissima, punctiformis, subtremelloidea, carnea; conidiis ovatis v. citriformibus, majusculis, $36 \approx 20$ μ ., dilute roseis, levibus, crasse tunicatis, hyalinis, intus granulis hyalinis minutis dense repletis.

Hab. in thallo Lichenum in Tunisia.

TUBERCULINA Sacc. — Syll. IV, p. 653, X, p. 709, XI, p. 646.

1. **Tuberculina Ricini** (Cocc.) Sacc. et Syd., *Tubercularia Ricini* Cocc. Pizz. fung. nuov. in Mem. Accad. Bologna 1896, p. 152. — Sporodochiis suborbicularibus, violaceo-brunneis, basi cum stromate *Uredinis* confluentibus; basidiis filiformibus, dense parallele fasciculatis, simplicibus, continuis, hyalinis, apice conidia globulosa, $7-8,5$ μ . diam., saturate violacea, crasse tunicata gerentibus.

Hab. in soris *Uredinis Ricini* in agro Bononiensi.

SPHACELIA Lev. — Syll. IV, p. 666.

1. **Sphacelia ? juncicola** Fautr. Rev. Mycol. 1896, p. 144. — Minuta, albida, ex ovario destructo oriunda; conidiis oblongis, hyalinis, guttulatis, $12-13 \approx 4-5$.

Hab. in ovaribus Junci glauci in Gallia.

HYMENULA Fr. — Syll. IV, p. 667, X, p. 712, XI, p. 647.

1. **Hymenula Galii** Peck, 49 Rep. Stat. Bot. N. York. 1896, p. 20. — Sporodochiis minutis, $0,3-0,5$ mm. latis, orbiculari-oblongis v. ellipticis, rarius confluentibus irregularibusque, hypophyllis, subgelatinosis, pallidis, ætate ac siccitate nigrescentibus, linea elevata

subnigra circumscriptis; conidiis minutis cylindraceis, 4-6 μ . longis, sporophoris multo longioribus gracilibus suffultis.

Hab. in foliis vivis v. languidis *Galii borealis*, New York Amer. bor.

2. **Hymenula fumosellina** Starb. Bih. K. Sv. Vet. Ak. Handl. XXI, 4482 1895, p. 35, fig. 25 c. — Sporodochiis gregariis vel sparsis, interdum subconnatis, primo punctiformi-sphæroideis, erumpentibus, deinde e basi applauatis, umbrino-fuscis, obconico-cupulatis, margine inflexo, interdum distincto, flexuoso præditis, demum patellaribus, convexulis, aurantiaco-flavis v. fulvidis, siccis rubino-vel topazio-fulgentibus, 200-300 μ . diam.; sporophoris discum saturationem formantibus, pluries furcatis; conidiis pleuro-acrogenis, bacillaribus, cylindraceis, rectis v. lenissime curvulis, utrinque truncatis, 10-14 \times 2-2 $\frac{1}{2}$.

Hab. ad acus languescentes *Abietis*, Oestergötland Sueciæ (HAGLUND). — Spermogonium *Phialeæ fumosellinæ* Starb.

PACTILIA Fr. — Syll. IV, p. 672.

1. **Pactilia Galii** Allesch. et P. Henn. Hedw. 1897, p. 245. — Sporodochiis epiphyllis, verruciformibus, miniatis v. cinnabarinis; sporophoris articulatis, parce ramosis, 60-70 μ . longis, hyalinis; conidiis ovoideo-oblongis, hyalinis, continuis, 5-8 \times 3-3 $\frac{1}{2}$.

Hab. ad folia *Galii Reibun* pr. Mulbeco in Chile (NEGER).

CYLINDROCOLLA Bonord. — Syll. IV, p. 673, X, p. 715, XI, p. 648.

1. **Cylindrocolla Dendroctoni** Peck ap. Nutt. Field Columb. Mus. IX, 4484 1896, p. 99. — Sporodochiis minutis, subirregularibus, ceraceo-molliusculis albis v. albidis; sporophoris tenuibus sursum abunde ramosis, passim deorsum in basim stipitiforem brevem compactis; conidiis catenulatis, breve cylindraceis, subtruncatis, hyalinis, 4-5 \times 2-2,5.

Hab. in insecto *Dendroctono frontali* sub cortice *Pini*, passim in ipsum corticem reptans, Hampshire Co. Amer. bor.

2. **Cylindrocolla Bigeloviæ** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, 4485 p. 476. — Sporodochiis gregariis, depresso-hemisphæricis v. valde convexis, flavo-succineis, $\frac{1}{2}$ - $\frac{3}{4}$ mm. diam.; sporophoris dendroideo-ramosis, filiformibus, hyalinis, 50-60 \times 1; conidiis terminalibus, catenulatis, cylindraceis, 6-7 \times 1 $\frac{1}{2}$.

Hab. in ramulis emortuis *Bigeloviæ*, Colorado Amer. bor.

3. **Cylindrocolla flagellaris** Ell. et Ev. Field Columb. Mus. IX, 1896, 4486

p. 100. — Sporodochiis gregariis, subglobosis, subhyalinis, gelatinosis, lenticularibus, margine tenui, orbicularibus, 33-50 mm. diam., siccis luteolis, centro albicantibus; sporophoris dense fasciculatis, flagelliformibus, 2-3-ramosis, 80-100 μ . longis; conidiis breviter cylindraceutis, hyalinis, 4-5 \times 1.

Hab. in caulibus mortuis Helianthi decapetali in W. Virginia (NUTTALL).

4. **Cylindrocolla Stuhlmannii** Allesch. in P. Henn. Pilz. Ostaf. p. 35. 4487

— Sporodochiis disciformibus cupuliformibusve, mesentericis, gelatinosis, cinereo-albidis, humectato-subpellucidis, demum obscurioribus; sporophoris dense fasciculatis, repetito-dichotomis v. sæpe verticillato-ramosis, hyalinis, 70-100 \times 0,5-1, in conidia cylindracea, continua, eguttulata, recta, hyalina, 25-40 μ . longa, 0,5-1 μ . crassa abeuntibus.

Hab. in spicis Panici in Afr. trop. (STUHLMANN).

PATELLINA Speg. — Syll. III, p. 622, IV, p. 677, X, p. 717.

1. **Patellina pallida** Pat. Journ. de Bot. 1897, p. 372. — Sporodochiis sessilibus, ceraceis, orbicularibus, applanatis, sæpe sinuosis v. difformibus, sparsis v. confluentibus, $\frac{1}{2}$ -2 mm. latis, extus albis, villosis dein glabris, margine angusto, albo, expanso v. erecto; disco compacto, convexo v. plano, interdum depresso, colore vario pallide roseo, carneo, aurantiaco v. albedo; sporophoris numerosis longissimis, 100 μ ., confertis, filiformibus, apice conidia elliptica 5-6 \times 2 gerentibus. 4488

Hab. ad cortices arborum vetustarum in Tonkin.

VOLUTELLA Tode — Syll. IV, p. 682, X, p. 718, XI, p. 649.

1. **Volutella Scopula** Boul. in Rev. génér. Bot. 1897, p. 220, tab. 11. 4489

— Sporodochiis discoideis, sessilibus, basi coarctatis, albo-roseis, initio subplanis demum ob mucum superpositum convexis flavidisque, $\frac{1}{2}$ mm. circ. diam.; setulis erecto-divergentibus, septatis, asperulis, usque 1 mm. longis, roseolis; basidiis penicillato-ramosis, septatis, ramis sursum tenuatis, conidiophoris; conidiis ellipsoideis, 2-guttulatis, 6 \times 2, hyalinis.

Hab. in bulbis Hyacinthi putrescentibus, Paris Galliæ. — Basidia fasciculato-ramosa, exterius in setulas manifestissime abeunt. Cl. auctor speciem coluit obtinuitque formas secundarias: 1. mucedineam simplicem, *Hyalopodis* sp. sistentem, conidiis 8 \times 2; 2. formam chlamydospoream, chlamydosporis sæpius intercalaribus,

subglobosis. Aliquid similis obtinuit culturâ doct. DOM. SACCARDO ex *Volutella ciliata*. Cfr. Malpighia, 1897, p. 225, tab. VI, bis.

2. *Volutella leucotricha* Atk. Corn. Un. Agr. Exp. Stat. n. 94 (1895) 4490
p. 260, t. V, VI. — Sporodochiis convexo discoideis, albis v. carneo-pallidis; setulis paucis, filiformibus, parce septatis, subhyalinis cinctis; basidiis dense fasciculatis, filiformibus; conidiis oblongis hyalinis, perexiguis.

Hab. in caulibus Dianthi in Amer. bor. — A. V. Dianthi Halst. differt præsertim conidiis multo minoribus. Generatio altera sistit formam *verticillioideam*. Cfr. Atk. l. c.

3. *Volutella sulphurea* Roll. Bull. Soc. Myc. de Fr. 1896, p. 8, t. I, 4491
fig. 10. — Sporodochiis sessilibus, pulvinatis, sulphureis, $\frac{1}{6}$ - $\frac{1}{4}$ mm. latis, extus pilis paucis, pallidis, 150-200 longis vestitis; conidiis hyalinis, oblongis, utraque extremitate 1-guttulatis, 7-8 2-2 $\frac{1}{2}$; sporophoris numerosis.

Hab. ad fructus Oleæ siccos dejectos, Golfe Juan Galliæ.

4. *Volutella toxica* Fautr. Rev. Mycol. 1895, p. 171. — Ciliis niveis, 4492
divergentibus; conidiis hyalinis, apice valde obtusis, basi subacutatis, 12-15 \times 4-6.

Hab. in ramis Rhois Toxicodendri in Gallia.

5. *Volutella Acalyphæ* Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 49. 4493
— Sporodochiis nigris, erumpentibus, 80-100 μ . diam., margine setis nigris septatissimis, irregularibus, interdum strangulatis, 150-210 \times 4-7 metientibus fimbriatis; conidiis hyalinis, falcatis, fusoides, continuis, 25-30 \times 2 $\frac{1}{2}$ -3, minoribus (probabiliter immaturis) rectis, 10-15 \times 2 interdum immixtis; basidiis gracilibus, 35-50 \times 1 $\frac{1}{2}$ -2, hyalinis.

Hab. in caulibus *Acalyphæ carolinianæ*, Auburn, Alabama, Amer. bor.

6. *Volutella oxyspora* Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 50. 4494
— Sporodochiis magnis circiter 200 μ . diam., hemisphaericis, nigris; setis nigris, attenuatis, 100-150 \times 4-5, divergentibus; conidiis falcatis, fusoides, hyalinis, continuis, 25-30 \times 2 $\frac{1}{2}$ -3; basidiis brevibus, pallide fuscis, stromate fuligineo suffultis.

Hab. in radicibus Betæ vulgaris, Auburn, Alabama Amer. bor.

7. *Volutella Morearum* Roll. Bull. Soc. Myc. de Fr. 1896, p. 8, t. II, 4495
fig. 7. — Sporodochiis gregariis, albidis, sessilibus, $\frac{1}{3}$ - $\frac{2}{3}$ mm. latis, setis albis, rectis, septatis, subulatis, circiter 270 \times 4 obvallatis; conidiis oblongis, 7-8 \times 1, hyalinis; sporophoris filiformibus, dense stipatis, 50-60 μ . longis.

Hab. in cortice Fici Caricæ, Golfe Juan Galliæ.

8. *Volutella gilva* (Pers.) Sacc. - Syll. IV, p. 686: — var. **albo-pilosa** 4496
Pound et Clem. Bot. Surv. of Nebraska, IV Lincoln 1896, p. 8. —
Differt a forma typica sporodochiis atro-olivaceis v. subatris; pilis
longioribus, dense intricatis, albis.

Hab. in foliis emortuis Ulmi fulvæ in Nebraska Amer. bor.
— f. **effusa** Sacc. Malpighia XI, 1897, pag. 324. Sporodochiis
confluentibus, expansis. In caulibus emortuis Cirsii et Cyno-
glossi, Alagna-Valsesia, Italia boreal. (CARESTIA).

9. *Volutella tectæcola* Atk. Bull. Cornell Univ. III, n. 1, 1897, p. 49. 4497
— Maculis magnis, dilute brunneis, apicem vel magnam marginis
partem foliorum occupantibus, linea purpureo-brunnea limitatis;
sporodochiis minutis, dense sparsis, nigris, 25-40 μ . altis, 35-70 μ .
diam., margine setis nigris rigidis 40-70 \approx 4-5 metientibus fimbria-
tis; conidiis cylindræis, rectis v. interdum curvulis, utrinque acu-
tissimis, hyalinis, continuis; basidiis numerosis.

Hab. in foliis Arundinariæ tectæ, Auburn, Alabama Amer.
bor.

LACHNODOCHIUM El. March. Bull. Soc. Roy. Bot. Belg. XXXIV,
1895. p. 144 (Ety. *lachnos*, vellus et *docheion*, receptaculum).
— Sporodochia alba, subglobosa, sessilia, e gelatina tenaci, haud
fluxili, composita, sporophoris tecta. Conidia oblonga, in sporopho-
ris hyalinis, simplicibus, longe exsertis, acrogeno-capitulata.

1. *Lachnodochium candidum* El. March. l. c. tab. I, fig. 2. — Spo- 4498
rodochiis superficialibus, sparsis, 1 $\frac{1}{2}$ -2 mm. diam.; hyphis sterili-
bus irregulariter et divaricatim ramosis, flexuosis, vix septatis,
extus asperulatis, in gelatina granulosa laxè intricatis; sporophoris
erectis, 100-170 \approx 4 $\frac{1}{2}$ -6, densis, indumentum niveum leve supra
sporodochium formantibus, continuis, superne asperulatis, ubi le-
viter inflato-denticulatis, protoplasmate granuloso; conidiis 2-6 in
capitulum digestis, oblongis, utrinque acutis, 17-21 \approx 5-6,3, ascen-
dentibus v. erectis, intus eximie multiguttulatis.

Hab. in fimo aprugno in Belgio.

DACRYODOCHIUM Karst. in Hedw. 1896, p. 47 (Ety. *dacryon*, la-
cryma et *docheion*, receptaculum). — Sporodochia pulvinata v. ver-
ruciformia, gelatinosa, læticoloria. Conidia in sporophorum apice
capitato-aggregata, sphæroidea, hyalina. Verisimiliter genus non
satis diversum a *Lachnodochio*.

1. **Dacrydochium fluxile** Karst. Hedw. 1896, p. 47. — Sporodochiis 4499
gregariis, sæpe confluentibus, superficialibus, pulvinatis, gelati-
noso-fluxilibus, incarnato-pallidis, siccis duriusculis, carneis v. sub-
aurantiacis, minutis; sporophoris ex hyphis repentibus, ramosis,
1-2 μ . crassis, oriundis, tenerrimis; conidiis sphaeroideis, eguttulatis,
hyalinis, 3-4 μ . diam.

Hab. in ramis corticatis Salicis locis udis pr. Mustiala Fennicæ.

Sect. 2. Phragmosporæ.

BACTRIDIIUM Kunze — Syll. IV, p. 691.

1. **Bactridium versicolor** Mc Alp. Proc. of the Linn. Soc. of N. S. 4500
Wales 1897, p. 40, tab. II, fig. 13-14. — Sporodochiis confertis-
simis, globosis, hemisphaericis, nigris, firmis, circiter $\frac{3}{4}$ mm. diam.;
sporophoris compactis, erectis, hyalinis, septatis, simplicibus, 130-
140 \times 4; conidiis hyalinis, rectis v. leniter curvulis, elongatis, li-
neari-clavatis, deorsum attenuatis, multiseptatis, sæpe ad septa con-
strictis secedentibusque, 47-60 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. in cortice Tabernæmontanæ orientalis, N. S.
Wales Australiae (MAIDEN). — Ad *Fusarium* vergit.

FUSARIUM Link — Syll. IV, p. 694, X, p. 721, XI, p. 649.

1. **Fusarium foliocolum** Allesch. Hedw. 1895, p. 289. — Sporodochiis 4501
globulosis v. peziziformibus, roseis, 1 mm. diam.; conidiis ellipticis,
utrinque obtusiusculis, apice ut plurimum rotundatis, continuis,
hyalinis, ca. 10-16 \times 5-6.

Hab. in foliis emortuis et corruptis Arabidis alpinæ in
Bavaria. — An ad *Volutellam* ducendum?

2. **Fusarium rhoicolum** Fautr. Rev. Mycol. 1895, p. 171. — Sporo- 4502
dochiis albis; hyphis crassis, 4 μ .; conidiis subrectis, 3-5-septatis,
40-50 \times 4-5.

Hab. in ramis Rhois Toxicodendri in Gallia.

3. **Fusarium oxysperum** Schlecht. var. **aurantiacum** Cda., Sacc. Syll. 4503
IV, p. 705. — forma **hyalina** P. Brun. Act. Soc. Linn. Bordeaux
1890, p. 51 extr. — Conidiis fusiformi-falcatis, hyalinis, 3-5-se-
ptatis, 50-58 \times 4 $\frac{1}{2}$.

Hab. in epicarpio Cucurbitæ Peponis, Saintes in Gallia.

4. **Fusarium rubicolum** B. et Br. Linn. Trans. II, 1883, p. 68, tab. XV, 4504
fig. 10, 11; Cooke, Handb. Austral. Fung. 1892, p. 387. — Effu-

sum, griseo-carneum; conidiis elongatis, 3-4-septatis, apice latioribus, 50 μ . longis.

Hab. in foliis Eucalypti supra gallas effusum, Queensland Australia.

5. **Fusarium japonicum** Allesch. Hedw. 1897, p. (164). — Sporodochiis sparsis, epidermide tectis, dein paulum erumpentibus, lenticularibus, pallidis, postremo obscuris; conidiis cylindraccis, plerumque curvatis, rarius rectis, utrinque obtusis, unicellularibus, indistincto guttulatis, hyalinis, ca. 20-28 \times 3-4; sporophoris dense cæspitosis, filiformibus, conidia æquantibus.

Hab. ad ramulos emortuos Pruni japonicæ pr. Berolinum Germaniæ (SYDOW).

6. **Fusarium Nectriæ-Turrææ** P. Henn. Fungi camerun. I in Engl. Jahrb. XXII, 1895, p. 82. — Sporodochiis erumpentibus, circiter $\frac{1}{2}$ mm. diam., ceraceo-carnosis, aurantiacis; sporophoris fasciculatis, filiformibus, ramosis, hyalinis, septatis; conidiis sigmoideis v. elongato-fusoideis, curvulis, apiculatis, hyalinis, guttulatis, dein 5-7-septatis, non constrictis, 70-100 \times 6-8.

Hab. ad Nectriam Turrææ in ramis vivis Turrææ Volkensii, Kilimandscharo, Africa (VOLKENS).

- 7 **Fusarium Schnablium** Allesch. Hedw. 1895, p. 289. — Sporodochiis floccosis, amœne roseis, erumpenti-superficialibus, effusis; hyphis ramosis, continuis; conidiis fusiformibus, falcatis v. flexuosis, hyalinis, plerumque 5-septatis, utrinque acutiusculis, non constrictis, ca. 50-60 \times 3-5.

Hab. in ramis decorticatis Aceris Pseudoplatani in Bavaria (SCHNABL).

8. **Fusarium hyssinum** Mc. Alp. New S. Wales fungi 1897, p. 698, t. XXVI (Proc. Linn. Soc. N. S. W.). — Hypophyllum; sporodochiis pulvinatis, gregariis, hinc inde confluentibus, firmis, basi byssoideis, carneis demum læte aurantio-flavis, sæpe centro umbilicatis, subcircularibus, 2-3 mm. diam.; hyphis dense compactis, tenuibus, 1-1,5 μ . diam., hyalinis; conidiis fusoideis, rectis, utrinque acutis, continuis, raro 1-septatis, 11-14 \times 1,5-2, hyalinis.

Hab. in foliis Desmodii sp., Murwillumbah N. S. W. Australiae. — Species a typo generis recedens, forte ad *Didymopsis* accedens.

9. **Fusarium Adeemiæ** P. Henn. Hedw. 1897, p. 246. — Sporodochiis amphigenis caulicolisque, ceraceis, pulvinatis, minutis, incarnatis v. rufis; conidiis in apice sporophororum, cylindraccis, rectis v.

curvulis, utrinque obtusiusculis, medio uniseptatis, haud constrictis, loculis pluriguttulatis v. obsolete septatis, 25-35 × 4-4 1/2, hyalinis.

Hab. in foliis vivis *Adesmiæ* spec. in prov. Biobio in Chile (NEGER).

10. **Fusarium Sophoræ** Allesch. Hedw. 1897, p. (164). — Sporodochiis minutis, sparsis v. sæpe gregariis, carneis, suborbicularibus v. oblongis, sæpe confluentibus; sporophoris torulosis, ramosis; conidiis fusiformibus, curvatis v. subrectis, utrinque acuminatis, basi plerumque minute appendiculatis, 1-3-septatis, ad septa vix vel non constrictis, ca. 20-40 × 4-5, hyalinis. 4510

Hab. in ramis siccis *Sophoræ japonicæ* pr. Berolinum Germaniæ (SYDOW).

11. **Fusarium roseum** Link-Sacc. Syll. IV, p. 699. — f. **Visci** P. Brun. Act. Soc. Linn. Bordeaux 1898, p. 19 extr. — Conidiis falcatis 3-septatis, 42-45 × 4-5. 4511

Hab. in caulibus emortuis *Visci albi*, Saintes Galliæ.

12. **Fusarium Hymenula** Pound et Clem. Bot. Surv. of Nebraska IV, Lincoln, 1896, p. 7. — Sporodochiis minutis, 100-200 µ. diam., gregariis, orbicularibus v. oblongis, disciformibus, extus albo-tomentosis, intus primo succineis, dein atris, margine leniter elevato, flexuoso, albo; sporophoris longis, 2-4-verticillato-ramosis, ramis brevibus, ascendentibus v. erectis, adpressis, 35-40 × 2; conidiis oblongis, utrinque latioribus, simplicibus rotundatis, hyalinis, 10-12 × 3-4. 4512

Hab. in foliis emortuis *Helianthi* in Nebraska Amer. bor.

13. **Fusarium Jungiæ** Pat. Bull. Soc. Myc. de Fr. 1895, p. 234. — Sporodochiis hypophyllis, 1/6-1/4 mm. diam., subglobosis, rubro-aurantiacis; conidiis hyalinis, curvatis, falciformibus, utriusque attenuatis, pluriguttulatis, dein 3-5-septatis, 60-80 × 5; basidiis hyalinis, ramosis. 4513

Hab. in soris *Pucciniæ* sp. ad folia *Jungiæ* in Æquatoria (v. LAGERHEIM).

14. **Fusarium affine** Fautr. et Lamb. Rev. Mycol. 1896, p. 68. — Sporodochiis amorphis, sordide albidis, superficialibus v. innatis; conidiis cylindræis, attenuatis, rectis, hyalinis, primo simplicibus, dein uniseptatis, biguttulatis, 10-15 × 4 (in interiore caulium). 4514

Hab. ad caules *Solani* tuberosi in Gallia.

15. **Fusarium acuminatum** Ell. et Ev. Proc. Acad. Philad. 1895, p. 441. — Sporodochiis gregariis, minutis, ex albo carneis; conidiis 4515

falcatis, utrinque attonuato-acuminatis, 3-5-, rarius 6-septatis, ad septa non constrictis, e cellulis suboblongatis oriundis.

Hab. in caulibus vivis Solani tuberosi, New York, in America boreali.

16. **Fusarium coffeicolum** P. Henn. Fungi camerun. I, in Engl. Jahrb. 4516
XXII, 1895, p. 82. — Sporodochiis erumpentibus, carnosis, minutis, sparsis, oblongis v. rotundatis, subpulvinatis, incarnatis; sporophoris caespitosis, basi subramosis v. simplicibus, subclavatis, hyalinis, 15-30 × 5; sporulis cylindracco-oblongis, raro subclavatis, hyalinis, 2-3-guttulatis, 12-14 × 4-5.

Hab. ad petiolos et folia Coffeæ libericæ, Kamerun (PREUSS).

17. **Fusarium rosaum** Link-Sacc. Syll. IV, p. 699. — var. **Loniceræ** 4517
Allesch. Ber. Bayr. Bot. Ges. V, 1897, p. 22. — Sporodochiis erumpentibus, pulvinatis, circularibus v. oblongis, roseis, carnosis; sporophoris ramulosis, inæqualibus, hyalinis, erectis, obtusis; conidiis fusiformibus utrinque acutis, curvatis, 1-3-septatis, non constrictis, subhyalinis, 30-40 × 3-4.

Hab. in ramis emortuis Loniceræ tataricæ pr. München Baviaræ.

18. **Fusarium Oxydendri** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 477. 4518
— Sporodochiis tuberculiformibus, circiter 1 mm. diam., schistaceis, subcartilagineis, apice truncatis v. concavis, per epidermidem erumpentibus eaque rupta dense cinetis; sporophoris ramosis, hyalinis, nucleolatis, in massa olivaceis; conidiis arcuatis, nucleatis, continuis, 40-60 × 2½-3.

Hab. in Oxydendro arboreo, W. Virginia Amer. bor. (NUTTALL). — *F. Schweinitzii* affine.

19. **Fusarium samararum** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 4519
p. 39. — Sporodochiis minutis, erumpentibus, tubercularia-formibus, pallide carneis; conidiis fusiformibus, utrinque obtusiusculis, leniter curvis, dia. continuis, denique 1-3-septatis, 40-50 × 4-5, hyalinis; sporophoris dense caespitosis, fusoides, subramosis.

Hab. in fructibus dejectis Fraxini excelsioris pr. München Baviaræ.

20. **Fusarium Thevetiæ** F. Tassi, Atti R. Acc. dei Fisiocr. Siena 4 4520
ser. VIII, 1896, p. 10 extr. et Rev. Mycol. 1896, p. 171, t. CLXXIII, fig. 10. — Sporodochiis erumpentibus, aggregatis, albis, ⅔-1 mm. diam.; conidiis fusiformibus, falcatis, 5-6-septatis, hyalinis, 30-40 × 4, sporophoris acicularibus fultis.

Hab. in drupa exsiccata *Thevetiæ veneniferæ* in India occid.

. *Fusarium asclepiadeum* Fautr. Rev. Mycol. 1896, p. 68. — Sporodochiis minutis, roseolis, in maculis pallidis confertis, centro depressis; conidiis cylindræis, curvatis, obtusis, hyalinis, granulosis v. guttulatis, non septatis, 30-40 \times 4-5.

Hab. ad fructus *Vincetoxici officinalis*, sociâ *Phoma Vincetoxici* in Gallia.

22. *Fusarium salicolum* Allesch. Ber. Bayr. Bot. Ges. IV, 1896, p. 39. — Sporodochiis erumpentibus, floccosis, subhemisphæricis, dense gregariis v. confluentibus et effusis, roseolis; hyphis simplicibus furcatisve, parce septatis, hyalinis, 40-55 \times 3-4; conidiis fusiformibus, rectis v. leniter curvatis, utrinque acutis, sæpe obtusiusculis, 1-3-septatis, ad septa parum constrictis, hyalinis, magnitudine varia, 15-50 \times 3-5.

Hab. in ramulis tenuibus emortuis *Salicis Capræ* pr. München Baviariæ.

23. *Fusarium ? camerunense* P. Henn. Fungi camerun. I, in Engl. Jahrb. XXII, 1895, p. 81. — Sporodochiis carnosoceraceis, erumpentibus, sæpe aggregatis, irregularibus, pallide flavis; basidiis simplicibus v. ramosis; conidiis cylindræis v. fusiformibus, obtusiusculis v. acutiusculis, rectis v. curvulis, multiguttulatis, hyalinis, 15-20 \times 4-5.

Hab. in corticibus emortuis arborum deciduarum, Kamerun (DUSÈN).

24. *Fusarium Nectriæ-palmicolæ* P. Henn. Engl. Jahrb. XXIII, 1896, p. 290. — Sporodochiis sparsis, epiphyllis, pallidis vel rubellis; hyphis articulatis, ramosis; conidiis fusoides vel sigmoideis, utrinque acutis, rectis vel flexuosis, 7-septatis, septis paulo vel haud constrictis, subincarnescentibus, 25-38 \times 3 $\frac{1}{2}$ -4 $\frac{1}{2}$.

Hab. ad folia *Areçæ* spec., sociâ *Nectria* quadam in ins. Upolu ins. samoëns. (C. WEBER).

25. *Fusarium Zygotetali* Delacr. Bull. Soc. Mycol. de France XIII, 1897, p. 103, tab. VIII, fig. A. — Amphigenum, in maculis vagis, albo-flavidis, subepidermicum, dein erumpens; caespitulis albis v. albo-roseis, initio compactis, sed denique mucedineis, $\frac{1}{2}$ - $\frac{2}{3}$ mm. diam.; mycelio albo, septato, ramoso; sporophoris erectis, subradiantibus, septatis, ramosis, 3 μ . lat., e stromate compacto nascentibus, denticulos pleurogenos gerentibus; conidiis erectis, fusoides, primum continuis, tardius uniseptatis, ad denticulos insertis, 30-36 \times 3.

- Hab.* in foliis *Zygopetali Mackayi*, in calidariis horti «Luxembourg» Parisiorum Galliæ.
26. **Fusarium Seemonianum** P. Henn. Allg. Bot. Zeitschr. 1896, p. 83. 4526
 — Sporodochiis minutis, punctiformibus confluentibusque, ceraceis, minutiatis, dein fusciscentibus; conidiis fusoidis, curvulis, hyalinis, utrinque acutis, intus granulatis, medio septatis, dein 3-5-septatis, 30-45 \approx 4 $\frac{1}{2}$ -5.
Hab. in foliis *Platantheræ bifoliæ* var. *robustæ* in ins. Borkum Germaniæ (v. SEEMEN).
27. **Fusarium aleurinum** Ell. et Ev. Bull. Torr. Bot. Cl. 1897, p. 476. 4527
 — Sporodochiis compactis, subtuberculiformi-effusis subconfluentibusque, rubescenti-aurantiacis, mycelio albo; sporophoris erectis ramosissimis, ramis erectis; conidiis terminalibus, fusoidis, leniter curvulis, continuis v. subtiliter 1-3-septatis, nucleatis, 35-45 \approx 2 $\frac{1}{2}$ -3.
Hab. in spicis putridis *Triticæ*, W. Virginia Amer. bor. (NUTTALL).
28. **Fusarium equisetiolum** Allesch. Hedw. 1895, p. 289. — Sporodochiis minutis, plerumque rotundatis, dein effusis et confluentibus, roseo-albidis, farinaceo-floccosis; conidiis fusiformibus, curvatis, utrinque acutis, 5-6-septatis, dein ad septa constrictis, ca. 50-80 \approx 5-6, hyalinis.
Hab. in caulibus exsiccatis *Equiseti limosi* in Bavaria.
29. **Fusarium longissimum** Sacc. et Syd. *Fusarium elongatum* De 4529
 Wild. Ann. Soc. belg. Micr. 1893, p. 40 tab. V, nec Cke. — Sporodochiis ignotis; hyphis circiter 3 μ . crassis, brevibus, ramosis, pallide flaviscentibus, apice conidia gerentibus; conidiis hyalinis, falcatis, interdum spiraliter curvatis, 5-10-septatis, longissimis, 100-400 \approx 3-7, utrinque attenuatis.
Hab. in aqua intra algarum filamenta et plantarum fragmenta in Belgio.
30. **Fusarium Allescheri** Sacc. et Syd. Sic dicendum est *Fusarium glandicolum* Allesch. in Syll. XI, p. 650, quum exstet anterieus *F. glandicolum* Cke et Ger. in Syll. IV, p. 724.
31. **Fusarium Saccardæanum** Syd. Syll. XIII, p. 1130. Sic dicendum est *Fusarium Peckii* Sacc. in Syll. X, p. 727, quum exstet anterieus *F. Peckii* Sacc. in Syll. IV, p. 713.
32. **Fusarium pucciniophilum** Sacc. et Syd. Sic dicendum est *Fusarium parasiticum* Ell. et Kell. in Syll. X, p. 728, quum exstet *F. parasiticum* Westd. in Syll. IV, p. 718.

Ser. 2. Tuberculariæ dematiæ Sacc.

Sect. 1. Amerosporæ.

EPICOCIMUM Link — Syll. IV, p. 736, X, p. 732, XI, p. 654.

1. **Epicoccum intermedium** Allesch. Ber. Bayr. Bot. Ges. IV, 1896, 4530 p. 39. — Maculis nullis; sporodochiis minutis, dense confertis, seriatis in striis caulinis dispositis, nigris; conidiis globosis v. subglobosis, reticulatis, verrucosis, magnitudine valde varia, ca. 7-24 μ . diam., fusco-nigris; pedicellis brevibus, albidis.

Hab. in caulibus emortuis Equiseti variegati pr. München Bavariæ.

2. **Epicoccum Equiseti-limosi** Allesch. Ber. Bayr. Bot. Ges. V, 1897, 4531 p. 22. — Sporodochiis minutis, gregariis, in striis caulinis dense stipate dispositis, atro-sanguineis; conidiis globosis, subindistincte reticulatis v. verrucosis, magnitudine varia, atro-sanguineis, circiter 7-14 μ . diam.

Hab. ad caules exsiccatos Equiseti limosi in Bavaria super.

MYROTHECIUM Tode — Syll. IV, p. 750, X, p. 737, XI, p. 655.

1. **Myrothecium cinereum** Pass. in Journ. hist. nat. Bord. Ser. III, 4532 p. 136 (1885), nec Cooke Grav. XX, p. 113 (1892) et Syll. XI, p. 656. — Sporodochio pezizæformi, cinereo, margine tenui elevato pallidiore cincto; conidiis globosis, hyalinis, 2,5-3 μ . diam., basidiis filiformibus sordidulis suffultis.

Hab. in foliis Vineæ majoris, Saintes Galliæ (P. BRUNAUD).

2. **Myrothecium Cookei** Sacc. et Syd. Ita nominandum *M. cinereum* Cooke nec Passerini. Cfr. supra.

STRUMELLA Fr. — Syll. IV, p. 742, X, p. 733, XI, p. 655.

1. **Strumella Vitis** Mc Alp. Addit. Fungi Vine Austr. 1898, p. 33. 4533 — Erumpens, tuberculiformis, nigra, conferta, 1-2 mm. diam.; hyphis sterilibus ropentibus, septatis, hyalinis, 2-4 μ . cr.; fertilibus dense fasciculatis, erectis, septatis, deorsum hyalinis, apicem versus flavido-brunneis, 4,5 μ . cr.; conidiis oblongo-ellipsoideis utrinque rotundatis, pallide olivaceis, coacervatis atro-brunneis, 6-16 \times 4-5.

Hab. in baccis maturis Vitis viniferæ, Ardmona Australiæ (ROBINSON).

CHÆTOSTROMA Corda — Syll. IV, p. 749, X, p. 736, XI, p. 655.

1. **Chætostroma Cliviæ** Oud. Konink. Akad. Wetensch. Amsterdam 4534
1897, p. 226. — Sporodochiis innatis, in maculis foliorum flavis, valde extensis, polymorphis, primitus juxta margines, absque ordine distributis, parvis, $\frac{1}{5}$ - $\frac{1}{2}$ \approx $\frac{1}{4}$ - $\frac{1}{3}$, nigris, lucidis, orbicularibus, ellipticis v. difformibus, tandem poro centrali vel fissura longitudinali hiantibus; scutello nigro epidermoidali, operculi locum tenente, vulgo persistente, remoto, circulus conspicuus fit setularum rigidarum, immo basi et apice coloris expertium, parte media vero nigricantium et luci imperviarum, septatarum, tunica crassa præditarum, partim nodulosarum, partim flexuosarum, longitudine circiter 210 μ ., latitudine, 5 μ . æquantium; hæ circumdant complexum hypharum articularum, inferne pallidarum, arctissime juxta longitudinem cohærentium, superne vero libere prominentium; earum articulus superus anguste clavatus, basidii ad instar conidium cylindricum, bacillare, hyalinum, utrinque rotundatum, protoplasmate subtilissime granuloso repletum et vacuolis fætum, longitudine 23-28 μ ., crassitudine 5-7 μ . æquans gerit.

Hab. in foliis Cliviæ nobilis in Hollandia.

2. **Chætostroma ? saccharicolum** Sacc. et Syd., *Chætostroma Sac-* 4535
chari Speg. Rev. Agr. y Veter. La Plata 1896, p. 255, nec Mass. — Sporodochiis sparsis v. solitariis, atris, versiformibus, sessilibus, margine ciliatis, ciliis breviusculis, 50-70 \approx 3-5, continuis fuliginosis apice pallidioribus, levibus, curvulis, nunnulis conspicue majoribus, patulis, inferne fuligineo-opacis, superne hyalinis immixtis cinctis; sterigmatibus cylindræis breviusculis 20-30 \approx 3, e chlorino olivaceis continuis dense constipatis; conidiis acrogenis catenulatis, fusiformibus, utrinque acutis, 7-12 \approx 3-5, minute biguttulatis olivaceis levibus.

Hab. in foliis vaginisque putrescentibus Sacchari officinarum, prov. Tucuman et La Plata, Argentina.

TRICHOSTROMA Corda — Syll. IV, p. 752, X, p. 737.

1. **Trichostroma aterrimum** Karst. Hedw. 1896, p. 48. — Sporodo- 4536
chiis confertissimis, sæpe confluentibus, maculas efformantibus, verruciformibus, atris, 40-70 μ . latis; setulis strictis rarius curvatis atque rigidis, pauciseptatis, apicem versus attenuatis, olivaceis v. olivaceo-atris, usque ad 70 μ . longis; conidiis fusoides-elongatis, curvatis, pluriguttulatis, hyalinis, 13-17 \approx 3-4.

Hab. ad folia Agaves languidæ in Mustiala Fennicæ.

*Sect. 2. Phragmosporæ.***TRIMMATOSTROMA** Corda — Syll. IV, p. 757.

1. **Trimmatostroma amentorum** Bres. et Sacc. Malpighia XI, 1897, 4537
p. 324. — Acervulis seu sporodochiis gregariis, subsuperficialibus, globoso-depressis, inæqualibus, aterrimis, rugoso-rimosis, duriusculis, 200-300 μ .; conidiis e basidio brevi cylindræo pellucido catenatis, fusoidæo-oblongis, 3-5-septatis non constrictis, raro 2-7-septatis, rarissime septo uno longitudinali, 18-20 \times 6-7, rarius 25-27 \times 8-9, fuliginæis.

Hab. in amentis femineis Alni incanæ, Riva-Valdobbia, Italia boreal. (CARESTIA).

AMALLOSPORA Penz. Malpighia 1897, p. 461 (Etym. *amalla* manipulus et *spora*). — Sporodochia verruciformia v. tuberculata, sessilia, mucilaginosæ, hyphis radiantibus, subsimplicibus, tenuibus, mucro obvolutis; conidia in hypharum apice solitaria, primum simplicia, dein transverse pluriseptata ac proliferatione laterali aucta, maturitate in manipulos quosdam conjuncta, incoloria.

1. **Amallospora Dacrydion** Penz. l. c. tab. X. — Sporodochiis superficialibus, gregariis, sæpe seriatis, ligno putrido v. arborum cortice insidentibus, minutulis, 1 mm. diam., albidis v. semitransparentibus, tremelloideis; hyphis tenuissimis, subsimplicibus v. parce ramosis, continuis v. obsolete septatis, 1-1 $\frac{1}{2}$ μ . diam., mucro immersis; conidiorum manipulis terminalibus, cito deciduis, ex 5-6 conidiis constructis; conidiis fusoidæis, rectis curvulisve, 4-5-septatis, utrinque attenuatis, 50-75 \times 5-5 $\frac{1}{2}$, puncto laterali submediano vicissim conjunctis.

Hab. in ligno denudato putrido, in cortice arborum in ins. Java.

*Sect. 3. Dictyosporæ.***SPEGAZZINIA** Sacc. — Syll. IV, p. 758, X, p. 739.

1. **Spegazzinia trichophila** Atk. Bull. Cornell Univ. III, n. 1, 1897, 4539
p. 49. — Sporodochiis indistinctis, mycelio repente; hyphis fertilibus brevibus, gracilibus, erectis, 20-25 \times 3, hyalinis, apice conidium expansum cuboideum gerentibus; conidiis plus minus quadratis,

brunneis, e cellulis quatuor echinulatis constructis ideoque lobatis, valde constrictis, 15-20 μ . diam.

Hab. in foliis Rubi villosi, Auburn, Alabama Amer bor.

2. **Spegazzinia Ammophilæ** E. Rostr. Botan. Tidskr. XX, 1896, p. 136. 4540

--- Stromatibus gregariis, convexis, nigris, 45-80 μ . diam.; conidiis sessilibus, variis, fuscis, 18-26 \times 8-16, 1-3-septatis vel ad modum *sarcinæ* 4-6-cellularibus.

Hab. in foliis emortuis *Psammæ arenariæ* in Jutlandia.

3. **Spegazzinia tucumanensis** Speg. Rev. Agr. y Veter. La Plata 1896, 4541

p. 256. — Sporodochiis superficialibus sparsis v. laxè gregariis, hemisphæricis, 0,5-1,5 mm. diam., atris subpulverulento-compactiusculis, hyphis e basi centrali communi radiantibus filiformibus, 120-150 \times 2-4, levibus, continuis, subopacis, apice sporophora tabulari-4-cellularia, atra, opaca horizontalia, 28 μ . diam. \times 12 μ . crass., gerentibus; conidiis e sporophoris per sterigmata brevissima minuta concoloria, subpellucida, obtusa, 4 \times 1, oriundis sarciniformi-quadricellularibus ad septa constrictis, 14-16 \times 7-10, fuligineis, levibus, atris, subopacis.

Hab. in foliis vaginisque putrescentibus Sacchari officinarum, prov. Tucuman, Argentina

APPENDIX

CONTINENS NONNULLAS SPECIES OMISSAS V. NOVAS

1. **Lepiota exannulata** Otth Bern. Mittheil. 1870, p. 89 (*Agaricus*). 4542

— Pileo convexo, obtuso, sicco, levi et glabro, albido, disco flavicante, marginem versus valde attenuato; lamellis albis, subconfertis, postice latioribus, rotundato-liberis nec remotis; stipite tereti, farcto, albo, adpresse umbrino-squamuloso, sub apice nudo, basi obtusissimo, subincurvo, carne alba.

Hab. in graminosis prope Bern, Helvetia. — Annuli proprii nullum vestigium; pileus 40-45 mm. lat; lamellæ 5 mm lat.; stipes 50 mm. long., 8 mm. crass.; odor solitus Lepiotarum.

2. **Clitocybe umbrina** Otth Bern. Mittheil. 1870, p. 89 (*Agaricus*). — 4543

Pileo carnoso-attenuato, expanso, sicco, levi, umbrino, disco late gibbo, obscuriore; margine subtiliter tomentoso; lamellis lacteis, confertis, nonnullis postice furcatis, adnato-decurrentibus et in stipitis apicem striæformi-productis; stipite solido subcartilagineo-corticato e basi bulbosa attenuato, tereti, umbrino, apice dilatato in pileum transeunte, a medio sursum squamulis tomentoso-granulosis obscurioribus dense obsito et sub apice abrupte denudato.

Hab. in arenosis ad Sulgbrücke pr. Bernam Helvetiæ. — Caro pilei et stipitis pallida; bulbus intus extusque albidus. Pileus 6 cm. lat., lamellæ 3 mm. lat.; stipes 7 cm. long., 6 mm. cr., bulbus 15 mm. cr.

3. **Pleurotus Fraxini** Otth Bern. Mittheil. 1870, p. 90 (*Agaricus*). — 4544

Pileo valde excentrico, elongato, convexo, albido, villo brunneolo versus discum depressum densiore et crispulo vestito; carne alba, molli, a disco sat crasso ad marginem sensim attenuata; lamellis albidis, latis, hand confertis, in stipitem nonnihil decurrentibus; stipite compacto, brevi, glabro, brunneolo, fere horizontali.

Hab. in trunco vetusto Fraxini pr. Bernam Helvetiæ. — Pi-

leus hinc 8,5, illinc 4,5 cm. metiens; lamellæ 10 mm. latæ; stipes 2 cm. long., diametro paullo longior.

4. **Pleurotus Tiliæ** Otth Bern. Mittheil. 1870, p. 90 (*Agaricus*). — 4515
 Pileo albo, tenerrimo, membranaceo, levi, glabro, convexo, margi-
 nello involuto, omnino sessili, vertice adnato, centrali, excentrico
 v. laterali, hinc ambitu modo circulari, modo reniformi; hymenio
 infero; lamellis pallidis, leniter ventricosi, postice latoribus, in-
 termixtis brevioribus, subconfertis, e loco plus minus centrali aut
 laterali radiantibus.

Hab. in trunco cavo Tiliæ, Bernæ Helvetiæ. — Pileus 10-14
 mm. circ. latus; lamellæ 2 mm. latæ.

5. **Pholiota subconica** Otth Bern. Mittheil. 1870, p. 91 (*Agaricus*). 4516
 — Pileo carnosulo argillaceo, nudo, levi et glabro, semiexpanso,
 subconico, disco obtusato, margine primum involuto, dein patente;
 carne alba, sub cute et sub hymenio hygrophana et fuscidula; la-
 mellis albidis, subconfertis, postice latoribus, non emarginatis, di-
 latato-adnatis et striæformi-decurrentibus; stipite argillaceo-albide,
 tereti, flexuoso, striato, fistuloso, basi obtusissima et infuscata; an-
 nulo lato, membranaceo, albo; sporis umbrinis.

Hab. in graminosis ad vias Steffisburg, Helvetia. — Pileus 5,5
 cm. lat.; stipes 9 cm. long., 7 mm. crass.; lamellæ 5 mm. lat.

6. **Agaricus** (*Pholiota?*) **herbarum** Terracc. Peregr. bot. Terra di La- 4517
 voro I, 1872, p. 228. — Solitarius, pileo albo-argenteo, nitido,
 glabro, convexo, demum planiusculo æ breviter umbonato; lamel-
 lis margine, ope lentis, tenuissime crenulatis, adhaerentibus, albidis
 dein coffeicoloribus; stipite longo, cylindrico, fibroso, fistuloso,
 pileo concolori.

Hab. ad radices graminum in Viridario regio, Casertæ. — Odor
 et sapor dulces. «Est forte *Pholiota præcox*, annulo jam delapso».

7. **Agaricus** (*Pholiota?*) **Tulipiferae** Terracc. l. c. p. 229. — 4518
 Cespitosus, pileo convexo deinde convexo-explanato, glabro, pellucido-
 punctato, albedo; lamellis confertis, albidis dein coffeicoloribus, ad-
 haerentibus retusisve, tenuissime dentatis; stipite subcylindrico, al-
 bido, pubescenti-fibrilloso, fistuloso, basi subfloccoso.

Hab. ad radices Liriodendri Tulipiferae in Viridario re-
 gio Casertæ. — Odor et sapor grati, quasi *Ag. Egeritæ*. — Est
 forte *Phol. pudica*, annulo præterviso.

8. **Hebeloma horticultum** Otth Bern. Mittheil. 1870, p. 91 (*Agaricus*). 4519
 — Pileo e disco carnosulo attenuato, expanso, umbonato, levi, sicco,
 spadiceo aut badio, marginem versus pallescente et diu veli vesti-

gia fibrillosa retinente; margine primum subinvoluta araneoso, dein inflexo; lamellis sordide carnis, dein cinnamomeis, vix confertis, postice rotundato-adnexis, passim cum denticulo minutissimo, acie serrulata, primitus albida; stipite tereti, basi vix incrassato, tenacello, extus laxe fibrilloso, sursum albedo-pruinoso, deorsum infuscato, fistuloso cum pilei substantia in tubulum descendenti; pilei carne albida, sub cute brunneola.

Hab. in terra hortorum, prope Bern, Helvetia. — Pileus 6 cm. lat.; lamellæ 6 mm. lat.; stipes 6-7 cm. long., 6-7 mm. cr.

9. **Naucoria** (Phæotæ) **Fiorii** D. Sacc. Malpighia 1898, p. 221, t. VII, 4550 fig. 1, Myc. Ital. n. 207. — Pileo tenui, carnosulo, convexo, conoideo, glabro, cinnamomeo-rufescente, diam. 3-4 cm.; stipite cylindrico, glabrescente, pallide ochraceo-rufo, 4-5 cm. long., 1,5-2 mm. cr., subcavo, non medullato, deorsum in radicem cylindricam, simplicem, crassiusculam, tenuissime velutinam, albidam, 3-5 cm. long., 0,5 cr., producto; lamellis subconfertis, angustis, sinuatis, cinnamomeis; basidiis oblongis, 16-20 × 6-8, sterigmatibus binis (an et quaternis) acicularibus; sporis ellipsoideis, utrinque plus minusve rotundatis vel arcuatis, 15 × 9-10, pallide cinnamomeis.

Hab. in sabulosis juxta flumen Secchia, prope Magreta (Modena) Sept. 1897 (Prof. HADR. FIORI). A *N. arvali* Fr. differt pileis potius conoideis, radice multo longiore et simplici; lamellis angustioribus; sporis multo majoribus, nec 9 × 5. A *N. reducta* Fr. differt pileo latiore, conoideo, radice longiore, sporis majoribus, nec 10 μ . Habitu exacte refert quoque *N. pediadem* Fr., sed radice prælonga et sporis majoribus omnino recedit. A *Galera tenera*, quæcum assimilat cl. Bresadola, differt statura et radice multo longiore, pileo magis expanso etc.

10. **Paxillus** **Brondei** Laterrade Act. Acad. Bord. 1854, 2 tab. color. 4551 — Affinis *P. atro-tomentoso*, a quo differt præcipue sporis ferrugineis, nec pallide argillaceis, tomento stipitis rufo-brunneo nec violaceo-brunneo et fere strigoso-spongioso.

Hab. ad truncos Pinuum pr. Bordeaux Gallia.

11. **Bolbitius albipes** Otth Bern. Mittheil. 1870, p. 92. — Pilco, disco 4552 excepto, membranaceo, e conico campanulato semiexpanso, convexo, sicco, glabro, læte flavido ochraceo, usque ad discum sulcato-striato et passim fisso; lamellis albidis vel parum et sordide flavescensibus, postice latoribus, rotundato subliberis, confertis, basidiis lacteis, nudo oculo conspicuis, obsitis; stipite tenui, recto, albo, glabro, fistuloso.

Hab. in pascuis prope Bern, Helvetia. — Pileus 3-4 cm. lat.; lamellæ 4 mm. lat.; stipes 10 cm. long., apice 3 mm. cr., basi 5 mm. cr.

12. **Polyporus** (Lenti) **erythroporus** Otth, Bern. Mittheil. 1868, p. 98. 4553
— Effuso-reflexus, 3 cm. long., floccoso-tomentosus, multiplex, albidus, hymenio carneo, carne alba, poris minutis brevissimis, subangulatis, ore albidis, contextu albo, floccoso-molli, exsucco, in parte effusa valde extenuato.

Hab. in truncis corticatis et decorticatis fagineis prope Bern, Helvetia.

13. **Polyporus nidulans** Fr. Syst. Myc. I, p. 362, Hym. Eur. p. 548. 4554
Ita dicendus est *Polyporus niceus* Fr. — Syll. VI, p. 118 — qui o mero lapsu calami sic inscriptus fuit.

14. **Trametes malicola** B. et Cort. Comm. on Schweintz's Syn. fung. 4555
p. 209, *Polyporus populinus* Schwein. Syn. n. 366, nec Fr. — Imbricata, lignea; pileis dimidiatis, postice decurrentibus, subvillosis, subzonatis, ligneo-umbrinis; poris mediis dissepimentis, crassis, subtomentosis.

Hab. in truncis Piri Mali in Amer. bor.

15. **Hydnum Hippocastani** Terracc. Peregr. bot. Terra di Lavoro, Ca- 4556
serta 1872, I, p. 233. — Cæspitosum v. solitarium, membranaceo-suberosum: pileo dimidiato, subcónico, albido-luteolo, obscuro v. cinereo ac pubescenti-hirsuto, obsolete zonato, margine glabro, undulato-lobato, subtus fulvo-luteolo; aculeis inæqualibus, acutis obtusisve.

Hab. ad truncum *Æsculi Hippocastani* submortuum, in Viridario regio Casertæ. Ex icone a cl. auctore benevole communicata videtur affine *H. pudorino* v. *H. hirtio*.

16. **Sistotrema Notarisii** Terracc. Peregr. bot. Terra di Lavoro, Ca- 4557
serta 1872, I, p. 234. — Imbricatum, suberoso-carnosum; candidum, demum albo-roseum; pileo dimidiato, 2-3 polli. lat., subtomentoso. plano, v. margine undulato-crispo et fere crenato; dentibus lamellosis, confertis, lamellulis liberis varie plicato-annulatis, integris; sporis (ex icone ms.) globoso-ellipsoideis, diaphanis, intus granulosis.

Hab. ad truncum *Populi marilandicæ* in Viridario regio Casertæ. « An affinis *Polyporo bienni?* ».

17. **Sistotrema Strobi** Terracc. Peregr. bot. Terra di Lavoro I, Ca- 4558
serta 1872, p. 234. — Solitarium, carnosum-suberosum; pileo amplo subdimidiato, castaneo-rufo obscuro, zonato, tomentoso-hispido, mar-

gine integro v. crenato-lobato et sæpe inciso, hymenio pulcre rubro-cinnamomeo, lamelloso; lamellulis interruptis, varie gyrosis, decurrentibus; stipite brevi subcylindrico.

Hab. ad radices vivas Pini Strobi in Viridario regio Casertæ.

18. *Acanthostigma crastophilum* Sacc. et Fautr. sp. n. — Peritheciis 4559
sparsis, superficialibus, atris, globoso-depressis, 240-300 μ . diam., membranaceis, setis rigidulis, rectiusculis, divergentibus, prælongis, septatis, brunneis, sursum pallidioribus, 200-400 \times 10-12, vestitis; ascis clavatis, breve obtuseque stipitatis, 56-60 \times 11-14, paraphysibus tenuissimis et forte spuris obvallatis; sporidiis oblique monostichis v. subdistichis, fuscoideis, curvulis, utrinque obtusulis, 6-9-guttulatis, non constrictis, hyalinis, 22-26 \times 4-5.

Hab. in utraque pagina foliorum emortuorum Caricis glaucæ in silvis Côte-d'Or Galliæ. — Affine *Ac. minuto* var. *brachy-sporo* et *Ac. pygmaeo*, sed recedit setis longissimis, rigidis et sporidiorum ascorumque proportione.

19. *Trichopeziza hamata* Sacc. sp. n. — Gregaria, superficialis, exi- 4560
gua, obconica, profunde concava, jugiter aperta, sessilis v. subsessilis, 300-350 μ . alta, 200 μ . lata, tenuiter membranacea, tota albo-flavida, extus, præcipue margine pilis exquisite hamatis, acutiusculis, continuis, hyalinis, 60-80 \times 3, vestita; ascis clavato-fuscoideis, 40 \times 5-6, apice obtusiusculis, deorsum breve tenuato-stipitatis, paraphysibus filiformibus, paullo longioribus obvallatis, octosporis; sporidiis distichis, oblongo-clavulatis, 5,5-6,5 \times 2, hyalinis.

Hab. in ligno putrescenti populino, sociâ *Tapesiâ fusco-umbrinâ*, Côte d'Or Galliæ, hieme 1899 (FAUTREY). Pilis uncinatis, ad marginem creberrimis, mox dignoscenda species.

20. *Phyllosticta chlorospila* Sacc. et F. sp. n. — Maculis amphige- 4560*
nis, subcircularibus, diu virentibus; peritheciis epiphyllis, 45-50 μ . diam., brunneis, pertusis; sporulis allantoideis, 6-7 \times 0,5, hyalinis.

Hab. in foliis aridis cæris campestris, Côte-d'Or Galliæ.

21. *Sirodesmium ramosum* Sacc. sp. nov. — Effusum, superficiale, 4561
aterrimum, sub vitro nitidulum; conidiis e sporophoro brevi tereiusculo angusto, 3-5-septato, pallide brunneo oriundis, in catenulas assurgentes. 150-200 μ . l., varie ramosas digestis, ovato-oblongis, 28-35 \times 14, pluri-septato-muriformibus, nigricantibus, fore impellucidis, non constrictis, levibus, apicalibus brevioribus, subglobulosis.

Hab. in cortice adhuc vivo Lonicæræ Xylostei, Côte-d'Or Galliæ, hieme 1899 (FAUTREY). — A *S. granuloso* conidiis levibus et catenulis ramosis mox distinguitur.

MYCELIA STERILIA.

Ex myceliis quiescentibus seu sterilibus, quæ jamdiu tanquam species propriæ seu autonomæ descripta sunt, quæ vero ut hybernacula sunt habenda, non pauca, in statum fructificantem bene evoluta, nostris diebus illustrata sunt et quidem aliquoties ope culturæ arte factæ. Ita *Pistillariæ*, *Typiulæ*, *Clavariarum*, *Agaricacearum*, *Sclerotiniae* etc. species non paucae ortæ sunt. Restant tamen plurimæ formæ hucusque persistenter steriles observatæ, quarum expositio synoptica non inutilis videtur, tum quia reapse representent incubabunda specierum distinguendarum, tum quia de iis mycobiologi et phytopathologi merito libenter inquirent et tum denique quia non pauci errores corrigendi sunt ex eo quod complures diversissimi ordinis species ex eadem ipsa Sclerotii v. similium specie provenire sæpe affirmetur, quod nonnisi fallaci determinatjone factum est; revera incredibile est ex eodem mycelio oriri posse, exempli gratia, *Pistillariæ* et *Sclerotiniae* species, ut frequenter relatum fuit. Myceliorum studium culturis peractum quam maxime exoptandum! ¹⁾

Conspectus generum.

I. TUBERCULIFORMIA.

Sclerotium. Tubercula subarrhiza, cortice non discreto.

Acinula. Tubercula subarrhiza, cortice discreto subfarinaceo.

Rhizoctonia. Tubercula minuta v. varia conerescentia, bysso copiosâ fibrisque connexa.

II. MACULIFORMIA.

Ectostroma. Plagulæ stromaticæ nigræ in foliis et caulibus.

¹⁾ De genesi et genitura *Sclerotiorum*, *Rhizomorpha*, *Ozonii* et similium myceliorum conferenda potissimum opera: TULASNE, *Carpologia* vol. I (1861) Prolegomena; BERKELEY, *Hybernation of fungi*, London 1862 (Intell. Observ.); PENZIG, *Rapp. fra Ozonium e Coprinus*, Fir. 1880; BREFFELD *Mykol. Untersuchungen*, passim; DE BARY, *Vergleich. Morphol. und Biol. der Pilze*, Leipz. 1884, ubi, p. 45, exhibetur plena bibliographia argumenti; WORONIN, *Die Sclerotienkrank.* etc. 1888, 1895; ROTHERT, *Ueber Sclerotium hydrophilum* Sacc. (*Bot. Zeit.* 1892).

III. RADICIFORMIA.

Rhizomorpha. Filamenta rigida, crassiuscula, teretia v. depressa, fusca v. nigra intus stippea albida.

Capillaria. Filamenta, rigidula, capilliformia, atra, arete adhærentia.

IV. CLAVARIFORMIA.

Anthina. Filamenta teretiuscula, verticalia, simplicia v. ramosa.

V. BYSSIFORMIA.

Ozonium. Cæspitoso-intertextum, hyphæ primariæ in fasciculos junctæ.

Rhacodium. Cæspitoso-intertextum, molle, hyphæ non fasciculatæ, (atrum).

Hypha. Flocciformis, mollis, passim fugax, alba v. pallens.

Himantia. Repens, subdendritica, adpressa, alba v. pallida v. umbrina, membranam continuam non formans.

VI. MEMBRANIFORMIA.

Xylostroma. Dense intertextum, membranam continuam subsuberosam v. coriaceam efficiens.

APPENDIX.

Phleacois. Cellulæ plantarum (zonæ suberosæ) secedentes, deformatæ, versicolores.

Cfr. quoque: *Mylitta* Fr., Syll. VIII, p. 907, *Pachyma* Fr., Syll. VIII, p. 908, *Illosporium* et *Periola* p. p., Syll. IV, p. 656 et 681; *Asteroma* p. p. Syll. III, p. 201.

SCLEROTIUM Tode, Meckl. I. p. 2, Fr. S. M. II, p. 246; *Coccoleum* Ehrenb. silv. Myc. Ber. p. 27; *Spermædia* Fr. l. c. p. 268 (Etym. *scleros* durus). — Stroma (hybernaculum) subrotundum, varium, cartilagineo-carnosum, plerumque arrhizum et glabrum, raro subiculo villosa insertum, intus simile, cortice tenuissimo membranaceo inseparabili persistente, in siccis subrugosum; ostium nullum. — Dividitur e vegetatione plus minus evoluta in tribus sequentes, tamen species plurimæ vage et imperfecte definite ab una ad alteram tribum sensim abeunt; præterea verisimiliter species non paucae nil sunt nisi formæ v. varietates: I. Libera; undique demum libera, modo adhærentia. II. Erumpentia; primo inclusa, dein erumpentia liberata. III. Adnata; superficialia, nuda, basi adnata.

Trib. I. LIBERA.

Undique demum libera, basi tantum hærentia.

1. **Sclerotium complanatum** Tod. Meekl. I, p. 5, t. I, f. 9, Fr. S. M. 4562
 II, p. 248 Pers. syn. p. 121. Reb. Neom. p. 361. A. S. p. 74. DC.
 Mem. Mus. II, p. 413. Nees Syst. f. 140. — Erectum, substipitatum, obovatum, compressum, ex albido fuscæscens, intus album; primo molle lacteum, dein induratum, flavidum, siccum fuscæscens. Primo teretiusculum, dein compressum obovatum v. obcordatum, rugulosum.

Hab. ad folia, stipulas deciduas etc. frequentissime in Suecia, Germania, Gallia, Italia etc., rarius in America, hieme, vere. — Ex hac *Sclerotii* forma tam *Clavaria juncea* quam *Pistillariæ* spec. enasci posse dicitur; quod non verisimile.

2. **Sclerotium mirabile** Speg. F. Arg. IV (1882) p. 135. — Globo- 4563
 sum v. hemisphæricum, parvulum, 0,5-1 mm. diam., glabrum v. pruinulosum, albo-roseum, mycelio minutissimo, hymantioideo, sæpius ægre visibiluinsidente; cute membranaceo-carnosula, contextu minutissime ac subimperspicue parenchymatico, fulvella; nucleo albo. e cellulis sphæricis, 20-22 μ . diam., levissimis, hyalinis, tunica crassissima inferne foro rotundo donatis, protoplasmate granuloso, sæpius e foro caudatum ob humiditatem exsiliente, tubum granuli pollinici simulante, faretis, hyalinis composito.

Hab. ad ramenta putrida inter folia coacervata, Bañado San José de Flores Argentinae.

3. **Sclerotium toctum** Fries Obs. I, p. 204. S. M. II. p. 251, Fl. II, p. 41. 4564
 — Tectum, magnum, applanatum, difforme, nudum, nigrum, intus albidum.

Hab. ad caules et radices Dauci, Portulacæ, Brassicæ etc. in Suecia, Germania, raro, primo vere. — Singularis species, libera sed epidermide herbarum oblecta, 6-12 mm. longa et lata. Cum *Scl. dura* adest affinitas; tamen habitu cum *S. vaporario* magis convenit.

4. **Sclerotium Lathyris** Moug. ap. Fr. Elench. II, p. 42. — Puncti- 4565
 forme, minimum, globulare, nigrum, intus concolor, e subiculo villose griseo emergens, liberatum.

Hab. in caulibus emortuis Euphorbiæ Lathyris in Gallia (Mougeot). — Plantula singularis, habitu Perisporii, at in sicco accuratissimum examen ob minutiem difficile; intus omnino so-

lidum, simile, absque ostioli vestigio. Nudo oculo puncta conferta refert subtilia, armato globulos minutos fere liberos. Subiculum crustaceum quasi e fibrillis caulis solutis apparet.

5. **Sclerotium hydrophilum** Sacc. ap. Rothert Ueb. *Sclerotium hydroph.* 4566
Leipzig. 1892 (Bot. Zeit.). — Tuberculis globosis, atris, 0,3-0,7 mm. diam., magnitudine sat constanti, intus candidis, laxiusculis, ex hyphis natantibus generatis.

Hab. in caulibus, quos vexat v. necat, Myriophylli et Hydrocharidis in horto bot. Strasbourg et Kazan, ubi legit el. ROTHERT, qui inde coluit in compluribus aliis plantis. — Ex his hyphæ tenues septatæ varie ramosæ oriuntur, quæ aquæ superficiem assecutæ, sclerotia copiosissima generant.

6. **Sclerotium Oxyriæ** Rostr. F. Groenl. p. 579. — Initio lutescens, 4567
demum atro-brunneum, naviculare v. irregulare, cortice gyroso-lineato.

Hab. in caulibus emortuis Oxyriæ digynæ et Archangelicæ in Groenlandia.

7. **Sclerotium rufum** Rostr. Fung. Groenl. p. 579. — Subellipticum, 4568
2-3 mm. long., lateritium demum atro-rubrum.

Hab. in caulibus emortuis Archangelicæ officinalis et Ranunculi aeris in Groenlandia.

8. **Sclerotium Solani** P. Brun. in Rev. Mycol. 1886, p. 206. — Sub- 4569
globosum v. oblongum, sparsum, passim confluens, leve nitidulum, brunneum v. brunneo-nigrum, $\frac{1}{2}$ -1 mm. diam., intus quoque nigrum.

Hab. in caulibus siccis Solani tuberosi, hieme. Saintes Galliæ.

9. **Sclerotium Rhipanthi** Magn. Verhandl. Bot. Ver. Brandenb. 1894, 4570
1 tab. — Tuberculis perexiguis, globoso-angulosis, brunneis, inter zonam generatricem et lignum evolutis, una cum hyphis propriis matricem necans et nigrificans.

Hab. in ima basi caulium Rhipanthorum pr. Magdeburg in Germania. — Teste Rehm, Disc. p. 1254, forte sistit stroma *Ephelina Rhipanthi* (Phill.) Sacc. = *Ephelina aggregata* (Lasch) Karst., *Scleroterris* Rehm, l. c.

10. **Sclerotium medullare** Schw. Syn. N. A. F. n. 2428. — Magnum, 4571
ad 2-3 cm. longitudinem nempe interdum protractum, sed sæpe multo minus, interruptum, cylindricum aut difformiter lobatum, pluribus invicem longitudinaliter arete adpressis, cortice externo fungi nigro, tuberculoso et ime sulcato-striato, intus albido-pallidum.

Hab. in cavitate medullari caulium, præsertim Phlogis undulatae, in hortis Bethlehem Amer. bor. — Crassitiem pennae anserinae attingit. Specimina quidem cylindrica, semper subcontorta et proximis articulatum quasi adpressa.

11. **Sclerotium Stapeliæ** Ces. in Rabenh. F. Eur. n. 1700, Hedw. 4572
1873, p. 153. — Radicans, mycelio himantioideo, diffuso insidens, funiculo byssoideo candido... (nec aliud l. c. legitur).

Hab. in Stapeliis, post pluvias continuas jun. 1868, in horto botanico Neapolitano.

12. **Sclerotium radicum** Tode l. c. p. 5, t. I, f. 8. Pers. syn. p. 122, 4573
Fr. S. M. II, p. 254. — Sparsum, ovatum, erectum, basi producta fibrilloso-radicatum, nigrum; substantia compacta, subsucculenta, in centro demum dehiscenti, diam. ferme 2-3 mm.

Hab. in solo humido umbroso, verisimiliter ad stipulas dejectas, in Germania sept. — Dubia species.

13. **Sclerotium excentricum** Fr. S. M. II, p. 248. — Horizontale, 4574
subsessile, depressum, tuberculoso-rugulosum, pallidum, fuscescens, uno angulo productum, omnino liberum, sparsum, vix 2-5 mm. latum, molle, nudo oculo leve, sub lente tuberculosum ut semina *Arenariæ trinervicæ*, ætate juniore modo lectum.

Hab. ad stipulas deciduas, rarissime in Suecia, auctumno.

14. **Sclerotium Semen** Tode, Fung. Meekl. I, p. 4, t. I, f. 6. Fr. S. 4575
M. II, p. 249. Pers. syn. p. 123, A. S. p. 75, Reb. Neom. p. 361, DC. l. c. p. 417, Nees Syst. f. 138. — Liberum, sphaericum, ex albido lutescens, spadiceum, demum corrugatum, nigrescens, intus album, plerumque exacte globosum, mobile, 2-4 mm. latum, primo album, mox fulvum, spadiceum, demum nigrum, rugoso-cavernosum, siccum valde durum.

Hab. frequens supra folia putrescentia, caules Dahliæ, Solani, Rubi, stipulas deciduas etc. in Suecia, Germania, Gallia, Italia, Belgio, Britannia etc., hieme, vere. Adsunt formæ in foliis Typhæ et in leguminibus Lathyri in Belgio (WESTENDORP). — ꝑ *Brassicæ* (Berg.) Fr. S. M. II, p. 249, *Tremella sphaerica* etc. Gled. Act. II, p. 346. *Lycop. Brassicæ* Berg. in Vet. Ac. Handl. 1766, n. 217, *Sphaeria Brassicæ* Bolt. t. 119, f. 2, Sowerb. t. 393, f. 3. Confertum, subimmersum, intus pallidum. Ad caules et folia Brassicæ, vere. A veteribus semper, a recentioribus sæpe cum *S. vario* confusum: plurima communia. Teste de Bary st. mycelialis *Typhulæ variabilis* (*T. lactea* Tul.?).

15. **Sclerotium vulgatum** Fr. Obs. I, p. 204, S. M. II, p. 249. — 4576

Liberum, globosum vel difforme, levissimum, flavum, intus album; non cum *Scl. Semine* commutandum, substantia enim firmior, forma *varia*, superficies nunquam non levis, color vix nigrescit, situs solitarius parvus.

Hab. in fimo aliisque quisquiliis putrescentibus, jove pluvio, in Suecia, Germania, Gallia, Italia. — β . **difforme** Fr. l. c. *Reniforme*, levissimum, corniculato-decumbens, sublobatum, subtestaceum, primo pallidum. In foliis Piri, Populi tremulae et Fraxini putridis, vere, in Suecia. — γ . **bryophilum** Fr. El. II. p. 40. Globulare, stramineo-albidum, leviusculum, intus concolor. *Vulgato* ceterum simile, sed ob locum peculiarem seorsim notari meretur; erumpit nempe e lana vestiente surculos Dicrani polyseti, Petropoli, auctumno (WEINMANN). — δ . **Fragariae** Weinm. Hym. Ross. p. 644. Gregarium v. sparsum, oblongum, lobatum, compressum, album, dein pallens, intus concolor. In foliis putridis Fragariae, Petropoli Rossiae.

16. **Sclerotium? anomalum** Duby, Bot. Gall. II. p. 874. — Rotundum ovatumve, decumbens, convexum, demum depressum, album intus, extus farinaceum, interdum temento densissimo intertexto obtectum. 4577

Hab. ad partem externam caulis Helianthi annui in Gallia (PROST). — Mm. 4-8 longum, passim confluens.

17. **Sclerotium Pneumonanthæ** Duby, Bot. Gall. II, p. 872. — Rotundum, lobatum aut difforme, supra convexum subtus concavum, nigrum, ruguloso-striatum, intus albidum, carneum. 4578

Hab. in parte inf. caulium Gentianæ Pneumonanthæ circa Mende Galliae (PROST). — Mm. 2-8 long.

18. **Sclerotium Cactorum** Speg. Guar. I, p. 176 (1883). — Globosum v. subturbatum, superne sæpius rotundatum, centro minute papillulatum, parvulum, 200-300 μ . diam., atrum, rugulosum, dense aggregatum, plagulas repando-orbiculares, majusculas, 5-10 mm. diam. v. confluendo difformes efficiens; cortice coriaceo-carbonaceo, contextu indistincto, pulpa alba, minute parenchymatica. 4579

Hab. ad ramos vetustos Opuntiarum et Cereorum in silvis Pirayú Paraguay (BALANSA).

19. **Sclerotium illosporoides** Speg. F. Arg. Pug. I, p. 192. — Amphigenum, laxè gregarium, cylindræo-subglobosum v. e latere compressum, sessile aut brevè stipitatum, roseum, sericeum, delicatum, subnitens. 4580

- Hab.* ad folia *Eryngii campestris* et *F. agavefolii* vulgatissimum in agro Bonariensi Argentinae. — Species pulchella.
20. *Sclerotium anthodiophilum* Rabenh. F. eur. n. 2461. — Inaequaliter globosum v. elongatum, atro-brunneum, passim fasciculatum, usque 3 mm. long. 4581
- Hab.* in capitulis emortuis *Asteris sinensis* in Germania.
21. *Sclerotium castaneum* Speg Fung. Arg. IV. pag. 135 (1882). 4582
— Globosum v. ovoideum 1,5-2 mm. diam., pulchre et intense castaneum, superficiale, glaberrimum, udum levissimum, siccum contractum, rugulosum, fuscescens, dense gregarium; cute tenui, nucleo adnata, parenchymatica, cellulis subglobosis. 10-15 μ . diam., fulgineo-castanea; nucleo albo compacto duriusculo, e cellulis subcylindraceis, brevibus, contortis, geniculatis, simplicibus v. breviter ramulosis, apicibus incrassatis, 10 μ . diam., dense et strigose intertexto.
- Hab.* ad partem inferiorem pericarpium putrescentis *Cucurbitae Peponis*, nec non ad terram ramentaque circumvicinia, in hortis, Boca del Riachuelo Argentinae. majo 1881.
22. *Sclerotium elongatum* Chev. Fl. par. I, p. 369, t. X, f. 7 — 4583
Subimmerso-liberum, primo globosum, album, demum nigricans, interdum elongatum, incurvum, superficie squarrosa nec rugosa, intus album, compactum.
- Hab.* ad radices coacervatas *Dauci Carotae*, jam putres, in Gallia Primum pisi magnitudine et forma, demum 8-10 mm. d.
23. *Sclerotium olivaceum* Fr. Elench. II, p. 40. — Liberum, globoso-inaequale, viridi-olivaceum, siccum subcollabescens scrobiculatum corrugatumque atrum, intus pallidius. 4584
- Hab.* in foliis coacervatis, praecipue *Alni*, juxta rivulos in silvis opacis, glacie et nivibus liquescentibus, abunde in agro Fensionensi. — *Scl. Semini* propinquum, at inter omnes affines species nobilissima et pulcherrima, recens molliuscula, *Tremellae* facie, etiam ob colorem atque plicas superne saepius prominentes. Color recens eleganter viridi-olivaceus, subpellucens, versus lucem vibrans, intus sordide olivaceo-virens pallidior; in siccis ater, opacus intusque magis exalbicans, forma subglobosa, sed inaequalis, plica una alterave insignita; sicca saepius collabens, umbilicata aut scrobiculata plicatavo, superficie insuper corrugata; *Scl. Semine* paulo majus, laxo adherens.
24. *Sclerotium glauco-albidum* Desm. XIX Not. (1851) pag. 34. — 4585
Tuberculis pulvinatis, hypophyllis, superficialibus, levibus, niti-

dulis, glauco-albidis, basi hyphis ramosis septulatis, fusco-fuliginis cinctis; nucleo albo e cellulis abnormibus, variis conflato.

Hab. in pagina inferiore foliorum emortuorum *Taxi baecatae* in Gallia bor. et Italia — Tubercula $\frac{1}{4}$ - $\frac{1}{2}$ mm. diam.

25. **Sclerotium umbilicatum** Lasch in Kl. Herb. mycol. n. 531, Bot. 4586
Zeit. 1844, p. 426. — Hypophyllum, subrotundum, leve, demum in sicco rugulosum, flavido-fuscum, nigrescens, subtus umbilicatum, intus album.

Hab. ad folia putrescentia *Quercus*, Driesen Germaniæ, auct. vere.

26. **Sclerotium Evonymi** Desm. Ann. Sc. Nat. 1841, XV, p. 134. — 4587
Amphigenium pusillum, sessile, orbiculare, convexum, fuscum, demum applanatum, nigrescens, siccum rugulosum, intus album.

Hab. ad folia putrescentia *Evonymi europæi* et *E. latifolii* in Gallia. — Satis differt a *S. Pustula* et *S. scutellato*.

27. **Sclerotium carneolum** Desm. Exs. III, n. 162, XX. Not. sp. 21. 4588
— Liberum, sparsum, minutissimum, leve, extus intusque carneolum, globosum, dein depressum, fibrillis albis radiatim expansis insidens.

Hab. in foliis siccis *Berberidis*, vere ad auctumn., in Gallia bor. — Vix superat $\frac{1}{5}$ - $\frac{1}{4}$ mm.

28. **Sclerotium Mori** Fuck. Symb. mycol. p. 405. — Gregarium, glo- 4589
bosum, leve, fuscum, minutissimum, superficiale.

Hab. in pagina inf. foliorum putridorum *Mori* albæ pr. *Hattenheim Rhanogoviæ*. — Æquat granula pulveris pyrii crassioris.

29. **Sclerotium orysiphoides** Speg. guar. I, p. 176 (1883). — Globo- 4590
sum, parvulum, 200-300 μ . diam., atrum, glabrum, leve, hypophyllum, tomento albo foliorum absconditum, sparsum; cortice crustaceo-coriaceo, contextu indistincto, atro; pulpa alba ex hyphis dense constipatis tortuoso-angulosis, hyalinis, hinc inde guttulis oleosis, hyalinis, immixtis composita.

Hab. ad folia *Myrtaceæ* cujusdam in silva *Caá-guazú* Paraguay (*BALANSA*). — Habitus *Phyllactinice*.

30. **Sclerotium cirinellum** Speg. Fungi Argent. 1899, p. 353. — Mi- 4591
nutissimum, globosum, primo endogenum, dein superficiale, flavidum, glabrum.

Hab. in foliis putrescentibus coacervatis *Eucalypti* *Globuli*. *La Plata*, Argentina. — Tubercula 100-150 μ . diam., sub pressione fragilia, parenchymatica.

31. **Sclerotium floccipendulum** Fr. S. M. II, p. 254. — Liberum, sub- 4592

ellipticum, leve, flavum, uno latere floccis albis levissime adhærens, parum difforme, subinde compressum, 2-5 mm. longum, intus concolor. Plura specimina non juncta.

Hab. supra folia decidua pinæ, raro ad ligna, primo vere in Germania, Belgio, Suecia.

32. **Sclerotium scutellatum** A. S. p. 74, t. 3, f. 6, Fr. S. M. II, p. 248, 4593
Nees Syst. f. 139, DC. l. c. p. 418. — Horizontale, substipitatum, orbiculare, depressum, fuscum, intus album; *Pezizam* primo aspectu assimilat, orbiculum exacte referens, planum v. subconcauum, 4-5 mm. latum, demum rugulosum, nigrescens; stipes e latere conspicuus.

Hab. ad folia Fraxini, Aceris, Populi Tremulæ etc. in Succia, Britannia, Gallia, Germania etc. vere. — Nascitur ex eo *Pistillarice* species

33. **Sclerotium pezizæforme** Schum. Saell. p. 186, Fr. S. M. II, p. 248. 4594
— Horizontale, sessile, orbiculare, plano-depressum, virescenti-album, intus concolor, subtus convexum, leve, supra patellatum margine obtuso, *Pezizæ* instar, 2 mm. latum; substantia duriuscula.

Hab. ad folia dejecta Fagi silvaticæ, auctumno, in Dania et Germania.

34. **Sclerotium enterophæum** Cesati, Myc. Born. p. 27. — Hypo- 4595
phyllam, copiosissime disseminatum, globosum, rugulosum, extus intusque concolor brunneum.

Hab. ad folia satis coriacea arboris ignotæ, Borneo (BECCARI). — Dissentit de genere Rev. Berkeley; sed deficientis fructificationis causa ut nomen habeat, in hac sede relinquo singularem mycetem (CESATI).

35. **Sclerotium velutinum** West. II. Not. crypt. Belg. 1851, p. 24, 4596
fig. 5. — Disciforme, diam. 2-6 mm., $\frac{1}{4}$ - $\frac{1}{2}$ mm. cr. supra leviter depressum, infra convexulum, sed centro umbilicatum ibique matrici per filamenta affixum, brunneo-flavidum v. violascens, siccum atro-brunneum, rugulosum, extus velutinum, carne albida.

Hab. in petiolis foliisque Fraxini, Quercus, Populi etc. Courtrai Belgii.

36. **Sclerotium Hesperidum** Sacc., *S. succineum* Speg. Fungi Argentini 4597
Buenos Ayres 1882, Pug. III, p. 44, nec Desm. 1853. — Minutum, 120-180 μ . diam., globosum, succineum vel aurantiacum, ex hyphis tortuoso-intestini-formibus, geniculate-capitatis compositum, laxe gregarium, subsuperficiale, subiculo tenuissimo, albo, gossypino-tomentoso innatum.

Hab. in parte interiori pericarpium Citri Aurantii, prope La Recoleta, Buenos Ayres (C. SPEGAZZINI). — An status eujusdam *Nectriæ*?

37. *Sclerotium Citri* Catt. Miceti degli agrumi, p. 6, tav. XII, fig. 3-4. 4598

— Rotundum, leviter compressum vel e multis minoribus conglobatum, extus nigrum, muricato-scabrum, intus carnosum, album, demum flavescens; substantia interna vix venosa, manifeste tubulosa; tubulis difformibus, minutis, cavis, e peripheria in centrum uteri irregulariter conversis.

Hab. in fructibus putridis Citri Limonum in Italia bor. (A. CATTANEO).

38. *Sclerotium strobilinum* Schmidt Myc. Heft. I, p. 85, Fr. S. M. 4599

II, p. 254. — Sphaericum, rugosum, nigrum, intus album, fibrillis radiatim expansis insidens, globosum, rugulosum, 1 mm. diam., thallo fibrilloso insidens.

Hab. ad strobilos Pini putrescentes, in Saxonia et Italia. —

Forma major subirregularis in strobilis Abietis in Arduennis.

39. *Sclerotium Nicandrae* Schw. Syn. N. A. F. N. 2426. — Sparsum, 4600

applanato-subpezizoideum, subrotundum aut ambitu angulatum, atrum, medio subumbonatum et corrugatum.

Hab. in exoletis capsulis *Nicandrae physaloidis*, Bethlehem Amer. bor. — Magnitudine paulisper *Scl. gregarium* excedens, *S. incluso* non dissimile.

40. *Sclerotium stipatum* Fr. S. M. II, p. 254. — Aggregatum, ovato- 4601

globosum, testaceo-fuscum, supra rugosum, basi primo fibrillis effusis, junctum.

Hab. ad ligna putrida duriora, hieme, in Suecia, Germania. —

Admodum memorabile, *Myriococco praecoci* affine; pusillum, stipatum, erectum, fibrillis demum evanescentibus insidens, molle, pallens, intus fere concolor.

41. *Sclerotium mycetospora* Fr. Nees in Fr. S. M. II, p. 253, *Scl.* 4602

sinapispermum West. Not. VIII, p. 246 sec Kickx Fl. cr. II, p. 470. — Liberum, subtectum, globosum leve, stramineo-album, basi tenui byssinae insidens.

Hab. inter corticem in caldariis in Germania, Belgio etc. — Habitus seminis *Sinap. albae*, gregarium, obsolete pubescens, album, mox glabriusculum, stramineum. Observante cel. inventore, aestate favente luce! (h. e. non obtectum) in *Agaricum* (*Volvaria*) *volvaceum* excrescit. Cum status modo elementaris et e vegetazione luce priva personatus sit, strictissime ornittendus; tamen ad indolem reliquo-

rum, quibus simillimum, illustrandam maxime confert, quare inserere non dubitavi. Cf. *Scl. pubescens, fungorum* etc., quæ etiam *Agaricos* progignunt (Fr.).

42. **Sclerotium Rhizomorpha** Guép. in Fr. Elench. II, p. 41. — Glo- 4603
bulare, inæquabile, extus intusque cervinum, radicibus Rhizomorphae instructum!

Hab. in ligno putrido Populi nigrae in Gallia (GUEPIN). — Admodum memorabile radicibus, *Rhiz. cuidam corticatae* simillimis, filiformibus, teretibus, ramosis per lignum repentibus, quæ certe ad hoc Sclerotium pertinent. Forma et superficie inæquabile, pisum æquans v. minus, extus nigrescens, intus pallidius.

43. **Sclerotium truncorum** (Tode) Fr. S. M. II, p. 252, *Scl. subterra-* 4604
neum β *truncorum* Tod. l. c. p. 4, t. I, f. 5, c. d. A. S. p. 73, DC. l. c. p. 412, *Scl. flavum* Schum. Syll. 2, p. 186. — Varium, subcompressum, tuberosum v. lacunosum, glabrum, flavum, intus album.

Hab. ad ligna uda Fagi etc. passim, fere perenne in Suecia, Dania, Germania, Gallia. Species maxime varia, vix forma ulla constans; sed loco, colore constante et superficie inæquali optime dignoscitur. Nostrum sæpius scrobiculatum, 6-14 mm. longum; junius obsolete sericeum; subinde radicibus mucedineis, sed peregrinis, innatum. Ex hac forma videtur enasci *Collybia cirrata*.

44. **Sclerotium fibrillosum** Lib. Crypt. II, n. 139, Sacc. F. Ard. p. 27. 4605
— Tectum, magnum, difforme, durum, primo leve album, demum corrugatum umbrinum, intus stuppeo-fibrosum, fibrillis ramosis, repentibus, candidis instructum.

Hab. in cortice coriario sub dio còacervato in Arduennis. — Ex hoc sclerotio *Naucoria arvalis* sæpe oritur, observante eximia Libert. A. S. *vaporario* differt defectu fibrillarum.

45. **Sclerotium quercigenum** Berk. Outl. p. 410 et in Smith Engl. 4606
Fl. VI, p. 2, p. 222. — Globoso-depressum, infra umbilicatum, fibrillis paucis brevibus adherens, hinc fere liberum, album. dein rubro-brunneum, demum nigricans, siccum corrugatum.

Hab. in ramis decorticatis Quercus locis opacis in Britannia.

46. **Sclerotium vaporarium** A. S. p. 73, t. 10, f. 1, DC. l. c. p. 414, 4607
n. 10, Nees Syst. f. 136, Fr. S. M. II, p. 251. — Tectum, magnum, durissimum, varium, fuscescens, demum corrugatum nigrum. Forma varia, subglobosa, oblonga, reniformis, fabæformis etc.; 2-3 cm. usque longum, 8-13 mm. latum. Substantia alba, dein pallens.

Hab. intra corticem vaporarium, auct. vere, in Suecia, Gallia,

Germania. — Sec. auct. quosdam ex hoc gignitur *Naucoria arvalis*.

47. *Sclerotium violaceum* Corda, Ic. III, p. 18, t. III, f. 50. — Li- 4608
neatim seriatum, minutissimum, vix visibile, sphaericum, azureo-
violaceum, inæquale, intus album, basi fibrillis simplicibus v. ra-
mosis præditum.

Hab. in ramulis junioribus emortuis Sambuci nigræ in agro
Pragensi. — Teste Tul., sistit stroma *Gibberella pulicaris*.

48. *Sclerotium reniforme* Schw. Syn. N. A. F. n. 2429. — Minutum, 4609
2-3 mm. vix excedens, liberum, reniforme, valde convexum, ex
lutescenti-rufum, aggregatum, exsiccatum corneum corrugatum,
intus simile, sed demum centro subfatisceus.

Hab. in interiori latere corticis Fraxini, rarius, Bethlehem
Amer. bor.

49. *Sclerotium fibrisedum* Karst. et Har. Journ. bot. 1890, p. 363. — 4610
Gregarium, rotundatum, oblongatum v. confluendo difforme, fu-
scum, intus concolor, rugosum, circ. 0,5 mm. latum.

Hab. inter fibras interiores trunci Oreodoxæ regiæ in horto
botanico, Bordeaux Galliæ (DURIEU).

50. *Sclerotium carneum* Fr. Elench. II, p. 40. — Liberum, minutum, 4611
globosum, leve carneum.

Hab. in pagina interiori corticis abiegni viscidii, locis udis
projecti in Suocia, Aug. Sept. — Omnino nudum, superficiale, basi
tamen affixum, magnitudinem seminis cannabini vix attingens aut
punctiforme. *Nectricæ sanguineæ* simile, sed pallidius, astomum et
verum *Sclerotium*! Colore pulcro immutabili insigne.

51. *Sclerotium lignatile* Schw. Syn. N. A. F. n. 2427. — Magni- 4612
tudine *Scl. Seminis*, cui simillimum, e globoso turbinatum, passim
substipitatum, primum fuscum, demum nigerrimum, superficie pli-
cato-rugosum, intus candidissimum.

Hab. in cortice putrescenti, rarius, Bethlehem Amer. bor.

52. *Sclerotium eurotioides* Lib. Exs. n. 138 (1832). — Congestum te- 4613
ctum, minutissimum, globosum, leve, stramineum, demum fulvum,
100 μ . diam., villo mucido demum evanescenti insidens.

Hab. in cortice coriario sub dio coacervato, auctumno in Ar-
duennis. — Contextus cellulosus, habitus *Eurotii* sed asci et spo-
ræ nullæ.

53. *Sclerotium fuscum* Wallr. Fl. crypt. n. 1418. — Stromate e basi 4614
depressa subgloboso conoideo, levi, fusco-castaneo nitido, sparso, de-
mum corneo, intus allinate.

Hab. ad ligna cariosa laxè appensum, in nemoribus Thuringiæ.

54. **Sclerotium argentinum** Sacc. et Sp. *Sclerotium eurotioides* Speg. 4615

F. Argent. IV, p. 135 (1882), nec Lib. (1832). — Globosum, parvulum, 200-300 μ . d., candidum, dense gregarium, ubique ex hyphis radiantibus concoloribus longiuscule hirtum; cute indistincte parenchymatica, fulvo-mellea; nucleo e cellulis dense constipatis, oblongis, rectis v. curvulis, 20-25 \times 5-6, simplicibus v. ramulosis, hinc inde varie gibbulosis ac contortis composito.

Hab. in trunco carioso, dejecto, hume obvoluto Erythrinæ Cristægalli, in dumetis, Conchas Argentinæ.

55. **Sclerotium apiosporioides** Speg. F. Arg. IV, p. 134. — Globosum, 4616

minutissimum, 100-120 μ diam., atrum, levissimum, glaberrimum, superficiale, densissimi gregarium, maculas super matricem magnitudine ludentes, sæpius majusculas, aterrimas efformans; cute tenui-membranacea, contextu majuscule parenchymatico-celluloso, fulgineo-atro; nucleo compacto, e cellulis sub pressione liberis, subglobosis, 10-15 μ . diam., grosse 1-guttulatis, hyalinis composito.

Hab. in asseribus salicinis putridis in nemorosis uliginosis Recoleta Argentinæ.

56. **Sclerotium Pini** Fuck. Symb. Mycol. p. 405. — Gregarium cæ- 4617

spitosumve, irregulare globosum, 2 mm. diam., atro-fuscum, rugulosum, intus album.

Hab. in cortice dejecto vetusto Pini silvestris, rarius, in Rhenogovia.

57. **Sclerotium applanatum** Weinm. Hymen. Rossicæ, p. 649. — Spar- 4618

sum, applanatum, difforme, fere liberum, sub lente foveolatum, glabrum, nigrum, intus brunneum, 1 1/2 mm. cr., 3-8 mm. long., 2-3 mm. latum, tenax.

Hab. ad ligna pinea mucida in agro Petropolitano Rossicæ.

58. **Sclerotium ligulatum** Cesati, Myc. Born. p. 27. — Olivaceum, 4619

difforme, cylindraceum v. compressiusculum, pistillare vel turbinatum, passim bifidum, carnosum, intus album, contextu e vesiculoso granulati.

Hab. ad lignum emarcidum humo inquinatum, Ceylôn, ad Pedrotallagalla (BECCARI).

59. **Sclerotium ambiguum** Duby Bot. Gall. II, p. 875. — Ovatum or- 4620

biculatumve minutum, applanatum, margine subelevato, crispo, sparsum, tenue, nigrum, subrugulosum, intus griseo-nigricans.

Hab. ad squamas bulborum Allii circa Angers Gallicæ (GUÉPIN). — Primo obtutu *Patellariam* exiguam simulat.

60. **Sclerotium inconspicuum** Lib. in Herb. Speg. et Roum. in Rev. 4621
Mycol. II, p. 23. — Coacervatum, minutissimum, vix conspicuum,
globosum, leve, fuscum, floccis effusis, ramosis concoloribus ad-
hærens.

Hab. in squamis bulborum putridorum Allii Cepæ et in
charta putrida, prope Malmedy in Arduennis.

61. **Sclerotium cepivorum** Berk. apud Fr. Summa Veg. 478, *S. Cepæ* 4622
B. et Br., Frank Die Krankh. d. Pfl. 2 ed. II, p. 504. — Minu-
tum, sphaeroideum, gregarium, atrum, tegumento distincte paren-
chymatico fuligineo, intus cellulis varie ramosis intricatis albis
farctum.

Hab. inter tunicas bulborum Allii Cepæ, quos corrumpit, in
Britannia, Germania et Italia prope Castel d'Ario, Mantova (Ab.
MASE). — Sec. Berk. ex hac forma generatur *Mucor subtilissi-
mus* Berk.

62. **Sclerotium pulveraceum** Dur. et Mont. Fl. Alger. I, p. 441. — 4623
Minimum, aggregatum, e globoso oblongum, atrum, rugulosum
intus album.

Hab. in bulbis Allii pallentis, quos plane destruit, prope
Costantine Algeriæ, julio (DURIEU). — Diam. 0,2-0,5 mm. adæ-
quans, primo aggregatum et fibris vascularibus bulborum, quos
comedit, adhærens, tandem solutum et pulveris instrati ad instar
dispersum, opacum, structura cellulosa. Affine *Scl. cepivorum*.

63. **Sclerotium hypocreæmorphum** Cesati Myc. Born. p. 27. — Tu- 4624
berculis laxè matrici adhærentibus, globulosis, umbilico leviter ex-
cavato, e citrino ochraceis, punctis obscurioribus (fere ostiola fin-
gentibus) notatis; cortice tenui, carne albida e cellulis contortis
turgidis hinc inde nucleolatis lacteis confecta.

Hab. fibris pericarpium Pandani? inspersum, Sarawak Bornei 1865.

64. **Sclerotium Iridis** Thüm. Hedw. 1880, p. 191. — Tuberculis sub- 4625
magnis, orbiculatis, semiimmersis, plano-hemisphæricis vel fere len-
ticularibus, opaco fusco-ferrugineis, intus albidis, durissimis.

Hab. in Iridis germanicæ scapis emortuis in Arduennis
(LIBERT). — A *Sclerotio Tulipæ* Lib. longe diversum.

65. **Sclerotium baccarum** Rostr. Till. Groenl. Swamp. p. 632. — Tu- 4626
berculis 1-2 mm. lat., rugulosis, depressis, nigricantibus.

Hab. in baccis Streptopodis amplexifolii, Tasermiut in
Groenlandia.

66. **Sclerotium Clavus** DC. Mem. l. c. p. 416, t. 14, f. 8. *Clavi Sili-* 4627
ginis Lonic. *Secalis Mater* Thal. herc. p. 47, *Secale luxurians*

Bauh. pin. p. 23, *Grana Secalis degenerati* Brunner in Eph. Nat. Cur. Dec. 3, An. 2, p. 348, *Secale cornutum* Bald. diss. Jen., 771. — Corniforme cylindricum, extus subpruinose, purpureo-nigrum, intus album, semine graminis, ejus locum occupat, paulo majus, cornutum, subcurvatum, teres, sursum attenuatum; superficie inaequali, rugulosa, passim sulcata: sapor nauseosus.

Hab in glumis Secalis, Agrostis, Lolii, Moliniæ, Phragmitis, Olyræ, Glyceriæ, Hordei, Tritici, Poæ, Holci, Airæ, Brizæ, Dactylidis, Avenæ, Festucæ, Nardi, Spartinae, Elymi, Sesleriae plurimumque graminum in tota Europa, America, Asia. — Ex hoc gignitur *Sphacelia segetum* et demum *Claviceps purpurea* v. *C. microcephala*.

67. **Sclerotium Stipæ** Sorok. Mycol. Observ. (rossice) Kasan 1872, p. 33, 4628
tab. VII, fig. 5-7. — Corniforme, cylindricum, tenue, incurvum, brunneum, intus albo-cellulosum, 8-11 mm. long., 1-2 mm. cr.

Hab. in ovariiis Stipæ altaicæ in Rossia asiatica. — Peraffine *Scl. Clavo*.

68. **Sclerotium Paspali** Schw. Carol. n. 321. — Globoso-compressum, 4629
extus squamuloso-muricatum, testaceum, intus lutescenti-album.

Hab. frequens ad semina Paspali Carolinae. — Magnitudo fere pisi, basi innata glumis cineta. Sicca pallescens, superficie furfuraceo-rugosa; viva vero squamulis acutis tecta, pluvioso tempore in gelatinam solvitur; hinc *Acinulæ* affine; sed intus ætate subfarinosum et aliquo modo quasi fibris brevibus intermixtum. Rarius insectum observatur intus locatum.

69. **Sclerotium Patouillardii** Sacc. et Syd., *Sclerotium umbilicatum* Pat. 4630
Bull. Soc. Myc. 1888, p. 127, nec Desm. — Tuberculis nigris, subglobois, supra umbilicatis, binis quaternisve confluentibus v. sparsis, 3-5 mm. diam., duris, intus emereo-albidis, extus filamentis septato-moniliformibus brunneis conspersis

Hab. in foliis vivis Graminum, quæ exsiccantur, Atures Galliae. — Inter filamenta nidulantur copiosa perithecia *Phoma scleroticolæ*; eadem filamenta per matricem serpunt.

70. **Sclerotium Karstenii** Sacc. et Syd., *Sclerotium erysiphoides* Karst. 4631
Hedw. 1893, p. 120, nec Speng. 1883. — Tuberculis seu hyberniculis gregatim sparsis, liberis, sphaeroideis, fusciscentibus, demum fuscis, villo albo denso obvolutis, 0,5 mm. diam.; hyphis repentibus, admodum tenellis, arachnoideis, ramosis, articulatis, sæpe guttulatis, albis, 3-6 μ . cr., cito evanidis.

Hab. supra gramina in pratis cis Mustiala Fennia, sæpe sub

nive crescens. — Ab *Erysiphe epigæa* Link., hucusque vix cognita, tuberculis exacte globosis villosis etc. differt.

71. **Sclerotium udum** Fr. S. M. II, p. 250. — Ovato-globosum, liberum, glabrum, e fulvo purpureo-rufum, intus pallidum, plane liberum, mobile, magnitudine seminis Sinapis, carnosum, siccum rugosum, opacum. 4632

Hab. locis udis inter quisquillas, ad Scirpum lacustrem putridum, ad folia graminum, rarius in Suecia, Gallia, Belgio.

72. **Sclerotium scirpicolum** Speg. Dec. myc. Arg. n. 49, F. Arg. IV (1882) p. 136. — Globosum, 0,5-1,5 mm. diam., ovaria perfecte implens, primo furfure albo-cinereo (an calcareo?) squarrulosum, dein nudum, atrum, granuloso-compositum, ecortcatum; cellulis conglobatis, irregulariter globosis, 10-15 μ . diam. fumoso-vinosis, immixtis aliis elliptico-ovatis, 12 \times 8-10, hyalinis. 4633

Hab. ad ovaria Eleocharidis bonaërensis in uliginosis prope promontorium Cabo S. Antonio, et prope silvas, Montes largos dictas, Argentinae ian. 1881. — Species incertae sedis, inter *Myxomyctas* (!?) et *Ustilagineas* dubiosa! An novum genus? An *Ustilago marmorata* B. Austr. Fung. p. 74?

73. **Sclerotium nigricans** (Tul.) Sacc. Mich. II, p. 134 (1882) *Claviceps nigricans* Tul. (mycelium quiescens), *Scl. Eleocharidis* Thüm. M. N. n. 2298 (1883). Lineare-semicylindricum, obtusum, nigrum. 6-8 mm. l. 4634

Hab. intra calamos Caricis paniculatæ, Heleocharidis palustris etc. in Gallia, Dania etc. — Est Sclerotium *Clavicipitis nigricantis* Tul.

74. **Sclerotium Maydis** Preuss, Fungi Hoyersw. p. 80. — Primum epidermide (testa) tectum, dein nudum, atrum, rotundatum, sublobatum, stipitatum; carne alba, cellulosa. 4635

Hab. in seminibus Maydis male exsiccatis, Hoyerswerda Silesiæ.

75. **Sclerotium Oryzæ** Catt. Arch. trienn. Lab. critt. Pavia, 1877, p. 10 — Sphaericum, nigrum, $\frac{1}{10}$ mm. diam., nitidum, ex mycelio tenui albo nascens; valde noxium. 4636

Hab. in culmis vaginisque Oryzæ sativæ in Italia.

76. **Sclerotium glumale** Ces. Myc. Born. p. 26. — Majusculum usque 8 mm. longum, 4 latum, convexum, subtus cavum, margine rotundato undulato, nigrescenti-griseum, crusta tenui sed dura, contextu albo minute vesiculoso. 4637

Hab. in glumis marcescentibus Oryzæ, quibus adnascitur, Sarawak Bornei.

77. **Sclerotium rhizodes** Awd. in Kl. Hb. m. 1232 Bot. Zeit. 1849, 4638
p. 294. — Subglobosum, primo albo-villosum, mox glabriusculum,
nigrescens, rugulosum, fibrillis albis seriatim insidens.
Hab. in foliis junioribus Calamagrostidis Epigei, Phala-
ridis, in Germania, Belgio, et in apice foliorum Poæ? spec. pr.
Sobernheim Rhenogoviæ. — Folia fungo correpta decolorantur et
pereunt.
78. **Sclerotium Hypnorum** Schum. Sæll. 2, p. 185, Fr. S. M. II, p. 253. 4639
— Subrotundum, tuberosum, punctis elevatis minutissimis sub-
farinosis, coccineum, intus pallidum.
Hab. in locis humidis pinetorum surculis subdefossis Hypno-
rum inhærens, sept. oct. in Dania. — Substantia carnosa, mollis
dicitur. An igitur, ut *Scl. Fagi* l. c., larva Gasteromycetis? Foliis
pineis tectum reperitur etiam *Scl. vulgatum*.
79. **Sclerotium hypnophilum** Saut. Flora 1845, p. 134, *S. Hypnorum* 4640
Rabenh. Crypt. Flora II. p. 242, nec Schum. — Subgloboso-ap-
planatum, magnitudine seminis Papaveris, basi plane sessile, cor-
neum, durum, intus et extus carneum.
Hab. in Hypnis spec., Moosbach Innviertel Austriæ. — Di-
versum a *Scl. Hypnorum* Schum.
80. **Sclerotium Muscorum** Pers. Syn. p. 120, Fr. S. M. II, p. 152, 4641
S. subterr. a. Tod. l. c. p. 3, f. 5, a. b., A. S. p. 73, DC. l. c.
— Difforme, lobatum, glabrum, tuberosum, extus intusque au-
reum.
Hab. circa muscorum radículas frequens, rarius ad ligna, in
Suecia, Germania, Gallia, Britannia, Italia, etiam in America. —
Sclerotio truncorum etiam rigidius, subfragile magisque aggregato-
conglomeratum. Multo magis affine *Rhizoctonic Muscorum*, tamen
aut ut diversæ species servandæ aut illa duo genera conjungenda.
81. **Sclerotium atratum** Desv. Journ. Bot. 1809, II, p. 313, DC. l. 4642
c. n. 11, Fr. S. M. II, p. 251. — Majusculum, difforme, rugoso-
tuberosum, nigrum.
Hab. inter muscos supra rupes Pictaviæ superioris. — Long.
25 mm., 12 mm. cr.
82. **Sclerotium Prostii** Duby, Bot. Gall. II, p. 873. — Liberum, ere- 4643
ctum, oblongum, difforme, substipitatum, compressum, basi villo-
so-radiculatum, extus luteo-aurantiacum, intus concolor, subdilutius.
Hab. in axillis foliorum Hypnorum coacervatorum prope
Mende Galliæ (Prost). — Altum vix 2 mm.
83. **Sclerotium byssisedum** Wallr. Fl. crypt. n. 1428. — Stromate 4644

globoso exiguo, primum pallido, byssum tenerrimam parcam nigrescentem caducam circumspargente, dein fusco nudo levi, basi tenuiter appenso.

Hab. ad lamellas et hymenium Agaricorum, auctumno, in Germania. — Habitu *Erysiphes* æmulum. An sat diversum a *Scl. pubescenti* Pers.?

84. **Sclerotium fungorum** Pers. Syn. p. 120, A. S. p. 73, Dec. l. c. 4645
n. 9, Fr. S. M., II, p. 252. — Difforme, lobatum, glabrum, pallidum, dein fulvum, intus albidum; forma valde varia, sed etiam subrotunda, nunc leve, nunc lacunosum; color demum badio-fuscus, nigrescens.

Hab. intra lamellas Agaricorum putrescentes, *Collybiam tuberosam* alens, et ad Polyporos frequens, etiam in America boreali; in Germania, Suecia, Italia, Gallia etc. — β **S. lacunosum** Pers. disp. p. 15, t. 3, f. 7, Syn. p. 121, Sewerb. t. 287, Nees Syst. f. 137, DC. l. c. p. 418, n. 22. Fr. l. c.: durum, lacunosum, nigrum. Subterraneum in Suecia, Britannia, Gallia, Germania.

85. **Sclerotium atrovirens** Schmidt Myk. Hefte I, p. 86, Fr. S. M. II, 4646
p. 251. — Convexum, sublobatum, durissimum, leve, atrovirens, intus albidum, mm. 4-8 latum, 2-4 crassum, siccatum atro-fuscum, intus primo virescente-, dein cinerescens-album.

Hab. in Polyporo (Fomes) fomentario putrescente, Lipsiæ.

86. **Sclerotium bolatophilum** Corda Ic. III, p. 21, f. 54. — Globosum, 4647
substipitatum, basi depressum, carnosum, album, dein brunneum, intus albo-cyanescens, demum cavum.

Hab. ad Polyporum squamosum, hieme pr. Pragam (CORDA).

87. **Sclerotium pubescens** Pers. syn. p. 123, A. S. p. 76, DC. Mem. 4648
l. c. p. 412, Fr. S. M. p. 253. — Liberum, globosum, pallidum, basi villosa-radiculatum, gregarium, 2 mm. latum, medio sæpe excavatum. Variat forma globosa, ovata, acutiuscula demumque deciduum in *Agaricum* explicatur.

Hab. ad lamellas Agaricorum, sero ætumno frequens in Suecia, Germania, Gallia.

88. **Sclerotium Amanitæ** Fingerhut, Linnæa X. pag. 232 (1836). — 4649
Subrotundum v. angulato-planiusculum, gregarium, candidum, dein sordide album, fibris tenuibus, albis, ramosis, varie contextis insidens.

Hab. in stipite et lamellis Amanitæ vidæ in Palatinatu Rheno.

- 89 **Sclerotium mycetophagum** Sacc. Mich. I, p. 274. — Tuberculis 4650
minutissimis, globosis, 100-130 μ diam., undique clausis Agaricorum lamellas totas denique et creberrime occupantibus, vinoso-rufis, intus pallidioribus cellulisque dense conglobatis, ex anguloso globosis 7-8 μ diam. inter se ægre secedentibus. hyalinis fœtis.
Hab. in lamellis Coprini Digitalis, quem deformat, ad truncum Platani putrescentem in horto Patavino, Aug. 1872, nec inde repertum. — Cum *Sclerotio* (Coccopleo) *palliolato* Ehrh. nec non cum *Perisporio agaricicola* Wallr. proxime cognatum videtur.
90. **Sclerotium perpusillum** Lasch in Kl. Herb. myc. n. 1320, Flora 4651
1850, p. 282. — Subrotundum v. inæquale, lacunosum, e subtomtoso glabrescens, extus intusque subfulvum.
Hab. inter quisquillas silvestres in agro Driesen Germaniæ.
91. **Sclerotium flavidum** Welw. et Curr. Fungi Angol. p. 292. — 4652
Tuberculis variis, subglobosis, reniformibus v. deformibus, flavidis v. fulvis, a mole grani Sinapeos v. minus ad pisi parvuli crassitudinem variis.
Hab. ad terram graminosam inter cæspites in insula Principis, Angola.
92. **Sclerotium gregarium** Schw. Syn. N. A. F. n. 2425. — Minu- 4653
tum, gregarium, interdum etiam sparsum, subglobosum, apice tamen subprominente et passim deorsum quasi pseudostipite suffultum aut plerumque sessile, ferrugineo-fuscum, paulisper rugulosum, juventute subinmersum albidum, intus semper albidum.
Hab. in putrescentibus rejectamentis hortorum. Bethlehem Amer. bor. — *Sclerotio* semine sextuplo minus
93. **Sclerotium ossicolum** Rostr. Till. Grönl. Svamp. p. 633 — Rufo- 4654
brunneum, usque atro-brunneum, globosum v. ellipsoideum, 0,3-1 mm. diam.
Hab. in ossibus putrescentibus Morrhua, Hoistensborg Groenlandia.
94. **Sclerotium splendens** Fr. Elench. II, p. 41. — Emerso-liberum, 4655
lenticulare, leve, e purpureo mox aterrimum, nitens, intus candidum.
Hab. in stercore circa Petropolin (WEINMANN). — Species adeo distinctissima ut vix affines adsint, forma satis constanti (specimina tantum juniora exsiccata collabascantia minusque nitida) et nitore insigne. Nudo oculo levissimum, at sub lente pro generis more, minus distincte rugulosum. Cortex exterior in hoc evidentius distinctus, quam in ceteris. Magnitudo seminis Viciæ.

95. **Sclerotium stercorarium** DC. Fl. fr. 2, p. 277, Mém. l. c. n. 8, 4656
t. 14, f. 4, Fr. S. M. II, p. 250. — Liberum, subrotundum, ni-
grum, siccum rugulosum, intus album; subglobosum, piso majus,
carnosum, molle.

Hab. in stercore humano, rarius alibi, æstate, auctumno in
Suecia, Gallia, Germania, Italia. — Videtur mycelium *Coprini*
stercorarii.

96. **Sclerotium biconvexum** Preuss, Linnæa 1852, p. 80. — Sparsum, 4657
semiinnatum, biconvexum, atrum durum, intus carnosum album,
firmum.

Hab. in fimo bubalino, bei Neida Hoyerswerda Silesiæ.

97. **Sclerotium pulverulentum** Speg. Fungi Argent. 1899, p. 353. — 4658
Minutissimum, densissime gregarium, pulverem cinnamomi simu-
lans, laxissime effusum.

Hab. in fimo vaccino putrescente in pratis prope La Plata
Argentina. — Tubercula globosa 50-100 μ . diam., intus et extus
fulvo-tabacina, duriuscula, e cellulis globoso-polygonis, 10-15 μ .
diam., efformata.

Trib. II. ERUMPENTIA

Primo inclusa, dein erumpentia sublibera, globosa v. depressa, glabra, rarius jugi-
ter inclusa. (*Scl. Semen* etc. primo etiam epidermidis membrana teguntur).

98. **Sclerotium immersum** Tod. Meekl. l. c. p. c. t. 1, f. 3 var., DC. 4659
fr. 6, 111, Mém. l. c. p. 412, Fr. S. M. II, p. 255. — Erumpens,
subovale, decumbens, glabrum, flavescens, plerumque ovale, inter-
dum rotundatum, $\frac{1}{2}$ -1 lin. latum, stramineum, semper leve, intus
album.

Hab. in superficie ramorum emortuorum Pini silvestris,
vere in Germania. — Tode l. c. etiam notat *b) album* in ramis
Oxyacanthæ; *c) clandestinum* subsinuato-compressum, paleaceum,
in superficie frondis quercinæ. Hoc ad *S. vulgatum* potius re-
ferendum.

99. **Sclerotium emergens** Fr. Elench. II, p. 42. — Emersum, nu- 4660
dum, rotundatum, subradicatum, compactum, demum corrugatum
spadiceum.

Hab. ad ligna vetusta pinæ, perenne. — *S. fulvo* etc. sat
simile, ob locum vero lignarium basimque subradicatum abunde
differt. Habitus potius Dacryomycetis, a quo vero substantia com-

pacta dignoscitur. In rimis ligni emergit; sparsum, persistens, vix 2,5 mm. superans; numquam depressum v. pezizoideum.

100. **Sclerotium applanatum** Schw. Syn. W. A. J. n. 2441. — Orbi- 4661
culatum, ambitu sublobatum, vix erumpens, sed potius epidermi-
de insidens, effuso-applanatum, 4-5 mm. diametro, superficie rufo-
fusca, corrugato-punctulata, intus subgrumosum, fuscum, margine
ambitu demum subinflexo.

Hab. in epidermide glabrata ramorum Castanearum, Salem
Amer. bor.

101. **Sclerotium protuberans** Fr. Elench. II, p. 42. — Erumpens, ro- 4662
tundatum, supra planiusculum, sulcatum, fuscum, intus griseum.

Hab. ad ligna populina etc. Galliae, circa Rothomagum (PRE-
VOST) et in Suecia (ASPEGREX). — Valde memorabile! E ligno fere
incolumi protuberat, nec e ligno rimoso emergit, quare superne
semper ligni fibris tectum manet: hæ fibræ fungum superne cic-
tricosum et sulcatum reddunt. Forma plus minus indeterminate ro-
tundata, elliptica etc. Contextus firmus, vesiculosus, quo eximie
differt a subsimilibus formis epixylis, pro Sclerotiiis necum simul
communicatis. Color squalidus, opacus, obscure fuscus, primo intuitu
nigrescens (Fries.).

102. **Sclerotium medulosum** Desm. Ann. Sc. nat. 1853, XX, p. 234. 4663
— Erumpens, subtectum, minutum, ovatum v. ellipticum, primo
convexum, pallide griseum, basi tenui byssinæ insidens, demum
depresso-nigrescens, intus medulosum, sordide albido-ochroleucum,
1-2 mm. long., 0,5-1 mm. latum.

Hab. in surculis semiputridis Ulmi, locis umbrosis, in Gallia
bor. — Affine *S. duro* et æque ac istud gignit *Botrytem cineream*.

103. **Sclerotium xylophilum** Weinm. Hymen. Rossia p. 647. — Erum- 4664
pens, sparsum, rotundum, ovale v. oblongiusculum, nitidum, leve,
extus nigrum, intus cæsiuum.

Hab. in lignis putrescentibus Alni incanæ in Agro Petro-
politano Rossia.

104. **Sclerotium sarmenticulum** Thüm. Symb. myc. Austr. I, n. 11. 4665
— Sparsum vel solitarium, oblongum, erumpens, demum elevatum,
liberum, subconvexum, atrum, leve, magnum, intus parum palli-
dius, granuloso-fibrosium.

Hab. in sarmentis putridis Vitis viniferæ, Klosterneuburg
Austriae inf. hieme 1877.

105. **Sclerotium albidum** Rob. et Desm. Exs. III, n. 567, West. Prod. 4666
Fl. Bat. p. 29. — Erumpens, minutum, rotundatum dein oblon-

gum, confluens, convexum, albidum, subleve, siccum depressum, intus concolor.

Hab. in sarmentis emortuis Vitis viniferæ in Gallia et Hollandia.

106. **Sclerotium Opuntiarum** Speg. Fungi Argent. 1899, p. 354. — 4667

Subepidermicum, parenchymate matricis immersum, primo album, furfurellum, carnosum, dein atro-corticatum, leve, glabrum, durum, applanatum.

Hab. in articulis emortuis, putrescentibus Opuntiarum, in Horto Spegazzinii, La Plata, Argentinae. — Tubercula solitaria vel gregaria, margine sinuoso-repanda, 5-15 mm. lat., 1-2 mm. cr., intus sordide alba, extus nigra. An status quiescens *Sclerotiniæ* sp.?

107. **Sclerotium inclusum** Schmidt et Kunz. exs. n. 137, Fr. S. M. 4668

II, p. 255. — Erumpens, liberum, lenticulare, rugosum, primo spadiceum, demum nigrum, sparsum, 7-4 mm. longum, foliis perforando immersum.

Hab. in utraque pagina foliorum populinarum semiputridorum, hieme in Suecia, Germania. — Affine *S. Semini*; sed intus album nigro-punctatum, interdum cellulis cavis majusculis, atris, ut e Sphaeriarum familia crederes.

108. **Sclerotium maculare** Fr. S. M. II, p. 256, Desm. X. Not. 4669

1843, p. 30. — Amphigenum, erumpens, sparsum, minutum, applanato-globosum v. suboblongum, expallens aut rufescens, demum nigrescens, intus albidum, maculae lacteae insidens, vix 1 mm. æquans.

Hab. ad folia vetusta Betulae, Populi, Syringae, hieme, in Suecia et Gallia. Sec. Desm. verum *Sclerotium!* — Var. **innocuum** Rob. in Desm. XXII, Not. p. 21. Erumpens, epiphyllum, minutum, sparsum, sphaericum, ochroleucum dein brunneum, siccum applanatum, subnigrum; maculis nullis. In foliis arborum semiputridis, e. g. Piri, Populi, Mespili, Rubi, Aceris, Carpini, Castaneae etc. in Gallia.

109. **Sclerotium dorsale** Desm. Ann. Sc. nat. 1843, X, p. 346. — 4670

Erumpens, nervisequium, oblongum subobtusum v. sparsum, minutum, suborbiculatum, convexum, primo pallidum, demum nigrum nitidum, siccum rugulosum, intus album.

Hab. ad folia dejecta Aceris Negundinis, hieme et vere in Gallia boreali. — Tubercula usque 3 mm. longa.

110. **Sclerotium succineum** Desm. Ann. Sc. Nat. 1853, p. 233, nec 4671

Speg. — Erumpens, amphigenum, minutum, laxè et parce spar-

sum, subsphaericum v. hemisphaericum, subtus concavum, initio flavo-sulphureum, dein succineum, postremo deciduum.

Hab. in foliis vetustis Fraxini, Populi, Betulae in Gallia boreali et Belgio.

111. **Sclerotium umbilicatum** Desm. Ann. Sc. Nat. 1845, p. 361. — 4672

Epiphyllum, minutum, sparsum, badium, intus concolor, primo tectum, orbiculare, connexum, dein nudum, umbilicatum, rugosum.

Hab. ad folia dejecta Castaneae in Gallia boreali, hieme. — Vix 1 mm. diam.

112. **Sclerotium endochlorum** Sacc. Michelia II, p. 135. — Sparsum, 4673

erumpenti-pulvinatum, $\frac{1}{2}$ mm. d., leve, compactum, extus atro-fuliginium, intus inaequaliter cellulosum et viride.

Hab. in foliis Pini silvestris in Gallia (MALBRANCHE).

113. **Sclerotium Vitis** Peyl. Lotos 1857, p. 68, t. II. f. 13, Thüm. Pom. 4674

p. 132, tav. I, f. 15. — Compactum, innatum, plus minusve hemisphaericum, magnum, meandriforme, rugosum, fusco-atrum, primo album, intus albescens, homogenum, induratum.

Hab. in acinis maturis, siccis Vitis viniferae, hieme in Bohemia.

114. **Sclerotium concavum** Desm. Ann. sc. nat. 1837, p. 10, t. II, f. 1. 4675

— Innatum, atrum, nitens, tenue, concavum, primo orbiculatum, dein confluens subdifforme, intus griseo-albidum. siccum rugulosum, 2-4 mm. long.

Hab. in baccis Symphoricarpi racemosae in Gallia boreali.

115. **Sclerotium Gallarum** Schw. Syn. N. A. I. N. 2439. — Erumpens. 4676

emictum cortice gallarum, plerumque caespitosum, sed etiam, simpliciter subrotundum aut difforme, extus nigrum, superficie valde rugulosa ac inaequali, intus solidum pallidum, ceterum valde minutum, non infrequenter elongatim immo stellatim gregatum.

Hab. in gallis Cynipum exoletis Quercuum, Bethlehem Amer. bor. Cortex gallae saepe squamulatim persistit in tuberculis.

116. **Sclerotium Tragopogonis** Alb. et Schw. Lus. p. 77, Fr. S. M. II, 4677

p. 256. — Erumpens, subglobosum, disco collapso subpezizoidcum nigrum, intus album, primo immersum, *Pleosporae herbarum* non absimile, e fusco nigrum.

Hab. Ad caules Tragopogonis, variarumque herbarum, in Suecia, Germania. — Plurimae occurrunt formae vel species affines. *Sph. nigra* Sowerb t. 393, f. 1. huc referri posset.

- 117 **Sclerotium corrugatum** Fr. Elench. II, p. 43. — Erumpens, 4678

primo disciforme pallidum, dein tuberculoso-prominens, atrum, scruposo-rugosum, intus griseo-albidum.

Hab. ad caules *Althææ* in Gallia occidentali circa Angers (GUEPIN.) — In statu juniore *Stictidis* speciem quamdam refert, erumpens, disciforme, laciniis epidermidis laceratæ cinctum; adultum vero *Tuberculariam* quamdam nigricantem, opacam, valde scruposo-rugosam. Substantia solito magis ceracea. Ad *Dothideam* aliudve genus referri non potest.

118. **Sclerotium sphaeriforme** Lib. Exs. n. 237, Desm. Ann. Sc. nat. 4679
1845, p. 362. — Erumpens, subglobosum, multiforme, brunneum, dein nigrum plicis transversis v. concentricis donatum, passim mammosum, intus album.

Hab. in caulibus emortuis Brassicæ oleracæ rubræ in Gallia boreali et Belgio. — Affine *S. vario*. Forte nonnisi forma abortiva *Phomæ Lingam*.

119. **Sclerotium hysterioides** Cord. Ic. III. 19, Tab. III, F. 53. — 4680
Erumpens, gregarium, oblongum, 3 mm. long., angustum, convexum; medio sulcato-plicatum, nigrum, opacum, intus album.

Hab. in caulibus siccis Campanulæ Trachelii in Germania (CORDA, FÜCKEL).

120. **Sclerotium Dasystephanæ** Thüm. Myc. univ. n. 799. — Stro- 4681
matibus subsemiglobosis vel sublineariformibus, elevatis, erumpentibus, nitido-atris, sparsis vel solitariis, primo (in caule) epidermide tectis, dein liberis, intus albidis, duris, contextu homoganeo.

Hab. in caulibus, foliis pericarpisque aridis Gentianæ Dasystephanæ) asclepiadææ vere 1877, Laibach Carniolæ (W. Voss).

121. **Sclerotium Conii** Dub. Bot. Gall. II, p. 873, Wallr. Comp. n. 4682
1414. — Stromate punctiformi, dein epidermidem roseam trans-eunte, hemisphaerico, exiguo, subdepresso, ruguloso, lutescente, intus concolore.

Hab. ad caules exsiccatos Conii maculati in Gallia et Germania.

122. **Sclerotium Balsaminæ** Frank, Die Krankh. d. Pfl., 2 ed vol. 4683
II, p. 513. — Mycelio ubique penetrante; sclerotiis exiguis, immersis, copiosissimis, $\frac{1}{10}$ mm. diam., nigris.

Hab. in caulibus Balsaminæ glanduliferæ, quam necat, in Germania.

123. **Sclerotium pleosporoides** Speg. F. Arg. IV, (1882) p. 136. — 4684
Parvulum 200-150 diam. primo tectum, dein epidermide secedente

liberum, globoso-lenticulare, margine obtuse rotundatum, siccum centro depressum, udum umbonatum, glaberrimum, leve, sparsum v. laxe gregarium; cute membranaceo-coriacea, grosse sed indistincte parenchymatica, subopaca, atro-fuliginea; nucleo e cellulis sphaericis 14-17 μ . diam., mutua pressione angulosis, crassiuscule tunicatis, centro non v. grosse 1-guttulatis, hyalinis composito.

Hab. in caulibus dejectis putrescentibus fere omnium herbarum, vulgatissimum per totum agrum bonaërense Argentinæ, per annos 1880-81. — Status quiescens *Pleosporæ sclerotioidis* Spig.

124. **Sclerotium Arctii** Weinm. Hymen. p. 646. — Erumpens, sparsum, primo globosum, dein plano-depressum, rugosum, extus spadiceum, intus album, 1,5-3 mm. et ultra latum, cavum, pezizoidum. 4685

Hab. in caulibus emortuis *Arctii Bardanae* in agro Petropolitano Rossia.

125. **Sclerotium rimosum** Lasch in Kl. Herb. mycol. n. 1149, Flora 1848, p. 508. — Erumpens, adnatum, subrotundum v. globoso-convexum, e fusco nigricans, dein late rimosum, intus flavidorufescens. 4686

Hab. in caulibus emortuis *Astragali arenarii* prope Driesen Germaniæ.

126. **Sclerotium Cyparissiae** DC. fl. fr. 6, p. 144. Mem. l. c. p. 419, t. 14, f. 2, Fr. S. M. II, p. 256. — Erumpens, subglobosum, carnosum, durum, extus violaceum, intus nigrescens. 4687

Hab. in pagina inferiori foliorum vivorum *Euphorbiae Cyparissiae* in Gallia et Germania (DC., FÜCKEL). — Pulchra species.

127. **Sclerotium Circææ** Schum. Sæll. II, p. 137, Fr. S. M. II, p. 256. — Erumpens, obovatum, leve, carnosum, durum, purpureo-atrum, intus fuscum. 4688

Hab. in aversa parte foliorum languescentium *Circææ lute-tianæ*, auctumno in Dania. Valde affine *S. Cyparissiae*, vix nisi forma subturbinata diversum. — An *Tuberculina persicina*?

128. **Sclerotium occultum** Hoffm. Ic. fung. p. 67, t. XVI, f. 3. — Endogenum, gregarium, polygono-parenchymatosum, subrotundum, fuscescens, perexiguum. 4689

Hab. in fructibus *Potamogetonis lucentis et natantis* in Germania.

129. **Sclerotium sanguinem** Fr. S. M. II, p. 255. — Erumpens, liberum, pusillum, globulare, leve, obscure sanguineum. 4690

Hab. ad folia *Convallariæ majalis*, *C. bifoliæ* in Suecia,

Germania, Italia, hieme. — Junius in folii substantia nidulat, dein superficiale et liberum, magnitudine seminis Brassicæ. Primo pallidum, demum rufo-fuscum.

130. **Sclerotium roseum** Moug. ap. Fr. Elench. II, p. 43. *Scl. Kneiffi* Quibusdam. — Inclusum, erumpens, oblongum, longitudinaliter sulcatum, intus amœne carneum. 4691

Hab. in culmis Scirpi lacustris Argentorati (KNEIFF). Nobilis species! Forma gaudere videtur eximie regulari, oblonga. apicibus æqualiter rotundatis obtusis; pagina inferiori applanata, culmi fibris adnata; exteriori tumida, culmo dehiscente nuda longitudinaliter sulcata striataque, inæquabili, nigra, opaca; interior vero color amœnissime incarnato-roseus! Magnitudo varia 6-12 mm. et ultra longa. — Ex hoc oritur *Sclerotinia Curreyana* (Berk.) Karst.

131. **Sclerotium hysteriiforme** Schw. Syn. N. A. F. n. 2440. — Erumpens, demum omnino liberatum, simplex, elongatum, utrinque acuminatum, convexo-applanatum, satis elevatum, longitudine 2 mm. atrum, superficie longitudinaliter, substriata, subtuberculosa, convexo-connivens, intus albidum. 4692

Hab. in foliis Yuccæ filamentosæ cultæ, Bethlehem Amer. bor., rarissime.

132. **Sclerotium juncinum** Desm. Ann. Sc. nat. 1847, VIII, p. 15, — Inclusum, minutissimum, numerosum, ovoideum, nigrum, nitidum, intus griseo-nigricans. 4693

Hab. ad calamos exsiccatos Junci in Gallia bor., auct. — Tubercula vix $\frac{1}{4}$ mm. diam.

133. **Sclerotium graminum** Desm. Ann. Sc. nat. 1842, XVII, p. 101. — Immersum, erumpens, utrinque convexum, punctiforme, sparsum, oblongum ovatumve, lenè, substantia alba, firma. 4694

Hab. in foliis exsiccatis graminum in Gallia.

134. **Sclerotium fulvum** Fr. S. M. II, p. 255. — Erumpens, liberum, oblongo-globosum, rugosum, fulvum, intus albidum. 4695

Hab. ad folia graminea vere in Suecia. — Juniore ætate immersum, suboccineum, demum folium finditur et liberum evadit. *Sclerotio sanguineo* paulo majus.

135. **Sclerotium rhachidophilum** Cesati Myc. Born. p. 27. — Spicas Panici? post spicularum delapsum infestans; e rhachide erumpens, depressò-globosum, minutum, extus brunneum rugulosum, intus album. 4696

Hab. ad spicas Panici? spec. Sarawak Borneo (BECCARI).

136. **Sclerotium sulcatum** Desm. Ann. Sc. nat. 1851, p. 223, Frank 4697
 Krankh. II, p. 508. — Culmigenum, inclusum, dein erumpens liberum, majusculum, elongatum, tenuatum, cylindricum aut triquetrum, subfusiforme, utrinque obtusum, longitudinaliter sulcatum, primo albidum, mox brunneum, demum nigrum, intus album v. pallide carneum.

Hab. in calamis Caricum in Gallia, Helvetia. — Ad 1-2 cm. long, 2-3 mm. lat. Ex hoc sclerotio oritur *Sclerotinia Duriana* (Tul.) Quél.

137. **Sclerotium palliolatum** (Ehrenb.) Fr. S. M. II, p. 256, *Coccopleum* 4698
pall. Ehrenb. Silv. myc. Ber. p. 27. — Inclusum, globosum; hemisphaeris utrisque prominulis, tectis; primo album, nigrofusum, intus concolor, gregarium, raro confluens; sporidiis (?) faretis globosis conglutinatis subpellucidis.

Hab. in lamellis Agaricorum putridis auct., in Germania.

138. **Sclerotium rugulosum** Fr. S. M. II, p. 255. — Emergens, ellipticum, semiapplanatum, rugulosum, nigrum; e fungis putridis 4699
 emergit, 2-2,5 mm. latum, supra convexum, subtus planum, opace nigrum, intus nigrescens, non punctatum.

Hab. ad Agaricos, et praesertim Merulios putrescentes, hieme, vere, in Suecia et America sept.

Trib. III. SUBADNATA

Superficialia, dura, solida, glaberrima, basi adnata; nuda v. epidermide secedente tecta. Nigra, intus albida, a matricis substantia discreta. Epiphyta.

139. **Sclerotium Trientalis** Fr. S. M. II, p. 260. — Epiphyllum, oblongum, subrotundum, tenue, rugulosum, nigrum, intus sordide 4700
 album.

Hab. ad folia Trientalis europeae marcida in Suecia. — In superiore pagina occurrit, subinde nervisequium et tum magis elongatum. Affinibus multo minus.

140. **Sclerotium Anemones** Schw. Syn. N. A. F. n. 2454. — Majusculum, 2 mm. longitudine excedens, saepe confluens, subrotundum, bullatum, superfacie inaequali lacunosa, brunneo-fusum, situm in aversa pagina folii, macula orbiculata impressa in superiori, intus lutosum, demum fatiscens. 4701

Hab. in foliis subviridibus Anemones virginicae, Bethlehem Amer. her.

141. **Sclerotium Brassicae** Pers. syn. p. 122. A. S. p. 75. DC. Mem. 4702

l. c. p. 417. Fr. S. M. II, p. 259. — Oblongum, depressum, tenue, nigrum, intus album, demum nigropunctatum, sparsum, forma varium, applanatum, sed submarginatum, 4-8 mm. longum, initio epidermide tectum, primo album, intus demum nigrum.

Hab. intra petiolos et folia putrescentia Brassicæ oleraceæ in scapis Allii Victorialis, Hemerocallis, ad caules Liliorum, hieme in Suecia, Lusitania, Germania. — Habitus fere *Rhizismatis gigantei*.

142. **Sclerotium bullatum** DC. Mem. l. c. p. 416, t. 14, f. 5, Fr. S. 4703 M. II, p. 259. — Orbiculatum ovatumque, confluens, convexum, granulatum, atrum, intus albidum. durum, intus corneum.

Hab. supra corticem Cucurbitæ Lagenariæ in Gallia. — Sec. auctores ex hoc oritur forma quædam *Sclerotiniae Libertianæ* Fuck.

143. **Sclerotium compactum** DC. Mem. l. c. p. 416, t. 14 f. 5 Fr. 4704 S. M. II, p. 258. — Ovatum, reticulatim connexum: varium, crassum, subrugulosum, nigrescens, intus album.

Hab. intra pedunculos supra receptacula et semina Helianthi annui. nunc ovatum, nunc confluens et seminum angulis impressum, intra Cucurbitas maturas auctumno in Gallia, Germania, Italia — Sec. auctores ex hoc oritur *Sclerotinia Libertiana* Fuck. et ex forma quadam in *Trifolio* oritur *Sclerotinia Trifoliorum* Erikss.

144. **Sclerotium convexum** Schw. Syn. N. A. F. n. 2451. — 4705 Majusculum, convexum, ovatum, difforme, applanato-depressum, nigro-fuscum, interdum confluens. 4 mm. latum et longum, superficie quasi subconcentricè rugosa, intus ex albedo-cinereum.

Hab. in nodis caulis Angelicæ lucidæ, Bethlehem Amerbor. — Affine *S. duro* sed non tectum,

145. **Sclerotium durum** Pers. syn. p. 121. A. S. p. 74. DC. Mem. l. 4706 c. p. 415, t. 14, f. 3. Höll. et Schmidt exs. n. 10, Fries exs. n. 218. *Scl. minutum* Desm. Exs. n. 80. *Sph. tuberosa* Sowerb. fung. t. 393, f. 2 (Sec. Kl. etiam *Sphaeria solida* Sow. nuc spectat.) — Adnatum, oblongum, subdifforme, depressum, substriatum, nigrum, intus albidum; tuberculis duris, difformibus. 4-6 mm. sed etiam 12 mm. et ultra longis latisque, primo epidermide tectis, dein nudis, quibus nil vulgatus.

Hab. ad caules fractusque plantarum exsiccatarum, præcipue Umbelliferarum, Ricini, Tanacetæ, Erigerontis, Dahlia. Lactuæ Lupini, Daturæ, Dipsaci, Hyacinthi,

Scillæ, Iridum etc. ubique et in *Epilobio angustifolio* (forma fusca) hieme, vere, in Germania, Gallia, Britannia, Italia, Lusitania, Suecia. — Ex hoc *Sclerotio* gignitur, sec. auct., *Botrytis cinerea*.

146. **Sclerotium varium** Pers. syn. p. 122. Reb. Neom. p. 361. t. 4, 4707
f. 16, A. S. p. 75. DC. Mem. l. c. p. 315. Nees Syst. f. 138. B, Fr. S. M. II, p. 257, *Elvela Brassicæ* Hoffm. Veg. crypt. II, p. 18, t. V, f. 2. *Scl. ovatum* Schum. p. 185, (ad n. 141 accedit.) — Subrotundum oblongumque, varium, subadnatum, rugosum, album, fuscescens, demum nigrum, gregarium, confluens, oblongum, reniforme, gyrosum, sublobatum, magnitudine varium, 10-20 mm. latum, sæpius vero multo minus.

Hab. ad caules et nervos foliorum Brassicæ, rarius Helianthi, Dauci, Ricini in Germania, Gallia, Italia, Lusitania et in America. Cum *Sclerotio Semine*, ut plurimi fecere, non confundendum. Media ætate non fulvum, sed e pallide virente fuscescens. Ex hoc oritur *Sclerotinia Libertiana*. Singulari errore tam hoc quam *S. Semen* pro vero Brassicæ semine veteres habuerunt. Cfr. Fr. l. c.

147. **Sclerotium Orobanches** Schwein. l. c. n. 322, Fr. S. M. II, 4708
p. 257, Elench. II, p. 44. — Oblongum, contortum, lobatum, rugulosum, atrum, intus candidum, gregarium, subadnatum, sed facile secedens, teres, maxime difforme, interdum, præcipue in caule, simplex, sæpius confluens, varie lobatum, interdum reticulatim anastomosans, tenax, durissimum.

Hab. frequens ad radices et caules *Orobanches majoris* in Scania et Germania, et *Orobanches virginicæ* in America boreali.

148. **Sclerotium leiodermum** Rob. ap. Desm., West. Prod. p. 27. — 4709
Adnatum, laxè gregarium, perexiguum, rotundum v. ovatum, confluens, nigrum, leve, lucidum, intus album.

Hab. in caule *Rumicis* et *Polygoni Persicariæ* in Gallia et Belgio — An status *Erythoræ Rumicis* Karst.?

149. **Sclerotium Stellarisæ** Fuck. Symb. p. 405. — Innatum, subrotundum ovatumve, pulcherrime reticulato-venosum, fuscum, dein nigrum, intus paullo pallidius, seminis *Papaveris* magnitudine. 4710

Hab. intra caulem putrem *Stellarisæ mediæ*, primo vere, pr. Oestrich Rhenogoviæ.

150. **Sclerotium compositum** Fungh. Fl. crypt. Jav. p. 25. — Horizontale, applanatum, alutaceum, e tuberculis pluribus (10-20) glo-

bosis compositum, 4-6 mm. lat., basi ligno adnatum, sed facile separabile, contextu vesiculoso.

Hab. in trunco duro pr. Magelan in insula Java.

151. **Sclerotium difforme** Schw. Syn. N. A. F. N. 2452. — Diffor- 4712
 miter elongatum, primum tectum, confluens, durum, 2-3 cm. longi-
 tudine, satis elevatum, demum superficie undulata et striata, ni-
 gro-fuscum aut nigro-cinereum; intus candidum.

Hab. in ramulis junioribus et stipitibus putridis, Bethlehem Amer. bor. — Specimina minora 2-4 mm. diametro sæpe elongato-ovato valde convexa.

152. **Sclerotium pirinum** Fr S. M. II, p. 258. *Tremella ustulata* Bull. 4713
 Ch. p. 221, t. 420, f. 2. ex habitu et loco. *Scl. varium* b. A. S. p. 627. (Hic vero apud Schwægr. l. c. *Tr. ustulatam* ut diversam enumerat). — Oblongum, flexuosum, lobatum, molle, nigricans, intus pallidum, *Scl. vario* nimis affine, sed magis innato-adnatum mollius, subcontortum etc.

Hab. in pomis vetustis Mali, Rosæ, Limonibus in Germania, Gallia, Suecia, hieme, vere. — Ex hac forma sæpe oriuntur *Penicillii* et *Coremii* species.

153. **Sclerotium Uvæ** Desm. Ann. Sc. naturell. 1841, p. 134. — 4714
 Subadnatum, rotundum, gregarium, confluens, album, fuscescens, demum nigrum, rugulosum, intus griseum.

Hab. in baccis putrescentibus *Vitis viniferæ* (*raisin bleu*) in Gallia. — Villo albo ætate evanescenti obtectum. Satis diversum a *S. pirino* et ejus var. *fructuum* Grev.

154. **Sclerotium Æsculi** Schw. Syn. N. A. F. n. 2455. — Erumpens, 4715
 nunquam tectum, ex epidermide matricis frustulatim decedente, deorsum ab epidermide cinctum, globoso-difforme, subapplanatum, nigrum, superficie ruguloso-plicata, intus simile album.

Hab. in capsulis putridis *Æsculi glabræ*, Bethlehem Amer. bor. — Ætate fere liberum fit, tantum basi affixum, magnitudine 2 mm.

155. **Sclerotium Desmodii** Thüm. Myc. univ. n. 1098 et Fungi Am. 4716
 trig. Sp. n. 30. — Hypophyllum vel caulicolum, crustas diversas, aut nervisequias lineares aut punctiformes aut majores, confluentes, suborbiculatas, opacas, parum elevatas, subrugulosas, nigras formans; homogeneous.

Hab. ad folia viva *Desmodii rotundifolii*, Aicken Carol. austr. Amer. bor. (H. W. RAVENEL).

156. **Sclerotium Linnææ** Fries, Obs. I, p. 199, S. M. II, p. 260. — 4717

Petiolis immersum, lanceolatum, triquetrum, leve, nigrum, intus album, *Scl. Brassicæ* sat simile, 4-6 mm. longum, nervisequium.

Hab. in petiolis Linnææ in Sæcia.

157. **Sclerotium petiolorum** Schw. Syn. N. A. F. n. 2453. — Elongato-ovatum, fere innatum, primum epidermide tenui tectum, demum atronitens, superficie semper-depressum et inde quasi marginatum, subtuberculosum, 2-3 mm. vix excedens, intus fuscum grumosum.

Hab. in petiolis Rhois glabræ, Bethlehæm Amer. bor.

158. **Sclerotium Rubi** Carm. ap. Smith Fr. brit. V. p. 224, Berk. Outl. p. 410. — Tenellum, amphigenum, initio tectum, adnatum, ob folium subtus inflatum, simulate globoso-depressum, album, dein brunneum, denique nigrum punctato-rugosum, intus album.

Hab. in foliis Rubi fruticosi in Britannia.

159. **Sclerotium echinatum** Fuck F. Nass. p. 32. — Semiteres, elongatum, in foliorum nervis primariis adnatum, longitudinaliter striatum, atrum, aculeis sparsis, patentibus, longis, concoloribus exasperatum, intus sordide album, 12 mm. long., $\frac{1}{2}$ -2 mm. lat.

Hab. in foliis Vitis viniferæ, in quibus *Botrytem* et *Sclerotiniam Fuckelianam* generat, in Germania.

160. **Sclerotium nervale** (A. et S.) Fr. S. M. II, p. 260, *Xyloma nervale* A. S. p. 64, t. 7, f. 7. — Nervisequium. semiteres, lineariter elongatum, crassiusculum, subrugosum, nigrum, intus album, 20-40 mm. fere longum, 2 mm. crassum, durum, hypophyllum, nervos principales ramosque præcipuos occupans.

Hab. ad folia dejecta Betulæ, Alni, Fraxini, Pruni variarumque arborum, vere in Germania et Suecia. — Probabiliter ex hoc *Sclerotio* oritur *Sclerotinia nervisequia* Schröt.

161. **Sclerotium Pustula** DC. Mem. l. c. p. 417, t. 14, f. 7, Fr. S. M. II, p. 260, *Scl. quercinum* Pers. syn. p. 124, Ic. pict. 3, p. 42, t. 17, f. 2, A. S. p. 76, Schum. Sall. 2, p. 185. — Hypophyllum, hemisphæricum, prominens, rugulosum, nigrescens, intus corneum album, sparsum, durum, 3-4 mm. latum, subinde duo confluent; forma rotunda. ovata, ellipsoidea; juvenile leve, sordide pallidum.

Hab. ad folia Quercus, Fagi, Carpini, Castaneæ, Piri, Juglandis etc. in Suecia, Germania, Gallia, Italia, Belgio. — Sec. auctores varios ex hoc *Sclerotio* nascitur tam *Sclerotinia Candolleana* quam *Typhula sclerotoides*, sed evidenter de *Sclerotii* speciebus diversis agitur.

162. **Sclerotium ? speireum** Fr. S. M. II, p. 261, *Sph. speirea* Fries

Obs. I, p. 185. — Hypophyllum, sparsum, punctiforme, orbiculatum, planiusculum, opacum, nigrum, superficiale, adnatum, folio subimpressum; dubii generis vegetabile.

Hab. frequens in diversissimis plantis vivis et languescentibus, in foliis Rosæ caninæ, Ægopodii Podagrariæ etc. auctumno in Suecia et Germania. — Cfr. Syll. III, p. 693, n. 3653.

163. **Sclerotium neglectum** Berk. Outl. p. 410, Desm. Ann. Sc. nat. 4724
1842, p. 101. — Adnatum, nervisequium, oblongum, obtusum, convexum, primo rufo-spadiceum, subtranslucens, demum brunneo-nigrum, rugulosum, intus album, firmum, vix 2 mm. long.

Hab. in foliis emortuis Quercus, Fagi, Acerum in Britannia, Gallia, hieme.

164. **Sclerotium Renovii** Roberge in Desm. Crypt. ed. III, fasc. XII, 4725
n. 566 (1858) et Roum. F. Gall. n. 1889. — Hypophyllum, rarius amphigenum; tuberculis nervisequiis, raro sparsis, adnatis, hemisphæricis v. oblongis, levibus, siccis rugulosis, nigricantibus, subcorneis, 1-3 mm. longis, vix 1 mm. lat., intus griseo-albicantibus.

Hab. in foliis emortuis Populi virginianæ in Gallia bor. (Le ROUY, F. RENOU). — Inter *Tcl. maculare* v. *innocuum* et *Scl. neglectum* fere medium.

165. **Sclerotium crustuliforme** Desm. Ann. Sc. nat. 1848, X, p. 346. — 4726
Tectum, minutum, ovatum, v. ellipticum, applanatum, siccum rugulosum, primo pallidum, demum brunneo-castaneum, intus album.

Hab. ad petiolos foliorum Fraxini, Aceris Negundinis in Gallia bor. — Majora tubercula 1½ mm. longa, 1 mm. cr. Ex hoc oritur *Typhula erythropus* Pers. (*Bail, Tul.*). — Var. **Iridis** West. ap. Kickx Fl. crypt. II, p. 469. Minus, liberum sed subcutaneum, applanatum, orbiculare dein ovato-ellipticum, rugosum, pallidum dein castaneum, intus album. Inter fibras caulium et foliorum putrescentium *Iridis germanicæ* in Belgio.

166. **Sclerotium Fuckellii** Sacc. et Syd. *Scler. elongatum* Fuck. Symb. 4727
mycol. p. 404, nec Chev. — Superficiale, adnatum, elongato-ellipticum, rugulosum, fuscum, intus album.

Hab. in costis foliorum putrescentium Quercus et Populi, rarius, pr. Hattenheim in Rhenogevia.

167. **Sclerotium bifrons** Ell. et Ev. N. A. F. n. 2554 (absque dia- 4728
gnosi). — Stromatibus sparsis, amphigeno-bifrontibus, discoideis, latis, purpureo-nigris, tenuiter rugulosis, 4-6 mm. diam., intus albedo-roseis, tandem excisis et foramina in foliis relinquentibus.

Hab. in foliis dejectis Populi, London Canada 1890 (DEARNESS).

168. **Sclerotium Carpini** West. Nouv. not. crypt. Belg. (1852) p. 19. 4729
 — Pustulis hypophyllis, rotundatis v. inæqualibus, sparsis v. confluentibus, applanatis, atro-nitidis, leviter rugosis, areola brunneola cinetis, $\frac{1}{4}$ -2 mm. diam.; carne alba. tenui.

Hab. in foliis vivis Carpini pr. Mons Belgii (DUMONT). — An stroma sterile *Mamianicæ fimbriatæ*?

169. **Sclerotium dothideoides** Speg. F. Pat. n. 194 (1887). — Stro- 4730
 matibus lenticularibus, parenchymate foliorum innatis ad epiphyllum discoideo-convexulis, 0,5 mm. diam., atris levissimis, subnitentibus, ad hypophyllum non v. vix erumpenti-prominulis, intus albis compacto-subcorneis, homogeneis.

Hab. vulgatissimum ad folia dejecta putrescentia Berberidis buxifoliæ et B. heterophyllæ prope P. Arenas Patagoniæ, Jul. 1882.

170. **Sclerotium Spegazzinii** Sacc. et Syd. *Sclerotium mirabile* Speg. 4731
 F. Puigg. I (1889) p. 244, nec Speg. (1882). — Epiphyllum, conoideum, majusculum, extus atrum opacum, intus album sublignosum.

Hab. ad folia viva Laurinææ cujusdam in silvis prope Apiahy, Brasilæ auct. 1881. — Statum quiescentem *Dothideaceæ* cujusdam sine dubio sistens, sæpius conoideum, 10 mm. alt., 8-9 mm. lat. bas., basi late matrici innato-adnatum, rarius versiforme; contextus carnis fibrosus, ex hyphis crassis, 5-8 μ . crs., dense ramoso-intertextis, tenuissime canaliculatis, hyalinis efformatus.

171. **Sclerotium ochroleucum** Dur. et Mont. Fl. Alg. I, p. 442. — 4732
 Hypophyllum, globoso-depressum, minutum, glabrum, leve, flavum, intus corneum, niveum.

Hab. in foliis Ceratonie Siliquæ et Rhamni Alaterni in Algeria, vere (DURIEU). — Sparsum, raro confluens, adnatum, semine *Sinapeos* vix majus, passim usque 0,5 mm. diam.; structura cellulosa, cellulis centralibus e rotundo polyhedris magnis, periphericis minoribus, coloratis. Affine *Scl. vulgato*.

172. **Sclerotium erumpens** Schw. Syn. N. A. F. n. 2456. — Primum 4733
 punctiforme subimmersum, tum erumpens folio cinctum, disco subimpresso, fulvo-nigricans, demum subexpansum, nigrum, corrugatum, tenue, disco manifestius impresso, confluens, applanatum, tamen vix magnitudine 2-3 mm. excedens.

Hab. in aversa pag. foliorum Quercus, Bethlehem Amer. bor.

173. **Sclerotium Prunorum** Schw. Syn. N. A. F. n. 2464. — Sistens 4734
 maculas diffformes, confluentes, fuscas, subeffiguratas in pagina su-

periori; in aversa pustulis subrotundis elevatis, semipellucidis, luteo-fuscis, siccitate subcorneis, corrugulatis, 1 mm. lat., pluribus aggregatis in eadem macula, cinctis margine spurio subelevato, ex substantia folii.

Hab. in foliis Pruni serotinæ et virginicæ dejectis, Bethlehem Amer. bor.

174. **Sclerotium Platani** Schw. Syn. N. A. F. n. 2458. — Innatum, 4735
aggregato-cæspitosum, minutum, varium, tuberculosum, e fusco
nigrum.

Hab. in foliis Platani, Bethlehem Amer. bor.

175. **Sclerotium frustulatum** Schw. Syn. N. A. F. n. 2463. — Im- 4736
presso-innatum, primum tectum, in aversa pagina situm, maculare,
nigrum, demum frustulatum ruptum, intus fuscescens, varie con-
fluens, sæpe excedens 4 mm. diam. —

Hab. in foliis quercinis, Bethlehem Amer. bor. — Dubii
generis.

176. **Sclerotium lauricolom** Schw. Syn. N. A. F. n. 2462. — In 4737
petiolis et nervo, nigrum, subtectum, innatum, minutum, regulare,
subrotundum, superficie punctulata, intus albido-fuscum, in foliis
ipsis nigro-fuscescens, maculatim effusum tenuissimum, ad dia-
metrum, 4 mm. extensum.

Hab. frequens in foliis dejectis Lauri æstivalis, Bethlehem
Amer. bor.

177. **Sclerotium fusco-maculans** Schw. Syn. N. A. F. n. 2461. — In- 4738
natum, maculis brunneo-fuscis, difformibus, ad 6 mm. longas et
latas subeffiguratum, demum pustulas elevatiores, nigro-fuscas,
subcorrugatas, 1 mm. diam. efficiens.

Hab. in foliis Lauri Sassafras ad pag. inf., Bethlehem Ame-
ricæ bor.

178. **Sclerotium Sassafras** Schw. Syn. N. A. F. n. 2459. — In- 4739
nato-insidens, aggregatum in macula, angulatum, difforme aut or-
biculatum, semper depressum et quasi marginatum, superficie ru-
gulosa, fusca, demum nigra.

Hab. in foliis Lauri Sassafras, Bethlehem Amer. bor.

179. **Sclerotium Convallariæ** Lib. in Herb. et Rev. Myc. II, p. 23. 4740
— Erumpens, minutum, rotundum vel oblongum, nervisequum,
planiusculum; corrugato-muricatum, nigrum. intus album.

Hab. in foliis delapsis Convallariæ verticillatæ, prope
Malmedy Belgii, auctumno.

180. **Sclerotium Punctum** (Chev.) Lib. Exs. 37, *Xyloma Punctum* 4741

Chev. Paris. pag. 451. — Amphigenum, sparsum, punctiforme, rotundum, applanatum, nitidum, subrugosum, nigrum, intus fuscum.

Hab. in foliis Convallariæ Polygonati C. multifloræ et C. verticillatæ, in Arduennis et in Rhenogovia, autumnò.
181. **Sclerotium Tulipæ** Lib. Crypt. Ard. n. 36, Corda Ic. III, t. 3, 4742
f. 52, Rehm, Disc. p. 820, *Sclerotium entogenum* West. Herb. crypt. Belg. n. 827, *Scl. Tulipæ* Weinm. Hym. Ross. p. 647 videtur idem. — Sparsum, adnatum, parvum, ovale, pallide fuscum, leve, demum nigrum, rugosum, intus album.

Hab. in foliis, caulibus, capsulis Tulipæ Gesnerianæ cultæ in Gallia, Italia, Germania. — Sec. Kickx est forma minor *Scl. duri*. — Var. **Hyacinthi** Guép. ap. Duby Bot. Gall. II, p. 874 (ut spec.). Lenticulare, ovato-oblongum, minutum, convexiusculum, sparsum, tenue, nigrum, subrugulosum, intus album. Ad scapos et capsulas Hyacinthi, Scillæ, Allii vinealis, Amaryllidis in Gallia et Belgio. — E typo oritur *Botrytis parasitica* Cav.

182. **Sclerotium Liliorum** Schw. Syn. N. A. F. n. 2448. — Epidermide 4743
tenui primum tectum, varium et oblongum, crassiusculum, applanatum, nigrum, demum nigro-striatum, abbreviatum et utrinque subacuminatum, intus album.

Hab. in exoletis caulibus Liliorum, Salem et Bethlehem Amer. bor.

183. **Sclerotium Caladii** Schw. Car. n. 316. — Epiphyllum, puncti- 4744
forme, oblongo-rotundatum, nigrum, nitidum, supra planum, intus album, agmine denso, sed situ sparso occurrit, vix unquam confluens, subinnatum, leve, nitens, passim centro depressum.

Hab. in foliis, præsertim autem in tegumento capsularum putrido Caladii sagittæfolii, Carolina.

184. **Sclerotium circumscriptum** Fr. Elench. II, p. 44. — Immerso- 4745
innatum, depressum, intus album, linea circumscripta atra a matrice limitatum, oblongum, ab omnibus dignoscitur vegetatione non tantum innata, sed et immersa et substantia cum matrice prorsus connata (nullo modo separabili), tantum linea nigra distinctum. superne epidermide tectum, cymbiformi-depressum.

Hab. in foliis Yuccæ in Rossia (WEINMANN).

185. **Sclerotium variegatum** Wallr. Crypt. n. 1413, *Sclerotium Maydis* 4746
Dub. gall. II, 872. — Stromate ovato-subglobose adnato dein elongato, ruguloso, ex albo nigroque variegato, intus corneo albo.

Hab. ad rhachidem Zeæ Maydis, in Gallia et Thuringia.

186. **Sclerotium Lycopodii** Fr. S. M. II, p. 257. — Oblongum, rectum, 4747
latere interiori impresso subadnatum, rugosum, atrum, intus candidum, ferme liberum, semper regulare, rectum, utrinque obtusum, teres, latere interiori tantum leviter adnatum, 2-3,5 mm. longum, valde durum.
Hab. in alis foliorum Lycopodii annotini adhuc vivi in Alpibus Norvegicis, auctumno (SCHUBERT).

Species inquirendæ.

187. **Sclerotium purpureum** Tod. l. c. p. 2, t. 1, f. 2. Pers. l. c. DG. 4748
l. c. — Sparsum, ovale, erectum, glaberrimum, purpureum.
Hab. in ramulo quercino, martio in Germania.
188. **Sclerotium lætum** Ehrenb. silv. Ber. p. 27, f. 2. Fr. S. M. II, 4749
p. 264. — Capitulo subrotundo, sæpe geminato, læte rubro, in stipitem albidum, brevem abeunte.
Hab. in caule herbæ in Germania. — An *Pistillaria micans*?
189. **Sclerotium globulare** DC. Mem. p. 418, Fr. S. M. II, p. 264. 4750
— Globulosum, nigrum, nitidum, subdurum, carne gelatinosa flavida.
Hab. lignis putridis immersum. — An *Agyrii* spec.?
190. **Sclerotium Mucor** Tod. l. c. p. 5, t. 1, f. 7. Dec. l. c. — Ag- 4751
gregatum, minimum, ellipticum, decumbens.
Hab. in fungis, aug. in Germania. — *a. fungorum*, sistens maculas albas, senescentes cinereas. — *b. lignorum*, fulvum, fuscescens, intus album. Affine *Sc. stipato*. In festucis et lignis, aprili.
191. **Sclerotium acerinum** A. S. p. 77, DC. l. c. — Sessile, appla- 4752
natum, disciforme, sordide nigrum.
Hab. hypophyllum in foliis Aceris, in Germania et Gallia.
192. **Sclerotium epixylon** Pers. apud, Fr. Blench. II, p. 45, *Xylocha-* 4753
ras Fr. Summ. p. 476. — Ligno applanatum, sed superficiale (non adnatum) 12 mm. lat., plano-depressum, obtuse lobatum, opacum, atrum, inæquabile, intus sordide album, at contextu floccoso (hinc hujus generis esse nequit).
Hab. ad ligna vetusta decorticata quercina in Gallia (ΜΟΥΚΡΟΤ).
193. **Sclerotium aurantiaco-fuscum** Rabenh. in Kl. Herb. myc. n. 936, 4754
Bot. Zeit. 1846, p. 435 (nomen).
Hab. in agro Dresdensi (FIEDLER).
194. **Sclerotium aurantiacum** Lasch in Kl. Herb. myc. n. 1234, Bot. 4755
Zeit. 1849 p. 293 (nomen).

- Hab.* ad Hypnum Schreberi in agro Driesen Germaniæ.
195. **Sclerotium Selaginellæ** Peyl, Lotos 1857, p. 68, t. II, f. 14. 4756
Hab. ad Selaginellam in Bohemia orient.
196. **Sclerotium Pruni** Opiz, Seznam. p. 141. 4757
Hab. ad Prunos agro Pragensi.
197. **Sclerotium granulatam** Peyl, Lotos 1857, p. 67, t. II, f. 12. 4758
Hab. in Bohemia orient.
198. **Sclerotium Erythrinæ** Peyl, Lotos 1857, p. 29, t. I, f. 7. 4759
Hab. in Erythrina Bohemia or.
199. **Sclerotium Yuccæ** Roum. F. exs. Gall. n. 1637, Rev. myc. 1881, 4760
n. 12, p. 7 (absque diagn.).
Hab. ad Yuccam in Gallia.
200. **Sclerotium Astragali** Roum. F. exs. Gall. n. 2179, Rev. myc. 4761
1882, p. 157 (absque diagnosi).
Hab. in leguminibus Astragali glycyphylli, præcipue ad septum, in Gallia (GALLET, FEUILLEAUBOIS).
201. **Sclerotium nervorum** Schnizl. Icon. fam. plant. t. XIV, f. 13-16. 4762
Hab. ad nervos foliorum.
202. **Sclerotium irritans** H. Mayr, Die Wald. v. N. Amer. Münch. 4763
1890.
Hab. in Chamæcyperi sphaeroidea in Amer. bor.
203. **Sclerotium confluens** Mérat Fl. Paris p. 131. 4764
Hab. in agro Parisiensi.
204. **Sclerotium figuratum** Fr. Sc. Suec. n. 338, Summa p. 479. 4765
Hab. in Suecia.
205. **Sclerotium medullare** Berk. Outl. p. 410 (nec Schw?). 4766
Hab. in Filicibus in Anglia. — Cfr. B. et Br. Not. of B. F. 14.
Sc. Egerita Hoffm., *album* DC., *granulatum et persicolor* Schum.
ad *Egeritas* pertinent. *Sc. resinosum* Schulz. non organicum. *Xyloma ferrugineum* Ejusd. gallæ species, e. s. p.

ACINULA Fries S. M. II, p. 267, Summa Veg. p. 477 (Etym. *acinus*)
— Globosa, arrhiza; cortice discreto, farinacco-granuloso, discolori,
diffluente, nucleum conformem vesiculoso-carnosum persistentem
includente. Libere evoluta, superficialis. — Genus habitu et vege-
tatione omnino *Sclerotii* v. *Periollæ*; sed cortice suo diffluente, nu-
cleum acini instar in bacca, unde nomen, includente distinctissi-
mus Species unica cognita minuta, subgregaria, epiphylla, ver-
nalis.

1. **Acinula candicans** Fr. l. c. p. 267, *Sclerotium vestitum* Nees ex 4767

litt. Weinm. — Sparsa, conferta, globosa, regularis, magnitudine capitis aciculæ majoris; cortice candido, sub lente ruguloso; nucleo conformi, fusco, intus pallido.

Hab. in horto cæsareo Pawlowskiensi ad folia putrida Alni in canaë inter nives liquescentes (WEINMANN), in Lapponia et Norvegia (SOMMERFELT).

RHIZOETONIA DC. Fl. fr. VI, p. 111 (Etym. *rhiza* radix et *ctoneo* occido), Tul. F. hypog. p. 188, *Tuberis* spec. Bull. Ch. p. 81, *Thanatophytum* Nees Syst. Myc. p. 148, 1817. — Difformis, varia, concreta, cartilagineo-carnosa, intus similis; cortice tenuissimo membranaceo inseparabili persistente; fibris radiciformibus, byssoidis, ex angulis fasciculatim emissis, plura individua conjungentibus. Fructificatio nulla perspicua. — Fungi subterranei, libere evoluti, super radices plantarum vivarum incumbentes easque enecantes, æstivales v. auctumnales, sat persistentes, valde noxii. Ad Sclerotia subterranea prope accedunt.

1. **Rhizoetonia violacea** Tul. Fungi Hypogæi p. 188, *Rh. Crocorum* 4768 DC.; *Rh. Medicaginis* DC.; *Rh. Asparagi* Fuck., *Rh. Solani* Kühn Krankh. d. G. p. 224, *Thanatophytum Crocorum* Nees; *Tuber Croci* Duby; *Sclerotium Crocorum* Pers.; *Tuber parasiticum* Bull. — Hymphis subterraneis, intra corticem et lignum serpentibus, in membranam vel in fasciculos irregulares coalitis, rarius in glomerulos varia magnitudine, perithecia ludentes, coactis, rubro-violaceis; fructificatione propria nulla.

Hab. in radicibus Crocorum, Medicaginum, Trifoliorum, Solani tuberosi, Asparagi, Citrorum etc., quas enecat, in Gallia, Italia, Helvetia, Germania etc. Variat colore rufescente in Croci, purpureo violaceo in Medicagine etc.

2. **Rhizoetonia Batatas** Fr. Elench. II, p. 45, Schw. Syn. N. A. F. 4769 n. 2396. — Testacea, torulosa, ex apicibus filamenta exserens.

Hab. ad terram ex corticibus corruptis, Bethlehem Amer. bor.

Affinis *Rh. violaceæ* sed abunde diversa. Forma varia. tuberibus pluribus concatenatis torulosa, quasi articulata, radicibus *Stach. palustris* similis, lanceolata, oblonga etc., 12-15 mm. attingens. Extus levis, glabra, testaceo-pallens, intus carnososa, alba, parce ramosa, ex apicibus egressa, primitus distincta et in tubera sensim turgescentia, demum evanescentia. Interdum refert tubera *Convolvuli Batate*.

3. **Rhizoetonia Placenta** Schw. Syn. N. A. F. n. 2399. — Fibrillis 4770

palmatim radiantibus, arachnoideis, passim membranaceo-connexis, usque 30 cm. expansis ex incarnato badio-rufis, ambitu candidis; tuberculis membranæ innatis, applanatis, placentiformibus, lobatis badio-rufis, e 3-5 mm. usque 25 mm. diam., intus albidis, cellulosis, 2-4 mm. cr., extus tomentellis.

Hab. sub cortice putridi trunci maximi latissime expansa, Bethlehem Amer. bor.

4. **Rhizoctonia radiceformis** Schw. Syn. N. A. F. n. 2397. — Tuberculis majusculis compresso-plicatis, valde difformibus, sæpe elongatis, pallide carneis, intus albis, 20-30 mm. long., interdum in minora secedentibus; fibris himantioideis, crassis, longe lateque sub cortice repentibus, tuberculis interpositis. 4771

Hab. in corticibus corruptis humi fuis, New York (TORREY), Bethlehem (SCHWEINITZ). — Rhizoma *Iridum* in mentem revocat. *Rhizoctonia Himantia* Schw. l. c. videtur ex ipso auctore status junior hujus speciei.

5. **Rhizoctonia aurantiaca** Ell. et Ev. Bull. Torr. 1884, p. 17. — Suborbicularis, applanata, 1 cm. diam. v. confluyendo 2 cm. et amplius, fibris pallidis parcis repentibus laxè affixa, extus rufo-hepatica, intus aurantiaca. 4772

Hab. sub cortice rami putrescentis *Aceris*, Newfield N. J. Amer. bor.

6. **Rhizoctonia moniliformis** Ell. et Ev. Bull. Torr. 1884, p. 17. — Flavido-alba tam extus quam intus, cylindræa, 3-5 mm. diam., constricto-moniliformis, plura cm. longa, ligno adhærens, articulis nunc connatis, nunc per filamenta alba junctis; substantia carnosæ, satis firma. 4773

Hab. sub cortice ramorum *Nyssæ*, Newfield N. J. Amer. bor.

7. **Rhizoctonia bicolor** Ellis N. Am. Fungi n. 977. 4774

Hab. sub cortice *Pini* emortuæ, Silver Lake pr. Vineland Amer. bor. (G. N. COPP). — Tubercula sinuoso-cerebrina, depressa, extus nigricantia, levia, 1-2 cm. lata, intus rubescentia.

8. **Rhizoctonia Brassicarum** Lib. Crypt. Ard. n. 240 (1834). — Tuberculis conglomeratis, subglobosis, albo-lutescentibus, 2-4 mm. diam., fibrillis ramosis, albis cinctis. 4775

Hab. ad radices *Brassicæ oleracæ* rubræ in Arduennis.

9. **Rhizoctonia Napi** West. ap. Kickx Fl. cr. Fl. II, p. 470. — Globulosa, confluens, tubercula 1-3 cm. diam. 3-5 mm. cr. formans, extus brunneo-nigricans et tomentosa, fibrillis fasciculatis, ramosis cincta, intus grosse cellulosa, flavo-aurea. 4776

Hab. in radicibus rapaceis Brassicæ Napi putridis, in cellis vinariis, Courtrai Belgii.

10. **Rhizoctonia Allii** Grav. in Duby Bot. Gall. II, p. 867, Tul. X, 477
hyp. p. 189. — Cinnabarina, filamentis albis tenuissimis subroticulatis.

Hab. in Allio ascalonico culto cir. Bellovacum Galliæ (GRAVES).

11. **Rhizoctonia Strobi** E. Scholz, Ein neuer Parasit der Weymouths- 4778
kiefer, Verhandl. zool.-bot. Gesellschaft, Wien 1897, p. 541 et
fig. I-VI. — Effusa, velutina, nigra, per rimas corticis erumpenti-
superficialis lignumque profunde penetrans; hyphis filiformibus,
ramoso-anastomosantibus fasciculatisque, singulis 2-5 μ . cr., nigri-
cantibus, crasse tunicatis; tuberculis sclerotioideis hinc inde sparsis
nitide nigricantibus, globoso-oblongis, aciculæ capitis magnitudine.

Hab. ad radices Pini Strobi cultæ, quam valde vexat, in agro Karstiensi.

ECTOSTROMA Fr. S. M. II, p. 601 (Etym. *ectos* extus et *stroma*).

— Maculæ epiphytæ, effusæ, absque propria substantia et vegeta-
tione. Maculæ foliis inustæ, ob habitum et synonyma hoc loco ci-
tandæ, verisimiliter e filamentis mycelicis brunneis endophyllis
procreatæ.

1. **Ectostroma Liriodendri** (Kunze) Fr. S. M. II, p. 602, *Xyloma* 4779
Kunz. in litt. Schwein. n. 290. — Maculis bifrontibus, subquadra-
tis, minoribus opacis atris.

Hab. in foliis Liriodendri Tulipiferæ in Germania, Gal-
lia, Italia, Austria, Belgio, Lusitania et Amer. bor.

2. **Ectostroma Quercus** Desm. in Ann. sc. natur. 1849, XI, p. 276. 4780
— Maculis minutis, bifrontibus, subrotundis v. irregularibus, nigro-
piceis, opacis.

Hab. in foliis vivis sublanguidisve Quercus Suberis aliar.
spec. in Gallia et pr. Coimbra (MOLLER).

3. **Ectostroma Tiliæ** Fries, Obs. 2 p. 359, S. M. II, p. 602. — Te- 4781
nuissimum, varium, opacum, e venis rugosum.

Hab. in foliis Tiliæ in Suecia.

4. **Ectostroma Lilacis** Chev. Fl. Paris. I, p. 447. — Innatum, juve- 4782
nile fibrilloso-asteroideum, nigro-fuscum, demum obscurius maculare.

Hab. in foliis Syringæ vulgaris in agro Parisiensi. — An
Asteroma?

5. **Ectostroma Oleæ** Cast. Suppl. Cat. pl. Mars. p. 90. — Epiphyll- 4783

lum, raro hypophyllum, nigrum, rotundum, maculiforme, numerosum, aequale, nec confluens.

Hab. in foliis emortuis et dejectis Oleæ europææ, pr. Marseille Galliæ. — Folium circa fungum albescit.

6. **Ectostroma Macluræ** Thuem. Contr. Myc. Lus. n. 230. — Pseudoperitheciis epiphyllis, numerosis, valde irregularibus, plano-convexulis, rugulosis, nitidis, primo aurantiacis, demum fuscis, postremo griseo-atris, subtus ochroleucis, e cellulis polyhedris ferrugineis composito; sporis nullis visis. 4784

Hab. in Macluræ aurantiacæ foliis vivis, Choupal pr. Coimbra (MOLLER).

7. **Ectostroma Magnoliæ** Thuem. Contr. myc. Lus. n. 455. — Stromate rhytismatiformi, orbiculato vel irregulari, elevato, concavo, aterrimo, nitido, numeroso, sparso, epiphyllis, sine macula, e cellulis subglobosis, fuscis composito; sporis.... 4785

Hab. in Magnoliæ obovatæ foliis vivis, Coimbra in horto botanico (MOLLER).

8. **Ectostroma Lauri** (Schleich.) Fr. S. M. II, pag. 602, *Xyloma* 4786
Schleich. in Fries Obs. 2, p. 359. — Maculis tenuissimis, levibus, nitidulis, medio mamillosis.

Hab. in foliis Lauri nobilis in Gallia, Lusitania, Helvetia, Italia, Austria, Belgio.

9. **Ectostroma Annonæ** (Schw.) Fr. S. M. II, p. 602, *Xyloma* Schwein. 4787
l. c. n. 275. — Maculis elongatis venisequiis, nigrofuscis, hypophyllis.

Hab. in Annona tripetala in Amer. bor.

10. **Ectostroma Corni** Cast. Suppl. Plant. Mars. p. 92. — Epiphyllum, macula magna nigra sæpe confluenta, plerumque orbiculari. 4788

Hab. in foliis Corni sanguinæ pr. Marseille Galliæ. — An maculæ *Septoriæ* sp.?

11. **Ectostroma Hederæ** Desm. Crypt. exs. n. 1454 et in Cast. Suppl. 4789
Pl. Mars. p. 90. — Epiphyllum, macula lata nigra undulata, subrotunda.

Hab. in foliis adhuc vivis Hederæ Helicis, pr. Marseille Galliæ.

12. **Ectostroma Robiniæ** Cast. Suppl. Pl. Mars. p. 90. — Epiphyllum, macula magna nigra distincta, indeterminata. 4790

Hab. in foliolis emortuis Robiniæ Pseudacaciæ, pr. Marseille Galliæ. — An maculæ *Septoriæ* sp.?

13. **Ectostroma Mulgedii** Thüm. M. U. n. 2098. — Densissime gre- 4791

garium, sæp confluens, caules longè lateque ambiens et nigrificans, atre nitidum; stromatibus depresso ellipsoideis, contextu fuligineo-fusuo, parenchymatico.

Hab. in caulibus vivis Mulgedii sibirici in Sibiria occid.
(MARTIANOFF).

14. **Ectostroma afflatum** (Schw.) Fr. S. M. II, pag. 602, *Xyloma* 4792
Schwein. l. c. n. 273. — Rotundatum, subeffiguratum, opacum,
nigrum, subtus cinereum.

Hab. in foliis Actææ racemosæ in Amer. bor. — E descriptione Phyllachora videtur.

15. **Ectostroma Ludix** (DC.) Fr. S. M. II, p. 602, *Xyloma* DC. Mem. 4793
l. c. p. 321. — Macula bifronti orbiculari, plana, supra nitidissima.

Hab. in foliis Ludix in ins. Mauritii.

16. **Ectostroma Bistortæ** (DC.) Fr. S. M. II, p. 602, *Xyloma* DC. 4794
Mem. Mus. III, p. 318, Fl. fr. 6, p. 153 (Moug. et Nestl. exs.
p. 652, Schmidt et Kunz. exs. n. 181). — Maculis luteis, irregularibus, opacis, nigris, in ambitu flavescens, panno tenuissimo cinerescens hinc inde tectis.

Hab. in Polygono Bistorta in Gallia et Germania. — Est stroma *Pseudopezizæ Bistortæ*.

17. **Ectostroma Sedi** Fr. S. M. II, p. 602, *Sp. thoracella* Rustr. Diss. 4795
Cr. Sel. Suec. exs. 217. — Maculæ difformes, piceæ, nitentes, punctatæ, pro *Phoma dicea* sterili facile sumendæ.

Hab. in caulibus Sedi Anacamperis etc. in Suecia, Gallia.
— Probabiliter mycelium seu stroma *Dothidellæ thoracellæ*.

18. **Ectostroma Pedicularis** (DC.) Fr. S. M. II, p. 602, *Xyloma* DC. 4796
Mem. l. c. p. 319. — Epiphyllum, tenue, orbiculatum, leve.

Hab. in foliis Pedicularis in Gallia.

19. **Ectostroma Iridis** (Ehrenb.) Fr. S. M. II, p. 602, *Leptostr.* Eh- 4797
renb. Silv. Ber. p. 27. — Maculis oblongis, aterrimis, opacis.

Hab. in foliis Iridis Pseudacori in Germania, Gallia, Belgio.

20. **Ectostroma Asphodeli** Fr. in litt. ad Mont. Cast. Suppl. Pl. 4798
Mars. p. 91. — Caulinum, late maculiforme, superficiale, nigrum,
margine incurvo rotundato; sporulis minutissimis (propriis?).

Hab. in caulibus emortuis Asphodeli fistulosi pr. Marseille et Crau Gallix.

Species nobis nomine tantum notæ.

21. **Ectostroma Iberidis** Kl. Herb. mycol. n. 866 (1846).

Hab. in foliis Iberidis in Germania (FIEDLER).

22. **Ectostroma Epilobii** Kirchn. Lotos, 1856, p. 203. 4800
Hab. in Epilobio in Bohemia merid.
23. **Ectostroma Plantaginis** Lasch in Kl. Herb. mycol. n. 1393 (1850). 4801
Hab. in Plantagine in agro Dresdensi.
24. **Ectostroma Bromi-erecti** Kirchn. Lotos, 1856, p. 204. 4802
Hab. in Bromo erecto in Bohemia merid.
25. **Ectostroma Polypori** Kirchn. Lotos, 1856, p. 203. 4803
Hab. in Polyporis in Bohemia merid.

RHIZOMORPHA Roth Cat. I. p. 231, Wallr. Crypt. II, p. 172 (Etym. *rhiza* radix et *morphe* forma) Cfr. Tul. F. hypog. p. 187 et Sel. fung. Carp. I, p. 119. — Rhabdi primum arachnoidei, nivei, sparsi, mucidi, dein in membranam v. in funiculos teretiusculos ramosos coacti, fusciscentes, tegmine crustaceo rigido obtecti, hinc inde varie inflati, repentes, adherentes v. subliberi. — *Rhiz. Sambuci* Chev. (circa medullam Sambuci nigrae), ut demonstravit cl. Oudemans, vasibus normalibus Sambuci nititur.

1. **Rhizomorpha subterranea** Pers. Syn. 705, Myc. I, 56, Eschw. 4804
 Fract. Rhiz. t. 1-9. *Rh. putealis* Pers. Myc. l. c., *Fibrillaria subterr.* Pers. l. c., *Rh. dichotoma* Sowerb. Ach., *Rh. spinosa* Ach., *Usnea radiceformis* Scop. *Lichen radiceif.* Humb. Frib. 34. — Rhabdis demum corticatis, teretiusculis, protensis, pennae corvinæ molem æquantibus, nigro-fuscis undique ramos patentes teretes tenuiores confertos liberos v. tentaculatos emittentibus, corpuscula sporangioida papillaria, stupam tortam dilutius fusciscentem demum proferentibus.

Hab. ad trabes fodinarum plurimarum, nec non ad quos circumcirca sæpe amplectitur in Germania, Gallia, Italia. Mole, expansione et ramorum dispositione eximie varians.

2. **Rhizomorpha divergens** Grev. Cr. t. 154. *Rh. flicina* Rehent. Neom. 4805
 ind. berol., *Rh. palmata* et *flabelliformis* Pers. Myc., *Rh. variegata* Sowerb. — Rhabdis demum corticatis, ramosissimis, teretibus, spadiceo-fuscis, ramis divaricatis in ramulos subpalmatos desinentibus corpusculaque sporangioida clavata exserentibus.

Hab. sub cortice Pinuum in Germania, Britannia.

3. **Rhizomorpha subcorticalis** Pers. Syn. 704., Myc. I, 54. *Rh. fragilis* Roth l. c. Dub. Gall. II, 867, *Rh. scandens* Rehent. Neom. 4806
 321, Pers. Myc., *Rh. Harrimanni* Pers. Ach., *Rh. corticata* Friesii et *corrugata* Ach., teste Spr. *Lichen aidaelus* Humb. Frib. 33. *Clavaria phosphorea* Sowerb., Mich. gen. t. 66, f. 3. Flor. dan. t. 713.

— Rhabdis demum corticatis, compressis, fuscis, nonnisi in membranam taniatam, e latere fibrillas transversales tentaculatas exserentem expansis, inter corticem et laburnum invalescentibus, hinc corpuscula sporangioidea conica exserentibus.

Hab. sub cortice arborum putrescentium variarum, Salicum, Betulæ, Quercus, Fagi etc. in Germania, Gallia, Italia, Sibiria, Belgio. — Duplices, more præcedentium, agnoscere solet varietates, alteram taniatam, rhabdis hinc inde membranaceo-taniatis latescentibus; alteram virgatam, rhabdis cylindricis omnibus conformibus (*Rh. fragilis* μ . *teres* Dub. l. c. *Rh. scandens* Pers.). *Rh. vestita* Rehent. est ejusdem monstrum bysso obductum. Librum arboreum in organismum distinctum inversum, ex cambii secretionem mala et intempestiva hæc vegetabilia præstare, Martius statuit. — var. *applanata* Thüm. Pilzfr. Sibir. n. 643. Rhabdis corticatis, adpresso-adnatis, late adplicitis, ramosissimis, ramis multifurcatis, fuscis. Sub cortice emortuo Betulæ verrucosæ in silvis pr. Minussinsk Sibiricæ.

4. **Rhizomorpha fusca** Pers. in Moug. et Nestl. Vog. n. 558, Duby, 4807 Bot. Gall. p. 869. — Rufo-badia, nitida, flaccida, compressa, ramoso-intertexta, ramis extremis dilatatis membranaceis pallidis, inferis in massam informem confluentibus,

Hab. in officinis coriariis sub aqua (*de bassement*) in Gallia et Germania. — Vera *Rhizomorpha*, nec radix Solani, ut autumaverat Fries.

5. **Rhizomorpha chordalis** Ach. in Act. holm. 1814. Spr. syst. l. l. *Rh.* 4808 *imperialis* Sowerb., *Rh. obstruens* Pers., *Rh. laxa* et *simplex* Rehent., teste Spr. — Fusca, simplex, filiformis, longissima, flexuosa, intus alba.

Hab. ad cortices siphonum putres in cryptis thermarum et aquæductibus in Germania, Gallia.

6. **Rhizomorpha verticillata** Ach. Lich. Univ. p. 590, *Rh. Humboldtii* 4809 Wallr. Fl. crypt. n. 1542, *Rh. Achariana* Fr. Spr. l. c.; *Rh. pinnata* et *crinalis* Pers. Myc., *Lichen pinnatus et verticillatus* Humb. — Filiformis, levis, opaca, fusco-nigrescens, intus rufa, simpliciter pinnata, ramis horizontalibus distichis, apice penicillatis.

Hab. sub arborum cortice nec non in fodinis in Germania.

7. **Rhizomorpha velutina** Thüm. ap. Voss, Mat. Pilzkunde Krains, 4810 II, p. 43. — Ramosa, teres, modo ad ramorum apices paululum dilatato-applanata, villosa-velutina, pulvere ochraceo-fulva, verrucis solitariis majusculis ornata, intus homogæna, isabellina.

Hab. in fodinis ad ligna, Sagor Carnioliae.

8. **Rhizomorpha trichophora** Desm. XIV Not. Crypt. p. 14. — Cae- 4811
spitosa, compacta, 60 cm. et amplius longa, filamentis hinc inde
inflatissimis; inflationibus passim siliquiformibus, usque 7 cm. long., 1
cm. cr., velutinis, griseis, saepe violaceo-fuscis v. rufescentibus, axi
interiore floccoso, albo.

Hab. ad lignum intra puteum tectum, Lille Galliae.

9. **Rhizomorpha Cinchonarum** Roth, Cat. bot. I, p. 254 et in Usteri 4812
Ann. bot. I, p. 8, t. I, f. 3. — Fibrillis compressis, fuscis, pu-
bescentibus, fistulosis, ramosissimis anastomosantibus.

Hab. sub epidermide corticis ramorum putrescentium Cin-
chonae in America, rara.

10. **Rhizomorpha ochreate** Ach. Syn. Lich. p. 391. — Filiformis, te- 4813
retiuscula, ferrugineo-nigra, flexuoso-implexa e nodulis vaginife-
ris prolificans subramosaque 16-20 cm. longa, setae equinae crass.

Hab. ad truncos (?) in Carolina, Georgia (THUNBERG). — Re-
cens ab equis et ovilibus comeditur.

11. **Rhizomorpha Crinum** Fée Ess. crypt. écorces off. p. 23. — Fi- 4814
bris teretiusculis, aterrimis, attenuatis, simplicibus, rigidis, glabris,
sublucentibus.

Hab. in fissuris corticis Cinchonae cordifoliae, rara.

12. **Rhizomorpha criniformis** Pers. M. E. I, p. 57. — Ramosissima, 4815
intertexta, caespitosa, fibrillis tenuibus, teretibus, hinc inde aspe-
rulis.

Hab. profunde in fodina Dorothea Hercyniae. — Crinem equi-
num quoad colorem et dimensiones refert.

13. **Rhizomorpha aquaeductuum** Thm. F. austr. n. 1198. — Colore fu- 4816
sco-nigra, longissima ad 30 usque 60 long., filiformis, simplex,
raro ramosa, saepe tuberculata, strato medullari albido.

Hab. in aquaeductu pr. Schottwien Austriae, aut 1874 (J.
WALLNER).

14. **Rhizomorpha fontigena** Rabent. Neom. n. 1359, t. IV, f. 19, *Rh.* 4817
Stokesii Sow. — Fibrosa, applanata, sordide rubescens, basi con-
fluens, sursum dilatata et furcato-ramosa.

Hab. in aquaeductibus ligneis putrescentibus in Germania et
Britannia.

15. **Rhizomorpha Tilletii** Desm. ap. Kickx Fl. cr. Fl. II, p. 464. — 4818
Filamentis in sicco plus minus angulosis, gracilibus, 4-5 cm. lon-
gis, brunneis v. brunneo-rufis, intus albis, compactis, pluries ir-
regulariter ramosis, ramis ultimis fibrilliformibus.

Hab. intra arborem cavam Salicis (?) pr. Gand Belgii et in Gallia.

16. **Rhizomorpha molinaris** Pers. M. E. I, p. 56. — Flexilis, levis, 4819
subnitida, teretiuscula, ramosa, ramulis praesertim superioribus op-
positis verticillatisque passim fasciculatis, fibrillis subintertextis.

Hab. ad palos humidos molas chartaceas sustentantes in Vo-
gesis (MOUGEOT).

17. **Rhizomorpha byssoidea** DC. Fl. fr. V, p. 116. — Tenuis, bys- 4820
soidea, subteres, junior albida, demum fusco-nigra, ramosissima,
apicibus acutis, divaricatis, albescentibus.

Hab. ad trabes in cryptis in Gallia.

18. **Rhizomorpha intestina** DC. Fl. fr. V, p. 115. — Tenuissima, com- 4821
pressa, serpentina, nigra, hinc inde tubercula lateralia subaggre-
gata gerens.

Hab. inter strata lignea annosarum Quercuum in Gallia.

19. **Rhizomorpha thermalis** Kalchbr. Adatok a Szep. Viran. p. 248. 4822
— Ramosissima, ramis teretibus strictis pinnatis, bipinnatisve, gla-
bris, roseis (semper?)

Hab. in thermis in Hungaria.

20. **Rhizomorpha murorum** Thüm. Fungi Bayr. — Colore fusca, stro- 4823
mate filiformi, adnato, ramoso, strato medullari pallide griseo.

Hab. in parietibus muralibus, Hofgarten Beyreuth.

21. **Rhizomorpha canicularis** Hoffm. Veg. Herc. subterr. p. 34, t. 18, 4824
f. 2. — Ramosa, teres, flexuosa, spinuloso-rugosa, ex cinereo ni-
gra, flagellis longissimis, ramis verticillatis, radicanibus.

Hab. in fodinarum canalibus ligneis tabulis et asseribus aquam
deducentibus, longissime protracta, in Hercinia. — Pennæ anse-
rinæ crassitie, intus fibrosa, alba.

22. **Rhizomorpha cornicularioides** Ach. Syn. Lich. p. 290. — Ra- 4825
mosa, ramis teretiusculis, flexuosis, complicatis, vage ramulosis,
atris, opacis, tenerrimis.

Hab. ad terram (?) in Amer. sept. — Similis *Cornicularia la-*
nata sed habitus *Rhizomorphae*.

23. **Rhizomorpha Formicarum** Spég. Fungi Argentini, 1899, p. 352. 4826
— Sparsa, cinerea, filiformis, simplex, velutina, apice acutiuscula,
alba.

Hab. in ramentis fermentescentibus nidorum formicæ Atta
Lundi, Buenos Ayres et La Plata Argentinae. — Filamenta 50-
150 mm. long., 1-2,5 mm. cr.; pili patuli, septulati 45-60 \approx 3,
chlorini. Ad *Xylaria* speciem certe spectat.

Species nobis nomine tantum notæ.

24. *Rhizomorpha subtilis* Opiz, Seznan. p. 140. 4827
Hab. in agro Pragensi.
25. *Rhizomorpha Lineola* Opiz, Lotos, 1855, p. 88. 4828
Hab. in agro Pragensi.
26. *Rhizomorpha corynephora* Kunze in Weig. Exs.; Berk. in Hook 4829
 Journ. (1856) 277 (absque diagnosi).
Hab. ad truncos (?) Rio Javary, Panuré Brasilæ.

CAPILLARIA Pers. M. E. I, pag. 50 (Etym. *capillus*), *Ceratonema* Wallr. — Fila levia, tenuissima, capilliformia, solidâ; matrici (ligno foliis) arete adherentia, fusco-nigricantia.

1. *Capillaria Arundinis* Pers. Myc. I, 51, *Ceratonema* Wallr. Comp. 4830
 n. 1532, *Rhizomorpha confervoides* Chaill. — Rhabdis ramosissimis
 fusco-nigricantibus, in strata tenuia macularia laxè congestis.
Hab. intra culmos *Arundinis Phragmitis* in Gallia, Ger-
 mania.
2. *Capillaria fucina* Wallr. Comp. n. 1533 (*Ceratonema*). — Rhabdis 4831
 vage patentinque ramosis, teretibus, dein ligamentosis alternatim
 compressis, in strata mollia laxè congestis, fusco-purpurascens.
Hab. inter tonentum spongiosum *Parmeliæ cœrulescens*
tis, in Hercynia et Thuringia passim.
3. *Capillaria nigra* Pers. M. E. I, p. 50. — Filis ramoso-divaricatis, 4832
 distinctis, nigris, brevibus.
Hab. in foliis *Vaccinii* in Gallia.
4. *Capillaria Phytolacæ* Pers. M. E. I, p. 51. — Filis ramosissimis, 4833
 elongato-divergentibus, flexuosis, badiis.
Hab. in interiore et ad dissepimenta caulis *Phytolacæ* in
 Gallia.
5. *Capillaria badia* Pers. M. E. II, p. 51. — Filis parce ramosis, va- 4834
 gis, dilute badiis, sat longis.
Hab. in foliis siccis *Fagi silvaticæ* in Gallia.
6. *Capillaria grammica* Pers. M. E. I, p. 51. — Filis brevissimis, 4835
 nigris, quoquoersum flexis, simplicibus v. ramosis (nervisequis).
Hab. in foliis emortuis dejectis *Quercus* in Gallia, Germania,
 Belgio. — Cfr. Kx. F. Fl. II, p. 471.

ANTHINA Fr. S. M. III, p. 281 (Etym. *anthos* flor). — Receptaculum
 verticale, elongatum, cum stipite contiguum sursum dilatatum, e

floccis longis fasciculatis, apice tantum liberis conflatum. Sporæ nondum visæ. — *Anth. flavo-virens* Fr. et *A. umbrina* (Pers. sub *Isaria*) Fr. sunt st. conidici *Hypoxyli coccinei*.

Anthina flammea Fr. Syst. Myc. III, p. 283, Berk. Outl. t. 21, 4836

1. f. 3. — Sanguineo-rubra, sursum furcato-ramosa dilatata, plumosa lutea, deorsum attenuata.

Hab. ad folia dejecta, ligna putrida *Quercus*, *Fagi* etc. in Suecia, Britannia, Belgio, Gallia, Italia.

2. **Anthina purpurea** Fr. S. M. III, p. 283, Hedw. I, t. VI, f. 12-14. 4837

Byssus clavata Roth, *Ceratonema clavatum* Roth. — Subsimplex, rarius ramosa, deorsum æqualis, sericea, fusco-purpurea, apicibus dilatatis lanuginosis, albis.

Hab. ad folia putrida quercina in Suecia, Germania. — Lilinearis, plana, infra fusca sursum purpurascens, splendens, 1-2 cm. alta.

3. **Anthina fulva** Fr. S. M. III, p. 284. — Villosa, fulva, basi dila- 4838

tata, byssacea, sursum complanata, apicibus villosis, concoloribus, compressis.

Hab. in foliis dejectis *Coryli*, rarius, in Suecia. — Nunc simplex, nunc flabellato-ramosa, 7-9 mm. alta.

4. **Anthina cano-fusca** Fr. S. M. III, p. 285. — Simplex, inæqualis, 4839

rigidula, inferne fusco-nigra, apice villosa, cana.

Hab. ad cortices putridos *Abietis* ad terram prostratis in Suecia. — Inæqualis, subangulosa, firma, 2-5 mm. alta.

5. **Anthina dichotoma** (Roth) Fr. S. M. III, p. 285, Michelia II, 4840

p. 155. *Ceratonema dichotomum* Roth, Cat. Bot. II, t. 8, fig. 2. — Erecta, capillaris, æqualis, subdichotoma, nivea, 5-10 mm. alta, extremitatibus bifidis, pubescentibus.

Hab. in foliis et corticibus putridis in Suecia, Italia etc. — Tam in hac specie quam in *A. flammea* sporæ nullæ repertæ; stirpes verisimiliter ozoniaceæ.

6. **Anthina penicillata** (Bull.) Fr. Syst. Mycol. III, 286, Sacc. Mich. 4841

I, p. 540, *Clavaria penicillata* Bull. t. 448, p. 3. — Elongata, sparsa, simplex, lutea, apice penicillato; hyphis in stipites apice penicillatos aggregatis, filiformibus, 1-2 mm. cr., minute septulato-guttulatis, aureo-flavidis; sporis nullis.

Hab. ad folia decidua in Gallia, Dania, et in putamine *Coryli*, Padova, Italia, vere 1879. — An potius stirps ozoniacea? Fere abque dubio huc spectat *A. ornithopodioides* (Bull.?) Fr. Summa p. 465. Bulliaro nulla species est nomine *ornithopodioides*.

7. *Anthina filaris* Fr. Syst. myc. III, p. 285. — Stricta, simplex, 4842
filiformis, hyalina, sicca nigra, apice puberula albicans.

Hab. in foliis et gemmis putrescentibus Fagi, Quercus in Suecia, Germania. — Capillaris, 5-12 mm. longa, basi minuta, bulbillosa. Primo obtutu vegeta pro *Isaria* sumi potest.

8. *Anthina cinnabarina* B. et Br. F. of Ceyl. n. 873. — Compressa, 4843
parce ramosa, sursum sporis (?) minutissimis albis tecta floccisque paucis, tenuibus.

Hab. inter fragmenta vegetabilia, Ceylon.

9. *Anthina ? muscigena* Speg. Fung. Arg. II, n. 364. — Erecta, 4844
cylindræa v. filiformis, 3-5 mm. long., 0,2-0,3 mm. crass., candida, non v. vix superne fuscescens, primo compactiuscula, levis, dein fibrosulo-gossypina, squarrulosa, hinc inde sparsa, ramulis matricis basi tenacissime adnatæ; fibris parce septatis ramulosisque hyalinis, 4-6 μ . crass.; sporis numquam visis.

Hab. vulgatissima in muscis vivis ad caudices vetustos, Apiahy, Brasilia meridionali, Bonaria, Ensenada, Conchas, hieme 1881.

10. *Anthina ? brasiliensis* Speg. Fung. Arg. IV, n. 365. — Sparsa, 4845
erecta, rigidula: stipitibus teretibus, sursum gradatim attenuatis, 2-2,5 mm. long., 0,2-0,3 mm. crass., postice fusciscentibus, pilis hyalinis squarruloso-patulis laxè vestitis, antice albo-pallescentibus, glabratis, erectis, carnososo-ceracellis, rigidulo-tenacellis, apice abrupte in pilcum verticalem dilatatis; pileis tenuibus, applanato-subfoliaceis, ovatis, sursum rotundato-acutatis, deorsum truncato-subcuneatis, 0,5-0,8 mm. long., 0,3-0,4 mm. lat., ad partem centralem inferam, ob stipitis decurrentiam, incrassato-costatis, atris, nitentibus, glaberrimis, margine acuto, pellucido, pallescente, pulcre denseque fimbriato-denticulato ornatis, contextu cutis coriacellæ fusco-atræ, carnis subtremelloideo hyalino, in utroque prosenchymatico-fibroso, fibrillis gracilibus, 3 μ . crass.

Hab. ad ramulos vivos (?), sociis Hepaticis, Apiahy, in Brasilia meridionali (J. PUIGGARI). — In pulpa pilei hinc inde inter fibras parenchymatis adsunt fasciculi catenularum cellularum in parte centrali orientes, marginem versus vergentes; cellulæ catenularum gradatim e basi apicem versus minores, ellipticæ, utrinque obtuse rotundatæ (majores basales 5 \times 3-3,5), hyalinæ, grosse 1-guttulatæ, nucleo luce refracta chlorinulo; in eadem pulpa sparse inveniuntur etiam cellulæ solitariæ, ellipticæ, utrinque rotundatæ, magnæ, 25-30 \times 15-22, dense granuloso-furcæ, hyalinæ.

11. *Anthina æruginosa* Fuck. Symb. mycol. p. 365. — Stipitibus 4846

simplicibus, apice divisis, 3-7 mm. altis, crassis, strictis, basi parum dilatatis, longitudinaliter striatis, fuscis, subpilosis, apice plumosis, pallide æruginosis; conidiis nondum visis.

Hab. ad poma putrescentia, immatura delapsa, pr. Oestrich Rhenogoviæ.

OZONIUM Link, Berl. Mag. III, 1809, p. 21, Pers. M. E. I, p. 86 (Ëtym. *ozos* ramosus, nodosus). — Rhabdi decumbentes, protensi, continui, ramosi, primum aggregato-fasciculati dein facile secedentes, habitum penicillatum mentientes, sporis destituti. Mycetes cryptophili, aliorum procul dubio incunabula v. ob locum improprium degeneres.

1. **Ozonium auricomum** Link (Observ. I, 19), Grev. crypt. t. 260, 4847

Oz. fulvum Pers., *Himantia fulva* Spr., *Rhizomorpha capillaris* Roth., *Ceratonema capillare* Pers., *Byssus fulva* Huds., *Byssus barbata* Engl. bot. tab. 701, *Byssus aurantiaca* DC., *Dematium strigosum* Pers. — Hyphis repentibus, ramosis, irregulariter intertextis, in fasciculos plus minusve crassos coalitis, parce septatis, rigidis, luteis v. aurantiacis, junioribus tenuissimis, albis.

Hab. in lignis, corticibus putrescentibus in Germania, Gallia, Italia, Britannia.

2. **Ozonium romanum** Thüm. Myc. univ. n. 197. — Cæspitibus pu- 4848

sillis, pauci-implexis, ochraceo-fulvis, ad marginem pallidioribus, floccis tenuibus, brevibus, acutatis.

Hab. ad trabes, Villa Borghese Romæ, hieme 1875 (C. BAGNIS). — *Ozonio stuposo* proximum, sed satis diversum est.

3. **Ozonium croceum** Pers., M. E. I, p. 86, Fr. Elench. I, pag. 158. 4489

— Dispersum, flavo-croceum, fibrillis subdifformibus vage ramosis, 12-15 mm. long.

Hab. in quisquiliis passim intra terram in Gallia et Germania, in stromatibus Pyrenomycetum (e. g. *Valsaria*) ad ramos Robiniæ Pseudacaciæ in Italia bor. — Stirps italica mihi omnino dubia, quæ, sec. auctores, mycelium *Corticii sulphurei* Fr. sisteret.

4. **Ozonium castaneum** Wallr. Fl. crypt. n. 1475. — Rhabdis primum 4850

fasciculato-aggregatis, filaribus, ramosis, adpressis, productis fusco-castaneis, dein in alios rhabdos arachnoideos concolores rigidulos parce ramosos secedentibus, stratum implexum mentientibus.

Hab. ad lingua putredine exesa, Thuring (WALLR.); in ligno putri quercino, Gorizia (BOLLE, THUEMEN).

5. **Ozonium stuposum** Pers. Myc. I, 87, Link, Sp. I, 138, Dub. Gall. II, 4851
Dematium stuposum Pers. Syn. 696, *Byssus intertexta* DC. Gall. II, 68. — Rhabdis ramosis, umbrinis fulvisque, glabris, intertextis, sensim tenuatis, lignum fissum plerumque penetrantibus.
Hab. ad trabes et cortices putrescentes defossas Fagi, Salicis in Germania, Gallia, Sibiria.
6. **Ozonium lignorum** Fic. in Rabh. D. Crypt. Fl. 61, Sacc. Mich. 4852 III, p. 300. — Hyphis subparallelis, filiformibus, laxè intextis parce et vage ramosis, remote articulatis, 3-4 μ . diam., ex olivaceo rufescentibus, stratum satis effusum efformantibus.
Hab. in ligno fagineo, juglandino putrescente, in Germania, Padova Italiae bor.
7. **Ozonium radiciperdum** Thüm. Contr. Fungh. Litor. III, p. 15. — 4853
 Cespitibus longe lateque effusis, radicem plerumque omnino occupantibus et involventibus, lanoso-velutinis, sublaxis, mollissimis, sordide olivaceis; hyphis longis, rectis, tenuibus, dilute fuliginis, septatis, 2-3 μ . cr.
Hab. in radicibus vivis Piri communis, cui valde noxium, Gorizia.
8. **Ozonium Sacchari** Speg. Rev. Agr. y Veter. La Plata 1896, p. 257. 4854
 — Effusum, atrum, laxissimo fibrillosum, ex hyphis praelongis intricato-ramosis, gracilibus, 3-5 μ . crassis, septulatis, levibus efformatum.
Hab. in vaginis exaridis Sacchari officinarum prov. Tucuman, Argentina.
9. **Ozonium Plica** Kalchbr. Adatok Szep. Vir. V, p. 159. — Hyphis 4855
 solidiusculis, ramosissimis, adpressis v. floccoso-solutis, umbrinis, articulis inaequalibus, diametro triplo-octuplo longioribus.
Hab. ad ramulos Pini Mughi ejusdemque folia viva *Plicae polonicae* instar contexens, in Hungaria. — An diversum a *Rhacodio Therryano* Thüm.? Subiculum probabile *Herpotrichiae nigrae* v. *Enchmosphaeriae pinetorum*.
10. **Ozonium parietinum** Link in Wild. Sp. pl. VI, p. I, p. 139. — 4856
 Obscure umbrinum, unicolor, thallo descendente, floccis tomentosis.
Hab. ad parietes murales locis suffocatis, in cellis vinariis in Italia, Gallia, Germania.
11. **Ozonium arenarium** Fic. Fl. Dresd. II, p. 268. — Brunneum, 4857
 pertenuè, laxè intextum, pellucidum, parce articulatum; filamentis ramosis sabulo adpressis, plagas spithameas v. minores subarticulatas atro-brunneas formantibus.

Hab. ad arenam in silvis Germaniæ.

RHACODIUM Pers. Syn. p. 701 (Etym. *rhacos* pannum lacerum) *Dematium* Auct. pl. sed non Fr. (Cfr. Syll. IV, p. 308). — Rhabdis capillares, ramosi v. ramosissimi, decumbentes, in strata mollia incondita intertexti, nigri v. brunneo-atrati, aspori, passim corpuscula globulosa ex hyphis iisdem conflata gerentes. Species Schumacheri Fl. Saell. II, p. 446-447, nimis vage definitæ ut recenseantur.

1. **Rhacodium cellare** Pers. Syn. 701, Nees Syst. f. 70, Grev. crypt. 4858 t. 259, *Antennaria cellaris* Fr. syst. III, 229, *Fibrillaria vinaria* Sowerb., *Byssus cryptarum* DC. Gall. II, 67, *B. septica* Roth. *B. mollissima* Ehrh., *B. dolaris* Vitm.-Dill. hist. t. I, f. 12. — Rhabdis arachnoideis, continuis, primum flaventibus, dein olivaceo-nigris, demum atro-fuliginosis vage ramosis, in pannum molle crassum laxè intertextis, ad extremitates obsolete moniliformes sphaerulas sporangioidæas rotundas, stupa torulosa simili farctas, proferentibus.

Hab. ad dolia præprimis vinaria et acetaria in cellis diutius recondita, in tota Europa et America. — Adsunt hinc inde inter hyphas sphaerulæ nitidulæ $\frac{1}{2}$ mm. d., satis fragiles, a nonnullis mycologis tamquam perithecia sumptæ; sed microscopice exploratæ, nil sunt nisi glomeruli ex hyphis elongatis varie et dense contexti, sporis omnino carentes.

2. **Rhacodium Aluta** Pers. Syn. p. 702, M. E. I, p. 69, *Dematium* 4859 *Aluta* Link, Sp. I, p. 134, Dub. Gall. II, 933, *Byssus Aluta* DC. Gall. II, 10. — Rhabdis cinnamomeis, tenuibus, in stratum pannosum late expansum dense constipatis.

Hab. intra arbores cavas et ad trabes cryptarum in Germania, Gallia, Italia. — Mycelium *Corticii cinnamomei*.

3. **Rhacodium nigrum** (Link) Schum. Saell. II, p. 447, *Dematium ni-* 4860 *grum* Link obs. I, p. 19, Sp. I, p. 131; *Sporotrichum nigrum* Link Obs. II, p. 35, *Rhacodium vulgare* Fr. Obs. I, p. 215, Deutsch. Crypt. t. 9. — Rhabdis intricatis, e griseo-fuscove nigris molliusculis in stratum effusum crassiusculum contextis.

Hab. ad arbores putrescentes in Germania, Suecia, Sibiria etc.

4. **Rhacodium mollissimum** Link Sp. I, p. 132 (*Dematium*). — Rhabdis 4861 intricatis e griseo et fusco nigris mollissimis, in stratum effusum crassum contextis.

Hab. ad corticem arborum agri Rostoch. (LINK). — Affine *R. nigro* sed multo crassius.

5. **Rhacodium rupestræ** Pers. Syn. p. 701, *Dematium rupestræ* Link 4862

Obs. I, p. 19, Nees Syst. 76, f. 73, *Byssus rupestris* DC. Gall. II, p. 592. — Rhabdis intricatis crassitie inæqualibus, in stratum pannosum effusum crassum laxè contextis, aterrimis.

Hab. ad rupes a sole retractas cryptarum montium editiorum in Germania.

6. **Rhacodium petræum** Pers. Syn. p. 701, *Dematium rupicola* Link 4863
Sp. I, p. 133, *Byssus petræa* Wulf. — Rhabdis intricatis crassitie subæqualibus, in stratum crassum effusum contextis, atris.

Hab. ad rupes umbrosas German. austr. (WULFEN).

7. **Rhacodium geotrichum** Wallr. Crypt. n. 1483 (*Dematium*). — 4864
Rhabdis elongatis arachnoideis ramosissimis, in stratum tenuatum, pannosum, longe effusum cubilibusque adhærens laxè intertextis, stygiis.

Hab. ad terram limosam Hercyniæ infer. minime rarum.

8. **Rhacodium badium** Pers. M. E. I, p. 70, *Dematium badium* Link 4865
Sp. I, p. 132, nec Dub. et Pers. — Rhabdis teneris ramosis, in stratum effusum crassiusculum contextis, badiis.

Hab. ad ramos arborum dejectos in Germania (LINK).

9. **Rhacodium jubatum** Link Sp. I, p. 132 (*Dematium*). — Rhabdis 4866
intricatis e fusco-griseis in stratum effusum laxum lanosum elasticum intertextis.

Hab. ad ramos udos humi jacentes agri Rostoch. (LINK).

10. **Rhacodium castaneum** Pers. M. E. I, p. 70, *Dematium castaneum* 4867
Link l. c. *D. badium* Dub. Gall. II, p. 933. — Rhabdis densis parallelis, in stratum longitudinaliter effusum constipatis, ferrugineo-badiis.

Hab. ad ramos exsiccatos, Hercynia.

11. **Rhacodium Therryanum** Thuem. Rev. Mycol. 1880, p. 87. — 4868
Massas tomentosas, dense intricatas, fuligineo-atras formans, ramulos et folia ambiens, involvens et investiens; filamentis longissimis, simplicibus, æqualibus, intricatis, flexuoso-contortis, articulatoseptatis, fuligineo-fuscis, 6-7 μ . crassis.

Hab. ad ramos et folia, quæ necat, Abietis excelsæ in silvis Grande Chartreuse pr. Grenoble Galliæ (THERRY). — A *Rhac.* (*Antennaria*) *pityophilo* longe diversum. Probabiliter est subiculum *Enchnosphaeriæ pinetorum*.

12. **Rhacodium fructigenum** Thüm. Symb. myc. Austr. III, n. 11 4869
(*Dematium*). — Tomento vel villo densissimo intricato, crasso e rubiginoso ochraceo, subsericeo longe lateque effuso, molli sed tenacissimo, fructum omnino fere ambiens et involvens; filis lon-

gissimis continuis, simplicibus contextis, subcrassis, arcuatis vel interdum tortuosis, apiculatis, pallidissime fusciscentibus vel fere subachrois, intus saepe cum granulis vel pseudonucleis longis, concoloribus 24 μ . diam., pariete 6 μ . cr.

Hab. in fructibus Cydoniae vulgaris maturis, induratis, sub caelo expositis, aestate 1877, Leibach Carnioliae (W. Voss).

13. **Rhacodium rubiginosum** Pers. M. E. I, p. 88 (*Himantia*). — 4870
Mollissimum, rufo-spadiceum, partim intertextum, villosum, fibrillis paucis distinctis crassiusculis teretibus.

Hab. ad muros et in cellis, Taurini Ital. bor. (BALBIS).

14. **Rhacodium fuscum** Pers. M. E. I, p. 70. — Sublate effusum, tenuissimum, dense contextum, opacum, fusco-badium, 5-6 cm. lat., 10 cm. longum, filis haud distinctis. 4871

Hab. in cellis ad muros Parisiis Galliae (BEAUVOIS).

15. **Rhacodium striatum** Pers. M. E. I, p. 70. — Sordide pallens in membranam tenuem subcompactum, striatum liberum. 4872

Hab. in Helvetia (SCHLEICHER).

16. **Rhacodium ochroleucum** Pers. M. E. I, p. 71. — Subparvum, effusum, laxius contextum, ochroleucum nitidum, appianatum, 12-14 mm. lat. 4873

Hab. ad ligna exsiccata in Helvetia. — Mycelium *Corticis sulphurei*, teste Fr.

17. **Rhacodium lanatum** Pers. M. E. I, p. 71. — Laxum, mollissimum, albido-pallidum, lanam referens. 4874

Hab. ad ligna, Hannover (NEES).

18. **Rhacodium subcorticale** Pers. M. E. I, p. 69. — Late effusum, subtenuae, interruptum, ferrugineum, superfioie subunita demum canescente. 4875

Hab. inter corticem et lignum in Gallia. — Affine *Xylostromati*.

19. **Rhacodium strigosum** Pers. M. E. I, p. 69. — Crassiusculum, densius compactum, obscure ferrugineum, filis nonnullis rigidioribus. 4876

Hab. in ligno molliori arte adherens in Pedemontio (BALBIS). — Ab *Ozonio auricomum*, teste auct., differt opacitate et densitate majori.

20. **Rhacodium secalinum** Sacc. in Rev. Myc. 1885, p. 224. — Molle, fusco-violaceum, gossypinum; hyphis filiformibus, septatis, parce ramosis. 4877

Hab. in culmis putridis Secalis cerealis, Verviers et Malmedy (LIBERT).

21. **Rhacodium Nidulus** Wallr. Crypt. n. 1491 (*Dematium*). — Rha- 4878
bdis simplicissimis tenerrimis, brevibus, e basi dense implexa cou-
stipata undique æqualiterque assurgentibus apicibusque liberis, ni-
dulum figuratum, veluti comosum, rotundum, exiguum centro im-
pressum, pallide-fuscum mentientibus.

Hab. ad Thelephoras in Thuringia (WALLR). — Habitu omnino *Chaetomium* v. *Pezizulam* æmulatur, nec tamen sporidia adsunt.

22. **Rhacodium lintaceum** Pers. M. E. I, p. 71. — Dilatatum, sub- 4879
membranaceum, amœne alutaceo-pallidum, contextu fere lintei.

Hab. in Gallia. — An potius *Xylostromati* affine?

HYPHA Pers. M. E. I, p. 63, *Hyphasma* Reben. *Dematium* Pers.
Byssus L. pr. pr. ex emend. Humb., Dub. (Ety. *hyphe* textura).
— Rhabdi arachnoidei hyalini simplices v. ramosi, decumbentes,
fistulosi, continui, laxè intertexti, fugaces (aeris contactu saltem)
contabescentes v. confluentes, sporis destituti. Mycetes subterranei
in cryptis locisque suffocatis, vegeti albi; aliorum procul dubio
initia, ex loco lucisque defectu pessumdati, hinc dubii.

1. **Hypha bombycina** Pers. M. E. I, p. 63, *Byssus floccosa* Schreb. 4880
Spic. 144, *B. bombycina* Nees Syst. f. 73, *Hyphasma floccosum* Re-
ben. Neom. p. 396, *Dematium bombycinum* Pers. Syn. p. 696, Dill.
Hist. t. I, f. 9. — Rhabdis hyphoideis, simplicissimis, subparallelis,
niveis, primum laxè intertextis, hypham veluti gossypinam, elatam
subrotundam, mundissimam, dein collapsis, membranam compactam
seu corium tenacellum mentientibus.

Hab. ad ligna et lapides in caveis udis et fodinis minime rara
in Germania. — 18-20 cm. alta et lata, ocissime gliscens.

2. **Hypha flabellata** Pers. M. E. I, p. 63. — Dilatata, fasciculato- 4881
membranacea, subpeltata, basi in petiolum condensata.

Hab. in fodinis et cellis lignis lapidibusque adhærens.

3. **Hypha digitata** Humb. Pers. M. E. I, p. 65, *Byssus digitata* Humb. 4882
l. c. t. 2, f. 1. — Rhabdis longissimis arachnoideis, in fasciculos
funiculares propexos apice divisos confluentibus.

Hab. in fodinis metallicis Saxoniae ad columnas (HUMBOLDT).

4. **Hypha speciosa** (Humb.) Pers. M. E. I, p. 64, *Byssus speciosa* 4883
Humb. Frib. 69, t. 4, f. 18. — Rhabdis niveis ramosissimis repen-
tibus, in ramos flexuosos compressos apice expansos orbiculatim
dispositos confluentibus.

Hab. in omnibus cuniculis Fribergensibus, lignum et saxa ob-

ducens (HUMBOLDT), in ligno abietino carioso, Bagnères de Luchon Gallia.

5. *Hypha argentea* Pers. Myc. Eur. I, p. 64, *Byssus argentea* Dub. 4884
Gall. II, p. 934, *Byssus cellaris* Humb. Frib. p. 66, *Mesenterica argentea* Pers. Syn. 706, Vaill. Bot. t. 8, f. 1. — Rhabdis e centro radiantibus, in ramulos tenuissimos arachnoideos, argenteos divulsis.

Hab. ad parietes udos et suffocatos in Germania, Gallia.

6. *Hypha plumosa* (Humb.) Pers. M. E. I, p. 65, *Byssus* Humb. Frib. 4885
p. 65, t. II, f. 7. — Nivea, ramosa, ramulis oppositis, pinnata, dependens, sericeo-splendens.

Hab. in cuniculis Fribergensibus lignum et saxa obducens, 50-60 mm. lata.

7. *Hypha papyracea* (Pers.) Rbh. Hdb. p. 60, *Rhacodium papyraceum* 4886
Pers. Syn. p. 703, Sow. Engl. fung. t. 387, f. 10? — Subtenuis, submembranacea, late effusa, ligno, in quod sæpius intrat, arcte adhærens, subtomentosa, alba.

Hab. ad lignum putre, præsertim Salicum, in Germania, Britannia, Gallia.

8. *Hypha Penicillum* (Scop.) Pers. M. E. p. 65, *Byssus* Humb. l. l. 4887
p. 68, Scop. Dissert. I, p. 91, t. 2 f. 3. — Erecta, nivea, rhabdis fasciculatim congestis, simplicissimis.

Hab. in fodinis metallicis Saxoniae (HUMBOLDT).

9. *Hypha radiceformis* (Humb.) Pers. M. E. p. 66, *Byssus* Humb. 4888
Frib. l. c. — Nivea, tenerrima, rhabdis ramosis pendulis, globis floccosis hinc inde adhærentibus.

Hab. ad columnas ligneas fodinarum (HUMBOLDT).

10. *Hypha clavata* (Humb.) Pers. M. E. p. 65, *Hypha* Humb. l. c. 4889
t. 4, f. 17. — Erecta nivea, versus basin attenuata, clavæformis.

Hab. in fodinis Fribergens. (HUMBOLDT).

11. *Hypha sulphurea* Nees in N. act. acad. Leop. II, p. 568. — Mol- 4890
lissima, dilatata, indeterminata, citrino-sulphurea, exsiccata membranacea, sordide carnea.

Hab. ad ligna in locis humidis et suffocatis passim.

12. *Hypha membranacea* (Humb.) Pers. M. E. I, p. 66, *Byssus mem-* 4891
branacea Humb. Plant. subterr. n. 6. frib. 69, *B. floccosa* Scop. l. c. t. 4. — Explanata nivea, membrana ex filamentis constans dense intertexta.

Hab. in fodinis metallicis in Saxonia (HUMBOLDT).

13. *Hypha globosa* (Humb.) Pers. M. E. I, p. 66, *Hypha* Humb. 4892

Frib. p. 70, Scop. Diss. I, p. 93, t. 16. — Expansa, radians dein globum pendulum glomerata.

Hab. ad trabes in fodinis metallicis in Saxonia (HUMBOLDT).

14. **Hypha elongata** (DC.) Pers. Myc. eur. I, p. 63, *Byssus elongata* 4893
DC. Gall. II, p. 67, Dub. Gall. II, 934. — Rhabdis simplicibus, tenuissimis, filamenta tenuia, subcylindrica, ramosa, mentientibus, nonnisi longissime protensis.

Hab. ad ligna cryptarum udarum in Gallia et Germania.

15. **Hypha muralis** Pers. Mycol. Europ. I, p. 64. — Latissima, flocculosa, candida, exsiccata submembranacea, passim 0,7 μ . expansa. 4891

Hab. in cavis et cellis humidis ad muros et ligna in Germania, ad saxa in spelæis horti botanici, Coimbra (M. FERREIRA). — An subiculum *Poria*?

16. **Hypha stratalis** Thäm. Symb. Myc. Austr. III, n. 72. — Crustas vel tunicas membranaceas papyraceas, tenuissimas, patentissimas, alutaceas, suborbiculatas, submarginatas interdum confluentes formans; contextu tenaci, floccoso-piloso. 4895

Hab. ad strata cellæ vinariæ, æst. 1878, Klosterneuburg Austriae (THUEMEN).

17. **Hypha minima** (Humb.) Pers. M. E. I, p. 66, *Byssus* Humb. Frib. 4896
p. 66. — Filamentosa, nivea, filamentis erectis, simplicissimis, minimis.

Hab. ad columnas ligneas in agro Fribergensi. — Affinis *H. Penicillo* sed filamenta rarius fasciculata.

18. **Hypha laciniata** Scop. Dissert. p. 92, t. 5, Pers. M. E. I, p. 66. 4897
— E simplici petiolo pendens, e filis rectis contexta, in lacinias multas planas imbricatas dissectas.

Hab. in cuniculis fodinarum in Gallia, Germania, Austria.

HIMANTIA Pers. M. E. I, p. 88 (Etym. *hymas* corrigia, habena). — Repens, depressa, tenera; fibrillæ ramosissimæ, divergenti-ramosa, discretæ omnes, minores passim in membranam connatæ. Plures formæ sunt initia *Corticiorum*.

1. **Himantia candida** Pers. Syn. p. 704. — Epiphylla, repens, depressa, uniformis, candida, apice dilatata, plumosa. 4898

Hab. in foliis ramulisque dejectis Fagi, Lauri, Salicis, Eucalypti, Quercus in Gallia, Italia, Germania, Lusitania, Sibiria, agro Goritiensi.

2. **Himantia argyroleuca** Speg. F. Puigg. I, n. 483. — Tenuissime 4899
membranacea, arctissime matrici adnata, latissime expansa, indeter-

minata v. margine crenulato-repanda, subfibrillosa, ex albo argentea subsericeo-nitens.

Hab. ad folia Laurineæ cujusdam dejecta putrescentia in nemorosis prope Apiahy, auct. 1888, Brasiliæ. — Status quiescens *Pani hymenorrhizi* Speg.

3. *Himantia implexa* Pers. l. c., M. E. I, p. 52 (*Fibrillaria*). — Ramosissima, implexa, subdichotoma, ramulis attenuatis, tenuioribus. 4900

Hab. intra truncos cariosos, præcipue Populi, Betulæ in Gallia, Germania, Sibiria. — Initium *Corticii lactei*?

4. *Himantia plumosa* Schum. Saell. p. 444, *H. fimbriata* Pers. M. E. I, p. 92, Letell. t. 660, f. 3. — Magna, effusa, ramosa, alba, filis longis, subargenteis, fasciculatim basi congestis, apicibus diffusis, applanatis, plumosis. 4901

Hab. inter corticem et lignum nec non in truncis cavis putridis in Dania et Gallia.

5. *Himantia subcorticalis* Pers. M. E. I, p. 92. — Primo villosa, divergenti-radians, demum in membranam, latam, glabram coalescens, alba. 4902

Hab. inter corticem et lignum ramorum putridorum, sed cortici adnata, in Gallia (PERSOON, GRAVES).

6. *Himantia globulifera* Schum. Saell. II, p. 444, Fl. Dan. XII, t. 2099, f. 1. — Media vel major alba, filiformis, ramosissima, flexuosa, subreticulata, ramulis tenuissimis subcapillaribus, aliis tuberculis ovatis albidis subdiaphanis terminatis, aliis nudis. 4903

Hab. in truncis cavis humo vegetabili conspersis in Dania.

7. *Himantia radians* Pers. M. E. I, p. 91, *Chordostylum hispidulum* Tode Meckl. I, p. 39, t. VII, f. 54? — Gregaria, subparva, fibrillis demum adscendentibus, glabriusculis, subsimplicibus, dein pallentibus, basi villosa-radiante, folio affixa. 4904

Hab. non rara in foliis siccis delapsis in Germania etc.

8. *Himantia Sacchari* Speg. Rev. Agr. y Veter. La Plata, 1896, p. 257. — Gossypinulo-subcrustacea superficialis, sæpius irregulariter orbicularis, 5-25 mm. diam., candida, nodulo centrali prominulo, margine fimbriatulo, superficie eximie fibroso-radiante; hyphis subsimplicibus, tenuibus, levibus, subcoalescentibus, apice liberis atque obtusis hyalinis efformata. 4905

Hab. in culmis coacervatis putridis *Sacchari* officinarum prov. Tucuman, Argentina.

9. *Himantia ornithogala* Pers. M. E. I, p. 92. — Sublate incrustans, farinosa, fibrillulas nonnullas liberarum exserens. 4906

Hab. in quisquiliis, ad ramulos foliaque sicca fibrillis fungi inter se coherentia in Gallia; ad Arundines in silva Chantilly (GRAVES). — Quasi avium excremento similis.

10. **Himantia ? guttulifera** Speg. l. c. — Minuta, ochracea v. lutescens, repando-orbicularis, 0,5-5 mm., margine lobulato-fimbriato, centro gossypino-tomentosulo, guttula rosea majuscula rorida, ex hyphis tenuibus, 2-4 μ . crassis, septulatis dense ramoso-intertextis efformata. 4907

Hab. in vaginis interioribus languidis Sacchari officinarum, prov. Tucuman, Argentina.

11. **Himantia dædaloides** Thüm. Symb. myc. Austr. III, n. 73. — Late adnata, divergens, hemisphaerica v. subplana, sæpe longe lateque confluens, dilute alutacea, *Dædaleæ* coloris, multipapillata, papillis obtusis, intus concolor, subzonata, basi sæpe chalybæa. 4908

Hab. ad oreas et antepagmenta in cellis vinariis, 1874, Klosterneuburg Austriae (L. RÖSSLER). — Ad *Dædaleam quercinam* sterilem valde accedit.

12. **Himantia helvola** Pers. Mycol. Eur. I, p. 90. — Repens, subadnata, glabriuscula subcinnamea; ramulis æqualibus, divergentibus; nonnullis fasciculatis. 4909

Hab. in cortice interiore putrescente Populi putris, Lyon, Gallia, ad ligna in Germania. — 25-30 mm. expansa.

13. **Himantia cellaris** Pers. M. E. I, p. 89. — Magna, ramosissima, villosa nigrescenti-umbrina. 4910

Hab. ad ramos in cellis, passim longitudine 60-70 cm. — Rami divergentes, in indiv. majoribus in membranam coaliti, ramulis quasi anastomosantibus.

14. **Himantia umbrina** Pers. Syn. fung. p. 704, M. E. I, p. 89. — Compactiuscula, minus distincte divergens, ramis cancellatis, umbrina. 4911

Hab. ad cortices arborum in Germania, rarissima. — *H. cellari* valde affinis, 70-90 mm. longa.

15. **Himantia ramosissima** Sow. Engl. fung. t. 387, f. 2, Fl. Dan. XII, t. 2099, f. 2 (*Fibrillaria*), *Him. flabellata* Pers. M. E. p. 89. — Ramosissima, villosa-hirta, umbrina, ramis flabellatis apice in glomerulos fere confluentibus. 4912

Hab. in testa ad florum culturam in tepidariis in Britannia et Dania.

XYLOSTROMA Tode Meckl. I, p. 36, Pers. M. E. I, p. 93 (Etym. *xylon* lignum et *stroma*). — Diffusum, coriaceo-suberosum, compactum, leve (asporum).

1. **Xylostroma giganteum** Tode l. c. t. VI, f. 51, Sow. Fung. t. 358, 4913
X. Corium Pers. M. E. I, p. 94. — Latissimum, coriiforme, leve, pallide alutaceum, flexile, nunc ligno arcte adnatum, nunc liberum, passim longissime expansum.

Hab. intra arborum fissuras Quercus, Eucalypti etc. in Europa. America et Australia. — Mycelium *Polyporeæ* cujusdam.

2. **Xylostroma capsuliferum** Speg. et Roum. Nov. Spec. Rev. Myc. 4914
 II, pag. 23, *Xylostroma giganteum* Pers. in Herb. Lib. — Late effusum, crassum, suberoso-stupposum, intus album, extus ex albo fulvescens, rimosum, hinc inde foveolis, ore diaphragmate subligneo, rotundo, in planta vegeta rubro, in sicca castaneo, clausis donatum.

Hab. ad tabulatum cæli cujusdam cameræ humidæ, Liège, post inundationem (A. STRAIL). — An bona species vel tantum forma anomala *Xylostromatis gigantei* Pers.? Ulterius inquirendum.

3. **Xylostroma cinereum** Pers. M. E. I, p. 93. — Crassiusculum, 4915
 leve, dilute cinereum, valde compactum, utrinque planum, 2-5 mm. cr., plura cm. lat.

Hab. ad ligna (?) in Gallia.

4. **Xylostroma loreum** Pers. M. E. I, p. 93. — Coriaceo-membrana- 4916
 ceum, tenue, rufo-spadiceum, 20 cm. long., 3-5 cm. lat.

Hab. in Gallia. — Lora exacte simulat.

PHLŒOCONIS Fr. Summe Veg. Scand. II, p. 520 (Etym. *phloios* cortex et *conia* pulvis), *Pseudoprotomyces* Gib. — Non est productio fungina, sed meræ cellulæ stratus suberosi plantarum ex anamorphosi quadam secedentes et mutatæ in materiam pulveraceam versicolorem, Ustilaginearum fere ad instar. Huc spectant:

1. **Phlœoconis violacea** (Ces.), *Protomyces violaceus* Ces., *Ustilago* 4917
Hæsendonkii West. *Pseudoprotomyces violaceus* (Ces.) Gib. Cfr. Gibelli in Arch. Labor. critt. Pavia I, p. 53 (1874), Berlese Mal. Gelso, p. 16.

Hab. in cortice radicis et trunci basis Mororum in Italia, Gallia, Germania etc.

2. **Phlœoconis cinnamomea** Thüm. et Bolle Contr. Funghi Lit. 1885, 4918
 p. 15. (*Pseudoprotomyces*).

Hab. in cortice Tiliæ ulmifoliæ, Gorizia.

3. **Phlæoconis Mali** Sacc. et Roum. Mich. II, p. 647 (*Pseudoprotomyces*).

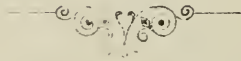
Hab. in cortice Piri Mali in Arduennis (LIBERT).

4. **Phlæoconis Padi** Sacc. et Roum. Mich. II, p. 647 (*Pseudoprotomyces*).

Hab. in cortice Pruni Padi in Arduennis (LIBERT).

5. **Phlæoconis Betulæ** Sacc. et Roum. Mich. II, p. 647 (*Pseudoprotomyces*).

Hab. in cortice trunci Betulæ albæ in Arduennis (LIBERT).



REPERTORIUM

FUNGORUM IN VOL. XIV DESCRIPTORUM

secundum matrices (vegetabilia et animalia)

Obs. *D.* indicat: *Discomycetas.* — *H. Hyphomycetas.* — *Hy. Hymenomyce-*
tas. — *Hyp. Hypostomaceas.* — *L. Laboulbeniaceas.* — *M. Myxomycetas.*
— *Me. Melanconiaceas.* — *My. Mycobacteriaceas.* — *Myc. Mycelia sterilia.*
— *P. Phycomycetas.* — *Ph. Phymatosphaeriaceas.* — *Pr. Protomycetas.* —
Py. Pyrenomycetas. — *Sp. Sphaeropsideas.* — *Ur. Uredinaceas.* — *Us. Usti-*
laginaceas.

- Abies* — *Hy.* 530, 544, 587, 657, 669, 709, 711, 716, 722, 727, 750, 756, 816.
— *Py.* 1814, 1819, 2209, 2227, 2744.
— *D.* 2879, 2975, 2981, 2982, 2990, 2994, 3002, 3048. — *Sp.* 3379, 3380, 3410, 3421, 3562, 3949. — *Me.* 4079, 4081, 4084. — *H.* 4116, 4330, 4432.
— *Myc.* 4599, 4611, 4838, 4867, 4882.
- Acacia* — *Hy.* 541. — *Ur.* 1283, 1284, 1285, 1326. — *Py.* 2426. — *Sp.* 3332, 3400, 3789.
- Acalypha* — *H.* 4493.
- Acanthaceae* — *Ur.* 1368, 1437.
- Acanthus* — *Ur.* 1367.
- Acarospora* — *Py.* 1895.
- Acer* — *Hy.* 678. — *Py.* 1805, 1820, 1822, 2077, 2142, 2143, 2220, 2221, 2229, 2250, 2389, 2711, 2715. — *D.* 2877, 2886, 2891, 3075. — *M.* 3118.
— *Sp.* 3282, 3397, 3415, 3430, 3599, 3815, 3816, 3868, 3921. — *Me.* 4007, 4081, 4087, 4050, 4090. — *H.* 4375, 4507. — *Myc.* 4593, 4669, 4670, 4724, 4728, 4752, 4772.
- Achyranthes* — *Ur.* 1453 — *Sp.* 3405.
- Acokanthera* — *Ur.* 1173.
- Aconitum* — *Us.* 1617. — *Py.* 2691. — *Sp.* 3793.
- Acorus* — *P.* 1693 — *Py.* 2179, 2202. — *Sp.* 3772.
- Acrocomia* — *Py.* 2376.
- Actaea* — *D.* 3050. — *Sp.* 3698. — *Myc.* 4792.
- Adenocalymma* — *Ur.* 1430. — *Py.* 2592.
- Adenostyles* — *Py.* 1940.
- Adesmia* — *Ur.* 1047. — *D.* 3037. — *H.* 4509.
- Adoxa* — *Us.* 1506.
- Æchmea* — *Py.* 2709.
- Ægopodium* — *P.* 1741. — *Myc.* 4723.
- Ægopogon* — *Ur.* 1003.
- Æsculus* — *Py.* 2223, 2477. — *Hy.* 4556. — *Myc.* 4715.
- Agaricus* — *P.* 1733. — *Myc.* 4644, 4645, 4548, 4549, 4698, 4699.
- Agarista* — *D.* 3052.
- Agave* — *Py.* 2117, 2228, 2245. — *M.* 3130. — *Sp.* 3445, 3929. — *H.* 4536.

- Ageratum — Ur. 1315.
 Agrimonia — H. 4212.
 Agrostis — Myc. 4627.
 Ailanthus — Py. 1911, 2045. — Sp. 3287, 3486, 3550.
 Aira — Us. 1574. — Myc. 4627.
 Albizzia — Ur. 1288. — Sp. 3676.
 Alchemilla — P. 1740. — Py. 2051. — Sp. 3313.
 Alchornea — Ur. 1463, 1464.
 Aleyrodes — Sp. 3913.
 Algæ — P. 1647, 1730. — D. 3010.
 Alibertia — Ur. 1438.
 Alisma — Us. 1607. — H. 4204.
 Allionia — Sp. 3371.
 Allium — Ur. 996, 997, 1197, 1093. — Us. 1515, 1516. — Sp. 3450. — Myc. 4620, 4621, 4622, 4623, 4702, 4742, 4777.
 Alnus — Hy. 585, 655, 664, 677, 683, 724, 738, 758. — Ur. 1503. — Py. 1821, 1833. — D. 2867, 2882, 2999. — Sp. 3245, 3465. — Me. 3991, 4028, 4032, 4054. — H. 4111, 4537. — Myc. 4584, 4664, 4721, 4767.
 Aloysia — Py. 2290.
 Alphitonia — Py. 2619.
 Alstonia — Py. 2730.
 Alstrœmeria — Ur. 1386, 1474.
 Alternanthera — Py. 1967.
 Althæa — Sp. 3308, 3668 — Myc. 4678.
 Alyssum — Sp. 3796.
 Alyxia — Py. 2550, 2608.
 Amanita — Myc. 4649.
 Amarantus — Sp. 3418. — H. 4380.
 Amaryllis — Sp. 3250. — Myc. 4742.
 Ambrosia — Ur. 1127. — Py. 2068, 2238.
 Amelanchier — Ur. 1332.
 Amœba — P. 1662.
 Amorpha — Py. 1815. — Sp. 3330, 3524, 3553, 3677. — Me. 4038.
 Ampelopsis — Ur. 1018. — Sp. 3161.
 Amphiloma — Py. 2052.
 Amphilophium — Ur. 1155.
 Amygdalus — Me. 3974.
 Anacardium — H. 4290.
 Anchusa — 4225.
 Andira — Ur. 1286.
 Andromeda — Py. 2018, 2677, 2722, 2748. — D. 3031 — H. 4227.
 Andropogon — Ur. 1243, 1244, 1245, 1246, 1482, 1483. — Us. 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1579, 1615. — Py. 2310, 2424, 2499. — Sp. 3699, 3958.
 Androsace — Py. 2295.
 Anæmia — Ur. 1496.
 Anemone — Py. 2150. — Sp. 3146, 3792. — Me. 1088. — Myc. 4701.
 Angelica — Py. 2659. — H. 4193. — Myc. 4705.
 Anigozanthus — Py. 2030.
 Anisodactylus — L. 2766.
 Anona — Ur. 1299, 1394. — Sp. 3593. — Myc. 4787.
 Anonacææ — Ur. 1299. — Py. 2520.
 Anthistiria — Us. 1600.
 Anthoxanthum — Us. 1575.
 Anthurium — Py. 2610. — Me. 3996, 4022.
 Antidesma — Ur. 1186.
 Antirrhinum — Ur. 1142. — Sp. 3488.
 Aphania — Sp. 3317.
 Aphrophora — P. 1646.
 Apium — Sp. 3319.
 Apocynum — Ur. 978, 1011, 1174.
 Arabis — Ur. 1029. — Us. 1505. — Py. 2151 — Sp. 3158, 3276, 3277, 3278. — H. 4501.
 Aracææ — Py. 2496.
 Arachis — Ur. 950, 1421. — H. 4144.
 Aralia — Sp. 3194.
 Araliacææ — Py. 1979, 2009.
 Araneæ — H. 4168.
 Araucaria — Sp. 3411.
 Arbutus — D. 2941. — Sp. 3225, 3639.
 Archangelica — Ur. 1061. — Myc. 4567, 4568.
 Arctostaphylos — Py. 2620, 2678. — D. 3040. — Sp. 3224, 3362.
 Arca — H. 4524.
 Arenaria — Ur. 1405. — Us. 1507.
 Argyrothamnia — Sp. 3462.
 Arisæma — H. 4234.

- Arisarum — Sp. 3251, 3858.
 Aristida — Ur. 1256, 1260. — Us. 1539,
 1540 — Py. 2626. — Sp. 3511.
 Aristolochia — Sp. 3237, 3638, 3639,
 3640.
 Armeria — Sp. 3218, 3351, 3743, 3844.
 — Me. 3980.
 Arnica — Us. 1586.
 Aroideæ — Py. 2563.
 Aronicum — Py. 2040.
 Arrabidaea — Ur. 1431.
 Arrhenatherum — Py. 2188.
 Artemisia — Ur. 1095, 1096. — Py.
 2087, 2165, 2166, 2237, 2288, 2289,
 2312, 2333, 2737. — D. 3005. — Sp.
 3531, 3780.
 Arthraxon — Us. 1557.
 Arundinaria — Ur. 1255, 1490. — Py.
 1891, 1904, 2032, 2195. — D. 2997.
 — Sp. 3695, 3920. — Me. 4034. —
 H. 4431, 4497.
 Arundinella — Us. 1533, 1625.
 Arundo — Py. 1790. — Sp. 3723. —
 Myc. 4329, 4905.
 Asclepiadaceæ — Ur. 977. — H. 4418.
 Asclepias — Py. 2594, 2662. — D. 2905.
 — Sp. 3366, 3882. — H. 4417.
 Ascophanus — H. 4175.
 Ascyrum — H. 4302.
 Asimina — D. 2992. — Sp. 3496, 3546.
 Asparagus — Myc. 4763
 Asperula — Ur. 964, 1357.
 Asphodelus — Hy. 814. — P. 1699. —
 Sp. 3251, 3412, 3510, 3857. — H. 4384.
 — Myc. 4798.
 Aspidistra — Sp. 3479.
 Aspidium — H. 4239.
 Aspidosperma — Py. 2549.
 Aspidia — Ur. 1084.
 Asplenium — Sp. 3865.
 Asprella — Py. 2031.
 Aster — Ur. 970, 1080, 1337. — Py.
 1827. — Sp. 3208, 3336. — Myc.
 4581.
 Asterella — Sp. 3427.
 Asteriscus — Sp. 3615.
 Astragalus — Ur. 934. — Py. 1959, 2312,
 2329, 2394. — D. 3042. — Sp. 3165,
 3697. — Myc. 4686, 4761.
 Astrantia — Sp. 3454.
 Astrocarya — Py. 2614.
 Atalanta — Py. 1733.
 Athyrium — Py. 2616.
 Atractylis — Ur. 1333. — Sp. 3440.
 Atriplex — Sp. 3729, 3902.
 Atropa — D. 3019. — Sp. 3889.
 Aucuba — Sp. 3191, 3297.
 Auerswaldia — D. 2598.
 Avena — Ur. 1227. — H. 4284. — Myc.
 4627.
 Avicennia — H. 4174.
 Azalea — Hy. 782. — Sp. 3839. — Me.
 4021.
 Azora — Ur. 1396.
 Azorella — Ur. 956.
 Baccharis — Ur. 1094, 1106, 1107, 1108,
 1109, 1110, 1111, 1112, 1113, 1346,
 1347, 1348, 1425, 1499, 1500, 1501. —
 Py. 1767, 1768, 2591, 2675. — Sp.
 3555, 5711. — H. 4243.
 Baldingera — Us. 1525.
 Balæna — Hy. 132.
 Balsamina — Myc. 4683.
 Balsamodendron — Sp. 3513.
 Bambusa — Hy. 243, 550, 725. — Ur.
 1491. — Py. 1884, 1890, 1918, 1947,
 2047, 2057, 2061, 2090, 2119, 2120,
 2121, 2189, 2196, 2205, 2217, 2265,
 2363, 2372, 2392, 2410, 2442, 3433,
 2489, 2500, 2601. — D. 2964. — Sp.
 3952. — H. 4256, 4325.
 Banisteria — Ur. 1036. — Sp. 3281,
 3314.
 Banksia — Sp. 3653.
 Baphia — Ur. 1414.
 Baptisia — Me. 4042.
 Barringtonia — Sp. 3607.
 Bauhinia — Ur. 942, 943, 944, 1420. —
 Sp. 3163.
 Begonia — Sp. 3186.
 Bellidiastrum — Sp. 3435, 3823.
 Bellis — Ur. 1093, 1587. — Pr. 3094.
 Bembidius — L. 2768.

- Berberis — Ur. 1303. — Py. 2073, 2105, 2146, 2253. — Sp. 3272, 3273, 3875. Myc. 4588, 4730.
 Berchemia — Ur. 1322.
 Beta — H. 4117, 4232, 4494.
 Betonica — Py. 2230.
 Betula — Hy. 275, 446, 523, 530, 590, 685, 738, 753, 764. — Py. 1983, 2070, 2226, 2242, 2342, 2618. — D. 2890, 2897, 2936, 2943, 2960, 3076. — Sp. 3409, 3424, 3425, 3661. — Me. 4109. — H. 4251, 4294. — Myc. 4669, 4671, 4721, 4806, 4899, 4921.
 Bidens — Ur. 969, 1093, 1426. — Us. 1588.
 Bigelovia — Py. 1867. — D. 2911, 3015. — Sp. 3417, 3781, 3871. — H. 4316, 4362, 4485.
 Bignonia — Ur. 1432. — Sp. 3620.
 Bignoniaceæ — Py. 2756.
 Blastenia — D. 3067.
 Blechnum — Ur. 1495. — Sp. 3447.
 Blechnum — Ur. 1153.
 Bletia — Ur. 1278.
 Boehmeria — Ur. 1187.
 Bomarea — Ur. 1196, 1470. — H. 4343.
 Boopis — Ur. 1128.
 Borassus — Hy. 121.
 Borreria — Ur. 967.
 Borrichia — Ur. 1097.
 Bossia — Ur. 1325. — Py. 1765.
 Bougainvillea — Ur. 1180.
 Bonteloua — Us. 1550, 1551, 1552, 1553. Py. 2309, 2572.
 Bouvardia — Ur. 1131, 1359.
 Brassica — P. 1648, 1649, 2379. — Sp. 3659, 3795. — H. 4207, 4368, 4871, 4888. — Myc. 4564, 4575, 4679, 4702, 4707, 4775, 4776.
 Brayera — Hy. 796. — Sp. 3571.
 Brickellia — Ur. 1087, 1271.
 Briza — Myc. 4627.
 Bromus — Myc. 4802.
 Brongmartia — Ur. 1296.
 Broussonetia — Sp. 3751 — H. 4458.
 Brunella — Sp. 3460.
 Brunonia — Ur. 1130.
 Buchloë — Ur. 1233.
 Bulbochæte — P. 1687.
 Bumelia — Sp. 3360, 3630.
 Bunias — H. 4206.
 Buphthalmum — Sp. 3210. — H. 4220.
 Bupleurum — Sp. 3454, 3945.
 Buxus — Py. 2404, 2405. — Sp. 3369. — Me. 3986.
 Byrsonima — Ur. 1319, 1320, 1400.
 Cactus — Py. 1791. — Sp. 3611.
 Cæsalpinia — Ur. 1280. — Py. 1958.
 Cajapona — Ur. 951.
 Caladium — Myc. 4744.
 Calamagrostis — Ur. 1257, 1258, 1259. — Myc. 4638.
 Calamus — Hy. 109.
 Calea — Ur. 1705.
 Calepina — Sp. 3701.
 Calliandra Ur. 1020. — Ur. 1287, 1413.
 Callitriche — Us. 1605.
 Callitris — Py. 1796.
 Calluna — Py. 2241. — D. 2902, 2912.
 Calophyllum — Sp. 3968.
 Calycanthus — Py. 2094.
 Calycotome — Py. 1957. — Sp. 3324, 3612.
 Camellia — Hy. 778. — Py. 2092. — Sp. 3162, 3594, 3947. — Me. 4058.
 Campanula — P. 1742. — Sp. 3202, 3203, 3337. — H. 4226. — Myc. 4630.
 Camphora — Sp. 3625, 3657.
 Cannabis — P. 1747.
 Capnodium — Py. 1775.
 Capsella — P. 1648.
 Caragana — Hy. 721. — Sp. 3167, 3709, 3734.
 Cardamine — Sp. 3157.
 Carduus — H. 4188, 4223, 4243, 4295.
 Carex — Hy. 430. — Ur. 1000, 1001, 1002, 1071, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1223. — Us. 1518, 1572. — P. 1671, 2231. — D. 2910, 3044. — Sp. 3693, 3903. Me. 4004. — H. 4263, 4385, 4428. — Myc. 4634, 4697.
 Carica — Py. 2657.

- Carlina — Sp. 3829.
 Carpinus — Hy. 584. — Py. 2080, 2251, 2696. — D. 2371, 2918, 2919, 2924 — Sp. 3911. — Me. 3993. — Myc. 4669, 4722, 4729.
 Carya — Py. 1779, 1948, 1953, 2071, 2277. — M. 3118. — Sp. 3420.
 Cascara — H. 4115.
 Cassava — H. 4422.
 Cassia — Ur. 1293, 1294, 1295, 1411, 1412.
 Cassiope — H. 4322.
 Castagnea — Py. 2263.
 Castanea — D. 2889, 2890, 2933. — Sp. 3244, 3443, 3517. — Me. 3994. — H. 4317. — Myc. 4661, 4669, 4672, 4722.
 Castilleia — Ur. 1433. 1434, 1435. — Py. 2013, 2170.
 Casuarina — Sp. 3377.
 Cathestecum — Us. 1547.
 Cattleya — Sp. 3545. — H. 4473.
 Ceanothus — D. 2977. — Sp. 3624.
 Celastrus — Sp. 3185, 3520, 3521, 3537, 3597.
 Celtis — Py. 1818, 2114. — Pr. 3098. — Sp. 3561, 3643. — Me. 4099.
 Cenchrus — Ur. 1247. — Us. 1535, 1598, 1614.
 Centaurea — Sp. 3458.
 Cerastium — Ur. 1314. — Py. 2311. — Sp. 3503, 3673.
 Ceratonia — Myc. 4732.
 Cerbera — Py. 1966. — Sp. 3593, 3763.
 Cercis — Sp. 3167. — H. 4467.
 Cereus — Ur. 1312. — Sp. 3515, 3915. — Me. 3965. — Myc. 4579.
 Cetraria — Py. 2634.
 Chærophyllum — D. 2893, 3022.
 Chætanthera — Ur. 1423.
 Chætogastra — Ur. 1045.
 Chætophora — P. 1685.
 Chamædorea — Py. 1993.
 Chamæcyparis — Myc. 4764.
 Chamærops — Sp. 3248, 3665, 3918, — H. 4365.
 Chara — P. 1673, 1713, 1721, 1725, 1726, 1734.
 Chelidonium — Py. 2000, 2152. — Sp. 3154, 3270.
 Chelone — Ur. 1148.
 Chenopodium — Py. 2595. — Sp. 3240, 3736. — H. 4231.
 Chionanthus — H. 4416.
 Chloris — Us. 1548, 1599. — Py. 2575. — Sp. 3480.
 Chlorogalum — Ur. 994.
 Chrysanthemum — Sp. 3326.
 Chrysobalanus — H. 4403.
 Chrysophyllum — Sp. 3231.
 Chrysopogon — Ur. 1241, 1242. — Us. 1604. — Py. 2252. — D. 3026. — Sp. 3957.
 Chusquea — Hy. 596, 618, 670, 867. — Py. 1892, 1941, 2182, 2183, 2269, 2411, 2422, 2436, 2476, 2569, 2624, 2646, 2680. — D. 2933, 2952, 3003.
 Cichorium — Py. 2012.
 Cinchona — Myc. 4812, 4814.
 Cineraria — Ur. 1502.
 Cinna — H. 4453.
 Cinnamomum — Sp. 3361.
 Circæa — H. 4215. — Myc. 4688.
 Cirsium — Ur. 1103. — Py. 2356. — D. 2880, 3013. — H. 4187, 4496.
 Cissus — Ur. 1316. — Us. 1585. — Py. 2746.
 Cistus — Py. 2280. — Sp. 2592.
 Citharexylon — Py. 1980.
 Citrullus — Py. 2379.
 Citrus — Py. 1798. — Sp. 3913. — H. 4152, 4153, 4155. — Myc. 4597, 4698, 4713, 4768.
 Cladium — Ur. 1211.
 Cladonia — D. 3038. — Sp. 3429.
 Cladophora — P. 1674.
 Clarionea — Ur. 1072.
 Clavaria — H. 4199.
 Clematis — Py. 2651. — D. 2959. — Sp. 3149, 3150, 3267, 3268, 3483, 3667, 3867. — Me. 4039. — H. 4366.
 Cliffortia — Sp. 3319.
 Cliftonia — Py. 2721. — Me. 4069.
 Clinopodium — Sp. 3339, 3835, 3884, 3885.

- Clivia — H. 4534.
 Closterium — P. 1651, 1706, 1707, 1708.
 Clusia — Sp. 3160.
 Crenidictus — L. 2761.
 Cnidioscolus — Ur. 984, 1381.
 Cobrea — Sp. 3232.
 Coccoloba — Ur. 1451. — Me. 4077.
 Cocconema — P. 1652.
 Cocculus — Py. 2717. — Sp. 3284, 3596.
 Cochlearia — Sp. 3275, 3484.
 Cocos — Hy. 347, 427. — Sp. 3247, 3383, 3649.
 Codium — Sp. 3463. — Me. 3985.
 Coffea — Py. 1775, 1799, 1965, 2579, 2635, 2641, 2647. — Sp. 3220, 3358, 3403, 3544, 3837, 3917. — Me. 3978 — H. 4516.
 Coix — Us. 1520.
 Colebitum — Sp. 3859.
 Coleosanthus — H. 4408.
 Colignonia — Ur. 1383.
 Colhea — Py. 2533.
 Colletia — Py. 2612.
 Collinsia — Ur. 1371.
 Colubrina — Py. 2653.
 Colutea — Py. 1752. — Sp. 3327.
 Combretaceæ — Py. 2495.
 Commelina — Ur. 1469, 1473. — Me. 4025, 4101.
 Compositæ — Ur. 1122, 1123, 1124, 1125. — Py. 2545.
 Coraptonia — Sp. 3558.
 Conferva — P. 1678, 1687.
 Coniferae — Hy. 687.
 Conium — Ur. 1033. — Myc. 4682.
 Convallaria — Sp. 3440, 3919. — Me. 4003. — Myc. 4690, 4740, 4741.
 Convolvulaceæ — Ur. 976, 1429.
 Convolvulus — Sp. 3687.
 Conyza — Ur. 1021, 1094, 1350.
 Coprinus — Myc. 4650.
 Coprosma — Ur. 1132. — Sp. 3359.
 Cordia — Ur. 1365. — Py. 2251. — Sp. 3506.
 Cordiaceæ — Ph. 3082.
 Cordylina — Me. 4024.
 Coriaria — Py. 2217, 2468. — Sp. 3557.
 Cornus — Py. 1837, 1981, 2026. — D. 3060. — Sp. 3192, 3296, 3308, 3549, 3735. — Me. 4008 — H. 4404. — Myc. 4783.
 Correa — Ur. 1042.
 Corticium — Py. 2418. — H. 4149.
 Corydalis — Us. 1564.
 Corylus — Py. 1839, 1995, 2079, 2081, 2242, 2335, 2341. — D. 2890, 3060. — Sp. 3372, 3402, 3891, 3901. — Me. 4072. — Myc. 4837, 4840.
 Cosmarium — P. 1686.
 Costus — Ur. 991.
 Cotoneaster — Sp. 3173.
 Couepia — Py. 2665. — D. 3059.
 Cratægus — Ur. 1332. — Py. 1806, 2692. — D. 2989, 3068. — Sp. 3175, 3312, 3437, 3527, 3528, 3606, 3660, 3678, 3679, 3728, 3729, 3730, 3731, 3899. — Me. 4009, 4066. — H. 4350, 4354. — Myc. 4659.
 Craterispermum — Py. 2629.
 Crepis — Ur. 1088, 1089. — Sp. 3830.
 Cressa — Ur. 1158.
 Crocus — Myc. 4768.
 Crotalaria — Ur. 1329.
 Croton — Ur. 1466, 1467. — Py. 2551. — Me. 3984. — H. 4421.
 Crusea — Ur. 1131.
 Cryptanthe — Ur. 1238.
 Cucubalus — Sp. 3301.
 Cucumis — H. 4344.
 Cucurbita — H. 4162, 4179, 4456, 4503. — Myc. 4582, 4703, 4704.
 Cucurbitaceæ — Py. 2589.
 Cucurbitaria — Hy. 730.
 Cuphea — Ur. 1404.
 Cupressus — Sp. 3472.
 Cureuligo — Py. 2116.
 Cussonia — Sp. 3302.
 Cyathea — Py. 2577.
 Cycas — Sp. 3436, 3753, 3855. — Me. 4082. — H. 4112.
 Cydonia — Sp. 3177. — Myc. 4368.
 Cynanchum — Me. 4086.
 Cymps — D. 2661.
 Cynodon — Us. 1515. — Py. 1801.

- Cynoglossum — H. 4496.
 Cyperaceæ — Py. 2565.
 Cyperus — Ur. 1209, 1210, 1212, 1481.
 Cyrilla — Py. 2747.
 Cyrtorhyncha — Ur. 1026.
 Cytisus — Py. 1809. — D. 2907. — Sp. 3325, 3566, 3708. — Me. 4041.
 Dactylis — D. 2872. — Myc. 4627.
 Dactyloctenium — Us. 1513, 1544.
 Dahlia — Myc. 4575, 4706.
 Dalbergia — Ur. 1410. — Py. 2534.
 Dalea — Ur. 1265.
 Dammara — Sp. 3246.
 Daphne — Ur. 1457. — Sp. 3363, 3631.
 Dasylirion — Sp. 3413.
 Datura — Sp. 3349. — Myc. 4706.
 Daucus — Myc. 4554, 4583, 4707.
 Decostea — Sp. 3399.
 Deidamia — Py. 2640.
 Dendroctonum — H. 4484.
 Dendromecon — Py. 2344.
 Desmodium — Ur. 935, 936, 937, 1323, 1419. — P. 1668. — Py. 2535. — Sp. 3166. — H. 4508. — Myc. 4716.
 Deutzia — Ur. 1330. — Sp. 3286.
 Deyeuxia — Py. 2275.
 Dianella — Ur. 1478.
 Dianthus — H. 4378, 4490.
 Dichelostemma — Ur. 1206.
 Dicranum — Myc. 4576.
 Dictamnus — Sp. 3295.
 Didymopanax — Py. 1782.
 Didymophysa — Ur. 1031.
 Digitalis — Py. 2041.
 Dilleniaceæ. — Sp. 3905.
 Diodia — Ur. 1131.
 Diopsis — L. 2763, 2764.
 Dioscorea — Ur. 1468. — Sp. 3258, 3365.
 Diospyros — Ur. 1353. — Py. 2319, 2416. — Sp. 3401, 3411, 3770. — H. 4405, 4444.
 Diplodia — Py. 2426.
 Diplostephium — Py. 2438.
 Diplothium — Py. 2604.
 Dispacus — Myc. 4706.
 Distichlys — Ur. 1260. — Py. 2576.
 Ditassa — Ur. 1163, 1450.
 Dolichos — Sp. 3322.
 Doronicum — Sp. 3209, 3681.
 Dorstenia — Ur. 1384.
 Draba — Ur. 1030.
 Dracæna — Py. 1789. — Sp. 3259.
 Dryas — Py. 2284. — Sp. 3318.
 Dysoxylum — Py. 1784.
 Echites — Py. 1773.
 Echinum — Sp. 3473.
 Ectropothecium — Hy. 846.
 Ehrharta — Ur. 1285.
 Elæagnus — Ur. 1303. — Py. 2086. — Sp. 3537, 3635, 3718.
 Elæis — Hy. 123, 621. — Py. 1887.
 Elephantopus — Ur. 1276, 1424.
 Elettaria — Py. 1759, 1889, 1954, 2056, 2101, 2260, 2261, 2267, 2268, 2367, 2370, 2384, 2385, 2387, 2434, 2439, 2490, 2751. — M. 3099.
 Elymus — Ur. 1226 — Py. 2186, 2698. — Myc. 4627.
 Elyna — Us. 1619.
 Elytraria — Ur. 1152.
 Emmotum — Py. 2609.
 Empetrum — Sp. 3717.
 Encelia — Ur. 1079.
 Ephedra — Py. 2336.
 Epicampes — Ur. 1005.
 Epidendrum — Ur. 1477. — Sp. 3508.
 Epilobium — Ur. 1050. — Py. 1750. — Sp. 3182, 3803. — Me. 3960 3969. — H. 4213, 4214. — Myc. 4706. 4800.
 Equisetum — Sp. 3579. — H. 4523, 4530, 4531.
 Eragrostis — Us. 1556. — H. 4337.
 Erechthites — Ur. 1085.
 Erianthus — Py. 2731. — Sp. 3758.
 Erica — Py. 1771, 2742. — D. 3017. — Sp. 3222, 3471.
 Ericinella — Py. 1770.
 Erigeron — Ur. 1091, 1092. — Py. 1769. — Sp. 3335, 3381. — Myc. 4706.
 Eriobotrya — Me. 4067.
 Eriodendron — Py. 1939.
 Eriogonum — Me. 3989. — H. 4423.

- Eriophorum — Py. 2753.
 Eriosema — Ur. 938, 1324.
 Eriospermum — Ur. 1390.
 Erodium — H. 4218.
 Eryngium — D. 3055. — Myc. 4580.
 Erythrina — Hy. 798. — Sp. 3438. —
 Me. 4018. — Myc. 4615, 4759.
 Erythrophleum — Sp. 3609.
 Erythroxylois — Ur. 1022.
 Escallonia — Py. 2005. — D. 3045.
 Esterhazyia — Py. 2676.
 Eucalyptus — Ur. 1508. — Py. 1840,
 1975, 1976, 2397. — Sp. 3189, 3190,
 3322, 3766. — Me. 3975. — H. 4504.
 — Myc. 4591, 4897, 4913.
 Eucharis — Ur. 1472.
 Eugenia — Ur. 1406. — Sp. 3320, 3321.
 — H. 4460.
 Euglena — P. 1654.
 Eulobis — Ur. 1051.
 Eupatorium — Ur. 1117, 1118, 1119,
 1351, 1422. — Py. 2287. — Sp. 3211,
 3456, 3457, 3927.
 Euphorbia — Hy. 540, 763, 803. — Ur.
 985, 986, 937, 1012, 1013, 1177, 1490,
 1461, 1462. — Py. 2467. — D. 2892.
 — Sp. 3236, 3370, 3394, 3489, 3719.
 — H. 4133, 4296, 4419, 4436. — Myc.
 4565, 4687.
 Euphorbiaceæ — Ur. 988, 1178. — Py.
 1787, 2192, 2553.
 Enterpe — Hy. 847, 877.
 Erythronium — Sp. 3291, 3292, 3382, 3670.
 — Myc. 4587.
 Eysenhardtia — Ur. 1266.

 Fabiana — Sp. 3619.
 Fagouia — Sp. 3800.
 Fagopyrum — H. 4292.
 Fagus — Hy. 81, 520, 522, 538, 584,
 593, 600, 601, 675, 676, 713, 718, 745,
 755, 771, 773, 866. — Ur. 1017. —
 P. 1639. — Py. 1846, 2072, 2194, 2224,
 2225. — D. 2871, 3018. — Sp. 3749,
 3751. — H. 4264. — Myc. 4594. —
 4604, 4722, 4724, 4806, 4833, 4835,
 4841, 4850, 4851, 4897.

 Falcaria — Sp. 3195, 3477, 3818.
 Ferula — Sp. 3680.
 Festuca — Ur. 1234, 1483. — Us. 1555.
 — Py. 2118, 2190, 2248. — Myc.
 4627.
 Ficus — Hy. 181, 559, 607. — Ur. 1459.
 — Py. 1832, 2554, 2555, 2613. — D.
 2976. — Sp. 3241, 3646, 3854, 3939.
 — H. 4382, 4495.
 Feijoa — Py. 2539.
 Filices — Hy. 791. — Py. 2727. — D.
 2874. — Me. 4056.
 Flourensia — Ur. 1063.
 Fomes — Py. 1751.
 Forsteronia — Ur. 1448. — Py. 1772.
 Fragaria — Me. 4043. — Myc. 4576.
 Frasera — Sp. 3685, 3724.
 Fraxinus — Py. 1824, 1844, 1955, 2065,
 2240. — 2256, 2638, 2693. — D. 2920.
 — Sp. 3229, 3352, 3433, 3448, 3500,
 3501, 3533, 3534, 3535, 3637, 3747,
 3955. — Me. 3983. — H. 4293, 4305,
 4519. — Myc. 4576, 4593, 4596, 4609,
 4671, 4721, 4726.
 Funkia — Ur. 1200. — Py. 2246, 2437.
 Sp. 3493.

 Gadua — Py. 2623.
 Galactia — H. 4400.
 Galanthus — H. 4171, 4238.
 Galeopsis — Sp. 3333, 3886.
 Galerucella — H. 4169.
 Galinsoga — Sp. 3334.
 Galium — Py. 1982, 2014, 2167, 2359.
 — Sp. 3742. — H. 4481, 4483.
 Galphimia — Ur. 963.
 Gammarnus — P. 1689.
 Gamocarpha — Ur. 1126.
 Gardouia — Ur. 1136.
 Garrya — Sp. 3346.
 Gaultheria — Me. 4071.
 Gaylussacia — Hy. 776.
 Gayophytum — H. 4397.
 Geanthus — Ur. 1391.
 Geitonoplesium — Py. 2669.
 Genista — Hy. 795. — Py. 2316. — Sp.
 3326.

- Gentiana — Py. 2749. — Sp. 3342. —
 Myc. 4573, 4681.
 Geranium — Ur. 1041. — Sp. 3936.
 Gesneriaceæ — Py. 2039.
 Geum — Ur. 1043. — Sp. 3811. — H.
 4180.
 Gibberella — Sp. 3426.
 Gilia — Ur. 1175. — P. 1143.
 Giseckia — Hy. 781.
 Gladiolus — Ur. 992. — Sp. 3950.
 Gleditschia — Ur. 1281. — Sp. 3331,
 3523, 3551.
 Globularia — Py. 2293.
 Glottidium — H. 4399.
 Glyceria — Us. 1609. — Myc. 4627.
 Glycine — Ur. 1327.
 Glycyrrhiza — Ur. 945, 946.
 Gnaphalium — Me. 4096.
 Gomphocarpus — Ur. 1172. — Sp. 3890.
 Gomphonema — P. 1687.
 Gordonia — H. 4463.
 Gossypium — Ur. 1307. — Py. 1875,
 2124, 2281, 2316, 2379. — Sp. 3656.
 — Me. 4027.
 Gouania — Ur. 1397.
 Gramineæ — Ur. 1569. — Py. 1800,
 1893, 2566, 2567, 2568, 2599, 2625.
 — D. 2927. — Sp. 3761.
 Grevillea — Py. 2663.
 Grindelia — H. 4403.
 Griselinia — Ur. 1053.
 Gryllus — H. 4130.
 Guatteria — Ur. 1300.
 Guilleminea — Ur. 1191.
 Gunnera — D. 2933.
 Gutierrezia — Sp. 3710, 3781. — H. 4316.
 Gymnogramma — Ur. 1494.
 Gymnosporia — Py. 1761.
 Gymnothryx — Ur. 1239, 1240.
 Gynerium — Us. 1546.
 Gypsophila — Ur. 962.
 Gyrophora — Py. 2053.

 Habenaria — Ur. 1194.
 Habranthus — Ur. 1202, 1203.
 Hackea — Py. 2672.
 Halipilus — L. 2761.
 Haplopappus — Py. 2590. — Sp. 3316.
 Hedera — Sp. 3754. — Myc. 4739.
 Heimia — Sp. 3306.
 Heleocharis — Myc. 4633, 4634.
 Helianthella — H. 4240.
 Helianthemum — Py. 2279. — Sp. 3155,
 3156, 3797, 3876.
 Helianthus — Py. 2357. — H. 4221,
 4486, 4512. — Myc. 4577, 4704, 4707.
 Helichrysum — Ur. 963.
 Heliconia — Ur. 1475.
 Heliopsis — Sp. 3324.
 Heliotropium — Ur. 973. — Sp. 3343.
 Helleborus — Hy. 774, 837. — Py. 1899.
 — D. 3053. — Sp. 3148, 3565. —
 H. 4205.
 Helosciadium — Me. 4044.
 Helvella — H. 4201, 4202.
 Hemerocallis — Myc. 4702.
 Hemipogon — Ur. 1169.
 Hemithelia — D. 3049.
 Hepatica — Sp. 3481, 3873.
 Hepaticæ — D. 3014.
 Heracleum — Sp. 3193, 3483. — H.
 4371, 4372.
 Hesperis — Py. 2353. — Sp. 3374.
 Heteranthera — Ur. 1471.
 Heteromorpha — Ur. 1334.
 Heteropogon — Us. 1567.
 Heuchera — Sp. 3200, 3201.
 Hibiscus — Py. 2531. — Sp. 3307. —
 Me. 4016, 4105. — H. 4393, 4394.
 Hieracium — Sp. 3206.
 Hierochloa — Sp. 3776.
 Hippophaë — D. 2978. — Sp. 3490, 3634.
 Hippuris — P. 1696.
 Hohenbergia — Sp. 3384.
 Holcus — Myc. 4627.
 Homalocenchrus — Us. 1577.
 Hookeria — Hy. 844.
 Hordeum — Ur. 1232. — Sp. 3863. —
 H. 4288. — Myc. 4627.
 Hormiscia — P. 1661.
 Houstonia — Ur. 1360. — P. 1745.
 Humulus — Py. 1968, 2024. — Sp. 3575,
 3787.
 Hutchinsia — Ur. 1023.

- Hyacinthus — Sp. 3692. — H. 4489.
 — Myc. 4706. 4742.
 Hydrangea — Py. 2093.
 Hydrocharis — Myc. 4566.
 Hydrodictyum — P. 1724.
 Hydrophyllum — Sp. 3833.
 Hydporus — L. 2762.
 Hymenophyllum — Hy. 787. — H. 4167.
 Hyoscyamus — Sp. 3632, 3715, 3716.
 Hypericum — Ur. 1304, 1395. — Py.
 2271. — Sp. 3279, 3280, 3377. — H.
 4302.
 Hypnum — H. 4475. — Myc. 4639,
 4640, 4643, 4755.
 Hypochmus — Hy. 767.
 Hypochaeris — Ur. 1090. — Sp. 3882.
 — H. 4219.
 Hypoxis — Ur. 1207.
 Hypoxylon — D. 2987.
 Hyptis — Ur. 1270, 1376, 1444. — H.
 4415.
 Hyssopus — Sp. 3623.

 Iberis — H. 4324. — Myc. 4799.
 Ichnocarpus — Sp. 3365.
 Idesia — Ur. 1014. — Sp. 3294. — H.
 4307.
 Ildefonsia — Py. 2636.
 Ilex — Hy. 784. — Ur. 1317. — Py.
 2264, 2375, 2652, 2713, 2719, 2720,
 2735. — Sp. 3184, 3233, 3768, 3944,
 3948. — Me. 3962. 3963.
 Illicium — Py. 1960. — Py. 2674, 2716.
 Imbricaria — Sp. 3580.
 Indigofera — Ur. 1290, 1291, 1417. —
 D. 2783. — Sp. 3608.
 Inga — Py. 2354.
 Inula — Ur. 1314. — Sp. 3213, 3382,
 3613, 3825. — H. 4185.
 Ipomoea — Ur. 1428. — P. 1628, 2019.
 — Sp. 3345.
 Iresine — Py. 1778.
 Iris — Hy. 430. — Py. 1900, 2177,
 2178. — Sp. 3414, 3466. — H. 4134,
 4237, 4297. — Myc. 4625, 4706, 4726,
 4797.
 Isaria — Py. 1849.
- Isatis — Ur. 1302.
 Ischæmum — Us. 1563.
 Isnardia — Ur. 1333.
 Isolepis — Ur. 1208.
 Iva — Sp. 3459.

 Jambosa — Sp. 3916.
 Jasione — Sp. 3894.
 Jasminum — Ur. 979, 1351. — Sp. 3746.
 Jatropha — Ur. 983.
 Joannesia — Ur. 1074.
 Jobinia — Ur. 1193.
 Jochroma — Py. 2633. — H. 4410.
 Jubæa — Py. 2180.
 Juglans — Py. 1833, 2269. — Sp. 3374,
 3375, 3442, 3541, 3790. — Me. 4015,
 4047. — Myc. 4722, 4851.
 Julocroton — Py. 2552.
 Juneus — Py. 2135, 2303. — D. 2926,
 2928, 2951, 3021, 3054. — Sp. 3337,
 3773, 3911. — H. 4391, 4480. —
 Myc. 4693.
 Jungermannia — Py. 3327.
 Jungia — Ur. 1073. — H. 4513.
 Juniperus — Hy. 769. — Py. 2176. —
 D. 2934, 2937, 2943. — Sp. 3391. —
 Me. 4078.
 Jussiaea — Sp. 3801, 3802. — Me 4017.
 Justicia — Sp. 3346.

 Kageneckia — Py. 2558.
 Kalnia — Sp. 3338.
 Kennedya — Sp. 3329.
 Kentia — Py. 1903.
 Kielmeyera — Sp. 3164.
 Knautia — Sp. 3333. 3331
 Kyllingia — Ur. 1430.

 Labiatae — Py. 2169.
 Laccophilus — L. 2762.
 Lactarius — P. 1641.
 Lactuca — Me. 4045. — Myc. 4706.
 Lafoënsia — Sp. 3181.
 Lagenophora — Cs. 1509.
 Lagophylla — Ur. 1075.
 Lampsana — Sp. 3205, 3416.
 Landolphia — Sp. 3641.

- Lantana* — Ur. 972.
Lapageria — Sp. 3386. — Me. 4083.
Lappa — Py. 2010. — D. 2900. — H. 4186, 4222 — Myc. 4685.
Larix — Ky. 553. — Hyp. 1626. — Py. 1793, 2026, 2326, 2735. — Sp. 3959. — H. 4330.
Laserpitium — Py. 1972, 2008, 2164, 2286. — Me. 4019.
Latania — Py. 1337.
Lathrobium — L. 2770.
Lathyrus — Ur. 948, 949. — Py. 2343. — Myc. 4575.
Lauraceæ — Ur. 1456. — Py. 2492.
Laurus — Py. 2694. — Sp. 3690, 3744, 3942. — Myc. 4727, 4738, 4739, 4786, 4897.
Lecanora — Py. 2051.
Leersia — Us. 1621. — H. 4314, 4335.
Leguminosæ — P. 1704. — Py. 1776, 2622.
Lens — Ur. 1418.
Leonia — Py. 2639.
Leonotis — Ur. 1375, 1446, 1447.
Leontopodium — Ur. 1081, 1343.
Leonurus — Sp. 3688.
Leptochloa — Ur. 1549.
Lepedeza — Py. 2157. — H. 4398.
Leucanthemum — Py. 2011, 2358.
Leuceria — Ur. 1076.
Leucobryum — Hy. 692.
Leucojum — Ur. 1225.
Leucothoë — Hy. 783. — Py. 2673.
Levisticum — H. 4217.
Libanotis — Py. 1973.
Licania — Ur. 1407.
Lichenes — H. 4376, 4473.
Ligusticum — Ur. 1061. — Py. 2266.
Ligustrum — Ur. 1355. — Py. 2097. — Sp. 3783.
Lilæa — Us. 1603.
Lilium — P. 1640. — Py. 1852. — A. 2894. — Sp. 3467. — Myc. 4702, 4743.
Limoniastrum — Py. 2294. — Sp. 3217.
Limosella — P. 1648.
Linaria — Py. 2021, 2022, 2239.
Linifera — Py. 1570. — Sp. 3735.
Linnaea — Sp. 5943. — Myc. 4717.
Linum — Ur. 1008.
Lippia — Sp. 3344, 3714, 3951.
Liquidambar — D. 2860.
Liriodendron — Py. 1825. — Sp. 3499, Hy. 4548. — Myc. 4779.
Listera — Sp. 3860.
Livistona — Py. 2262.
Lobelia — Ur. 1129.
Lolium — Myc. 4627.
Lonicera — Ur. 1135. — Py. 2208, 2292, 2348. — D. 2950, 3070. — Sp. 3356, 3683, 3883, 3951. — Me. 4070, X. 4353, 4517, 4561.
Lophanthus — H. 4224.
Lophocolea — Py. 2386.
Loranthus — Ur. 980, 1309, 1310.
Lotus — D. 2875. — H. 4181, 4377.
Ludia — Myc. 4795.
Luffa — H. 4170.
Lunaria — H. 4323.
Lupinus — Me. 4094. — H. 4182. — Myc. 4706.
Luzula — Us. 1517.
Lychnis — Ur. 961. — D. 3047. — Sp. 3804. — H. 4209.
Lycium — Ur. 1160. — Py. 2123, 2313, 2445. — Me. 4014.
Lycoperdon — H. 4129.
Lycopersicum — H. 4127, 4328, 4390.
Lycopodium — Myc. 4747.
Lycopus — Sp. 3928.
Lygodesmia — Py. 1797.
Lyonsia — D. 2887.
Lysimachia — Ur. 1176. — Sp. 3230.
Maba — Ur. 1378.
Machærium — Ur. 1415. — Py. 2587.
Maclura — Sp. 3540, 3349. — Myc. 4784.
Macrochloa — Py. 1835.
Magnolia — H. 285, 736. — Py. 1763, 2147, 2255, 2368. — Sp. 3518, 3582, Myc. 4785.
Magydaris — Ur. 1062.

- Mahonia — Py. 1829. — Sp. 3152, 3153, 3274.
 Majanthemum — H. 4236.
 Malcolmia — Sp. 3700.
 Malpighiaceæ — Ur. 1399. — Py. 2532.
 Malva — Sp. 3702. — H. 4370.
 Malvastrum — Ur. 1306.
 Manettia — Ur. 965, 1134.
 Mangifera — Py. 2630.
 Manihot — Ur. 981, 982. — H. 4420.
 Mapania — Py. 1974.
 Marrubium — Sp. 3340.
 Matthiola — Sp. 3794.
 Maxillaria — Me. 3999.
 Mayepea — D. 3046.
 Medicago — P. 1695 — Myc. 4768.
 Melaleuca — Py. 2729.
 Melampodium — Ur. 1086.
 Melampyrum — Ur. 1143. — H. 4125.
 Melandryum — Ur. 960. — Py. 2153. — Sp. 3300.
 Melanthera — Ur. 1077.
 Melastoma — Py. 2395.
 Melastomaceæ — Hy. 198. — Py. 1794, 1800, 2064.
 Melchioria — Py. 2384.
 Melia — Hy. 518 — Sp. 3601, 3602
 Melilotus — Me. 3971.
 Meliola — Py. 1761. — H. 4459, 4463.
 Meliolopsis — Py. 2425.
 Melosira — P. 1675.
 Menispermum — Sp. 3451. — Me. 3964. — H. 4299.
 Mentha — Py. 2015, 2168.
 Mertensia — Sp. 3841.
 Merulius — Myc. 4699.
 Mesocarpus — P. 1653, 1655.
 Mespilus — Myc. 4669.
 Metastelma — Ur. 1170.
 Mitragyne — Ur. 1272.
 Metrosideros — Sp. 3179.
 Miconia — Py. 2537, 2704. — D. 2955.
 Micrococcus — M. 3136.
 Microseris — Ur. 1073.
 Mikania — Ur. 1339. — D. 2888.
 Milium — Ur. 1235.
 Mimosa — Ur. 1268, 1282.
 Mimulus — Sp. 3449.
 Mirabilis — Ur. 1382.
 Mœhringia — Ur. 1038.
 Mogiphanes — Ur. 1454.
 Molinia — Ur. 1143. — D. 2928. — Myc. 4627.
 Mollinedia — Ur. 1377.
 Momordica — Ur. 1311.
 Monimiaceæ — Ur. 1379.
 Monnina — Sp. 3798.
 Monochætum — Sp. 3323.
 Montanoa — Ur. 1349.
 Montia — Us. 1612.
 Morus — P. 1703. — Py. 2174, 2606. — Sp. 3588. — H. 4146, 4196, 4469, 4474. — Myc. 4589, 4917.
 Muehlenbeckia — Py. 2098. — Sp. 3642.
 Muehlenbergia — Ur. 1004, 1484. — H. 4429.
 Mulgedium — H. 4379. — Myc. 4791.
 Mulinum — Ur. 956.
 Mundulea — Ur. 1289.
 Musa — Py. 2418, 2441. — H. 4118.
 Musanga — Sp. 3664.
 Musca — H. 4176.
 Muscari — Sp. 3856. — H. 4344.
 Musci — P. 1710. — Py. 2232.
 Mutisia — Ur. 1099.
 Myrcia — Ur. 1046.
 Myrica — Sp. 3847. — H. 4425.
 Myricaria — Sp. 3502.
 Myriophyllum — Myc. 4566.
 Myrsine — Ur. 975. — Sp. 3748.
 Myrtaceæ — Ur. 1331. — Us. 1508. — Py. 1777, 2038, 2109, 2479, 2540, 2541, 2542, 2603, 2631, 2671. — Sp. 3427, 3870, 3923. — Myc. 4590.
 Myrtus — Me. 4063.
 Myxomycetes — H. 4160.
 Nandina — Sp. 3271, 3779.
 Nardus — Myc. 4627.
 Nasturtium — P. 1691.
 Nectandra — Ur. 1455. — P. 1735.
 Nectria — H. 4506.
 Negundo Sp. 3498, 3586, 3598. — Me. 4050.

- Nemesia — Ur. 1023.
 Nepeta — Py. 2321.
 Nephrophyllum — Ur. 1159.
 Nerium — Sp. 3368.
 Nesæa — Ur. 1048.
 Neurocarpus — Ur. 941.
 Nicandra — Myc. 4600.
 Nicotiana — Py. 2020. — Sp. 3888. —
 H. 4114.
 Nipa — Py. 2710.
 Nissolia — Ur. 1267.
 Nitella — P. 1678.
 Nitzschia — P. 1652.
 Nuphar — Me. 3961.
 Nymphæa — Me. 3961.
 Nyssa — Myc. 4773.

 Ocotea — D. 2991.
 (Edogonium — P. 1650, 1659, 1679,
 1687, 1709, 1711.
 Enothera — Ur. 1049. — Py. 2685. —
 Sp. 3547. — Me. 4059. — H. 4349,
 4396.
 Oidium — Sp. 3469.
 Olea — Py. 2723. — D. 2967. — H.
 4491. — Myc. 4783.
 Oleandra — Us. 1593.
 Olyra — Py. 2571. — Myc. 4627.
 Onagraceæ — P. 1665.
 Oneoba — Py. 1764.
 Onobrychis — Us. 1044. — Sp. 3880.
 Ononis — Sp. 3567, 3568.
 Opercularia — Ur. 1192.
 Oplismenus — Py. 2502.
 Opuntia — Py. 1853, 2317, 2417. — D.
 2947. — Myc. 4579, 4667.
 Orchidææ — Ur. 1195. — Py. 1984,
 1985, 2419, 2420, 2645. — Sp. 3255,
 3494, 3495, 3650, 3756, 3861. — Me.
 4023. — H. 4262.
 Orectogyrus — L. 2767.
 Oreodoxa — Myc. 4610.
 Origanum — Sp. 3834.
 Ornithidium — Me. 4000.
 Ornithogalum — P. 1670. — Py. 2029.
 Orobanche — Sp. 3686. — Myc. 4708.
 Orobus — Py. 2002.

 Oryza — Us. 1578, 1623. — D. 3080.
 — H. 4156. — Myc. 4636, 4637.
 Oryzopsis — Us. 1536.
 Oscillaria — P. 1680.
 Osmorhiza — Ur. 1059,
 Ostrya — D. 2078. — Sp. 3750.
 Osyris — Py. 2296. — Sp. 3633.
 Ourisia — Us. 1149, 1150.
 Oxalis — Ur. 1040. — H. 4132.
 Oxyctanthus — Ur. 980.
 Oxydeadron — Sp. 3223. — H. 4518.
 Oxyria — Myc. 4567.

 Pachygone — Py. 2717.
 Pachytele — L. 2759.
 Pæderia — Ur. 1361.
 Pæonia — Py. 2745. — Sp. 3269, 3791.
 — H. 4172.
 Paliurus — D. 3081.
 Palmæ — Hy. 223, 270, 619, 788, 877.
 — Py. 1888, 1902, 1989, 1990, 2206,
 2390, 2485, 2582, 2713. — M. 3126.
 — Sp. 3441. — H. 4281.
 Pandanus — Hy. 230. — Py. 2751. —
 Sp. 3935. — Myc. 4624.
 Panicum — Ur. 1248, 1249, 1250, 1269.
 — Us. 1526, 1527, 1528, 1529, 1530,
 1531, 1532, 1533, 1573, 1577, 1592,
 1601. — Py. 1802, 2503, 2573, 2574,
 — Sp. 3862, 3898. — H. 4336, 4361,
 4386, 4487, 4696.
 Papaver — Py. 1999. — H. 4340.
 Pappæa — Py. 2586.
 Parietaria — Ur. 1458. — Sp. 3376.
 Parkinsonia — Sp. 3452.
 Parmelia — Sp. 3263. — Myc. 4830.
 Pasithea — Ur. 1201, 1388.
 Paspalum — Ur. 1230, 1231. — Us.
 1521, 1522, 1523, 1524, 1581. — Py.
 2621. — Sp. 3775. — Myc. 4629.
 Paullinia — Py. 2583.
 Pavetta — Sp. 3355.
 Pavia — Sp. 3375.
 Pavonia — Ur. 1274, 1497.
 Pedicularis — Ur. 1010. — Py. 2360.
 — Me. 3979. — Myc. 4796.
 Pelargonium — H. 4369.

- Peltandra — Ur. 1389.
 Penicillaria — Us. 1602.
 Pennisetum — Hy. 790, 838. — Us. 1576.
 Pentas — Ur. 1133.
 Pentastemon — Ur. 1147. — Py. 2171. — Sp. 3233. — H. 4215.
 Perezia — Ur. 1101.
 Periploca — Ur. 1449.
 Perisporiaceæ — D. 2953, 2988.
 Peruettya — Py. 2493.
 Persea — Py. 2714, 2724.
 Persica — Py. 1898. — Sp. 3512. — Sp. 3897, 3900. — H. 4161.
 Pertusaria — Py. 1891.
 Petroselinum — Sp. 3819. — H. 4291, 4373.
 Peziza — H. 4191.
 Phaca — Py. 2091.
 Phalaris — Ur. 1225. — Us. 1590. — P. 1749. — Py. 2187, 2308. — Myc. 4638.
 Phaseolus — Ur. 933. — Py. 2159. — Me. 3970. — H. 4150, 4388.
 Phegopteris — P. 1672.
 Phellodendron — Sp. 3293.
 Pheropsophus — L. 2760.
 Philadelphus — Sp. 3736.
 Philibertia — Ur. 1167, 1380.
 Phillyrea — Sp. 3354. — Me. 4104.
 Phleum — Us. 1591. — Py. 2080. — Sp. 3564. — H. 4132.
 Phlox — Ur. 1269. — Sp. 3234, 3235. — Myc. 4571.
 Phoenix — Py. 2088, 2134, 2679, 2689, 2697. — H. 4166.
 Photinia — Sp. 3526, 3704.
 Phragmites — Hy. 757. — Py. 2690. — Sp. 3391, 3694, 3777. — Me. 4033. — H. 4360. — Myc. 4627.
 Phyllanthus — Us. 1465.
 Phyllarthron — Sp. 3622, 3672.
 Physalis — Py. 1786. — H. 4411.
 Physarum — Py. 2378.
 Physcia — D. 2940.
 Physoliphon — Me. 3993.
 Phyteuma — Py. 2023.
 Phytolacca — Sp. 3805. — Myc. 4832.
 Picea — Ur. 1392. — Py. 2046.
 Pieris — D. 3053.
 Pinus — Hy. 67, 98, 108, 350, 417, 516, 529, 556, 578, 600, 602, 632, 684, 695, 709, 715, 726, 963, 4551, 4558. — Ur. 1504. — Hyp. 1627. — Py. 1880, 1897, 2060, 2033, 2274, 2300, 2339, 2743, 2750. — D. 2856, 2878, 2395, 2396, 2901, 2908, 3023, 3029, 3063. — M. 3116. — Sp. 3576, 3648, 3752, 3932, 3949. — Me. 4030, 4080. — H. 4470. — Myc. 4592, 4599, 4617, 4618, 4659, 4660, 4673, 4774, 4778, 4805, 4854.
 Piper — Py. 2175. — Sp. 3464. — H. 4424.
 Piperaceæ — Py. 2664.
 Piptatherum — Ur. 1220.
 Piptocarpha — Ur. 1102.
 Pyrola — Sp. 3227.
 Pyrus — Hy. 584. — Py. 1803, 1869, 2160, 2318. — Sp. 3170, 3171, 3172, 3474, 3516, 3530. — Me. 4013. — H. 4357, 4401, 4468. — Myc. 4576, 4669. — Myc. 4713, 4722, 4852, 4919.
 Piscioidia — Py. 1854.
 Pistacia — Me. 4051, 4061.
 Pisum — H. 4303, 4338.
 Pitcairnia — Ur. 1206.
 Pithecoctenium — Ur. 156.
 Pithecolobium — Ur. 1416.
 Pittosporum — Sp. 3183, 3290, 3806.
 Plagianthus — Ur. 1035.
 Planera — H. 4351.
 Plantago — Ur. 1179. — Us. 1589. — P. 1648, 1744. — Py. 2548. — Sp. 3845, 3896 — Myc. 4801.
 Platanthera — H. 4526.
 Platanus — Py. 1759, 1813. — Sp. 3645. — Me. 4076. — Myc. 4735.
 Platycerium — Sp. 3393.
 Plectocomia — Py. 1906, 2376.
 Pleurosigma — P. 1652.
 Pluchea — Ur. 1109.
 Plumbago — Sp. 3684.
 Poa — Ur. 1237, 1486. — Us. 1554. —

- Sp. 3380, 3437, 3864. — H. 4298. —
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 Aloysiae (Pleospora). 596.
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 alpestris (Rosellinia). 500.
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Armeriæ (Phyllosticta). 857.
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Artemisiæ (Leptosphæria). 536.
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Artemisiæ (Pleospora). 596.
Artemisiæ (Rhabdospora). 986.
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Arundinariæ (Puccinia). 355.
Arundinariæ (Scleroderris). 800.
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Arundinariæ (Uredo). 406.
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Asperulæ (Uromyces). 276.
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Atractylidis (Hendersonia). 956.
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Atriplicis (Diplodina). 952.
Atriplicis (Zythia). 938.
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atro-albus (Polystictus). 185.
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atro-cyanea (Nolanea). 129.
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- atro-maculans (Aulographum). 711.
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 atro-virens (Sclerotium). 1155.
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 aurea (Pleospora). 598.
 aureo-marginatus (Polyporus). 178.
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 aureum (Cenangium). 795.
 aureum (Corticium). 219.
 aureum (Erionema). 833.
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 Auricomum (Ozonium). 1187.
 auricularia (Tremella). 251.
 auriculariiformis (Oideia). 747.
 auriformis (Marasmius). 116.
 auripes (Boletus). 169.
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 australe (Didymium). 836.
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 Avellanæ (Phoma). 884.
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 baccharidicolum (Asteridium). 700.
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 Bambusæ Atalantiæ (Meliola). 471.
 Bambusæ (Metasphaeria). 585.
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 bambusina (Erinella). 791.
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Betulæ (Dermatella). 785.
Betulæ (Fusicladium). 1078.
Betulæ (Melogramma). 580.
Betulæ (Phlæoconis). 1198.
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betulina (Melanconis). 543.
betulina (Metasphæria). 583.
betulina (Physalospora). 522.
betulinus (Panus). 122.
bibundensis (Laschia). 198.
bicincta (Montagnella). 682.
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bicolor (Glæosporium). 1005.
bicolor (Phialea). 765.
bicolor (Rhizoctonia). 1173.
bicolor (Schizoxylon). 812.
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INDEX UNIVERSALIS

COHORTIUM, FAMILIARUM, SUBFAMILIARUM, GENERUM, SUBGENE-
RUM ATQUE SYNONYMORUM PRÆGIPUORUM IN TOTO OPERE
(VOL. I-XIV) EXPOSITORUM *).

Genera recepta litteris crassis impressa sunt.

*) Plurima adsunt generum atque subgenerum synonyma, quæ in hoc indice uni-
versali desiderantur, licet suis textus locis memorata; sed hæc nomina, jam antiqua,
justis causis omnino obsoleverunt; nonnulla quoque mera mycelia aut formas plan-
tarum abnormes designant. Ad quæ genera hodierna hæc synonyma spectent facili-
negotio eruitur si nomina eorum specierum (apud STREINZII, HOFFMANNI et PEER-
FERI «Nomenclatores» invenienda) in indicibus meis inquirantur. Exempli gratia, ubi
scire velis quid sit gen. *Achitonium* (in meo indice universalis prætermissum) cfr.
STREINZII «Nomencl. fung.» in quo, quum invenias *Achitonium acicotam*, facillime
ex vol. IV. Sylloges (p. 673 et 760) videbis *Achitonium* esse synonymon *Pactiliae*.

Nomina nonnulla generum v. subgenerum recentius receptorum legenda sunt
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*) Præunte *Bacciyella* Diet., Syll. IX, 316, nomen mutatur.

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Ypsilonia — III. 215.
Zignaria — II. 219.

- Zignoella — II. 214, IX. 860, XI. 339, XIV. 657.
 Zignoïna — II. 219.
 Zodiomyces — IX. 1130, XIV. 737.
 Zoptia — I. 54.
 Zukalia — IX. 431, XI. 268.
 Zygochytium — VII. 294.
 Zygodemus — IV. 283, X. 581, X. 612, XIV. 1072.
 Zygosporium — IV. 328.
 Zythia — III. 614, X. 404, XI. 562, XIV. 938.
 Zythiae — II. 613, X. 101 *).

*) Omissiones et lapsus nonnulli in *Indicem universalem* irrepererunt: graviores sunt qui sequuntur:

- Achlyella, XI. 249. — Achlyogeton, VII. 277, IX. 348. — Actinothyrium, adde: III. 658. — Anthostomella, I. 278, IX. 505, XI. 281, XIV. 501. — Argynna, XIV. 470. — Asterina, adde: XIV. 693. — Astreptonema, XIV. 446. — Boletopsis, XIV. 164. — Camarosporium, adde: XIV. 964. — Campanella, XIV. 100. — Campiosphaeria, I. 412. — Centhospora, adde: XI. 510, XIV. 918. — Chatostroma, adde: XI. 635. — Chondrioderma, adde: XI. 461. — Clypeosphaeria, adde: XI. 326. — Corymbella, XI. 385. — Craterium, XIV. 834. — Daldinia, adde: XI. 288. — Dothidella, II. 627 (nec I). — Enclimbia, adde: IX. 442. — Entoloma, V. 679 (nec I). — Eriospora, III. 690 (nec II). — Fusicladium, X. 597 (nec V). — Gliotrichum, IV. 761. — Gloceporas, IX. 204 (nec XI). — Gonatobotryum, X. 579 (nec V). — Gymnosporeus, XIV. 824. — Gymnosporangium, XI. 205. — Heterotrichia, XI. 469. — Hyalodothis, XI. 374. — Hymenopsis, adde: X. 785. — Kickxella, adde: II. 815. — Leptonia, adde: XIV. 128. — Lophiostoma, adde: XI. 333. — Marchalia, VIII. 737 (nec VII). — Massospora, adde: IX. 335. — Melanospora, IX. 950 (nec IV). — Nonacetylus, VIII. 701 (nec VII). — Penicillitopsis, IX. 945 (nec IV). — Pucciniastrum, IX. 318 (nec IV).



