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A NEW SPECIES OF *PECTIS* (ASTERACEAE, TAGETEAE) FROM SONORA,  
MEXICO

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ABSTRACT

A new species, *Pectis vandevenderi* B.L. Turner, is described and illustrated from Mpio. de Yecora, Sonora, México. It is clearly related to *P. barberi* but differs in having mostly broader less pustulate leaves, shorter peduncles, and heteromorphic achenes.

KEY WORDS: Asteraceae, Tageteae, *Pectis*, México, Sonora, systematics

Routine identification of Mexican Asteraceae has revealed the following novelty.

***PECTIS VANDEVENDERI*** B.L. Turner, *spec. nov.* Figure 1. TYPE: MEXICO. Sonora: Mpio. de Yecora, Los Pilares, Arroyo Los Pilares (28° 23' N, 108° 47' 30" W), ca. 23 km E of Yecora, 1260 m, "common annual on base bedrock surface", 8 Sep 1995, T.R. Van Devender 95-919 (HOLOTYPE: TEX!).

Similis *P. barberi* Greenm. sed pedunculis 2-4 cm longis (vice 5-12 cm longis), achenibus discorum et radiorum similaribus (vice heteromorphorum).

Annual herbs 5-6 cm high. Stems glabrous, arising from delicate taproots. Leaves mostly basal, glabrous, the scapes 2-4 times as long as the basal clusters; petioles 1-6 mm long, ciliate with 3-5 pairs of basal cilia 2-3 mm long; blades elliptical to obovate, 1-2 cm long, 0.3-0.5 cm wide, weakly 3-nervate, the margins bearing 3-6 pairs of pustulate glands. Scapes 2-5 cm long, glabrous, bracteate with 1 or more linear-lanceolate scales 1-2 mm long. Heads single to a scape, the apices of the latter somewhat swollen. Involucres turbinate to turbocampanulate, 4-5 mm high; bracts ca. 8, purplish, glabrous, bearing 2-5 pustulate glands, mostly above the middle, the apices scarious, obtuse or rounded. Receptacles hemispheric, 3.0-3.5 mm across, 2.0-2.5 mm high, pock-marked after the achenes detach, or alveolate, the ridges

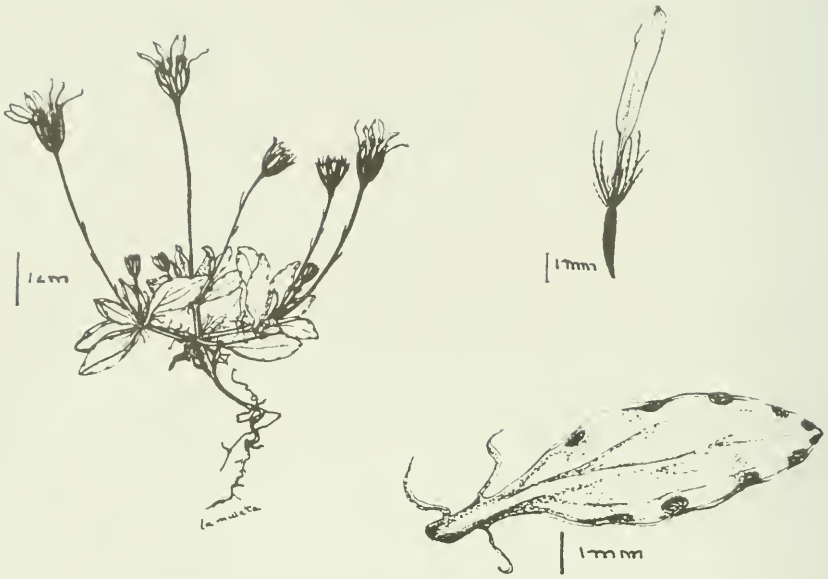


Figure 1. *Pectis vandevenderi*, from holotype; upper right, ray floret; lower right, leaf.

pubescent. Ray florets 8, yellow, pistillate; tubes 2-5 mm long, scabridulous; ligules ca. 5 mm long, 2 mm wide. Disk florets 20-30; corollas ca. 4 mm long, yellow, the lobes ca. 1 mm long. Ray and disk achenes similar, puberulent, 2.5-3.0 mm long, both surmounted by a pappus of 20-30 uneven scabridulous bristles 1-4 mm long.

*Pectis vandevendertii* is closely related to *P. barberi* but differs from it in having mostly broader, more elliptical leaves with fewer marginal pustules (3-6 pairs vs. 8-15 pairs), shorter peduncles (2-4 cm long vs. 5-12 cm long), the disk and ray achenes having a similar pappus with numerous bristles (vs. ray and disk achenes differing as to pappus).

The species is named for Thomas R. Van Devender, well known expert on packrat middens, and current compiler of the vascular plants of the Río Mayo, Sonora.

#### ACKNOWLEDGMENTS

I am grateful to Gayle Turner for the Latin diagnosis, and to her and Piero Delprete for reviewing the paper.

## TAXON INDEX TO PHYTOLOGIA VOLUMES 11-15

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### ABSTRACT

A summary of taxonomic citations found in *Phytologia* is made in order to facilitate searching for references to particular plants in the journal. The taxon index for the first volume of *Phytologia* included entries at the species level and above. However, indices for volumes 2 through 67 included entries only at the genus level and above. The present summary of taxon citations includes all citations from volumes 11 through 15. Later summaries will include the remaining volumes through volume 67. Boldface entries indicate that the taxon was originally described or a new combination produced in *Phytologia*.

KEY WORDS: Taxonomic index, new taxa, nomenclature

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AUSTRAL HEPATICAE 23. NEW TAXA AND NEW COMBINATIONS IN  
*TELARANEA* SPRUCE EX SCHIFFN. (LEPIDOZIACEAE)

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ABSTRACT

*Telaranea* sect. *Cancellatae*, sect. *Capillares*, sect. *Latifoliae*, and sect. *Transversae* are described as new sections of the genus. *Telaranea hodgsoniae*, *T. pennata*, *T. lindenbergii* var. *complanata*, *T. lindenbergii* var. *mellea*, and *T. praenitens* var. *dentifolia* are described as new species and varieties from New Zealand. *Telaranea complanata*, *T. elegans*, *T. lindenbergii*, *T. paludicola*, *T. tasmanica*, *T. tetrapila*, *T. tetrapila* var. *roseana*, *T. tetrapila* var. *cancellata*, and *T. tridactylis* are new combinations.

KEY WORDS: Hepaticae, Lepidoziaceae, New Zealand, *Telaranea*, systematics

The following new taxa and new combinations are the result of a phylogenetic study of the Australasian species of the genus *Telaranea*, which is currently in preparation by the authors, and a treatment of the genus for the first volume of a Manual of New Zealand Hepaticae. The names are here published separately to make them immediately available for use.

*Telaranea* sect. *Cancellatae* J.J. Engel & G.L. Sm. Merr., *sect. nov.* TYPE: *Lepidozia tetrapila* Hook. f. & Taylor in Taylor, London J. Bot. 5:370. 1846.

Stirpes notabiles foliis symmetricis, cellulis magnis, pulvinatis, manifeste ordinatim dispositis.

The name of the section refers to the prominent, almost geometrical arrangement of the disc cells in regular rows and tiers.

*Telaranea* sect. *Capillares* J.J. Engel & G.L. Sm. Merr., *sect. nov.* TYPE: *Lepidozia grossiseta* Steph., *Spec. Hep.* 3:584. 1909.

Stirpes foliis lobis ciliiformibus, cellulis loborum elongatis capillarisque, parietibus incrassatis, septis loborum incrassatis atque projectis distinctae.

The sectional name refers to the elongated, capillary cells of the leaf lobes.

*Telaranea* sect. *Latifoliae* J.J. Engel & G.L. Sm. Merr., *sect. nov.* TYPE: *Lepidozia meridiana* E.A. Hodgs., *Trans. Roy. Soc. New Zealand* 83:611. 1956.

Stirpes foliis plerumque longitudinaliter insertis, cellulis disci atque loborum inordinatum dispositis, disco ad basin (8-)14-16 cellulas lato dignoscendae.

The name of the section refers to the width of the leaf disc as compared to the majority of species of *Telaranea* subg. *Neolepidozia*, in which the disc is regularly eight cells wide at the insertion.

*Telaranea* sect. *Transversae* J.J. Engel & G.L. Sm. Merr., *sect. nov.* TYPE: *Lepidozia lindenbergi* Gottsche in G. L. & N., *Syn. Hep.* 213. 1845.

Stirpes foliis praecipue  $\pm$  transverse insertis (in *T. tetradactyla* typice oblique insertis), disco humili 2-3(4) cellulas alto distinguendae.

The name of the section refers to the transverse insertion of the leaves in the type species.

*Telaranea complanata* (Herzog) J.J. Engel & G.L. Sm. Merr., *comb. nov.* BASIONYM: *Lepidozia complanata* Herzog, *Memoranda Soc. Fauna Fl. Fenn.* 27(1950-1951):92. f. 39. 1952.

*Telaranea elegans* (Colenso) J.J. Engel & G.L. Sm. Merr., *comb. nov.* BASIONYM: *Lepidozia elegans* Colenso, *Trans. & Proc. New Zealand Inst.* 21:65. 1889 (1888).

*Telaranea hodgsoniae* J.J. Engel & G.L. Sm. Merr., *spec. nov.* HOLOTYPE: NEW ZEALAND. South Island: Canterbury Prov., Peel Forest, ca. 1500 ft., *Child H2084* --c. o (F); Isotype: (CHR).

*T. tetrapilae* (Taylor) J.J. Engel & G.L. Sm. Merr. aemulans, differt cellulis foliorum minoribus haud pellucidus autem obscuris, lobulis foliorum brevibus non attenuatis.

The leaf cells have a "hazy" granular appearance under the compound microscope, like frosted glass. Mrs. Hodgson's concept of *T. roseana* Steph. (Hodgson 1956)

was apparently this plant, since all of the specimens in the Christchurch Herbarium (CHR) identified by her as that species belong here; the species is named in her honor.

*Telaranea lindenberghii* (Gottsche) J.J. Engel & G.L. Sm. Merr., *comb. nov.*  
BASIONYM: *Lepidozia lindenberghii* Gottsche in G. L. & N., *Syn. Hep.* 213.  
1845.

*Telaranea lindenberghii* (Gottsche) J.J. Engel & G.L. Sm. Merr. var. *complanata*  
J.J. Engel & G.L. Sm. Merr., *var. nov.* HOLOTYPE: NEW ZEALAND. South  
Island: Otago Prov., Whare Flat, W of Dunedin, 70 m, *Engel 17641--c.* sporo.  
(F).

A *T. lindenberghii* (Gottsche) J.J. Engel & G.L. Sm. Merr. var.  
*lindenberghii* ramis distincte complanatis, foliis ramorum imbricatis incubis  
atque oblique patentibus recedit.

*Telaranea lindenberghii* (Gottsche) J.J. Engel & G.L. Sm. Merr. var. *mellea* J.J.  
Engel & G.L. Sm. Merr., *var. nov.* HOLOTYPE: NEW ZEALAND. South  
Island: Otago Prov., near Herbert, *Allison H5674* (CHR).

A *T. lindenberghii* (Gottsche) J.J. Engel & G.L. Sm. Merr. var.  
*lindenberghii* differt pigmentis dilute aeneis, caulibus rigidioris, ramis  
distantibus flagelliformibus, lobulis foliorum supra basin saepe biseriatis.

The plants are a distinctive pale bronze color, an exception to the absence of  
secondary pigmentation characteristic of the genus.

*Telaranea paludicola* (E.A. Hodgs.) J.J. Engel & G.L. Sm. Merr., *comb. & stat*  
*nov.* BASIONYM: *Lepidozia meridiana* var. *paludicola* E.A. Hodgs., *Trans.*  
*Roy. Soc. New Zealand* 83:611. *pl. 2, f. 21.* 1956.

*Telaranea pennata* J.J. Engel & G.L. Sm. Merr., *spec. nov.* HOLOTYPE: NEW  
ZEALAND. South Island: Westland Prov., Route 73, 8 miles W of Turiwhate,  
*Engel 6754* (F); Isotype: (CHR).

Species insignis, differt ramis pectinatis, foliis asymmetricis, lobis  
ventralibus ad apicem spectantibus, longitudine lobum dorsalem superantibus.

Other *Telaranea* species with asymmetrical leaves have the dorsal lobe(s) larger  
than the ventral, as in species of *Lepidozia*; the leaves of *T. pennata* are a mirror-image  
of this, with the dorsal lobe smallest, and the ventral lobes larger and brushed toward  
the branch tips. The branches are flattened and comb-like.

*Telaranea praenitens* (Hook. f. & Taylor) E.A. Hodgs. var. *dentifolia* J.J. Engel & G.L. Sm. Merr., var. nov. HOLOTYPE: NEW ZEALAND, South Island: Fiordland, Dusky Sound, Supper Cove, 11 Feb. 1946, Allan (CHR).

Varietas foliis ad marginem dentatis lobulis latioribus differt.

*Telaranea tasmanica* (Steph.) J.J. Engel & G.L. Sm. Merr., comb. nov.  
BASIONYM: *Lepidozia tasmanica* Steph., Spec. Hep. 3:580. 1900.

*Telaranea tetrapila* (Taylor) J.J. Engel & G.L. Sm. Merr., comb. nov.  
BASIONYM: *Lepidozia tetrapila* Hook. f. & Taylor in Taylor, London J. Bot. 5:370. 1846.

*Telaranea tetrapila* (Taylor) J.J. Engel & G.L. Sm. Merr. var. *roseana* (Steph.) J.J. Engel & G.L. Sm. Merr., comb. & stat. nov. BASIONYM: *Lepidozia roseana* Steph., Spec. Hep. 3:590. 1909.

*Telaranea tetrapila* (Taylor) J.J. Engel & G.L. Sm. Merr. var. *cancellata* (Colenso) J.J. Engel & G.L. Sm. Merr., comb. & stat. nov. BASIONYM: *Lepidozia cancellata* Colenso, Trans. & Proc. New Zealand Inst. 18:244. 1886.

*Telaranea tridactylis* (Lehm. & Lindenb.) J.J. Engel & G.L. Sm. Merr., comb. nov. BASIONYM: *Jungermannia tridactylis* Lehm. & Lindenb. in Lehmann, Nov. Min. Cogn. Stirp. Pug. 4:41. 1832.

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## NEW COMBINATIONS AND NEW TAXA IN THE BROMELIACEAE

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### ABSTRACT

New combinations are proposed in the genera *Werauhia* J.R. Grant and *Tillandsia* Linnaeus as follows, *Werauhia broadwayi* (L.B. Smith) J.R. Grant, *W. dodsonii* (L.B. Smith) J.R. Grant, *W. gibba* (L.B. Smith) J.R. Grant, *W. guadelupensis* (Baker) J.R. Grant, *W. haplostachya* (Sauvalle) J.R. Grant, *W. nutans* (L.B. Smith) J.R. Grant, *W. rugosa* (Mez & Wercklé) J.R. Grant, *W. urbaniana* (Mez) J.R. Grant, and *Tillandsia cathcartii* (Luther) J.R. Grant. The name  $\times$  *Vriecantarea* J.R. Grant is proposed to account for hybrids between the genera *Vriesea* Lindley and *Alcantarea* (E. Morren *ex* Mez) Harms.

KEY WORDS: Bromeliaceae, *Werauhia*, *Tillandsia*,  $\times$  *Vriecantarea*, *Vriesea*, *Alcantarea*, nomenclature

Continuing an effort to organize species of the bromeliad subfamily Tillandsioideae into natural genera, a number of new combinations are proposed. Examination of newly collected material at InBIO (Instituto Nacional de Biodiversidad [INB], Costa Rica) has provided a convincing argument for the integrity of several species I had previously placed in synonymy (*Vriesea dodsonii* L.B. Smith, *V. nutans* L.B. Smith, and *V. rugosa* Mez & Wercklé). Also, the previously hypothesized generic position of several species in *Werauhia* listed as "doubtful species" in Grant (1995) was verified by the examination of additional specimens. These taxa include *Vriesea antillana* L.B. Smith & Pittendrigh [*Guzmania urbaniana* Mez], *V. broadwayi* L.B. Smith, *V. gibba* L.B. Smith, *V. guadelupensis* (Baker) Mez, and *V. haplostachya* (Sauvalle) L.B. Smith. Of the other dubious taxa listed, *Tillandsia alta* Baker was based on an illustration that appears to be an *Alcantarea* species, *Tillandsia dissitiflora* Sauvalle is recognized as *Vriesea dissitiflora* (Sauvalle) Mez, and the true identity of *Tillandsia camptoclada* Mez & Wercklé is still to be definitively determined.

- Werauhia broadwayi* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea broadwayi* L.B. Smith, Proc. Amer. Acad. Arts 68:149. 1933. TYPE: TRINIDAD. Heights of Aripo, *Broadway 9916* (HOLOTYPE: TRIN [photo US]; Isotypes: K, NY).
- Werauhia dodsonii* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea dodsonii* L.B. Smith, Phytologia 8(5):221. 1962. TYPE: COSTA RICA. Without locality, *Wilson & Wilson 31* (HOLOTYPE: US).
- Werauhia gibba* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea gibba* L.B. Smith, Contr. U.S. Natl. Herb. 29:524. 1954. TYPE: JAMAICA. Knox College, Spaldings, *Dignum 2785* (HOLOTYPE: IJ).
- Werauhia guadelupensis* (Baker) J.R. Grant, *comb. nov.* BASIONYM: *Tillandsia guadelupensis* Baker, *Handb. Bromel.* 213. 1889. *Vriesea guadelupensis* (Baker) Mez in C.DC., *Monogr. Phan.* 9:596. 1896. *Neovriesea guadelupensis* (Baker) Stehlé, Fl. Guad. 1:212. 1936. TYPE: GUADELOUPE. Without locality, *Duchassaing s.n.* (HOLOTYPE: B).
- Werauhia haplostachya* (Sauvalle) J.R. Grant, *comb. nov.* BASIONYM: *Tillandsia haplostachya* Sauvalle, *Anales Acad. Ci. Méd. Habana* 8:73. 1871. *Vriesea haplostachya* (Sauvalle) L.B. Smith, Contr. Gray Herb. 114. 1936. TYPE: CUBA. Monte Verde, Oriente, *Wright s.n.* (locality of holotype unknown; Isotype: GH).
- Werauhia nutans* (L.B. Smith) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea nutans* L.B. Smith, Phytologia 7(4):175. 1960. TYPE: COSTA RICA. San José: Road from Turrialba to Moravia, *Foster 2727* (HOLOTYPE: US).
- Werauhia rugosa* (Mez & Wercklé) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea rugosa* Mez & Wercklé in Mez, Bull. Herb. Boissier ser. 2, 4(9):866. 1904. TYPE: COSTA RICA. Without locality, *Wercklé 115* (HOLOTYPE: B; photo US).
- Werauhia urbaniana* (Mez) J.R. Grant, *comb. nov.* BASIONYM: *Guzmania urbaniana* Mez in C.DC., *Monogr. Phan.* 9:920. 1896. *Thecophyllum urbanianum* (Mez) Mez, Bull. Herb. Boissier ser. 2, 3:131. 1903. TYPE: MARTINIQUE. Without locality, *Duss 296* (HOLOTYPE: B). ≡ *Vriesea antillana* L.B. Smith & Pittendrigh, J. Wash. Acad. Sci. 43:403. 1953., *nom. nov.* for *Guzmania urbaniana* Mez, not *Vriesea urbaniana* Harms (1935).

As noted by Luther (1995), *Vriesea cathcartii* lies within the "large-flowered-grey-vriesea complex" that I regard as belonging to *Tillandsia sensu strictu*.

*Tillandsia cathcartii* (Luther) J.R. Grant, *comb. nov.* BASIONYM: *Vriesea cathcartii* Luther, J. Brom. Soc. 45(2):52. 1995. TYPE: ECUADOR. Zamora-Chinchipe: 1.6 km east of Zumbi on Zumbi-Paquisha road, ca. 850 m, August 1994, D. Cathcart 81794-1 (HOLOTYPE: SEL; Isotype: QCNE).

When the cultivar *Vriesea* 'inferno' [*Vriesea ensiformis* (Vellozo) Beer  $\times$  *Vriesea regina* (Vellozo) Beer] was proposed (Baskerville 1994), both parent species were referred to the genus *Vriesea* Lindley. Since then, the genus *Alcantarea* (E. Morren ex Mez) Harms has been resurrected and includes *Vriesea regina* Vellozo [*Alcantarea regina* (Vellozo) Harms] (Grant 1995). Therefore, in order to account for hybrids between *Vriesea* and *Alcantarea*, a new hybrid generic name is proposed.

$\times$  *Vriecantarea* J.R. Grant, *nothogen. nov.* Based on *Vriesea* Lindley, Bot. Reg. 19: pl. 10. 1843. and *Alcantarea* (Morren ex Mez) Harms, Notizbl. Bot. Gard. Berlin 10:802. 1929.

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