

A SYSTEMATIC METHOD OF CLASSIFICATION OF THE PLEUROTHALLIDINAE VERSUS A STRICTLY PHYLOGENETIC METHOD

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ABSTRACT. A strictly phylogenetic method for classification of a part of the Pleurothallidinae, as proposed by A.M. Pridgeon and M.W. Chase, and the systematic approach to the classification of the Pleurothallidinae in use by Luer are discussed. Taxa treated by Pridgeon and Chase are discussed in the order in which they were published.

Key words: Pleurothallidinae, *Pleurothallis*, *Acianthera*, *Anathallis*, *Andinia*, *Anthereon*, *Masdevallia*, *Diodonopsis*, *Echinella*, *Myoxanthus*, *Phloeophila*, *Luerella*, *Ophidion*, *Pleurothallopsis*, *Restrepiopsis*, *Specklinia*, *Acostaeta*, *Stelis*, *Physosiphon*, *Physothallis*, *Condylago*, *Salpistele*

INTRODUCTION

An attempt to produce a reclassification of the Pleurothallidinae from interpretations of DNA analyses without regard for morphology has recently been published (Pridgeon & Chase 2001). Taxonomy has always been an inexact science of classification based on morphology, but it accomplishes its purpose: identification. Genera and infrageneric taxa are man-made concepts for recognizing units based on visual similarities and differences. Care must be taken so that similarly appearing but not closely allied taxa are not confused, that is, that taxa with different evolutionary lines do not fall into the same group. Comparing detailed morphology largely alleviates this problem.

The following is not proposed as a reclassification of the subtribe. Comments and changes follow in order the taxa treated by Pridgeon and Chase.

The Orchidaceae constitute a contemporary, rapidly evolving family with numerous closely allied subfamilial taxa with overlapping boundaries. Common sense tells us that many of their genes are shared by all. Sampling less than 1% of the DNA of only about 5% (185) of about 4000 species of pleurothallids has been offered as a basis for a phylogenetic reclassification. Not only is the material far too scanty, sometimes questionably identified, or without vouchers, and possibly even with errors in sequencing, but also only three regions out of countless hundreds of genes have been sequenced. What are the characters that these three regions govern? Some most unlikely bedfellows are brought about. A phylogenetic reclassification based on such mea-

ger evidence with disregard of morphology defeats the purpose of taxonomy: identification.

Pleurothallis has long been known to be polyphyletic. The infrageneric rank of subgenus has worked very well. If a genus must be monophyletic by a definition, a consequence would be the erection of an untold number of new genera. This would result in taxonomic chaos with nothing solved. By simply defining a genus as either monophyletic or polyphyletic (an alliance of “monophyletic” subgenera), *Pleurothallis* is taxonomically manageable. Obviously, all pleurothallids have a common ancestor, with some branches originating more recently than others. It depends on how far back in the family tree one needs to go to include branches, and that is something nobody knows.

TAXA TREATED BY PRIDGEON AND CHASE

Pleurothallis subgenus *Acianthera*

Subgenus *Acianthera* was proposed (Luer 1986a) to accommodate a large number of allied species, which are characterized by more or less fleshy flowers with connate lateral sepals, an elongated column, and borne singly or in a raceme from the base of a sessile leaf. Although an infinite number of variations and combinations of morphological features occur, a species of this subgenus is usually readily recognized by the few criteria noted above. Many morphological features are intricately shared, however, with species of other subgenera.

DNA analyses confirm the distinction of this taxon, which already was recognized more than 20 years ago; but the analyses cannot dictate the taxonomic level where it should be recognized.

As a genus, as proposed by Pridgeon and Chase, it is also polyphyletic. In the cladogram published, the position of this taxon is not supported. Because of its close relationship, the existence of intermediates, and morphological similarity to other infrageneric taxa of *Pleurothallis*, it is most logically retained as a subgenus of *Pleurothallis*.

From *Pleurothallis* subgenus *Acianthera*, 131 epithets were transferred to *Acianthera*, but only 17 species they believed to belong to this taxon, were sequenced. The other transfers were made disregarding the possibilities of convergent evolution. The remaining 142 species attributable to the subgenus, but apparently unknown to the authors, were not transferred. *Pleurothallis recurva*, the lectotype of the genus, was not sequenced. The Brazilian *P. alligatorifera* and *P. arcuata* are so similar that they are difficult to distinguish. The authors transferred *P. alligatorifera* to *Acianthera*, and *P. arcuata* to *Stelis*. *Pleurothallis cearensis* Schltr. and *P. iguapensis* Schltr., both synonyms of *P. glanduligera* Lindl., were placed in different genera, the former in *Acianthera*, the latter in *Anathallis*.

Pleurothallis subgen. **Acianthera** (Scheidw.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 12, 1986.

Bas.: *Acianthera* Scheidw., Allg. Gartenzeitung 10: 292, 1842.

Type: *Acianthera punctata* Scheidw. = *Pleurothallis recurva* Lindl., 1841.

Syn.: *Centranthera* Scheidw., Allg. Gartenzeitung 10: 293, 1842, non R.Br. 1810.

Type: *Centranthera punctata* Scheidw. = *Pleurothallis recurva* Lindl., 1841.

Pleurothallis adiri Brade, Orquidea 9: 21, 1946.
Syn.: *Acianthera adiri* (Brade) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis aechme Luer, Selbyana 3: 42, 1976.

Syn.: *Acianthera aechme* (Brade) Pridgeon & M.W.Chase, Lindleyana 16: 241, 2001.

Pleurothallis agathophylla Rchb.f., Xenia Orch. 3: 25, 1900.

Syn.: *Acianthera agathophylla* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 241, 2001.

Pleurothallis alligatorifera Rchb.f., Hamb. Gartenz. 21: 299, 1865.

Syn.: *Acianthera alligatorifera* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis angustifolia Lindl., Bot. Reg. 21: sub. t. 1797, 1835.

Syn.: *Pleurothallis wilsonii* Lindl., Ann. Mag. Nat. Hist. ser. 3, 1: 326, 1858.

Syn.: *Acianthera wilsonii* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis angustisepala Ames & Correll, Bot. Mus. Leaf. 10: 74, 1942.

Syn.: *Acianthera angustisepala* (Ames & Correll) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis antennata Garay, Arquiv. Jard. Bot. Rio de Janeiro 12: 170, 1953.

Syn.: *Acianthera antennata* (Garay) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis aphthosa Lindl., Edwards's Bot. Reg. 24: Misc. 42, 1838.

Syn.: *Acianthera aphthosa* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis asaroides (Kraenzl.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 73, 1986. FIGURE 1

Bas.: *Physosiphon asaroides* Kraenzl., Orchis 2: 16, 1909.

Syn.: *Acianthera asaroides* (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis aurantiolateritia Speg., An. Mus. Nac. Buenos Aires 28: 132, 1916.

Syn.: *Acianthera aurantiolateritia* (Speg.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis auriculata Lindl., Comp. Bot. Mag. 2: 356, 1836.

Syn.: *Acianthera auriculata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis barbacensis Barb.Rodr., Gen. Sp. Orch. Nov. 2: 11, 1882.

Syn.: *Acianthera barbacensis* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis bicarinata Lindl., Bot. Reg. 25: Misc. 14, 1839.

Syn.: *Acianthera bicarinata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis bicornuta (Barb.Rodr.) Cogn., Fl. Bras. 3(4): 470, 1896.

Bas.: *Lepanthes bicornuta* Barb.Rodr., Gen. Sp. Orch. Nov. 2: 61, 1882.

Syn.: *Acianthera bicornuta* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis bidentula Barb.Rodr., Gen. Sp. Orch. Nov. 2: 20, 1882.

Syn.: *Acianthera bidentula* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

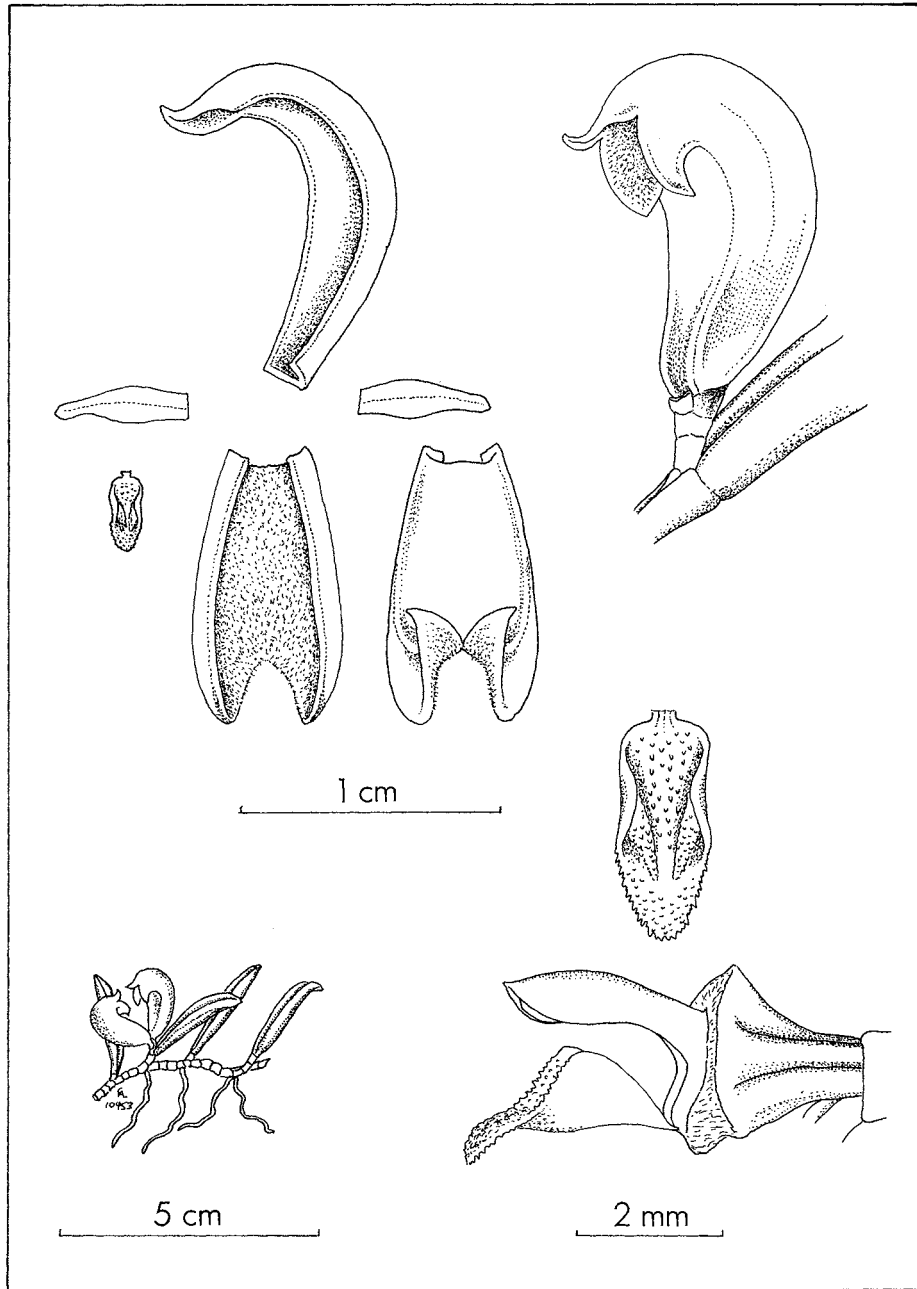


FIGURE 1. *Pleurothallis asaroides* (Kraenzl.) Luer subgenus *Sarracenella*.

Pleurothallis binotii Regel, Act. Hort. Petrop. 7: 388, 1880.

Syn.: *Acianthera binotii* (Regel) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis boliviana Rchb.f., Bonplandia 3: 224, 1855.

Syn.: *Acianthera boliviana* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis brachiloba Hoehne, Contrib. Fl. Orch. Bras. 2: 44, 1929.

Syn.: *Acianthera brachiloba* (Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

- Pleurothallis butcheri** L.O.Williams, Fieldiana Bot. 29: 346, 1961.
Syn.: *Acianthera butcheri* (L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis capanemae** Barb.Rodr., Gen. Sp. Orch. Nov. 2: 16, 1882.
Syn.: *Acianthera capanemae* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis caparaoensis** Brade, Orquidea 6: 10, 1943.
Syn.: *Acianthera caparaoensis* (Brade) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis capillaris** Lindl., Bot. Reg. 21: sub t. 1797, 1836.
Syn.: *Pleurothallis longicaulis* Lindl., Bot. Reg. 28: misc 72, 1842.
Syn.: *Pleurothallis sieberi* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 34, 1986.
Syn.: *Acianthera sieberi* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.
Syn.: *Acianthera capillaris* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
Syn.: *Acianthera longicaulis* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis casapensis** Lindl., Edwards's Bot. Reg. 28: misc. 76, 1842.
Syn.: *Pleurothallis chamensis* Lindl., Orchid. Linden. 2, 1846.
Syn.: *Pleurothallis coffeicola* Schltr., Repert. Spec. Nov. Regni Veg. 27: 50, 1929.
Syn.: *Acianthera casapensis* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
Syn.: *Acianthera chamensis* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
Syn.: *Acianthera coffeicola* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis cerberus** Luer & R.Vásquez, Phytologia 46: 360, 1980.
Syn.: *Acianthera cerberus* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis chionopa** Luer, Phytologia 46: 361, 1980.
Syn.: *Acianthera chionopa* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis chrysantha** Lindl., Folia Orch. *Pleurothallis* 14, 1859.
Syn.: *Pleurothallis aurea* A.Rich. & Galeotti, Ann. Sci. Nat. ser. 3, 3: 16, 1845, not Lindl. 1843.
Syn.: *Acianthera chrysantha* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis circumplexa** Lindl., Edwards's Bot. Reg. 24: Misc. 24, 1838.
Syn.: *Acianthera circumplexa* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis cogniauxiana** Schltr., Repert. Spec. Nov. Regni Veg. 3: 246, 1907.
Syn.: *Pleurothallis congruens* Luer, Selbyana 2: 391, 1978.
Syn.: *Acianthera cogniauxiana* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
Syn.: *Acianthera congruens* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis compressicaulis** Dod, Moscosoa 3: 113, 1981.
Syn.: *Acianthera compressicaulis* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis cordatifolia** Dod, Moscosoa 1: 57, 1976.
Syn.: *Acianthera cordatifolia* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis crinita** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 16, 1877.
Syn.: *Acianthera crinita* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis cryptantha** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 13, 1877.
Syn.: *Cryptophoranthus cryptanthus* (Barb. Rodr.) Barb.Rodr., Gen. Sp. Orch. Nov. 2: 280, 1882.
Syn.: *Acianthera cryptantha* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis cymbiformis** Dod, Moscosoa 3: 101, 1984, nom. nov.
Syn.: *Cryptophoranthus erosus* Garay, J. Arnold Arb. 50: 462, 1969, non *Pleurothallis erosa* Urb.
Syn.: *Acianthera cymbiformis* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis decipiens** Ames & C.Schweinf., Sched. Orch. 8: 26, 1925.
Syn.: *Acianthera decipiens* (Ames & C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis decurrens** Poepp. & Endl., Nov. Gen. Sp. 1: 48, 1836.
Syn.: *Acianthera decurrens* (Poepp. & Endl.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis duartei** Hoehne, Contrib. Fl. Orch. Bras. 2: 12, 1929.
Syn.: *Acianthera duartei* (Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.

- Pleurothallis ellipsophylla** L.O.Williams, Ann. Missouri Bot. Gard. 29: 344, 1942.
Syn.: *Acianthera ellipsophylla* (L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis exarticulata** Barb.Rodr., Gen. Sp. Orch. Nov. 2: 27, 1882.
Syn.: *Acianthera exarticulata* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis fenestrata** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 12, 1877.
Syn.: *Cryptophoranthus fenestratus* (Barb.Rodr.) Barb.Rodr., Gen. Sp. Orch. Nov. 2: 80, 1882.
Syn.: *Cryptophoranthus spicatus* Dutra, Ostenia 172, 1933.
Syn.: *Pleurothallis spicata* (Dutra) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 17, 1986.
Syn.: *Acianthera spicata* (Dutra) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.
Syn.: *Acianthera fenestrata* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis fockei** Lindl., Folia Orch. *Pleurothallis* 23, 1859.
Syn.: *Pleurothallis tricarinata* Focke, Bot. Zeit. 11: 339, 1853, not Poepp. & Endl. 1836.
Syn.: *Acianthera fockei* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis garciae** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 70: 173, 1999.
Syn.: *Acianthera garciae* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis geminicaulina** Ames, Sched. Orch. 6: 59, 1923.
Syn.: *Acianthera geminicaulina* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis glanduligera** Lindl., Comp. Bot. Mag. 2: 355, 1836.
Syn.: *Pleurothallis cearensis* Schltr., Repert. Spec. Nov. Regni Veg. 17: 271, 1921.
Syn.: *Pleurothallis iguapensis* Schltr., Anex. Mem. Inst. Butantan 1(4): 48, 1922.
Syn.: *Acianthera cearensis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
Syn.: *Anathallis iguapensis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis glumacea** Lindl., Comp. Bot. Mag. 2: 355, 1836.
Syn.: *Acianthera glumacea* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis hamosa** Barb.Rodr., Gen. Sp. Orch. Nov. 2: 31, 1882.
Syn.: *Acianthera hamosa* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis heliconioides** Luer & R.Vásquez, Phytologia 46: 366, 1980.
Syn.: *Acianthera heliconioides* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis heteropetala** Luer, Selbyana 3: 118, 1976.
Syn.: *Acianthera heteropetala* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis hirsutula** Fawc. & Rendle, J. Bot. 47: 3, 1909.
Syn.: *Acianthera hirsutula* (Fawc. & Rendle) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis hondurensis** Ames, Sched. Orch. 7: 20, 1924.
Syn.: *Acianthera hondurensis* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis hygrophila** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 7, 1877.
Syn.: *Acianthera hygrophila* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis johannensis** Barb.Rodr., Gen. Sp. Orch. Nov. 2: 23, 1882.
Syn.: *Acianthera johannensis* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis johnsonii** Ames, Sched. Orch. 2: 21, 1923.
Syn.: *Acianthera johnsonii* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis klotzschiana** Rchb.f., Linnaea 22: 828, 1849.
Syn.: *Acianthera klotzschiana* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis lamia** Luer, Selbyana 5: 170, 1979.
Syn.: *Acianthera lamia* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis lanceana** Lodd., Bot. Cab. 18: t. 1767, 1831.
Syn.: *Acianthera lanceana* (Lodd.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis langeana** Kraenzl., Kongl. Svenska Vetens. Handl. 46: 49, 1911.
Syn.: *Acianthera langeana* (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis lepidota** L.O.Williams, Ann. Missouri Bot. Gard. 27: 279, 1940.

- Syn.: *Acianthera lepidota* (L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis leptotifolia** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 15, 1877.
Syn.: *Acianthera leptotifolia* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis limae** C.Porto & Brade, Anais Reuniao Sul-Amer, Bot. 3: 35, 1940.
Syn.: *Acianthera limae* (C.Porto & Brade) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis lojiae** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 8: 60, 1921.
Syn.: *Pleurothallis citrophila* Luer, Selbyana 3: 266, 1977.
Syn.: *Pleurothallis florosa* Luer, Selbyana 3: 302, 1977.
Syn.: *Acianthera citrophila* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
Syn.: *Acianthera florosa* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.
- Pleurothallis luteola** Lindl., Bot. Reg. 27: Misc. 1, 1841.
Syn.: *Acianthera luteola* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis macropoda** Barb.Rodr., Gen. Sp. Orch. Nov. 2: 25, 1882.
Syn.: *Acianthera macropoda* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis madisonii** Luer, Selbyana 5: 171, 1979.
Syn.: *Acianthera madisonii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis malachantha** Rchb.f., Bonplandia 3: 223, 1855.
Syn.: *Acianthera malachantha* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.
- Pleurothallis melanochthoda** Luer & Hirtz, Lindleyana 11: 169, 1996.
Syn.: *Acianthera melanochthoda* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis mexiae** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 174, 1999.
Syn.: *Pleurothallis chamensis* var. *tenuis* C.Schweinf., Bot. Mus. Leafl. 10: 176, 1942.
Syn.: *Acianthera mexia* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis micrantha** Barb.Rodr., Gen. Sp. Orch. Nov. 2: 21, 1882.
Syn.: *Acianthera micrantha* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis minimifolia** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 16, 1986.
Syn.: *Cryptophoranthus minimus* Cogn., Fl. Bras. 3(4): 552, 1906, non *P. minima* C.Schweinf.
Syn.: *Acianthera minimifolia* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis miqueliana** (Focke) Lindl., Folia Orch. *Pleurothallis* 17, 1859.
Bas.: *Specklinia miqueliana* Focke, Tijdschr. Wis-Natuurk. Wetensch. 2: 199, 1899.
Syn.: *Acianthera miqueliana* (Focke) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis modestissima** Rchb.f. & Warm., Otia Bot. Hamb. 2: 93, 1881.
Syn.: *Acianthera modestissima* (Rchb.f. & Warm.) Pridgeon & M.W.Chase, Lindleyana 16: 244, 2001.
- Pleurothallis morenoi** Luer, Selbyana 5: 172, 1979.
Syn.: *Acianthera morenoi* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis murexoidea** Pabst, Arquiv. Jard. Bot. Rio de Janeiro 14: 17, 1956.
Syn.: *Acianthera murexoidea* (Pabst) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis muscicola** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 9, 1877.
Syn.: *Acianthera muscicola* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis muscosa** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 7, 1877.
Syn.: *Acianthera muscosa* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis neojordanensis** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 16, 1986.
Syn.: *Cryptophoranthus jordanensis* Brade, Arq. Serv. Florest, 1(1): 41, 1939, non *P. jordanensis* Hoehne
Syn.: *Acianthera neojordanensis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis neojurgensii** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 16, 1986.
Syn.: *Cryptophoranthus juergensii* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 35: 46, 1925, non *P. juergensii* Schltr.
Syn.: *Acianthera neojurgensii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis obscura** A.Rich. & Galeotti, Ann. Sci. Nat. ser. 3, 3: 17, 1845.

- Syn.: *Acianthera obscura* (A.Rich. & Galeotti) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis ochreatea** Lindl., Bot. Reg. 21: sub t. 1797, 1836.
Syn.: *Acianthera ochreatea* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis octophrys** Rchb.f., Linnaea 41: 95, 1877.
Syn.: *Acianthera octophrys* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis ofella** Luer, Selbyana 7: 120, 1982.
Syn.: *Acianthera ofella* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis omissa** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 175, 1999.
Syn.: *Acianthera omissa* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis ophiantha** Cogn., Fl. Bras. 3(4): 522, 1896.
Syn.: *Acianthera ophiantha* (Cogn.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis oscitans** Ames, Bot. Mus. Leaff. 2: 25, 1934.
Syn.: *Acianthera oscitans* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis panduripetala** Barb.Rodr., Gen. Sp. Orch. Nov. 2: 12, 1882.
Syn.: *Acianthera panduripetala* (Barb. Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis pantasmi** Rchb.f., Bonplandia 3: 224, 1855.
Syn.: *Acianthera pantasmi* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis pantasmoides** C.Schweinf., Bot. Mus. Leaff. 15: 98, 1951.
Syn.: *Acianthera pantasmoides* (C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis papillosa** Lindl., Bot. Reg. 21: sub 1797, 1836.
Syn.: *Acianthera papillosa* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis pardipes** Rchb.f., Saund. Refug. Bot. 2: t.119, 1872.
Syn.: *Acianthera pardipes* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis pavimentata** Rchb.f., Linnaea, 41: 48, 1877.
Syn.: *Acianthera pavimentata* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis pectinata** Lindl., Bot. Reg. 25: Misc. 1, 1839,
Syn.: *Acianthera pectinata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis phyllostachys** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 9: 76, 1921.
Syn.: *Acianthera phyllostachys* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis prognatha** Luer & Escobar, Orquideología 16: 30, 1983.
Syn.: *Acianthera prognantha* (Luer & Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis prolifera** Herb. ex Lindl., Edwards's Bot. Reg. 15: t. 1298, 1829.
Syn.: *Acianthera prolifera* (Herb. ex Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis pubescens** Lindl., Comp. Bot. Mag. 2: 355, 1836. FIGURE 2
Syn.: *Acianthera pubescens* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 245, 2001.
- Pleurothallis punctatiflora** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 16, 1986.
Syn.: *Cryptophoranthus punctatus* Barb.Rodr., Rev. Engenh. 3, n.9, 1881, non *P. punctata* Lindl.
Syn.: *Acianthera punctatiflora* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.
- Pleurothallis punicea** Luer, Selbyana 1: 270, 1975.
Syn.: *Acianthera punicea* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.
- Pleurothallis quadriserrata** Luer, Selbyana 1: 82, 1975.
Syn.: *Acianthera quadriserrata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.
- Pleurothallis raduliglossa** Pabst, Orquidea 24: 44, 1962,
Syn.: *Acianthera raduliglossa* (Pabst) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.
- Pleurothallis recurva** Lindl., Bot. Reg. 27: Misc. 1, 1841
Syn.: *Acianthera punctata* Scheidw., Allg. Gartenzeitung 10: 292, 1842.
Syn.: *Centranthera punctata* Scheidw. Allg. Gartenzeitung 10: 293, 1842.
Syn.: *Acianthera recurva* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.
- Pleurothallis rodriguesii** Cogn., Fl. Bras. 3(4): 538, 1896.

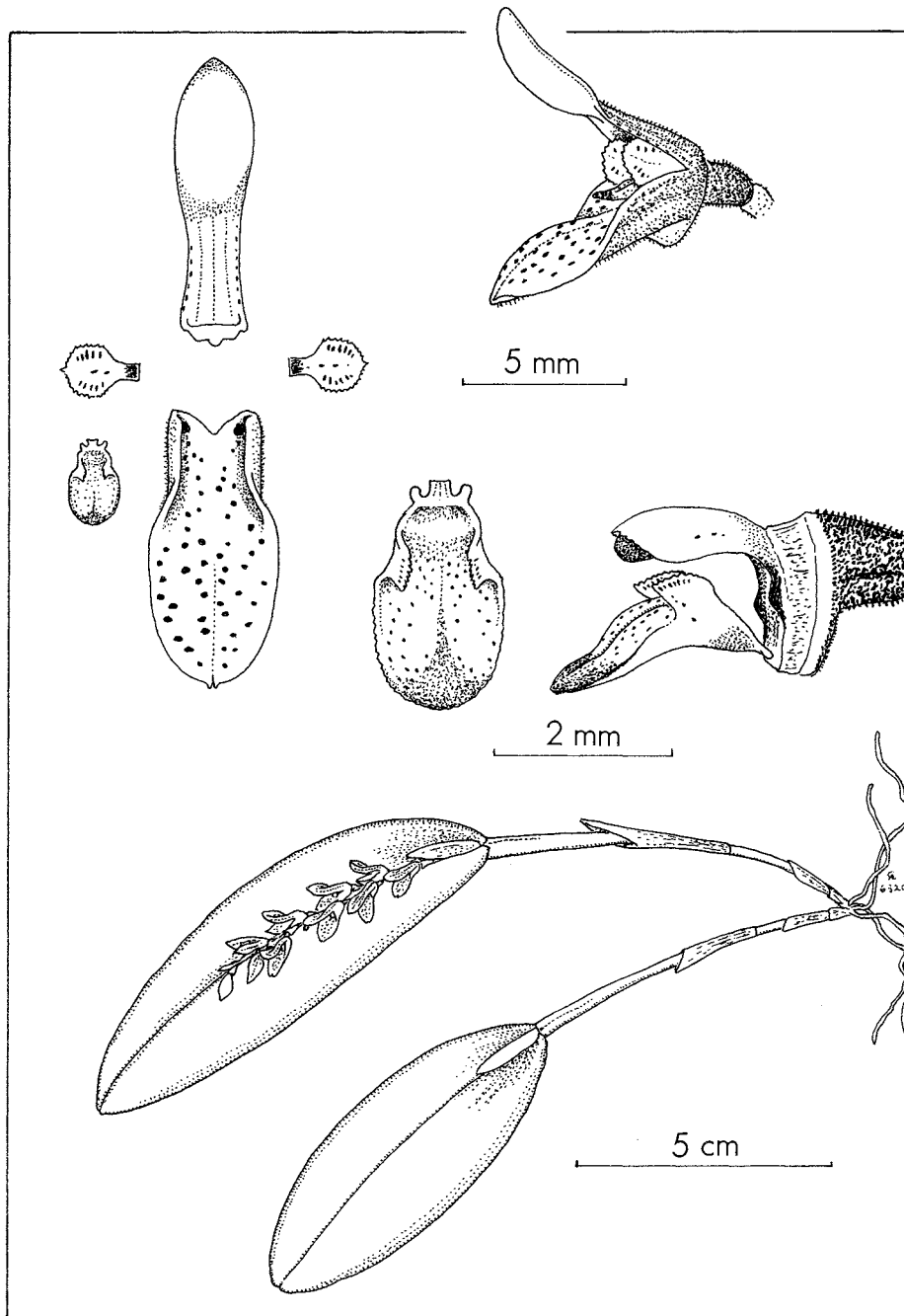


FIGURE 2. *Pleurothallis pubescens* Lindl. subgenus *Acianthera*.

Syn.: *Acianthera rodriguesii* (Cogn.) Pridgeon & M.W.Chase, *Lindleyana* 16: 246, 2001.

Pleurothallis rubroviridis Lindl., *Ann. Mag. Nat. Hist. ser. 3*, 1: 327, 1858.

Syn.: *Pleurothallis cubensis* Lindl., *Ann. Mag. Nat. Hist. ser. 3*, 1: 328, 1858.

Syn.: *Acianthera cubensis* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 243, 2001.

Syn.: *Acianthera rubroviridis* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 246, 2001.

Pleurothallis sonderana Rchb.f., *Linnaea* 22: 830, 1849.

Syn.: *Acianthera sonderana* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis spilopurphyrea Dod, Moscosoa 1(3): 57, 1978, as *spiloporphureus*.

Syn.: *Cryptophoranthus aurantiacus* Dod, Moscosoa 1: 50, 1976, non *Pleurothallis aurantiaca* Barb.Rodr., 1877.

Syn.: *Pleurothallis neibana* Dod, Moscosoa 3: 101, 1984. as *neibanus*

Syn.: *Acianthera neibanus* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 242, 2001.

Pleurothallis strupifolia Lindl., Bot. Reg. 25: Misc. 2, 1839.

Syn.: *Acianthera strupifolia* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis tikalensis Correll & C.Schweinf., Fieldiana Bot. 31: 190, 1965.

Syn.: *Acianthera tikalensis* (Correll & C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis tricarinata Poepp. & Endl., Nov. Gen. Sp. 1: 49, 1836.

Syn.: *Acianthera tricarinata* (Poepp. & Endl.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis tristis Barb.Rodr., Gen. Sp. Orch. Nov. 2: 293, 1882.

Syn.: *Acianthera tristis* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis verecunda Schltr., Repert. Spec. Nov. Regni Veg. Beih. 17: 24, 1922.

Syn.: *Acianthera verecunda* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis violacea A.Rich. & Galeotti, Ann. Sci. Nat. ser. 3, 3: 16, 1845.

Syn.: *Acianthera violacea* (A.C.Rich. & Galeotti) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis violaceomaculata Hoehne, Arquiv. Bot. Estad. S. Paulo 2: 123, 1952.

Syn.: *Acianthera violaceomaculata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 246, 2001.

Pleurothallis wagneriana Klotzsch, Allg. Gartenzeitung 20: 274, 1852.

Syn.: *Acianthera wagneriana* (Klotzsch) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis wels-windischii Pabst, Bradea 2: 231, 1978.

Syn.: *Acianthera wels-windischii* (Pabst) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis wyvern Luer & Escobar, Orquideología 14: 184, 1981.

Syn.: *Acianthera wyvern* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis yauaperyensis Barb.Rodr., Vellozia ed. 2, 1: 116, 1891.

Syn.: *Pleurothallis consimilis* Ames, Orchidaceae 7: 116, 1922.

Syn.: *Acianthera consimilis* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 243, 2001.

Syn.: *Acianthera yauaperyensis* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis subgenus *Acuminatae*

Lindley (1859) first recognized this taxon as section *Acuminatae* in his *Folia Orchidaceae*. Barbosa Rodrigues (1877) proposed the genus *Anathallis* for two species: *Pleurothallis obovata* and *P. acuminata*. The subgenus *Acuminatae* was proposed (Luer 1999) to accommodate the allied species, which are characterized by a well-developed ramicaul, more or less membranous flowers with all three sepals free and a simple lip, and borne simultaneously in a raceme from the base of a subsessile or petiolate leaf. DNA analyses confirm the distinction of this taxon, but not the taxonomic level where the taxon should be recognized. *Pleurothallis obovata*, the lectotype, was not sequenced.

When Pridgeon and Chase elevated the subgenus *Anathallis* to genus, it is described as "caespitose to repent plants with a stem ('ramicaul') about as long as the leaf," but the first species proposed to transfer from *Specklinia* to *Anathallis* is *Pleurothallis abbreviata* aptly named for its extremely short ramicauls.

As proposed, *Anathallis* is polyphyletic. Because some DNA sequencings of only two species of subgenus *Acuminatae* are similar to some discovered in four species of subgenus *Specklinia*, these species were transferred to *Anathallis*, in spite of obviously differentiating morphological features. Species typical of *Specklinia* are mostly characterized by abbreviated ramicauls shorter than small leaves, lateral sepals connate in varying degrees, and lips usually with a pair of basal lobules (i.e., the familiar *Pleurothallis barbulata*). They contrast drastically with large species with long, well-developed ramicauls, free lateral sepals, and simple lips (i.e., *P. acuminata*). Bilobulate lips basically similar to those of many species of subgenus *Specklinia* also are seen in subgenus *Acianthera*.

The transfer of 37 epithets including synonyms from subgenus *Specklinia* and close allies, 50 epithets from subgenus *Acuminatae* with syn-

onyms, and one unrecognized *Stelis*, *S. declivis* (Lindl.) Luer, to *Anathallis* were proposed. *Pleurothallis racemiflora* Lindl. ex Lodd., nomen. illeg. = *P. quadrifida* (Lex.) Lindl., based on the same citation, was placed into different genera (*Anathallis* and *Stelis*). The identification of herbarium collections to genus will be impossible. Apparently the genus to which the hundreds of other species left in both subgenera should be assigned could not be determined. Preserving subgenera *Specklinia* and *Acuminatia* solves this problem.

Pleurothallis subgen. **Acuminatia** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 98, 1999.

Type: *Dendrobium acuminatum* Kunth = *Pleurothallis acuminata* (Kunth) Lindl.

Syn.: *Anathallis* Barb.Rodr., Gen. Sp. Orch. Nov. 1: 23, 1877.

Lectotype: *Anathallis fasciculata* Barb.Rodr. (Garay, Orquideología 9: 122, 1974) = *Pleurothallis obovata* Lindl.

Syn.: *Pleurothallis* sect. *Acuminatae* Lindl., Folia Orch. *Pleurothallis* 32, 1859.

Syn.: *Pleurothallis* sect. *Anathallis* (Barb.Rodr.) Cogn., Fl. Bras. 3(4): 380, 1896.

Syn.: *Pleurothallis* sect. *Margaritifera* Schltr., Notizbl. Bot. Gart. Berlin-Dahlem 7: 272, 1918.

Type: *Pleurothallis margaritifera* Schltr., Notizbl. Bot. Gart. Berlin-Dahlem 7: 272, 1918.

Pleurothallis abbreviata Schltr., Repert. Spec. Nov. Regni Veg. 10: 352, 1912. FIGURE 3

Syn.: *Anathallis abbreviata* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis acuminata (Kunth) Lindl., Bot. Reg. 28: Misc. 70, 1842. FIGURE 4

Bas. *Dendrobium acuminatum* Kunth, Nov. Gen. Sp. Pl. 1: 357, 1816.

Syn.: *Pleurothallis brittonii* Rolfe, Bull. N.Y. Bot. Gard. 4: 449, 1907.

Syn.: *Anathallis brittonii* (Rolfe) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Syn.: *Anathallis acuminata* (Kunth) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis adenochila Loefgr., Arch. Jard. Bot. Rio de Janeiro 2: 55, 1918.

Syn.: *Pleurothallis aquinoi* Schltr. Repert. Spec. Nov. Regni Veg. Beih. 35: 50, 1925.

Syn.: *Anathallis aquinoi* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis anderssonii Luer, Lindleyana 11: 145, 1996.

Syn.: *Anathallis anderssonii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis angustilabia Schltr., Repert. Spec. Nov. Regni Veg. Beih. 9: 71, 1921.

Syn.: *Anathallis angustilabia* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis ariasii Luer & Hirtz, Lindleyana 12: 42, 1997.

Syn.: *Anathallis ariasii* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis asperilinguis Rchb.f. & Warsc., Bonplandia 2: 114, 1854.

Syn.: *Anathallis asperilinguis* (Rchb.f. & Warsc.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis attenuata Rolfe, Kew Bull. 1909: 364, 1909.

Syn.: *Anathallis attenuata* (Rolfe) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis barbulata Lindl., Folia Orch. Pleuroth. 40, 1850.

Syn.: *Anathallis barbulata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis brevipes Focke, Tijdschr. Nat. Wetensch. 2: 198, 1849.

Syn.: *Anathallis brevipes* (Focke) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.

Pleurothallis breviscapa C.Schweinf., Bot. Mus. Leaf. 3: 79, 1935.

Syn.: *Anathallis breviscapa* (C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Pleurothallis candida Luer & Hirtz, Lindleyana 12: 42, 1997.

Syn.: *Anathallis candida* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Pleurothallis carnosifolia C.Schweinf., Bot. Mus. Leaf. 15: 87, 1951.

Syn.: *Anathallis carnosifolia* (C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Pleurothallis casualis Ames, Sched. Orch. 9: 30, 1925.

Syn.: *Anathallis casualis* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Pleurothallis ciliolata Schltr., Repert. Spec. Nov. Regni Veg. 23: 36, 1926.

Syn.: *Anathallis ciliolata* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Pleurothallis citrina Schltr., Repert. Spec. Nov. Regni Veg. Beih. 7: 103, 1920.

Syn.: *Anathallis citrina* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

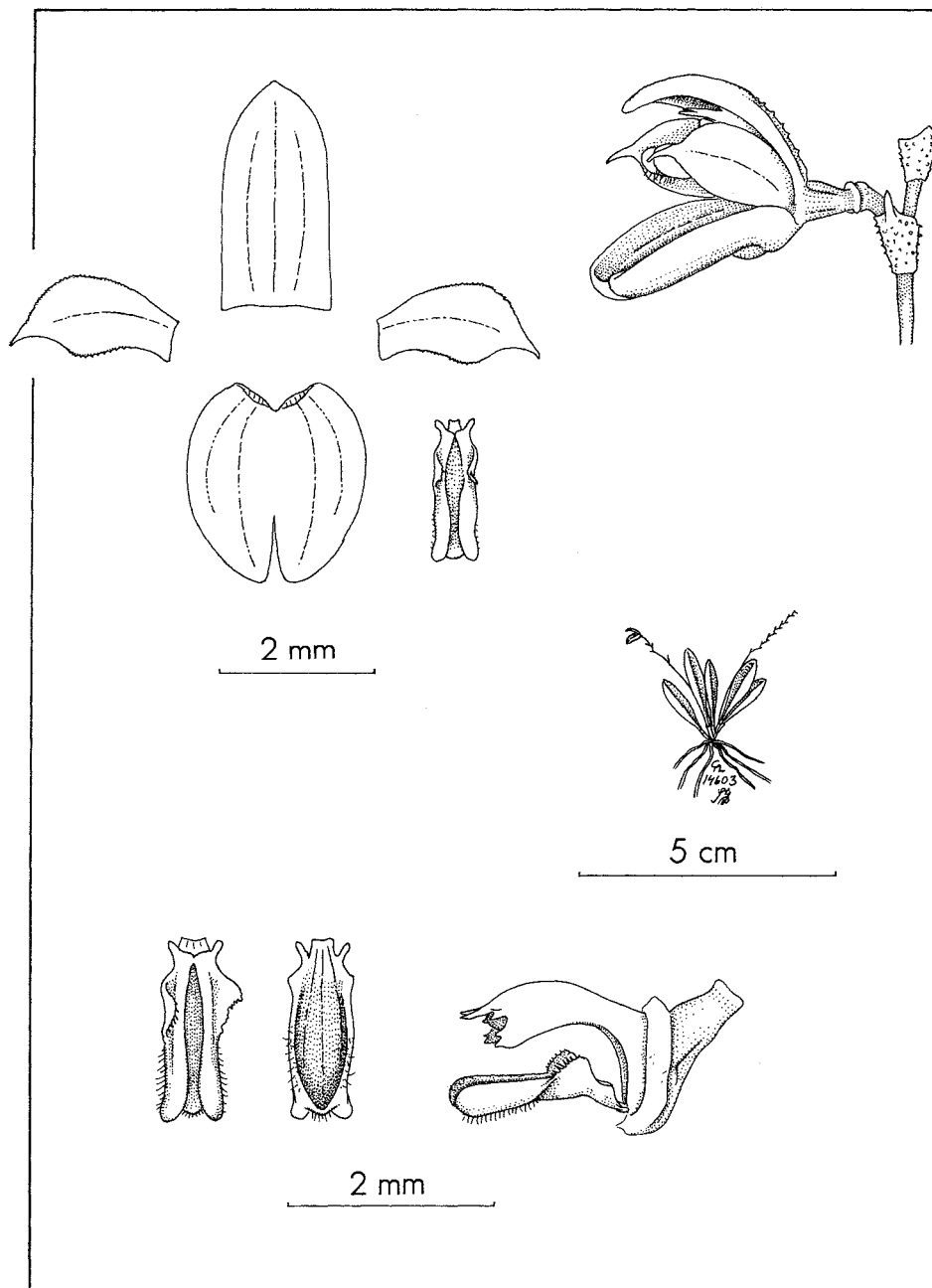


FIGURE 3. *Pleurothallis abbreviata* Schltr. subgenus *Specklinia*.

Pleurothallis clandestina Lindl., *Folia Orch.*
Pleuroth. 43, 1859.

Syn.: *Anathallis clandestina* (Lindl.) Pridgeon &
M.W.Chase, *Lindleyana* 16: 248, 2001.

Pleurothallis comayagensis Ames, *Bot. Mus.*
Leafl. 4: 31, 1936.

Syn.: *Anathallis comayagensis* (Ames) Pridgeon
& M.W.Chase, *Lindleyana* 16: 248, 2001.

Pleurothallis concinna Luer & R.Vásquez, *Rev.*
Soc. Bol. Bot. 2: 133, 1999.

Syn.: *Anathallis concinna* (Luer & R.Vásquez)

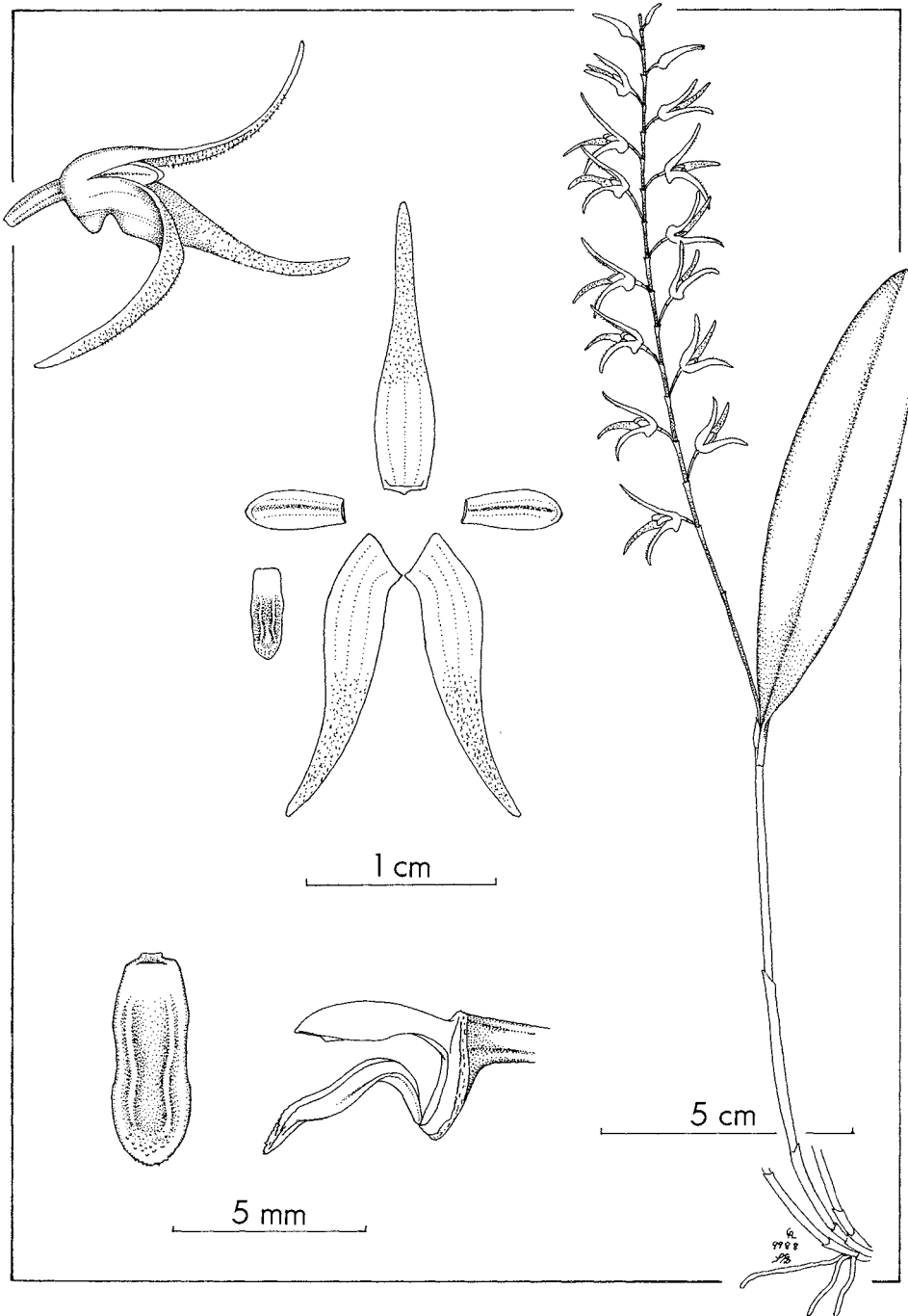


FIGURE 4. *Pleurothallis acuminata* (Kunth) Lindl. subgenus *Acuminatia*.

Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Pleurothallis coripatae Luer & R.Vásquez, Phytologia 46: 362, 1980.

Syn.: *Anathallis coripatae* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Pleurothallis corticicola Schltr. ex Hoehne,

- Bol. Mus. Nac. Rio de Janeiro 12(2): 18, 1936.
 Syn.: *Anathallis corticicola* (Schltr. ex Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis cuspidata** Luer, Selbyana 3: 282, 1977.
 Syn.: *Anathallis cuspidata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis dalessandroi** Luer, Selbyana 7: 116, 1982.
 Syn.: *Anathallis dalessandroi* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis dimidia** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 109, 1999.
 Syn.: *Anathallis dimidia* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis dolichopus** Schltr., Repert. Spec. Nov. Regni Veg. 10: 394, 1912.
 Syn.: *Anathallis dolichopus* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis endresii** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 172, 1999.
 Syn.: *Anathallis endresii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis fractiflexa** Ames & C.Schweinf., Sched. Orch. 10: 26, 1930.
 Syn.: *Pleurothallis corynophora* Luer, Phytologia 55: 201, 1984.
 Syn.: *Anathallis corynophora* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis fuegii** Rchb.f., Beitr. Orch. Centr. Am. 97: t.10, 1866.
 Syn.: *Anathallis fuegii* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis gerthatschbachii** Hoehne, Arq. Bot. Estado S. Paulo, n.s. form. maior, 2: 106, 1950?
 Syn.: *Anathallis gerthatschbachii* (Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis githaginea** Pabst & Garay, Arquiv. Jard. Bot. Rio de Janeiro 14: 12, 1956.
 Syn.: *Anathallis githaginea* (Pabst & Garay) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis gracilentata** Luer & R.Vásquez, Phytologia 49: 206, 1981.
 Syn.: *Anathallis gracilentata* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
- Pleurothallis guentheri** Schltr., Repert. Spec. Nov. Regni Veg. 27: 51, 1929.
 Syn.: *Anathallis guentheri* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis heterophylla** Barb.Rodr. Cogn., Fl. Bras. 3(4): 556, 1896.
 Syn.: *Anathallis heterophylla* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis humilis** C.Schweinf., Fieldiana Bot. 28: 185, 1951.
 Syn.: *Pleurothallis nortonii* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 174, 1999.
 Syn.: *Anathallis nortonii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis implexa** Luer, Phytologia 46: 367, 1980.
 Syn.: *Anathallis implexa* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis iota** Luer, Selbyana 3: 128, 1976.
 Syn.: *Anathallis iota* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis jesupiorum** Luer & Hirtz, Lindleyana 11: 164, 1996.
 Syn.: *Anathallis jesupiorum* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis kautskyi** Pabst, Bradea 1: 330, 1973.
 Syn.: *Anathallis kautskyi* (Pabst) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis lagarophyta** Luer Monogr. Syst. Bot. Missouri Bot. Gard. 76: 112, 1999.
 Syn.: *Anathallis lagarophyta* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis linearifolia** Cogn., Fl. Bras. 3(4): 573, 1896.
 Syn.: *Pleurothallis margaritifera* Schltr., Notizbl. Bot. Gart. Berlin 7: 272, 1918.
 Syn.: *Anathallis linearifolia* (Cogn.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
 Syn.: *Anathallis margaritifera* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis maguirei** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 113, 1999.
 Syn.: *Anathallis maguirei* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis malmeana** Dutra apud Pabst, Selowia 10: 130, 1959.
 Syn.: *Anathallis malmeana* (Dutra apud Pabst) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis mediocarinata** C.Schweinf., Fieldiana Bot. 33: 26, 1970.
 Syn.: *Anathallis mediocarinata* (C.Schweinf.)

- Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis meridana** Rchb.f., Linnaea 22: 826, 1849.
Syn.: *Anathallis meridana* (Rchb.f) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis megalophora** Luer, Phytologia 54: 387, 1983.
Syn.: *Anathallis megalophora* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis microblephara** Schltr. Notizbl. Bot. Gart. Berlin 7: 273, 1918.
Syn.: *Anathallis microblephara* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis microgemma** Schltr. ex Hoehne, Bol. Mus. Nac. Rio de Janeiro 12(2): 9, 1922.
Syn.: *Anathallis microgemma* (Schltr. ex Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis miguelii** Schltr., Symb. Antill. 7: 493, 1913.
Syn.: *Anathallis miguelii* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis minutalis** Lindl., Folia Orch. Pleuroth. 40, 1859.
Syn.: *Anathallis minutalis* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis mitchellii** Dod, Moscosoa 3: 109, 1984.
Syn.: *Anathallis mitchellii* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis modesta** (Barb.Rodr.) Cogn., Bol. Agric. S. Paulo 34: 607, 1934.
Bas.: *Lepanthes modesta* Barb.Rodr., Gen. Sp. Orch. Nov. 2: 62, 1882.
Syn.: *Anathallis modesta* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis muricaudata** Luer, Selbyana 7: 119, 1982.
Syn.: *Anathallis muricaudata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 249, 2001.
- Pleurothallis nectarifera** Barb.Rodr., Fl. Bras. 3(4): 560, 1896.
Syn.: *Anathallis nectarifera* Barb.Rodr., Gen. Sp. Orch. Nov. 2: 74, 1882.
- Pleurothallis obovata** (Lindl.) Lindl., Bot. Reg. 28: Misc. 75, 1842.
Bas.: *Specklinia obovata* Lindl., Bot. Reg. 75: Misc. 137, 1839.
Syn.: *Pleurothallis dendrophila* Rchb.f., Linnaea 22: 827, 1849.
Syn.: *Anathallis dendrophila* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.
Syn.: *Anathallis obovata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis pabstii** Garay, Arquiv. Jard. Bot. Rio de Janeiro 12: 173, 1953.
Syn.: *Anathallis pabstii* (Garay) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis pachyphyta** Luer, Selbyana 1: 302, 1975.
Syn.: *Anathallis pachyphyta* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis papuligera** Schltr., Repert. Spec. Nov. Regni Veg. 10: 453, 1912.
Syn.: *Anathallis papuligera* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis paranaensis** Schltr., Notizbl. Bot. Gart. Berlin 7: 274, 1918.
Syn.: *Anathallis paranaensis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
Syn.: *Anathallis paranaensis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 17: 100, 2002, redundant name.
- Pleurothallis petersiana** Schltr., Notizbl. Bot. Gart. Berlin 7: 275, 1918.
Syn.: *Anathallis petersiana* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis pidax** Luer, Selbyana 5: 174, 1979.
Syn.: *Anathallis pidax* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis platystylis** Schltr., Repert. Spec. Nov. Regni Veg. 10: 395, 1912.
Syn.: *Anathallis platystylis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis polygonoides** Griseb., Fl. Brit. W. Ind. 609, 1864.
Syn.: *Anathallis polygonoides* (Griseb.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis pubipetala** Hoehne, Contrib. Fl. Orch. Bras. 2: 296, 1930.
Syn.: *Anathallis pubipetala* (Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis quadrifida** (La Llave & Lex.) Lindl., Bot. Reg. 28: Misc. 70, 1842.
- FIGURE 5
- Syn.: *Pleurothallis racemiflora* Lindl. ex Lodd., Exotic Fl. 2: t. 123, 1824, nom. illeg.
Syn.: *Anathallis racemiflora* (Lindl. ex Lodd.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
Syn.: *Stelis racemiflora* Pridgeon & M.W.Chase, Lindleyana 17: 100, 2002.

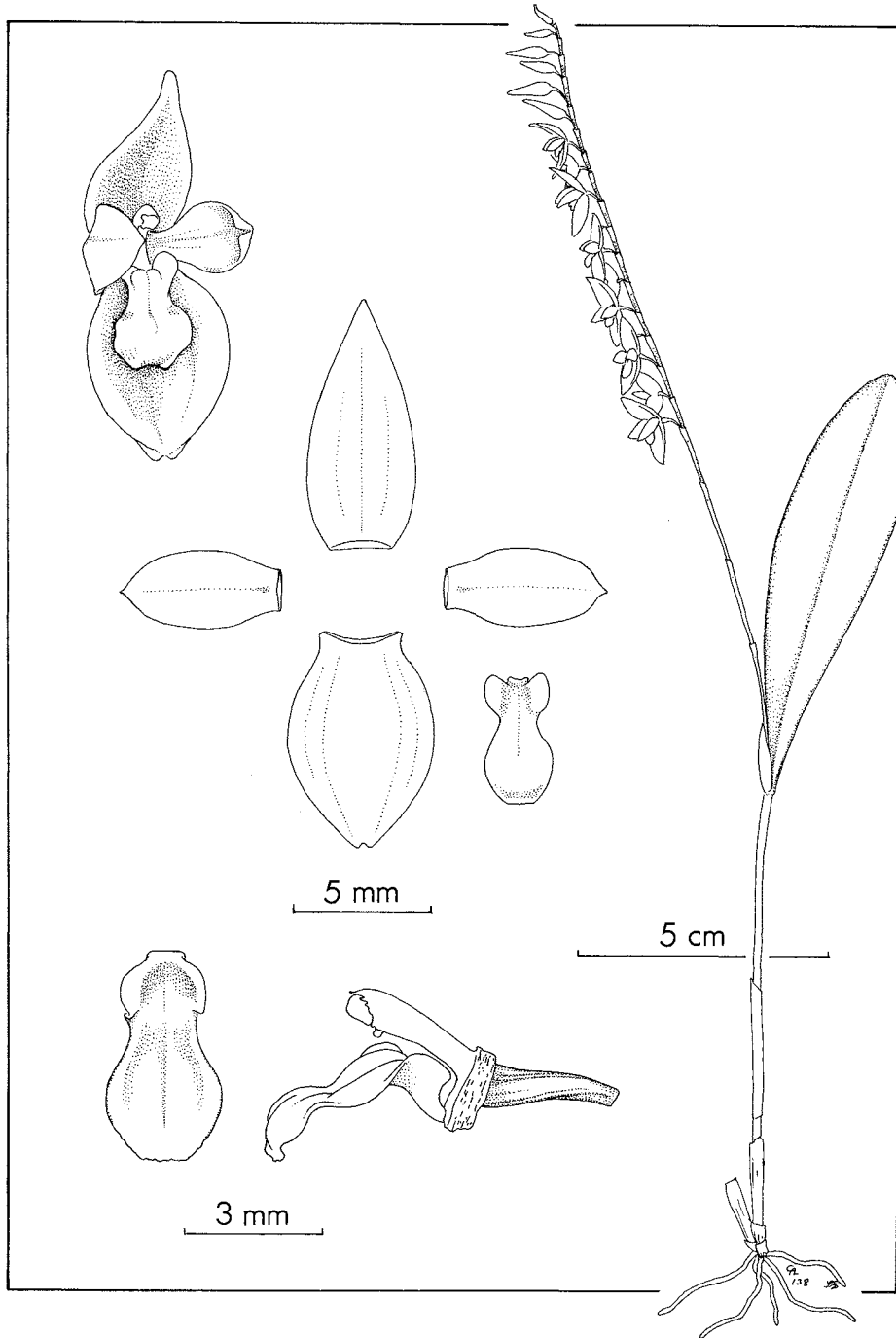


FIGURE 5. *Pleurothallis quadrifida* (La Llave & Lex.) Lindl. subgenus *Effusia*.

- Pleurothallis radialis** Porto & Brade, Arch. Inst. Biol. Veg. Rio de Janeiro 3: 132, 1937.
Syn.: *Anathallis radialis* (Porto & Brade) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis ramulosa** Lindl., Folia Orch. Pleuroth. 33, 1859.
Syn.: *Anathallis ramulosa* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis regalis** Luer, Selbyana 5: 178, 1979.
Syn.: *Anathallis regalis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis rubens** Lindl., Bot. Reg. 21: sub t. 1797, 1836.
Syn.: *Pleurothallis ambylopetala* Schltr., Repert. Spec. Nov. Regni Veg. 12: 486, 1913.
Syn.: *Anathallis ambylopetala* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 247, 2001.
Syn.: *Anathallis rubens* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis rudolfii** Pabst, Arquiv. Jard. Bot. Rio de Janeiro 14: 19, 1956.
Syn.: *Anathallis rudolfii* (Pabst) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis scariosa** (La Llave & Lex.) Lindl., Bot. Reg. 28: misc. 76?, 1842.
Bas.: *Dendrobium scariosum* La Llave & Lex., Nov. Veg. Descr. fasc. 2: Orch. Opusc. 39, 1825
Syn.: *Anathallis scariosa* (La Llave & Lex.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis schlimii** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 120, 1999.
Syn.: *Anathallis schlimii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis sclerophylla** Lindl., Bot. Reg. 21: sub. t. 1797, 1836.
Syn.: *Anathallis sclerophylla* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis sertularioides** (Sw.) Spreng., Syst. Veg. 3: 731, 1826.
Bas.: *Dendrobium sertularioides* Sw., Nov. Acta Reg. Soc. Sci. Upsal. 6: 83, 1799.
Syn.: *Anathallis sertularioides* (Sw.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis simpliciglossa** Loefgr., Arch. Jard. Bot. Rio de Janeiro 2: 50, 1918.
Syn.: *Anathallis simpliciglossa* (Loefgr.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis smaragdina** Luer, Selbyana 1: 290, 1975.
Syn.: *Anathallis smaragdina* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis soratana** Rchb.f., Xenia Orch. 3: 25, 1900.
Syn.: *Anathallis soratana* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis spannageliana** Hoehne, Contrib. Fl. Orch. Bras. 3: 297, 1930.
Syn.: *Anathallis spannageliana* (Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 250, 2001.
- Pleurothallis spathilabia** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 56, 1924.
Syn.: *Anathallis spathilabia* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 251, 2001.
- Pleurothallis spathuliformis** Luer & R.Vásquez, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 123, 1999.
Syn.: *Anathallis spathuliformis* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 251, 2001.
- Pleurothallis stenophylla** Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 442, 1899.
Syn.: *Anathallis stenophylla* (Lehm. & Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 251, 2001.
- Pleurothallis unduavica** Luer & R.Vásquez, Phytologia 47: 372, 1980.
Syn.: *Anathallis unduavica* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 251, 2001.
- Pleurothallis vasquezii** Luer, Phytologia 49: 220, 1981.
Syn.: *Anathallis vasquezii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 251, 2001.
- Pleurothallis vestita** Kraenzl., Repert. Spec. Nov. Regni Veg. 17: 392, 1921.
Syn.: *Anathallis vestita* (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 251, 2001.
- Pleurothallis ypirangae** Kraenzl., Svensk. Vetens. Handl. 46: 50, 1911.
Syn.: *Anathallis ypirangae* (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 251, 2001.
- Stelis declivis** (Lindl.) Luer, Selbyana 23(1): 44, 2002.
Bas. *Pleurothallis declivis* Lindl., Folia Orch. Pleuroth. 36, 1859.
Syn.: *Anathallis declivis* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 248, 2001.

Andinia

In 1991 two Andean species in *Lepanthes* Sw. were transferred to Central American *Salpistele*

Dressler because of “non-lepanthiform” sheaths of the ramicaul, entire petals, and a “trumpet-shaped” column. By 2000, when it was apparent that differences were too great to remain in *Salpistele*, *Andinia* was proposed. *Pleurothallis* subgenus *Aenigma* had been proposed (Luer 1986b) to accommodate a few strange species that did not fit into any known taxon. The taxon is characterized by an ascending to long-repent rhizome, abbreviated ramicauls, a racemose inflorescence, an echinate-papillose ovary, lateral sepals variously connate, simple petals, a variable lip, an apical anther, and a subapical stigma. Except for *P. vestigipetala*, unification with *Andinia* seems reasonable, even though neither the type of *Andinia*, nor the type of subgenus *Aenigma* have been sequenced. Only one species of subgenus *Aenigma* was sequenced; the others were admitted to *Andinia* without considering the possibilities of convergent evolution.

Andinia Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 79, 5, 2000.

Bas.: *Salpistele* subgen. *Andinia* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39, 12, 1991.

Type: *Lepanthes dielsii* Mansf. = *Andinia dielsii* (Mansf.) Luer

Syn.: *Pleurothallis* subgen. *Aenigma* Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20, 26, 1986.

Type: *Pleurothallis schizopogon* Luer

Pleurothallis vestigipetala Luer, Selbyana 3: 404, 1977.

Syn.: *Lueranthos vestigipetalus* (Luer) Szlach. & Marg., Polish Bot. J. 46(2): 117, 2001.

Syn.: *Andinia vestigipetala* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001.

***Anthereon* nom. illeg.**

The proposed, polyphyletic genus *Anthereon* is composed of six species in two discordant groupings, in one of which is *Pleurothallis mirabilis*, the type of the generic name *Pabstiella*. The designated type of proposed *Anthereon* is *P. tripterantha*, a unique, apparently not closely related species. *Pleurothallis aryster*, *P. determannii* and *P. mentosa* form a unit within subgenus *Mirabilia*. *Pleurothallis mirabilis* and *P. syringodes*, also within subgenus *Mirabilia*, are dissimilar morphologically with fixed lips within deep spurs.

Pleurothallis R.Br. in Aiton, Hort. Kew., ed. 2, 5: 211, 1813.

Syn.: *Pabstiella* Brieger & Senghas, Die Orchidee 27(5): 195, 1976.

Type: *Pleurothallis mirabilis* Schltr., Notizbl. Bot. Gart. Berlin 7: 274, 1913.

Syn.: *Anthereon* Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001, nom. illeg.

Type: *Pleurothallis tripterantha* Rchb.f., Bonplandia 2: 24, 1854.

Pleurothallis aryster Luer, Selbyana 3: 54, 1976.

Syn.: *Anthereon aryster* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001.

Syn.: *Pabstiella aryster* (Luer) F.Barros, Bradea 8(43): 296, 2002.

Pleurothallis determannii Luer, Selbyana 7: 117, 1982. FIGURE 6

Syn.: *Anthereon determannii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001.

Syn.: *Pabstiella determannii* (Luer) F.Barros, Bradea 8(43): 296, 2002.

Pleurothallis mentosa Cogn., Fl. Bras. 3(4): 400, 1896.

Syn.: *Lepanthes yauaperyensis* Barb.Rodr., Vellosia, ed. 2, 1: 117, 1891, non *P. yauaperyensis* Barb.Rodr., 1891.

Syn.: *Anthereon mentosus* (Cogn.) Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001.

Syn.: *Pabstiella yauaperyensis* (Barb.Rodr.) F.Barros, Bradea 8(43): 296, 2002.

Pleurothallis mirabilis Schltr., Notizbl. Bot. Gart. Berlin 7: 274, 1918. FIGURE 7

Syn.: *Pabstiella mirabilis* (Schltr.) Brieger & Senghas, Die Orchidee 26(5): 195, 1976.

Syn.: *Gyalanthos mirabilis* (Schltr.) Szlach. & Marg., Polish Bot. J. 46(2): 116, 2001.

Syn.: *Anthereon mirabilis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001.

Pleurothallis syringodes Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76, 176, 1999.

Syn.: *Gyalanthos syringodes* (Luer) Szlach. & Marg., Polish Bot. J. 46(2): 117, 2001.

Syn.: *Anthereon syringodes* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001.

Syn.: *Pabstiella syringodes* (Luer) F.Barros, Bradea 8(43): 296, 2002.

Pleurothallis tripterantha Rchb.f., Bonplandia 2: 24, 1854. FIGURE 8

Syn.: *Anthereon tripterantha* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 252, 2001.

Syn.: *Pabstiella tripterantha* (Rchb.f.) F.Barros, Bradea 8(43): 296, 2002.

Diodonopsis

A new genus, *Diodonopsis*, was proposed for five species of *Masdevallia* subgenus *Pygmaea*. The only morphological character used to distinguish the genus is a carinate, echinate, or papillose ovary, which occurs in varying degrees in many other species in subgenus *Pygmaea* (Luer 2000b). Carinate or crested ovaries also occur in

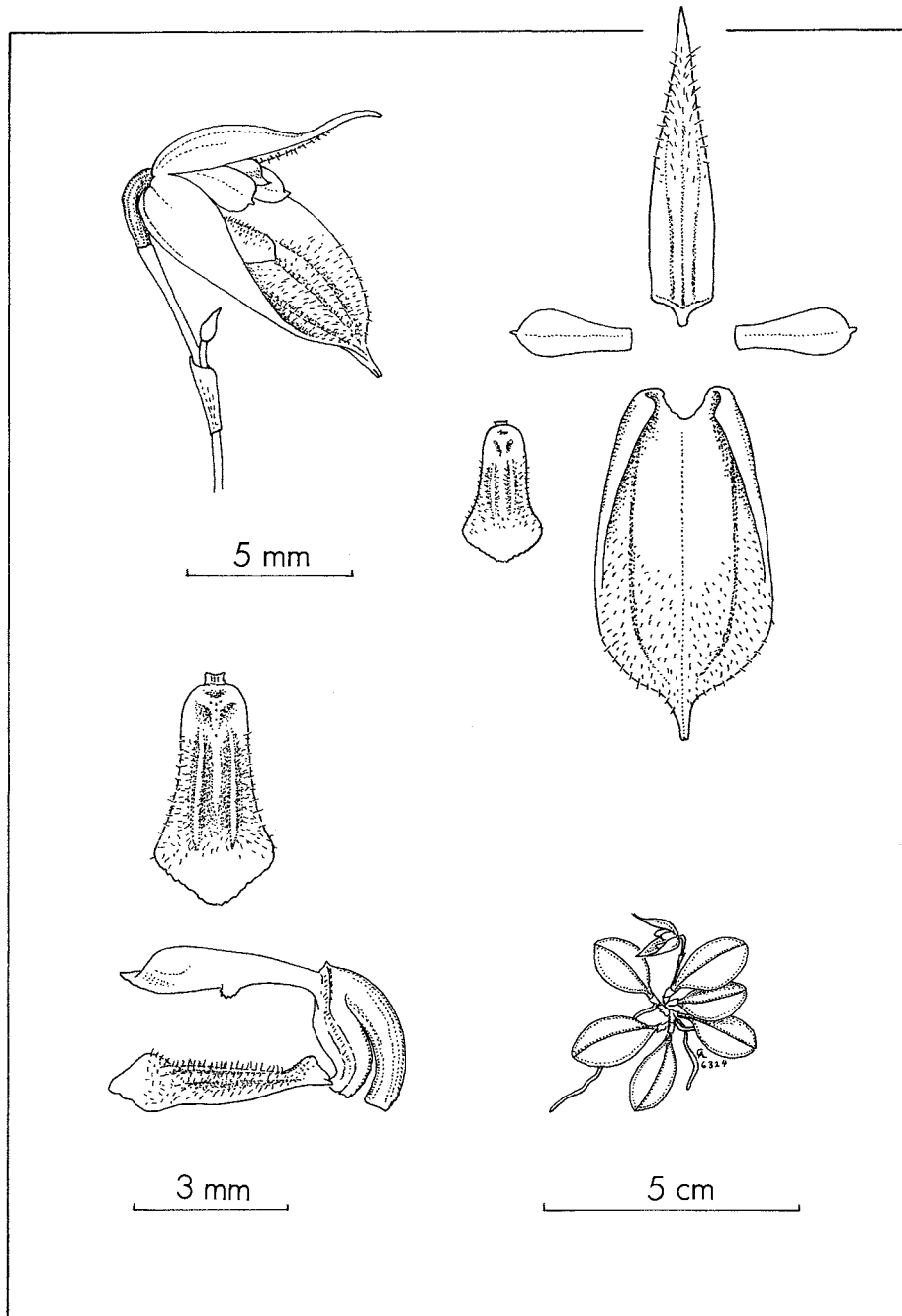


FIGURE 6. *Pleurothallis deterrmannii* Luer subgenus *Mirabilis*.

the subgenera *Fissia*, *Nidificia*, and *Amanda* (Luer 2000a).

Only one species of proposed *Diodonopsis*, *Masdevallia erinacea*, was sequenced and found to be "sister" to *Dracula-Masdevallia-Porroglossum*. "It and its relatives," therefore, "war-

rent generic status, if *Masdevallia* is to remain monophyletic." *Masdevallia* already is polyphyletic. There is unsupported evidence for removal from *Masdevallia* of these five species of subgenus *Pygmaea*, simply because they shared "ornamented" ovaries. The ovary of one of the

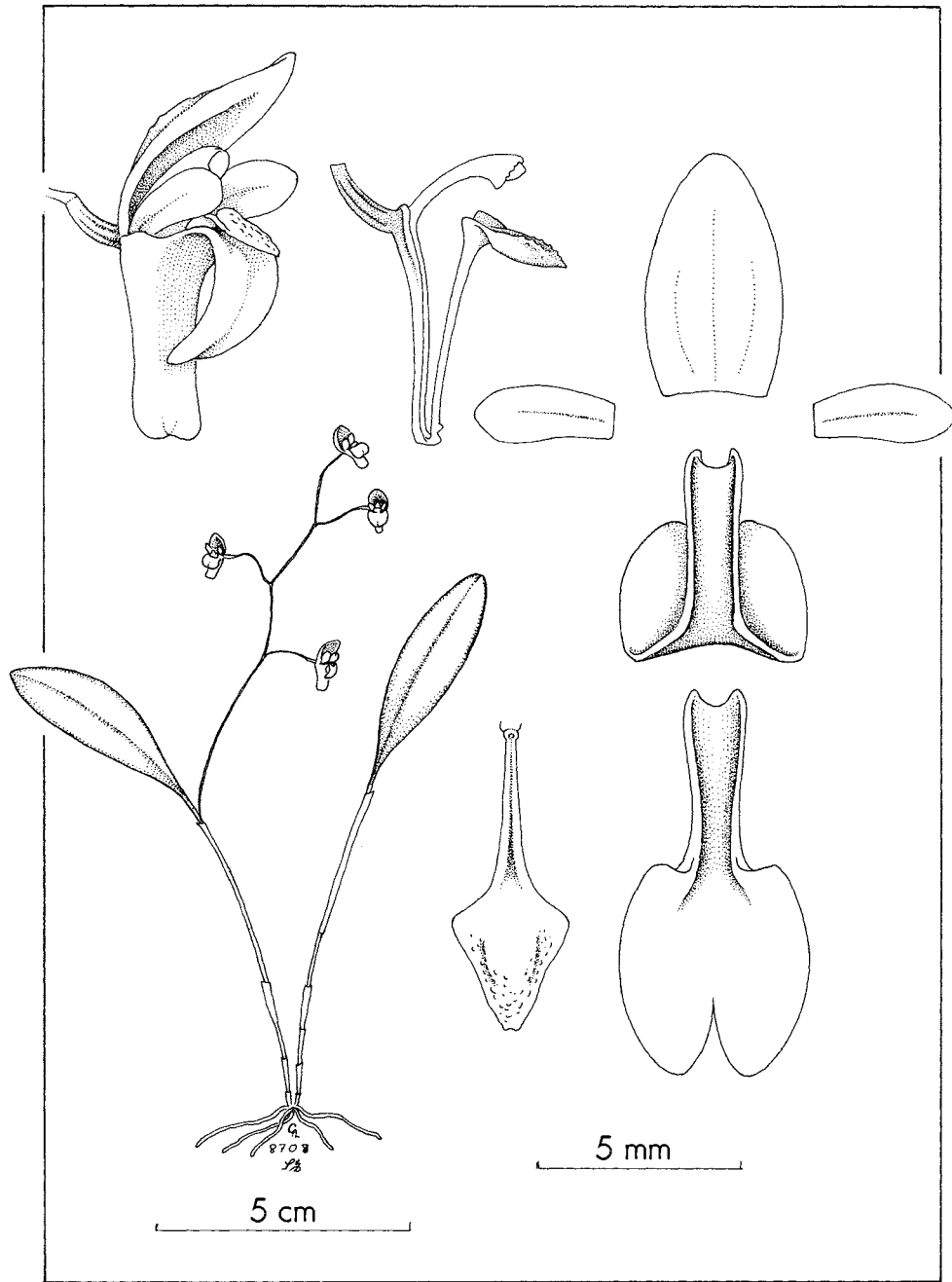


FIGURE 7. *Pleurothallis mirabilis* Schltr. subgenus *Mirabilia*.

species is spiculate, another is papillose, and two are simply lamellate, one smooth, the other erose. *Masdevallia pygmaea*, type of the generic name, was not sequenced. The others are admitted as guesses. Other species in the subgenus

with less "ornamented," or verrucose ovaries, were overlooked.

Masdevallia Ruiz & Pav.

Syn.: *Diodonopsis* Pridgeon & M.W.Chase.

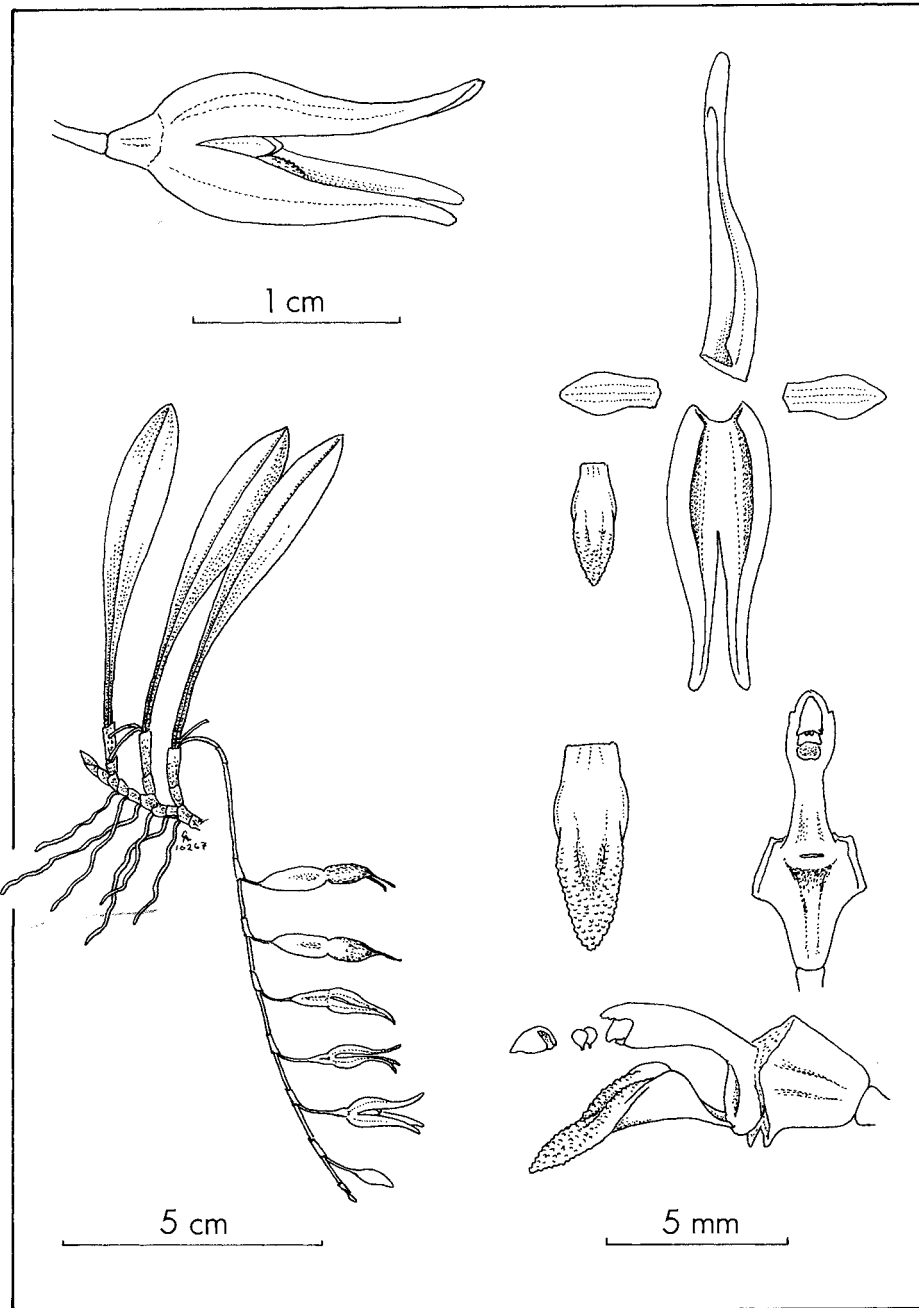


FIGURE 8. *Pleurothallis tripterantha* Rchb.f.

Pridgeon & M.W.Chase, *Lindleyana* 16: 253, 2001.

Type: *Masdevallia pygmaea* Kraenzl.

Masdevallia anachaeta Rchb.f., *Otia Bot. Hamb.* 1: 17, 1878.

Syn.: *Diodonopsis anachaeta* (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16: 253, 2001.

Masdevallia erinacea Rchb.f., *Linnaea* 41: 11, 1877.

Syn.: *Diodonopsis erinacea* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Masdevallia hoeijeri Luer & Hirtz, Lindleyana 1: 184, 1986.

Syn.: *Diodonopsis hoeijeri* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Masdevallia pterygiophora Luer & R.Escobar, Lindleyana 3: 50, 1988.

Syn.: *Diodonopsis pterygiophora* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Masdevallia pygmaea Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 92, 1925.

Syn.: *Diodonopsis pygmaea* (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Echinella nom. illeg.

Translated, the Latin diagnosis of this proposed genus, "A *Myoxanthus* Poepp. & Endl. inflorescentia uniflora differt," means "it differs from *Myoxanthus* by a single-flowered inflorescence." Note that *Myoxanthus* (ablative *Myoxantho*) also is characterized by a single-flowered inflorescence. Because the name *Echinella* is already occupied by a green alga, *Echinosepala* has been substituted (Pridgeon & Chase 2002).

Within proposed *Echinella* (*Echinosepala*), two distinct alliances, *Satyria* and *Silenia*, had been proposed (Luer 1992). Only *Pleurothallis aspicensis*, the type of the latter alliance, has been sequenced and designated as the type of *Echinella*. No species of the other alliance, *Satyria*, has been sequenced.

Proposed *Echinella* (*Echinosepala*) has morphological similarities with subgenus *Acianthera*, where it could reside as a section, or it could be treated as an allied subgenus. In either case, the genus remains *Pleurothallis*. Plants are large with stout ramicauls with loose sheaths. Flowers are borne from the apex of the ramicaul at the base of a thick, sessile leaf, but, in some species, sometimes emerging from the ramicaul or rhizome. The sepals are thick with the laterals variously connate. The lip is thick with a horse-shoe-shaped callus above the base.

Pleurothallis R.Br. in Aiton, Hort. Kew., ed. 2, 5: 211, 1813.

Syn.: *Echinella* Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala* Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Type: *Pleurothallis aspicensis* Rchb.f.

Pleurothallis aspicensis Rchb.f., Bonplandia 3: 73, 1855.

Syn.: *Echinella aspicensis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala aspicensis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis balaeniceps Luer & Dressler, Orquideología 16: 47, 1986.

Syn.: *Echinella balaeniceps* (Luer & Dressler) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala balaeniceps* (Luer & Dressler) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis lappiformis A.H.Heller & L.O.Williams, Fieldiana Bot. 31: 42, 1964.

Syn.: *Echinella lappiformis* (A.H.Heller & L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala lappiformis* (A.H.Heller & L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis pan Luer, Selbyana 3: 360, 1976.

Syn.: *Echinella pan* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala pan* (Luer) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis sempergemmata Luer Selbyana 3: 386, 1976.

Syn.: *Echinella sempergemmata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala sempergemmata* (Luer) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis stonei Luer, Phytologia 44: 171, 1979.

Syn.: *Echinella stonei* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala stonei* (Luer) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis tomentosa Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76, 177, 1999.

Syn.: *Echinella tomentosa* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala tomentosa* (Luer) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis uncinata Fawc., J. Bot. 33: 12, 1895.

Syn.: *Echinella uncinata* (Fawc.) Pridgeon & M.W.Chase, Lindleyana 16: 253, 2001.

Syn.: *Echinosepala aspicensis* (Fawc.) Pridgeon & M.W.Chase, Lindleyana 17: 101, 2002.

Pleurothallis* sect. *Phloeophila

Nine species in three obviously discordant groupings are referred to resurrected *Phloeophila*: the genera *Luerella* and *Ophidion* and four species of *Pleurothallis*, three of which had already been referred to *Phloeophila*. The type of *Phloeophila*, *Pleurothallis echinantha* Barb.Rodr., was not sequenced.

I do not treat *Phloeophila* even at a subgeneric level; I maintain it only at the sectional level for identification purposes, because of the small, creeping habit. The fallacy of declaring three species as different as *Luerella pelecanceps* (Luer) Braas, *Ophidion pleurothallopsis* (Kraenzl.) Luer, and *Pleurothallis echinantha* to belong to the same genus is nowhere more apparent than here. If analyses of DNA sequencing suggest the latter association, misinterpretations can be expected elsewhere.

Pleurothallis* sect. *Phloeophila

Bas.: *Phloeophila* Hoehne & Schltr., Arch. Bot. S. Paulo 1: 199, 1926.

Type: *Phloeophila paulensis* Hoehne & Schltr. = *Pleurothallis echinantha* Barb.Rodr.

Syn.: *Pleurothallis* subgen. *Acianthera* sect. *Phloeophilae* Luer

Luerella pelecanceps (Luer) Braas, Die Orchidee 30: 108, 1979. FIGURE 9

Bas.: *Masdevallia pelecanceps* Luer, Selbyana 3: 22, 1976.

Syn.: *Phloeophila pelecanceps* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001.

Ophidion cunabulum (Luer & R.Escobar) Luer, Selbyana 7: 79, 1982.

Bas.: *Cryptophoranthus cunabulus* Luer & Escobar, Orquideología 14: 114, 1981.

Syn.: *Phloeophila cunabula* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001.

Ophidion cymbula (Luer) Luer, Selbyana 7: 80, 1982.

Bas.: *Cryptophoranthus cymbulus* Luer, Phytologia 46: 346, 1980.

Syn.: *Phloeophila cymbula* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001.

Ophidion dasyglossum (Luer & R.Escobar) Luer, Selbyana 7: 80, 1982.

Bas.: *Cryptophoranthus dasyglossus* Luer & R.Escobar, Orquideología 14: 116, 1981.

Syn.: *Phloeophila dasyglossa* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001.

Ophidion pleurothallopsis (Kraenzl.) Luer, Selbyana 7: 80, 1982. FIGURE 10

Bas.: *Cryptophoranthus pleurothallopsis* Kraenzl., Kew Bull. 1925: 115, 1925.

Syn.: *Phloeophila pleurothallopsis* (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001.

Pleurothallis echinantha Barb.Rodr., Gen. Sp. Orch. Nov. 2: 22, 1882. FIGURE 11

Syn.: *Physosiphon echinanthus* (Barb.Rodr.) Cogn., Fl. Bras. 3(4): 338, 1896.

Syn.: *Phloeophila paulensis* Hoehne & Schltr., Arch. Bot. S. Paulo 1: 201, 1926.

Syn.: *Phloeophila echinantha* (Barb.Rodr.) Garay, Orquideología 9: 118, 1974.

Syn.: *Pleurothallis paulensis* (Schltr.) Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 17, 1986.

Syn.: *Phloeophila echinantha* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001, nom. illeg., non (Barb.Rodr.) Garay, 1974.

Pleurothallis nummularia Rchb.f., Flora 48 (n.s. 23): 276, 1865.

Syn.: *Phloeophila nummularia* (Rchb.f.) Garay, Orquideología 9: 118, 1974.

Syn.: *Phloeophila nummularia* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001, nom. illeg., non (Rchb.f.) Garay, 1974.

Pleurothallis peperomioides Ames, Sched. Orch. 6: 64, 1923.

Syn.: *Phloeophila peperomioides* (Ames) Garay, Orquideología 9: 118, 1974.

Syn.: *Phloeophila peperomioides* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001, nom. illeg., non (Ames) Garay, 1974.

Pleurothallis yupanki Luer & R.Vásquez, Phytologia 55: 203, 1984.

Syn.: *Phloeophila yupanki* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 254, 2001.

Restrepiopsis

As typified by the solitary species *Pleurothallopsis nemorosa* (Barb.Rodr.) Porto & Brade [= *Octomeria nemorosa* (Barb.Rodr.) Luer], *Pleurothallopsis* is characterized by eight pollinia instead of four, and an elongated peduncle exceeding the leaf. The floral parts, especially the lip, are as similar to *Octomeria*, as they are also to *Restrepiopsis*. Although it is known that different numbers of pollinia can occur in a genus (Luer 1995), it is more logical to assume that relationship of *O. nemorosa* is nearer to *Octomeria* than to *Restrepiopsis*.

Octomeria nemorosa occurs only in southeasternmost Brazil amid numerous other species of *Octomeria*, about 2000 km from the

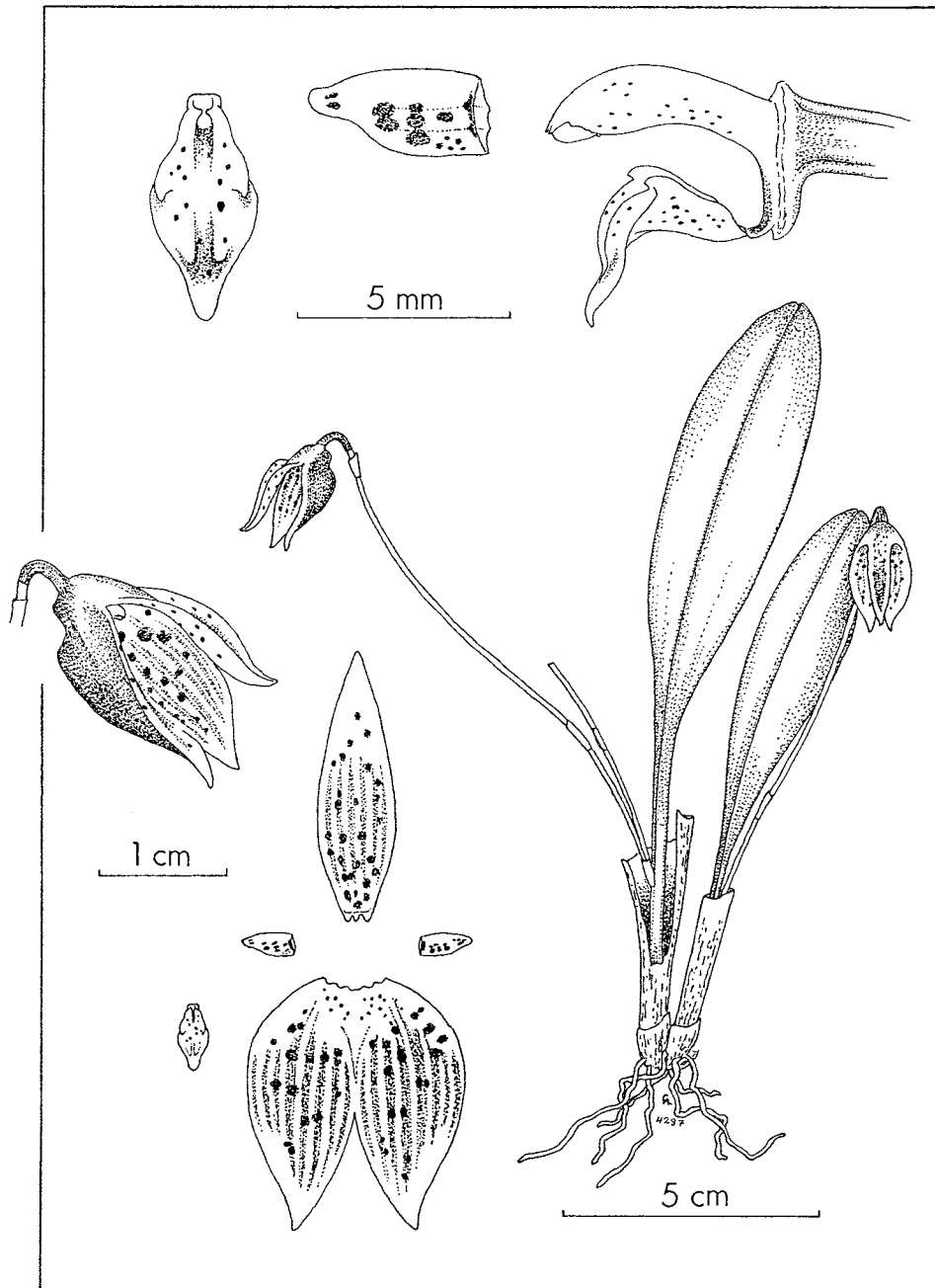


FIGURE 9. *Luerella pelicaniceps* (Luer) Braas.

nearest species of *Restrepiopsis*, there being no known species of *Restrepiopsis* in Brazil. All known species of *Restrepiopsis* are Mesoamerican and Andean in distribution with one species in northwestern Bolivia. Conclusions have been based on far too little evi-

dence. Only two species of *Octomeria* and only one species of *Restrepiopsis* were sequenced. Sequencing in other regions probably will reveal other associations.

Restrepiopsis Luer, *Selbyana* 2: 199, 1978.

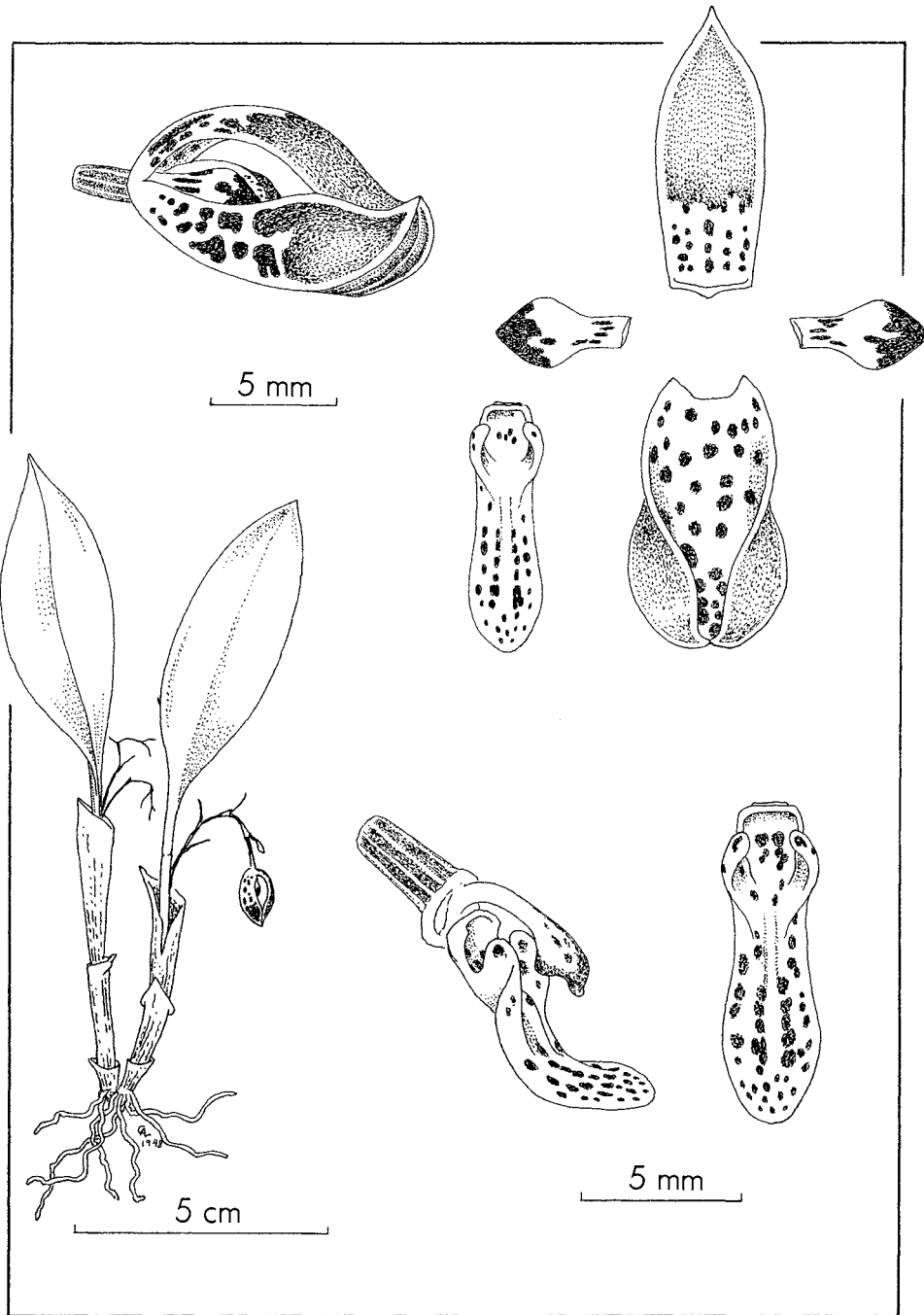


FIGURE 10. *Ophidion pleurothallopsis* (Kraenzl.) Luer.

Type: *Restepia ujarrensis* Rchb.f.

Restrepiopsis carnosa Luer & R.Vásquez, *Phytologia* 54: 289, 1983.

Syn.: *Pleurothallopsis carnosa* (Luer &

R.Vásquez) Pridgeon & M.W.Chase, *Lindleyana* 16: 255, 2001.

Restrepiopsis clausa Luer & R.Escobar, *Selbyana* 2: 202, 1978.

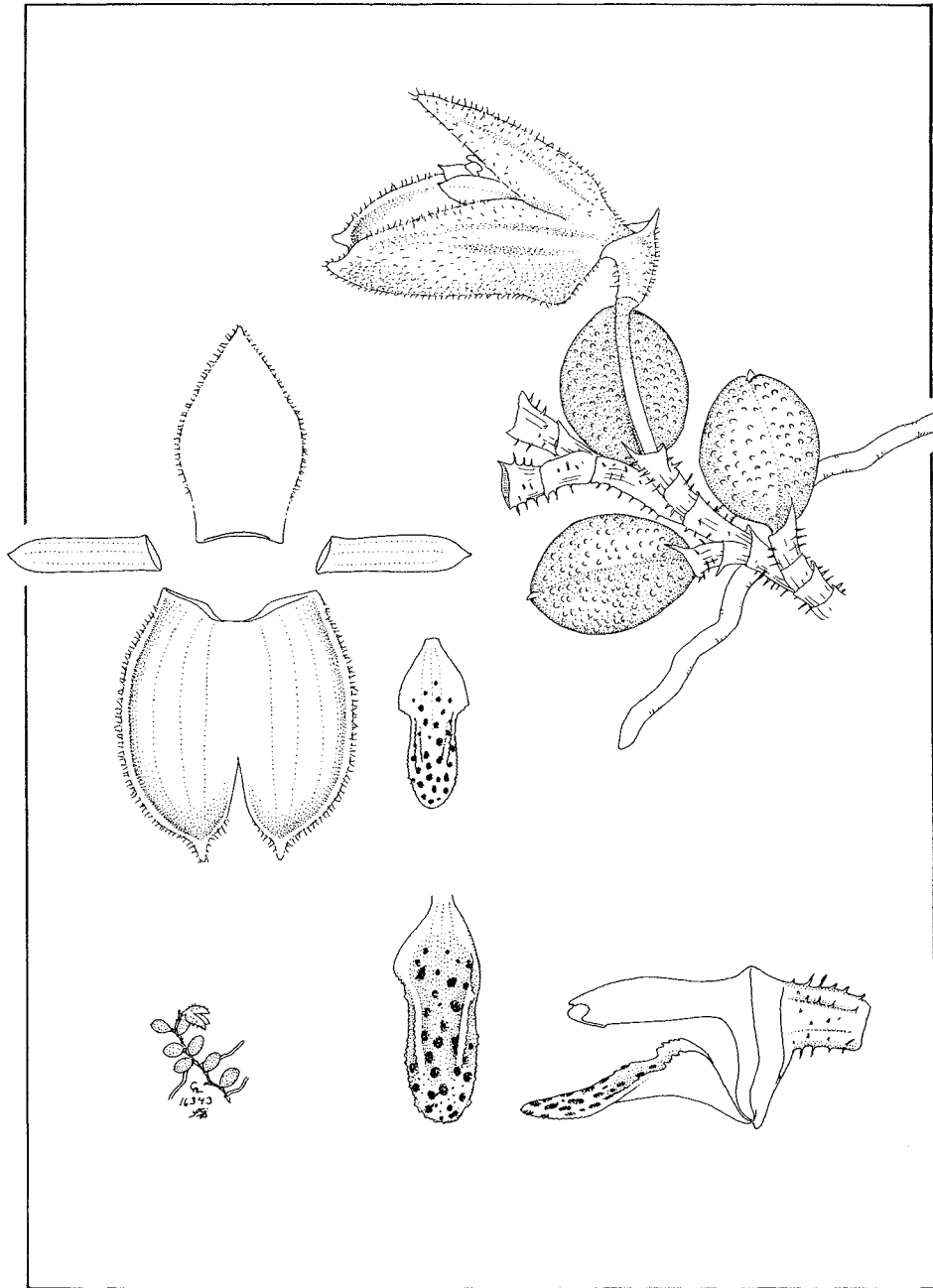


FIGURE 11. *Pleurothallis echinantha* Barb.Rodr.

Syn.: *Pleurothallopsis clausa* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.

Restrepiopsis inaequalis Luer & R.Escobar, Monogr. Syst. Bot. Missouri Bot. Gard. 39, 94, 1991.

Syn.: *Pleurothallopsis inaequalis* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.

Restrepiopsis insons Luer & R.Escobar, Selbyana 7: 77, 1982.

Syn.: *Pleurothallopsis insons* (Luer &

- R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis lehmannii** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39, 98, 1991.
Syn.: *Pleurothallopsis lehmannii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis microptera** (Schltr.) Luer, Selbyana 2: 200, 1978.
Bas.: *Pleurothallopsis microptera* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis monetalis** (Luer) Luer, Selbyana 7: 128, 1982.
Bas.: *Octomeria monetalis* Luer, Phytologia 46: 353, 1980.
Syn.: *Pleurothallopsis monetalis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis mulderae** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39, 104, 1991.
Syn.: *Pleurothallopsis mulderae* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis norae** (Garay & Dunst.) Luer, Selbyana 2: 200, 1978.
Bas.: *Restrepiella norae* Garay & Dunst., Venez. Orch. Ill. 6: 388, 1976.
Syn.: *Pleurothallopsis norae* (Garay & Dunst.) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis pandurata** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39, 108, 1991.
Syn.: *Pleurothallopsis pandurata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis powersii** Luer, Selbyana 2: 204, 1978.
Syn.: *Pleurothallopsis powersii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis reichenbachiana** (Endres ex Rchb.f.) Luer, Selbyana 5: 387, 1981.
Bas.: *Restrepia reichenbachiana* Endres ex Rchb.f., Gard. Chron. n.s. 4: 356, 1875.
Syn.: *Pleurothallopsis reichenbachiana* (Endres ex Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis striata** Luer & R.Escobar, Orquideología 16: 43, 1983.
Syn.: *Pleurothallopsis striata* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.
- Restrepiopsis tubulosa** (Lindl.) Luer, Selbyana 2: 200, 1978.
Bas.: *Pleurothallis tubulosa* Lindl., Folia Orch. Pleuroth. 19, 1859.

Syn.: *Pleurothallopsis tubulosa* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.

Restrepiopsis ujarrensis (Rchb.f.) Luer, (*Restrepia ujarrensis* Rchb.f.) Selbyana 2: 200, 1978.

Bas.: *Restrepia ujarrensis* Rchb.f., Bonplandia 3: 225, 1855, as *ujarenensis*

Syn.: *Pleurothallopsis ujarrensis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 255, 2001.

Pleurothallis subgen. *Specklinia*

Lindley (1830) described this taxon as genus *Specklinia* with five species, three of which remain in in subgenus *Specklinia*; thereafter, he attributed related species to *Pleurothallis*, mentioning *Specklinia* only in synonymy in his *Folia Orchidacea* (1859). The lectotype of *Specklinia* is the Jamaican *Pleurothallis lanceola*. Morphologically inseparable *P. lateritia* from Costa Rica is presumed to be a disjunct population, but differences are reported in the sequencing of both.

This polyphyletic subgenus is characterized by a small, repent or caespitose habit, rarely exceeding 10 cm in height, excluding the inflorescence. The ramicauls are usually much shorter than the small obovate to suborbicular leaves. The inflorescence is racemose, emerging laterally from the ramicaul below the abscission layer. Racemes are loose or contracted into a fascicle of pedicels, or reduced to a single flower in a few species.

The floral parts are variable. The base of the lip is usually delicately hinged to the tip of the column-foot, frequently between a minute lobule to either side of the hinge, similar to the basal lobules found in many species of *Trichosalpinx* and *Pleurothallis* subgen. *Acianthera*.

Already assumed to be polyphyletic, that status of subgenus *Specklinia* is confirmed by DNA analyses, but interpretations scatter some morphologically inseparable species into distant taxa with totally dissimilar morphological features. Convergent evolution of other taxa would require too many wild coincidences. As proposed even after transfers, the genus *Specklinia* is still polyphyletic.

The approximately 200 species in subgenus *Specklinia* belong to several indistinct alliances with overlapping boundaries. Several aberrant species may eventually qualify for generic or subgeneric status. Thirty-seven epithets including synonyms were transferred to morphologically alien *Anathallis* (only four species having been sequenced), and 77 (eight specimens se-

quenced) including synonyms were promoted to genus *Specklinia*. Thus approximately 100 accepted species remain in *Pleurothallis* subgenus *Specklinia*, which were not attributed. Retaining all in *Pleurothallis* solves the problem. In addition, the easily recognized genus *Acostaea* was transferred to *Specklinia*, along with an unrecognized species of *Platystele* (*P. repens*). Even if *Acostaea costaricensis* were to be transferred to *Specklinia*, the newly proposed epithet *mirifica* would be redundant, because the synonym *pleurothalloides* would have had preference.

Pleurothallis subgen. **Specklinia** Garay.

Syn.: *Specklinia* Lindl.

Lectotype: *Epidendrum lanceolum* Sw. (Garay & Sweet, J. Arnold Arb. 53: 528, 1972). = *Pleurothallis lanceola* (Sw.) Spreng.

Acostaea bicornis Luer, Phytologia 54: 379, 1983.

Syn.: *Specklinia bicornis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Acostaea campylotyle P.Ortiz, Orquideología 13: 240, 1979.

Syn.: *Specklinia campylotyle* (P.Ortiz) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.

Acostaea costaricensis Schltr., Repert. Spec. Nov. Regni Veg. Beih. 23: 284, 1923.

FIGURE 12

Syn.: *Acostaea pleurothalloides* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 23: 285, 1923.

Syn.: *Acostaea colombiana* Garay, Orquideología 9: 112, 1974.

Syn.: *Specklinia colombiana* (Garay) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.

Syn.: *Specklinia mirifica* Pridgeon & M.W. Chase, Lindleyana 16: 258, 2001, redundant name.

Acostaea tenax Luer & R.Escobar, Orquideología 15: 123, 1982.

Syn.: *Specklinia tenax* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Acostaea trilobata Luer, Selbyana 1: 216, 1975.

Syn.: *Specklinia trilobata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Acostaea unicornis Luer, Phytologia 54: 379, 1983.

Syn.: *Specklinia unicornis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Platystele repens (Ames) Garay, Orquideología 9: 120, 1974.

Bas.: *Pleurothallis repens* Ames, Orch. 2: 271, 1908.

Syn.: *Specklinia repens* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis acanthodes Luer, Selbyana 1: 222, 1975.

Syn.: *Specklinia acanthodes* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis acicularis Ames, Sched. Orch. 10: 21, 1930.

Syn.: *Specklinia acicularis* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis acrisepala Ames & C. Schweinf. Sched. Orch. 2: 22, 1925.

Syn.: *Specklinia acrisepala* (Ames & C. Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis alata A.Rich. & Galeotti, Ann. Sci. Nat. ser. 3, 3: 17, 1845.

Syn.: *Pleurothallis hastata* Ames, Orchidaceae 2: 268, 1908.

Syn.: *Pleurothallis strumosa* Ames, Sched. Orch. 9: 41, 1925.

Syn.: *Specklinia hastata* (Bateman ex Lindl.) Pridgeon & M.W. Chase, Lindleyana 16: 258, 2001.

Syn.: *Specklinia strumosa* (Ames) Pridgeon & M.W. Chase, Lindleyana 16: 259, 2001.

Pleurothallis alexii A.H.Heller, Phytologia 14: 8, 1966.

Syn.: *Specklinia alexii* (A.H.Heller) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001, as *alexii*.

Pleurothallis ancora Luer & R.Vásquez, Phytologia 46: 357, 1980.

Syn.: *Specklinia ancora* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis areldii Luer, Selbyana 2: 383, 1978.

Syn.: *Specklinia areldii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis aristata Hook., Ann. Nat. Hist. ser. 1, 2: 329, 1839.

Syn.: *Specklinia aristata* (Hook.) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis biglandulosa Schltr., Notizbl. Bot. Gart. Berlin 8: 119, 1922.

Syn.: *Specklinia biglandulosa* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis brighamella Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76, 171, 1999.

Syn.: *Specklinia brighamella* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

Pleurothallis brighamii S.Watson, Proc. Amer. Acad. 23: 285, 1888.

Syn.: *Specklinia brighamii* (S.Watson) Pridgeon & M.W.Chase, Lindleyana 16: 256, 2001.

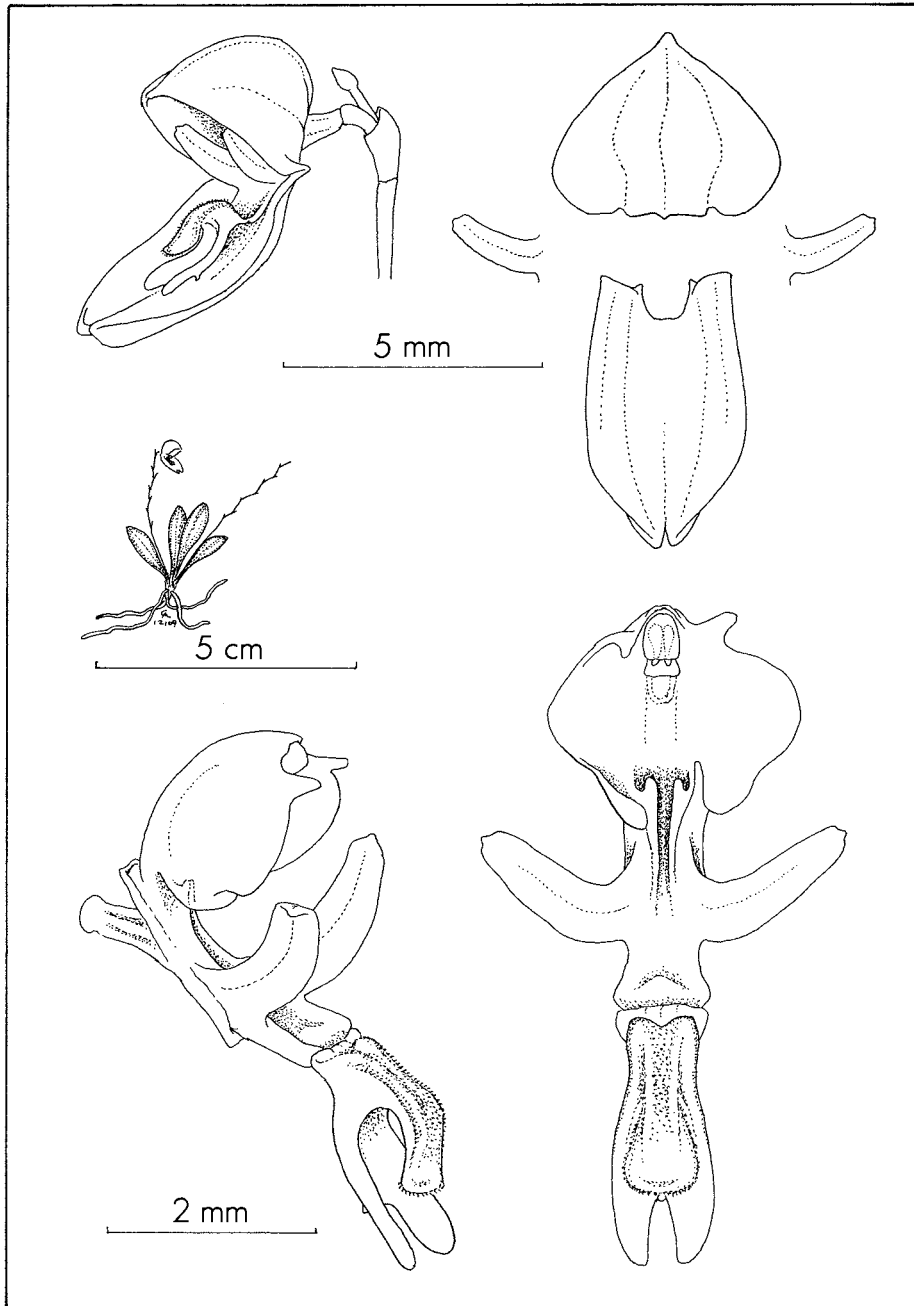


FIGURE 12. *Acostaea costaricensis* Schltr.

Pleurothallis cabellensis Rchb.f., *Linnaea* 22: 382, 1849.

Syn.: *Specklinia cabellensis* (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16: 256, 2001.

Pleurothallis cactantha Luer, *Selbyana* 3: 72, 1976.

Syn.: *Specklinia cactantha* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 257, 2001.

Pleurothallis calypstrostele Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 23, 1923.

Syn.: *Specklinia calypstrostele* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 257, 2001.

- Pleurothallis cestrochila** Garay, Orquideología 8: 180, 1973.
Syn.: *Specklinia cestrochila* (Garay) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis clavigera** Luer, Selbyana 3: 268, 1977.
Syn.: *Specklinia clavigera* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis condylata** Luer, Selbyana 3: 80, 1976.
Syn.: *Specklinia condylata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis corniculata** (Sw.) Lindl., Bot. Reg. 28: misc: 83, 1842. FIGURE 13
Bas.: *Epidendrum corniculatum* Sw., Nov. Gen. Sp. Prodr. 123, 1788.
Syn.: *Specklinia corniculatum* (Sw.) Steud., Nom. Bot., ed. 2, 2: 431, 1841.
Syn.: *Pleurothallis pyrsoles* Rchb.f., Gard. Chron. 2: 386, 1870.
Syn.: *Pleurothallis barboselloides* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 17: 18, 1922.
Syn.: *Specklinia barboselloides* (Schltr.) Pridgeon & M.W. Chase, Lindleyana 16: 256, 2001.
Syn.: *Specklinia pyrsoles* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.
- Pleurothallis corynetes** Luer & R.Vásquez, Phytologia 46: 363, 1980.
Syn.: *Specklinia corynetes* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis costaricensis** Rolfe, Kew Bull. 1917: 80, 1917.
Syn.: *Specklinia costaricensis* (Rolfe) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis curtisii** Dod, Moscosoa 3: 111, 1984.
Syn.: *Specklinia curtisii* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis cynocephala** Luer, Selbyana 5: 163, 1979.
Syn.: *Specklinia cynocephala* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis digitalis** Luer, Orquidea (Mex.) 6: 3, 1976, as *digitale*
Syn.: *Specklinia digitalis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis displosa** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 172, 1999.
Syn.: *Specklinia displosa* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis echinodes** Luer & R.Escobar, Orquideología 16: 24, 1983.
Syn.: *Specklinia echinodes* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis endotrachys** Rchb.f., Linnaea 41: 95, 1877. FIGURE 14
Syn.: *Specklinia endotrachys* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis exesilabia** A.H.Heller & A.D.Hawkes, Phytologia 14: 11, 1966.
Syn.: *Specklinia exesilabia* (A.H.Heller & A.D.Hawkes) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis formondii** Dod, Moscosoa 3: 116, 1984.
Syn.: *Specklinia formondii* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis fulgens** Rchb.f., Gard. Chron. 2: 516, 1855.
Syn.: *Specklinia fulgens* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis geminiflora** Ames, F.T.Hubb. & C.Schweinf., Bot. Mus. Leaflet 3: 39, 1934.
Syn.: *Specklinia geminiflora* (Ames, F.T.Hubb. & C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis glandulosa** Ames, Sched. Orch. 6: 60, 1923.
Syn.: *Pleurothallis vittarifolia* Schltr., Repert. Spec. Nov. Regni Veg. Beih. 19: 25, 1923.
Syn.: *Specklinia glandulosa* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
Syn.: *Specklinia vittarifolia* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.
- Pleurothallis gongylodes** Luer, Selbyana 5: 166, 1979.
Syn.: *Specklinia gongylodes* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis gracillima** Lindl., Folia Orch. Pleuroth. 35, 1859.
Syn.: *Specklinia gracillima* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 257, 2001.
- Pleurothallis grobyi** Bateman ex Lindl., Bot. Reg. 21: t. 1797, 1836.
Syn.: *Specklinia grobyi* (Bateman ex Lindl.) E.Barros, Hoehnea 10, 110, 1983.
Syn.: *Specklinia grobyi* (Bateman ex Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001, nom. illeg.
- Pleurothallis guanacastensis** Ames & C.Schweinf., Sched. Orch. 10: 27, 1930.
Syn.: *Specklinia guanacastensis* (Ames & C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.

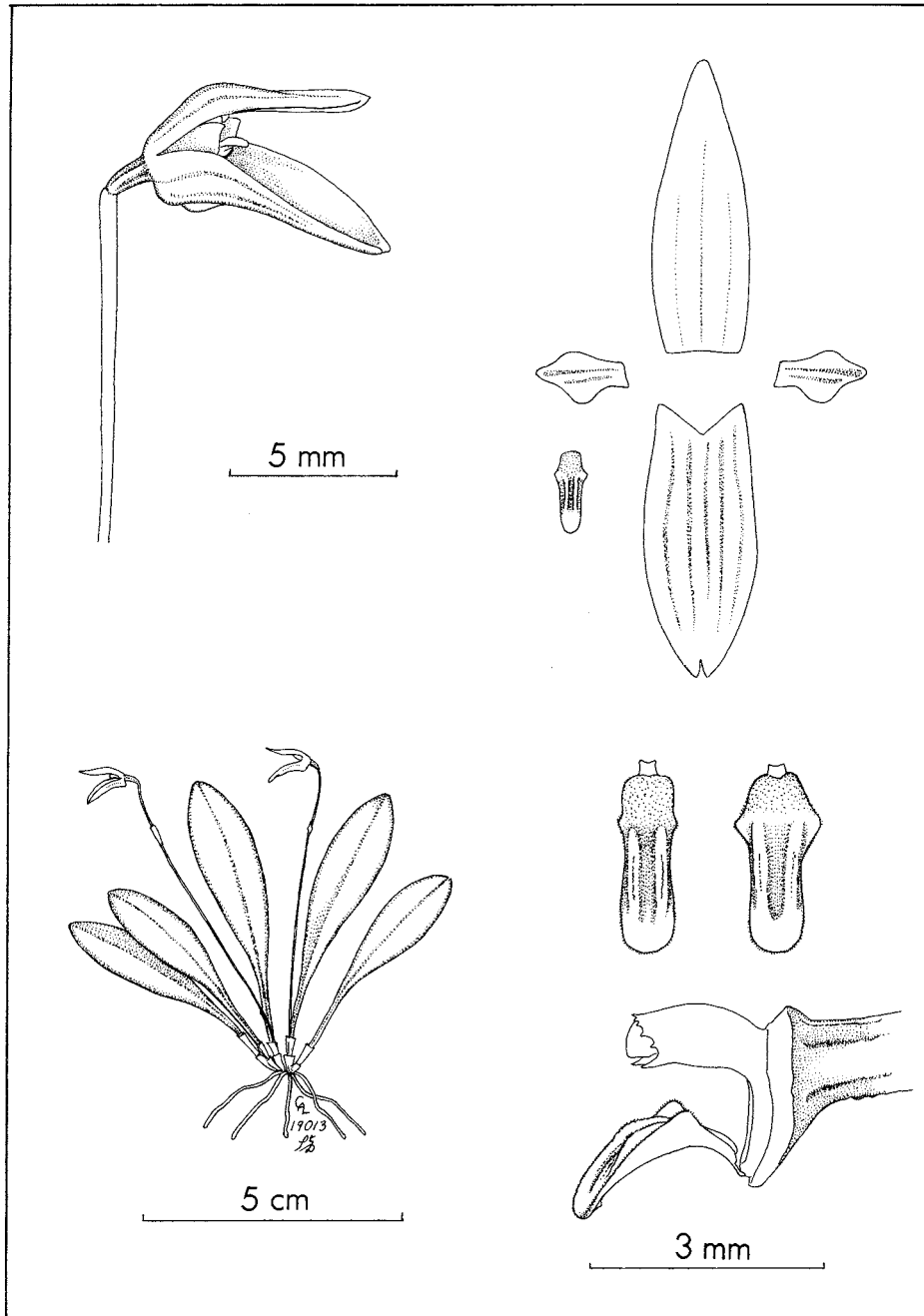


FIGURE 13. *Pleurothallis corniculata* (Sw.) Lindl. subgenus *Specklinia*.

Pleurothallis haitiensis Dod, *Moscosa* 3: 113, 1984.

Syn.: *Specklinia haitiensis* (Dod) Pridgeon & M.W.Chase, *Lindleyana* 16: 258, 2001, as *haitiensis*.

Pleurothallis helenae Fawc. & Rendle, *J. Bot.* 47: 4, 1909.

Syn.: *Specklinia helenae* (Fawc. & Rendle) Pridgeon & M.W.Chase, *Lindleyana* 16: 258, 2001.

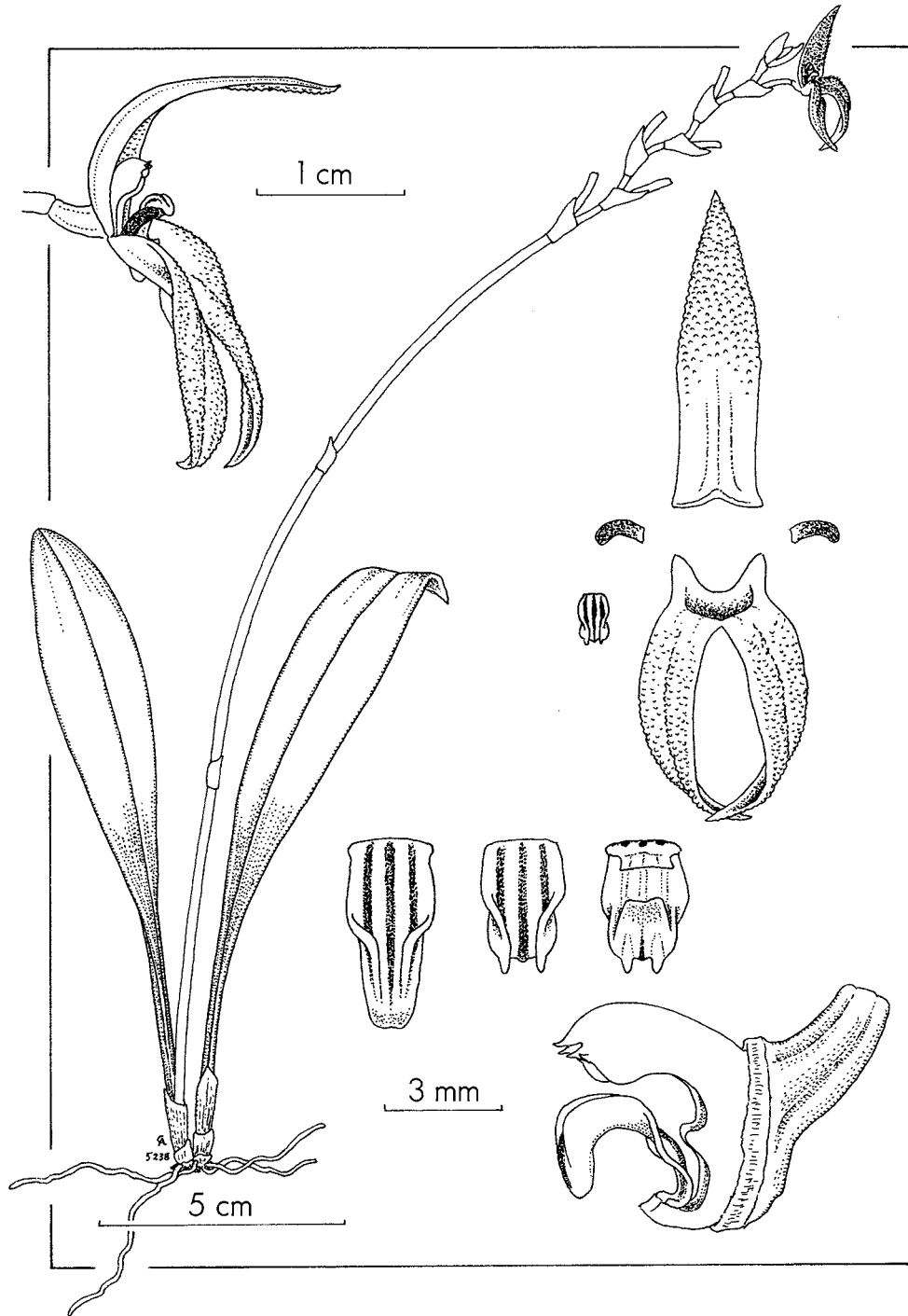


FIGURE 14. *Pleurothallis endotrachys* Rchb.f. subgenus *Empusella*.

- Pleurothallis herpestes** Luer, Selbyana 5: 167, 1979.
Syn.: *Specklinia herpestes* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis ichthyonekys** Luer, Selbyana 3: 316, 1977.
Syn.: *Specklinia ichthyonekys* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis intonsa** Luer & R.Escobar, Orquideología 14: 156, 1981.
Syn.: *Specklinia intonsa* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis kennedyi** Luer, Selbyana 3: 326, 1977.
Syn.: *Specklinia kennedyi* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis lanceola** (Sw.) Spreng., Syst. 3: 731, 1826.
Bas.: *Epidendrum lanceola* Sw., Nov. Gen. Sp. Prodr. 123, 1788.
Syn.: *Specklinia lanceola* (Sw.) Lindl., Gen. Sp. Orch. 8, 1830.
Syn.: *Pleurothallis lateritia* Rchb.f., Gard. Chron. 1872: 731, 1872.
Syn.: *Pleurothallis sclarea* Rchb.f., Linnaea 41: 49, 1877.
Syn.: *Specklinia lateritia* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
Syn.: *Specklinia sclarea* (Rchb.f.) Pridgeon & M.W. Chase, Lindleyana 16: 259, 2001.
- Pleurothallis latilabris** Foldats, Acta Bot. Venez. 3: 376, 1968.
Syn.: *Specklinia latilabris* (Foldats) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis lentiginosa** Lehm. & Kraenz., Bot. Jahrb. Syst. 26: 446, 1899. FIGURE 15
Syn.: *Specklinia lentiginosa* (Lehm. & Kraenz.) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis lichenicola** Griseb., Cat. Pl. Cuba 259, 1866. FIGURE 16
Syn.: *Specklinia lichenicola* (Griseb.) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis lipothrix** Luer, Phytologia 55: 201, 1984.
Syn.: *Specklinia lipothrix* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis macroblepharis** Rchb.f., Gard. Chron. 2: 772, 1874. FIGURE 17
Syn.: *Specklinia macroblepharis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis megalops** Luer, Selbyana 7: 118, 1982.
Syn.: *Specklinia megalops* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis microphylla** A.Rich. & Galeotti, Ann. Sci. Nat. ser. 3, 3: 17, 1845.
Syn.: *Specklinia microphylla* (A.Rich. & Galeotti) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis parvifolia** Lindl., Comp. Bot. Mag. 2: 355, 1837.
Syn.: *Specklinia parvifolia* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis perangusta** Luer, Selbyana 3: 162, 1976.
Syn.: *Specklinia perangusta* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.
- Pleurothallis picta** Lindl., Bot. Reg. 21: sub. t. 1797, 1835.
Syn.: *Pleurothallis marginata* Lindl., Bot. Reg. 34: Misc. 42, 1848.
Syn.: *Pleurothallis florulenta* Linden & Rchb.f., Bonplandia 3: 223, 1855.
Syn.: *Specklinia florulenta* (Linden & Rchb.f.) Pridgeon & M.W. Chase, Lindleyana 16: 257, 2001.
Syn.: *Specklinia marginata* (Lindl.) Pridgeon & M.W. Chase, Lindleyana 16: 258, 2001.
Syn.: *Specklinia picta* (Lindl.) Pridgeon & M.W. Chase, Lindleyana 16: 259, 2001.
- Pleurothallis producta** Luer, Selbyana 3: 176, 1976.
Syn.: *Specklinia producta* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.
- Pleurothallis purpurella** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 76: 176, 1999.
Syn.: *Specklinia purpurella* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.
- Pleurothallis samacensis** Ames, Sched. Orch. 2: 22, 1923.
Syn.: *Specklinia samacensis* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.
- Pleurothallis scolopax** Luer & R.Escobar, Orquideología 14: 172: 1981.
Syn.: *Specklinia scolopax* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.
- Pleurothallis semperflorens** Lindl., Folia Orch. Pleuroth. 40, 1859.
Syn.: *Specklinia semperflorens* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.
- Pleurothallis seriata** Lindl., Bot. Reg. 26: Misc. 75, 1840.
Syn.: *Specklinia seriata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

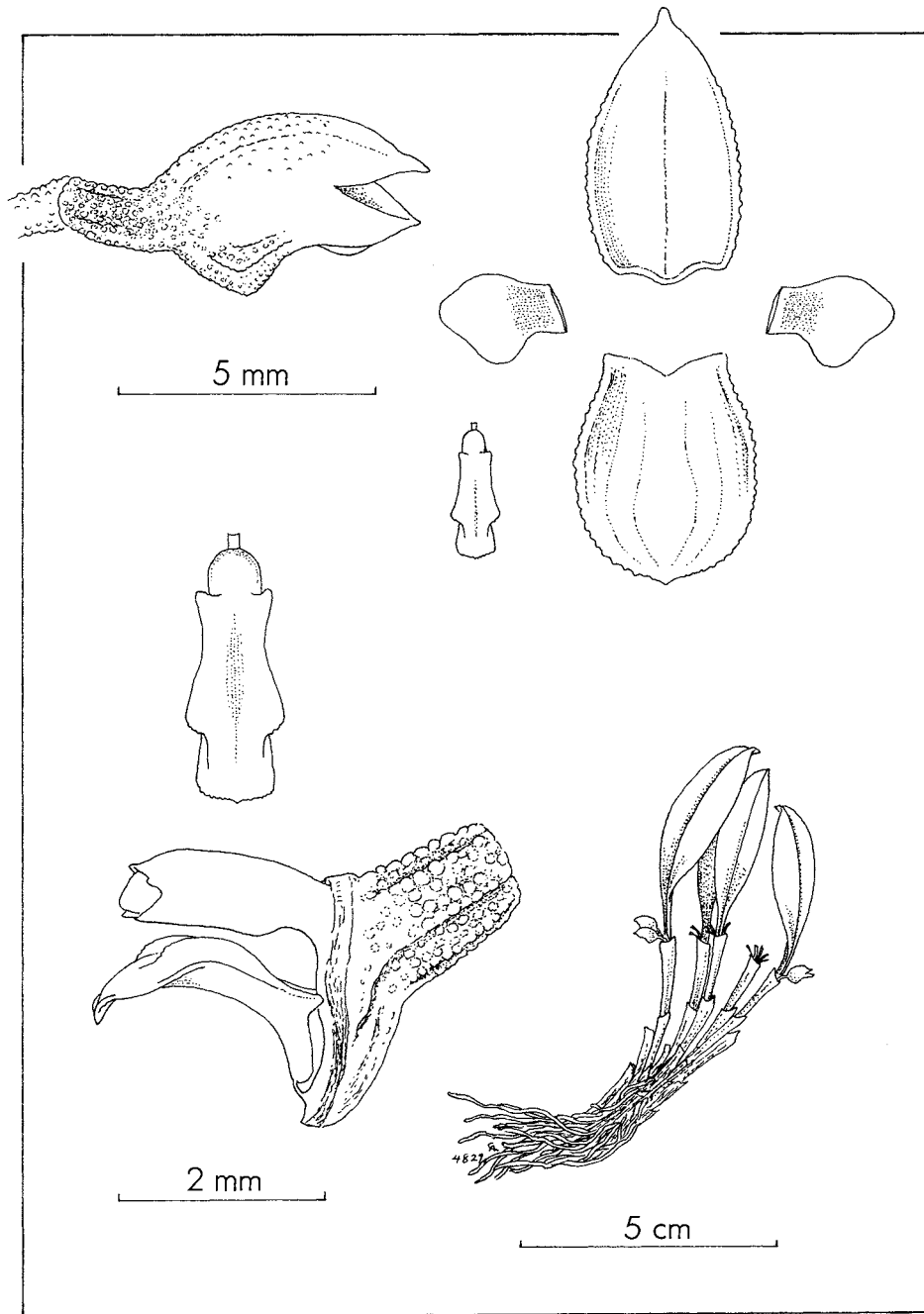


FIGURE 15. *Pleurothallis lentiginosa* FLehm. & Kraenzl. subgenus *Pseudoctomeria*.

Pleurothallis setosa C.Schweinf., Bot. Mus.
 Leafl. 9: 64, 1941
 Syn.: *Specklinia setosa* (C.Schweinf.) Pridgeon &
 M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis simmleriana Rendle, J. Bot. 38:
 274, 1900.
 Syn.: *Pleurothallis periodica* Ames, Sched.
 Orch. 7: 21, 1924.

Syn.: *Specklinia periodica* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 258, 2001.

Pleurothallis simulatrix Luer, Phytologia 55: 202, 1984.

Syn.: *Specklinia simulatrix* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis spiculifera Lindl., Folia Orch. Pleuroth. 43, 1859.

Syn.: *Specklinia picta* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis stillsonii Dod, Moscosoa 3: 107, 1984.

Syn.: *Specklinia stillsonii* (Dod) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis stumpflei Luer, Selbyana 5: 182, 1979.

Syn.: *Specklinia stumpflei* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis tamboensis Luer, Orquideología 14: 174, 1981.

Syn.: *Specklinia tamboensis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis tempestalis Luer, Selbyana 3: 396, 1977.

Syn.: *Specklinia tempestalis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis tribuloides (Sw.) Lindl., Gen. Sp. Orch. Pl. 6, 1830.

Bas.: *Epidendrum tribuloides* Sw., Nov. Gen. Sp. Prodr. 123, 1788.

Syn.: *Specklinia tribuloides* (Sw.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis uniflora Lindl., Comp. Bot. Mag. 2: 355, 1837.

Syn.: *Specklinia uniflora* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Pleurothallis xanthella Luer, Selbyana 1: 300, 1975.

Syn.: *Specklinia xanthella* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 260, 2001.

Pleurothallis yucatanensis Ames & C.Schweinf., Bot. Mus. Leaflet 1: 4, 1932.

Syn.: *Specklinia yucatanensis* (Ames & C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 260, 2001.

Pleurothallis zephyrina Rchb.f., Bonplandia 3: 71, 1855.

Syn.: *Pleurothallis setigera* Lindl., Folia Orch. Pleuroth., 38, 1859.

Syn.: *Specklinia setigera* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 259, 2001.

Stelis

To this distinct, well-demarcated genus of more than 600 species, transfers of 164 epithets from nine subgenera of *Pleurothallis*, the genera *Condylago* Luer and *Salpistele* Dressler and one species of *Trichosalpinx* Luer have been proposed. Twenty-six species previously described in *Stelis* were transferred, as well as a misspelled name (*jameson*) and a non-existent *Physothallis* (*P. neoharlingii*), listed as a basionym.

The flower of a *Stelis* with the diminutive, compact central apparatus composed of short, broad, thick-margined petals, and a tiny, short, thick lip tucked beneath the column is unmistakable. For this finding alone, this genus should not be confused with others (*Stelis guianensis* Rolfe, FIGURE 18)

There is no doubt about the vegetative similarity of many species of *Pleurothallis* to many species of *Stelis*, and it is no surprise that the DNA analyses of those few species sequenced might have a similarity in one limited region. The probability is high, however, that differences not yet demonstrated must exist.

Stelis Sw., nom. conserv.

Type: *Epidendrum ophioglossoides* Jacq. = *Stelis ophioglossoides* (Jacq.) Sw.

Condylago rodrigo Luer, Orquideología 15: 118, 1982. FIGURE 19

Syn.: *Stelis rodrigo* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.

Pleurothallis aligera Luer & R.Vásquez, Rev. Soc. Bol. Bot. 2: 9, 1997.

Syn.: *Stelis aligera* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.

Pleurothallis aloisii Schltr., Repert. Spec. Nov. Regni. Veg. Beih. 8: 57, 1921.

Syn.: *Stelis aloisii* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.

Pleurothallis amaliae Luer & R.Escobar, Orquideología 14: 124, 1981.

Syn.: *Stelis amaliae* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.

Pleurothallis amparoana Schltr., Repert. Spec. Nov. Regni. Veg. Beih. 19: 23, 1923.

Syn.: *Stelis amparoana* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001., nom. illeg., non *Stelis amparoana* Schltr., 1923.

Syn.: *Stelis pilosa* Pridgeon & M.W.Chase, Lindleyana 17: 100, 2002.

Pleurothallis ancistra Luer & Hirtz, Lindleyana 11: 144, 1996.

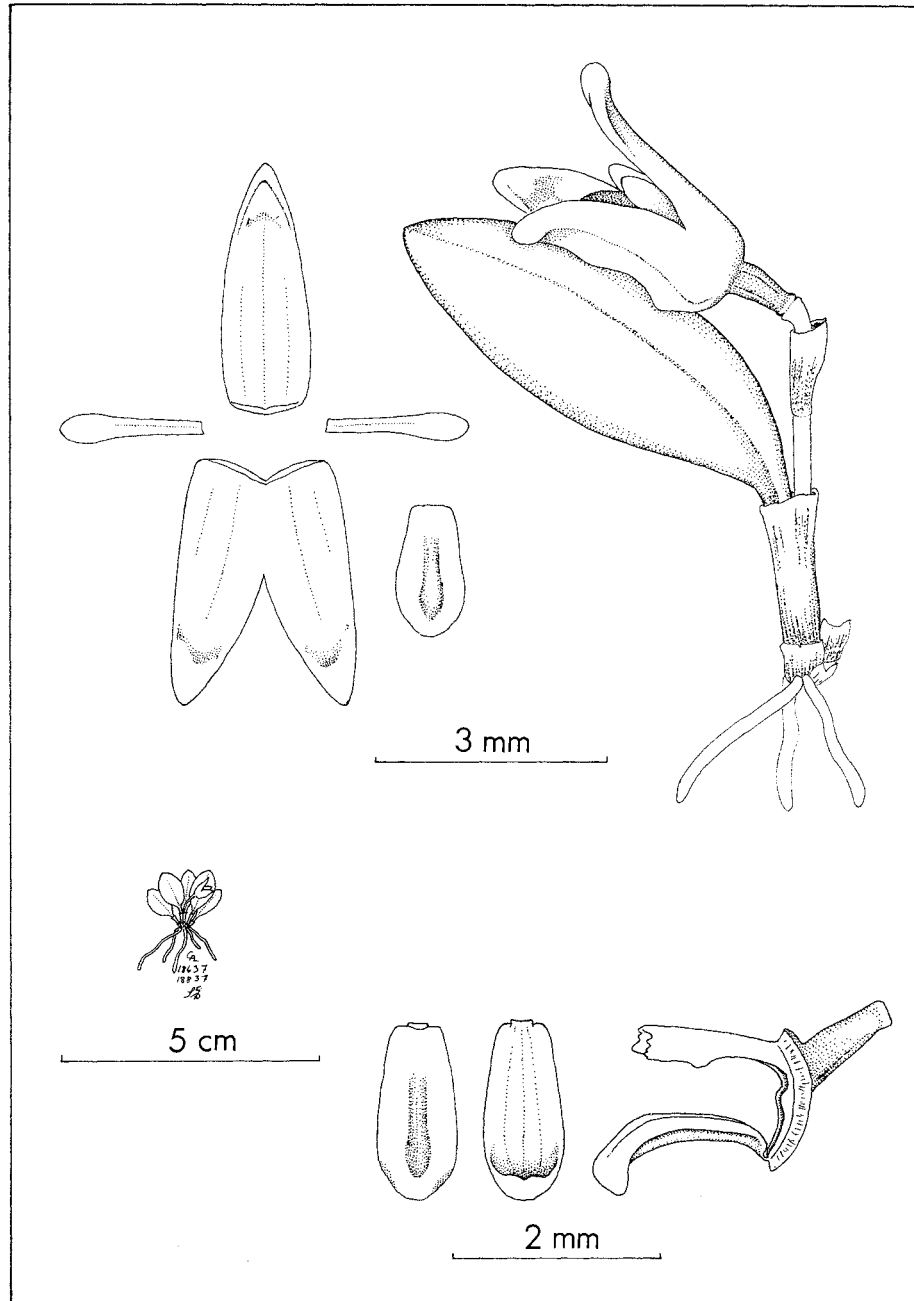


FIGURE 16. *Pleurothallis lichenicola* Griseb. subgenus *Specklinia*.

Syn.: *Stelis ancistra* (Luer & Hirtz) Pridgeon & M.W.Chase, *Lindleyana* 16: 261, 2001.

Syn.: *Stelis apposita* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 261, 2001.

Pleurothallis apposita Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 65: 12, 1998.

Pleurothallis arcuata Lindl., *Folia Orch. Pleuroth.* 34, 1859. FIGURE 20

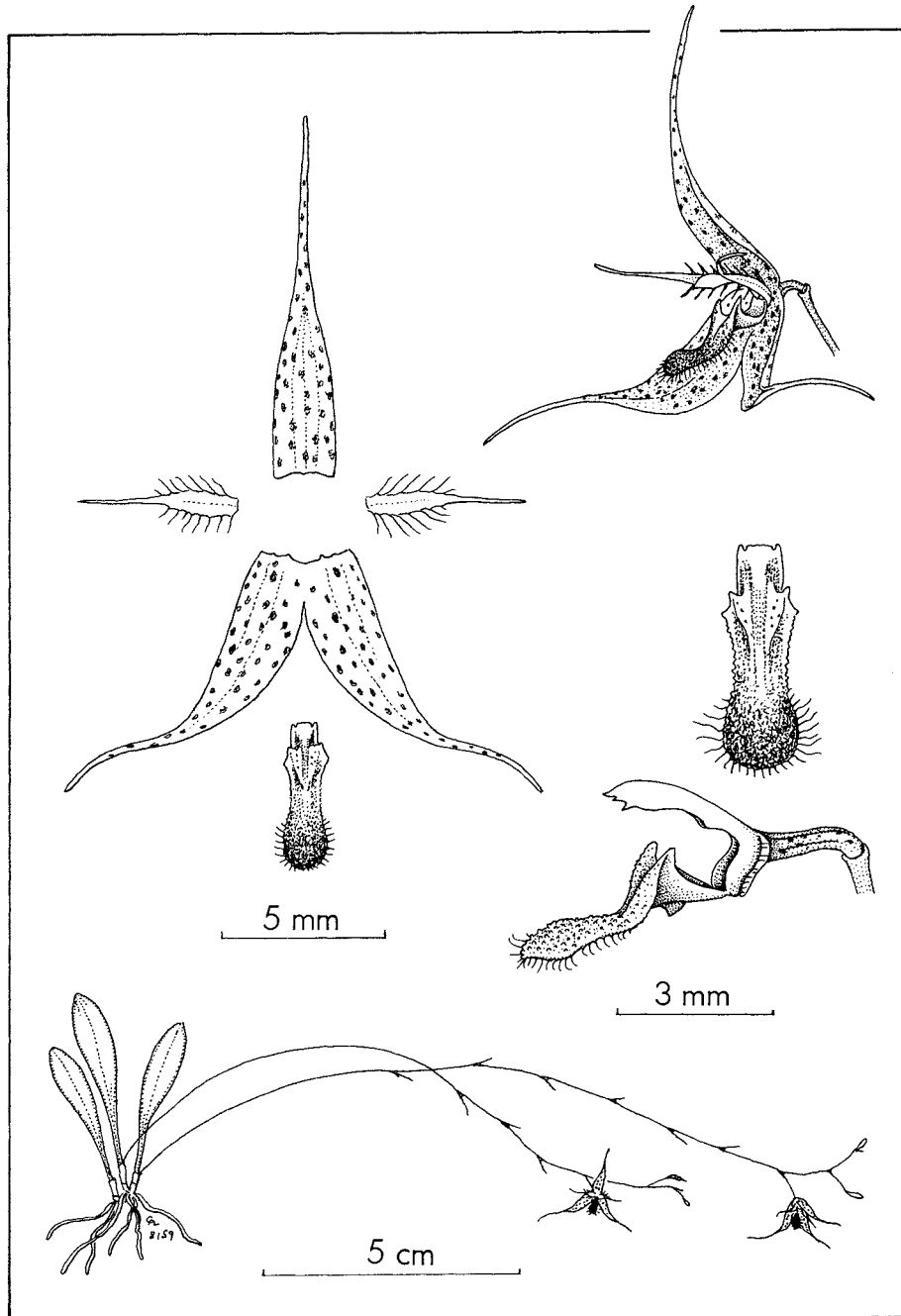


FIGURE 17. *Pleurothallis macroblepharis* Rchb.f. subgenus *Specklinia*.

Syn.: *Stelis arcuata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.

Syn.: *Stelis asperrima* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.

Pleurothallis asperrima Luer, Phytologia 49: 201, 1981.

Pleurothallis atwoodii Luer, Lindleyana 11: 67, 1996.

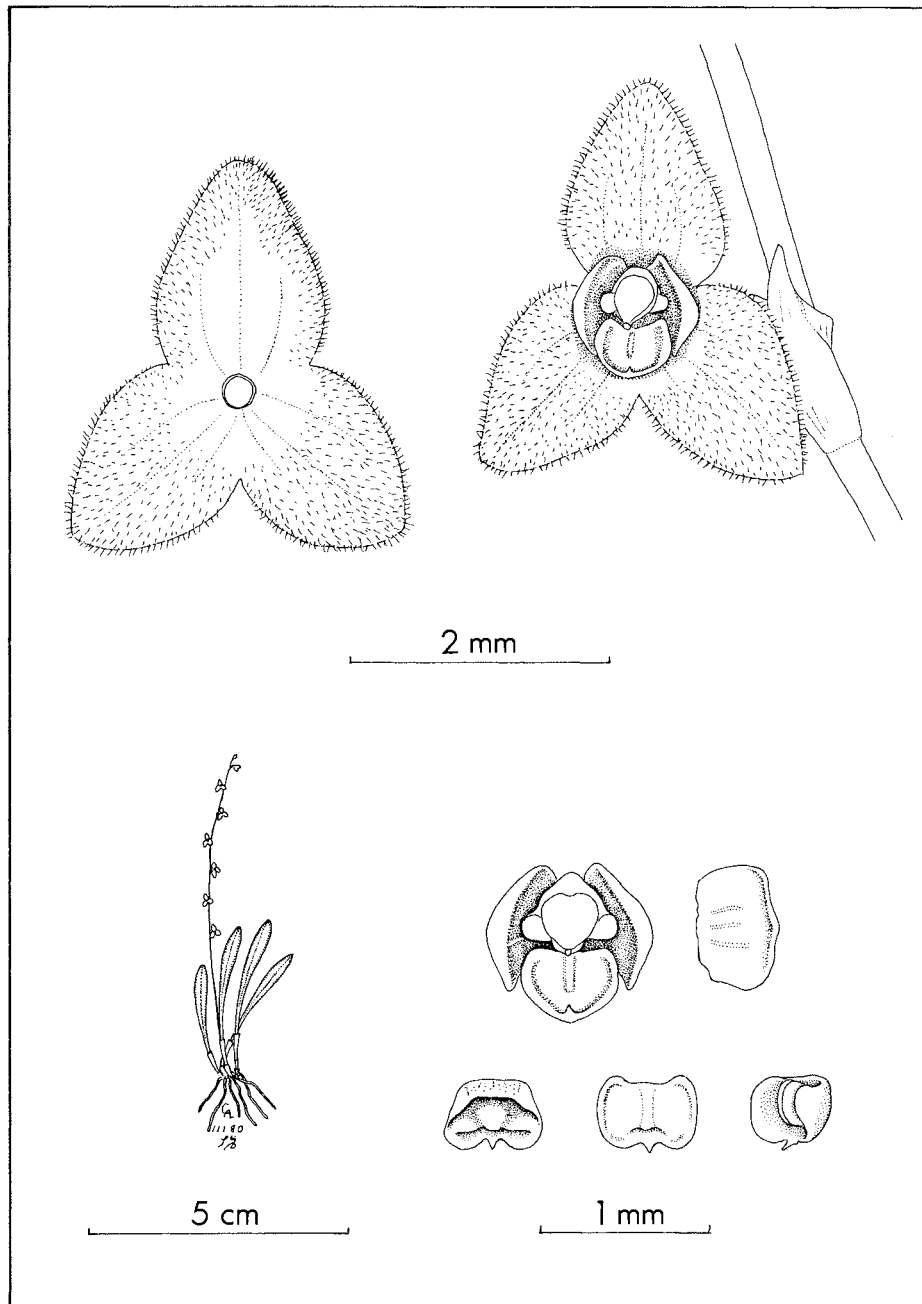


FIGURE 18. *Stelis guianensis* Rolfe.

Syn.: *Stelis atwoodii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.

Syn.: *Stelis avirostris* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.

Pleurothallis avirostris Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 13, 1998.

Pleurothallis batillacea Luer, Selbyana 3: 58, 1976.

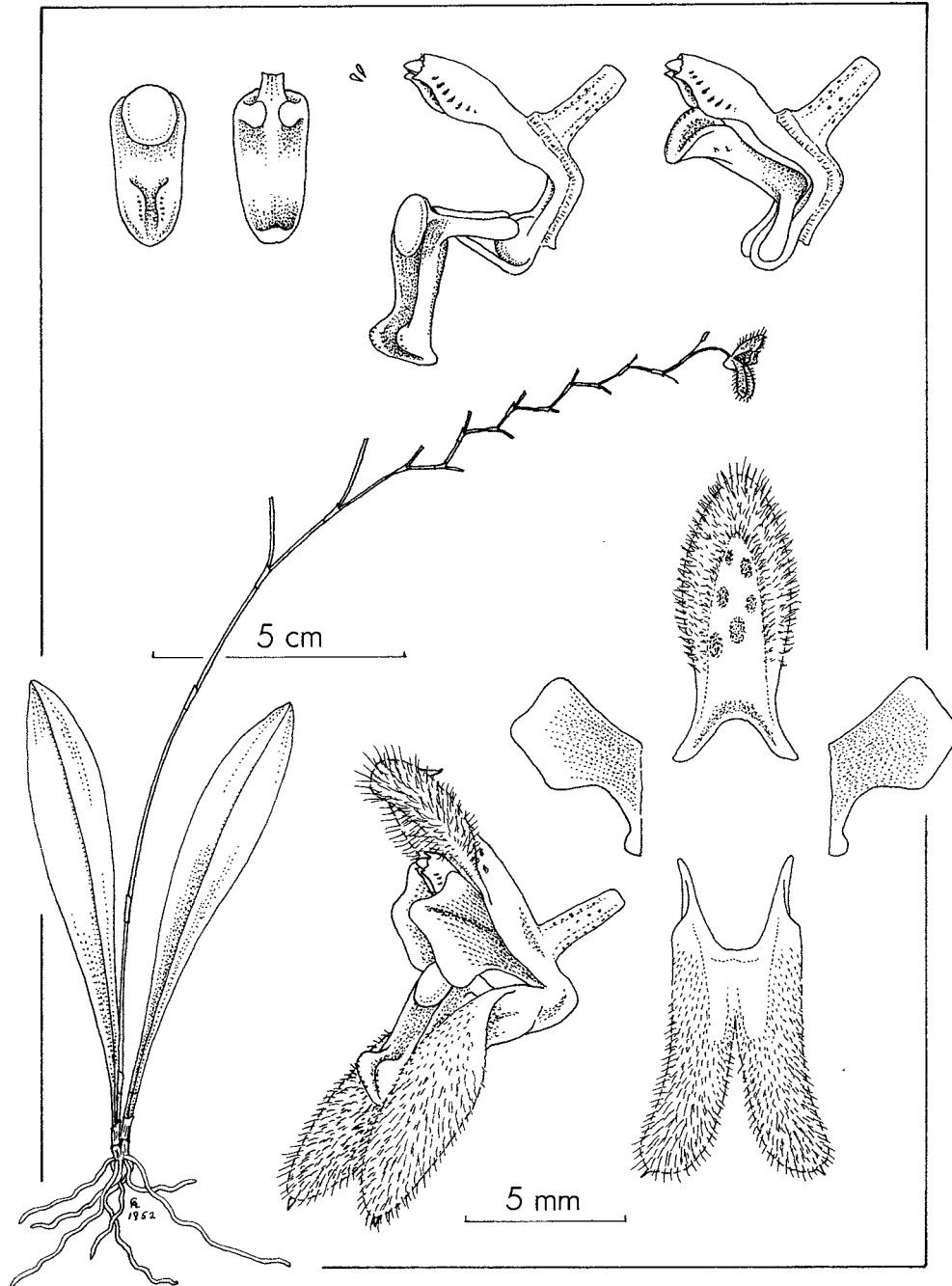


FIGURE 19. *Condylago rodrigoii* Luer.

Syn.: *Stelis batillacea* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 261, 2001.

Syn.: *Stelis bertonensis* (Hauman) Pridgeon & M.W.Chase, *Lindleyana* 16: 261, 2001.

Pleurothallis bertonensis Hauman, *An. Soc. Ci. Argent.* 90: 144, 1929.

Pleurothallis bifalcis Schltr., *Beih. Bot. Centralbl.* 36: 395, 1918.

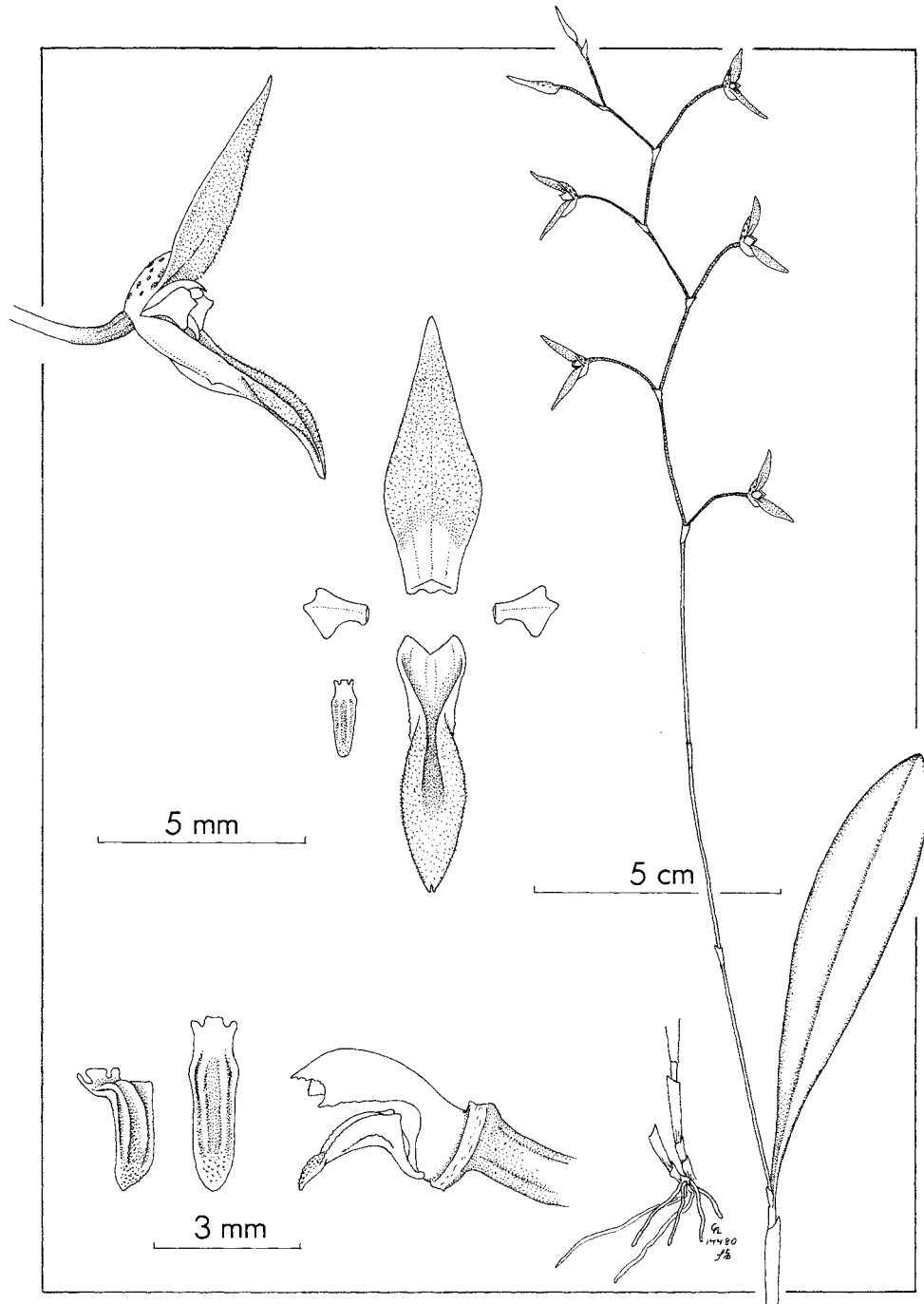


FIGURE 20. *Pleurothallis arcuata* Lindl. subgenus *Effusia*.

Syn.: *Stelis bifalcis* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 261, 2001.

Pleurothallis bracteosa C.Schweinf., *Fieldiana Bot.* 33: 20, 1970.

Syn.: *Stelis bracteosa* (C. Schweinf.) Pridgeon & M.W.Chase, *Lindleyana* 16: 261, 2001.

Pleurothallis bucaremangae Luer & R.Escobar, *Orquideología*, 20: 38, 1986.

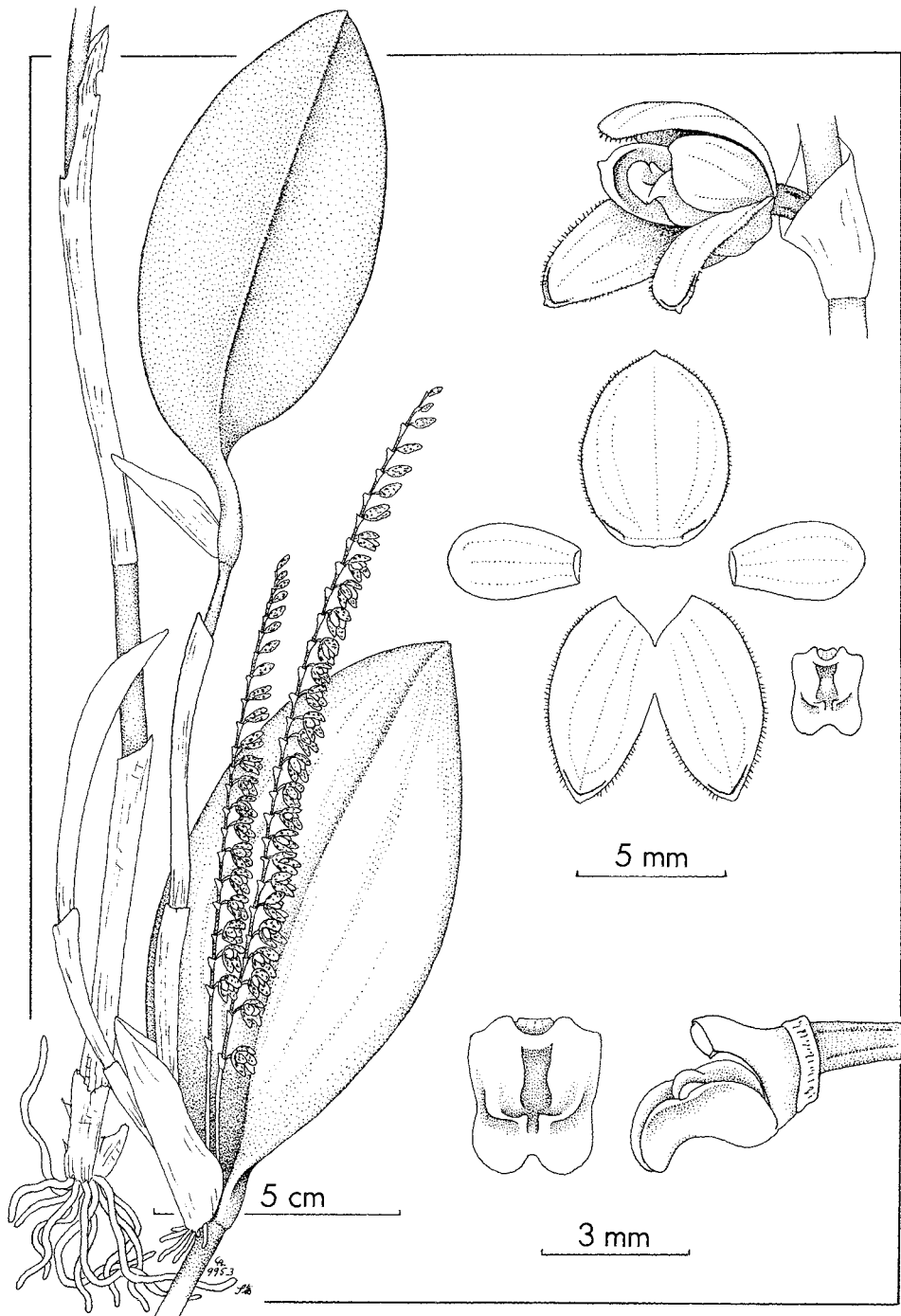


FIGURE 21. *Pleurothallis expansa* Lindl. subgenus *Crocodeilanthe*.

- Syn.: *Stelis alta* Pridgeon & M.W.Chase, Lindleyana 17: 98, 2002.
- Pleurothallis granulosa** (Barb.Rodr.) Cogn., Fl. Bras. 3(4): 550, 1896.
Bas.: *Lepanthes granulosa* Barb.Rodr., Gen. Sp. Orch. Nov. 2: 45, 1882.
Syn.: *Stelis granulosa* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis guttata** Luer, Selbyana 3: 116, 1976.
Syn.: *Stelis guttata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis hians** Lindl., Bot. Reg. 21: sub t. 1797, 1836.
Syn.: *Stelis hians* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001., nom. illeg., non *Stelis hians* Schltr., 1915.
Syn.: *Stelis chasme* Pridgeon & M.W.Chase, Lindleyana 17: 98, 2002.
- Pleurothallis hygrophila** Barb.Rodr., Gen. Sp. Orch. Nov. 1: 7, 1877.
Syn.: *Stelis hygrophila* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis hypnicola** Lindl., Bot. Reg. 28: Misc. 75, 1842.
Syn.: *Stelis hypnicola* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis immersa** Linden & Rchb.f., Bonplandia 3: 224, 1855.
Syn.: *Stelis immersa* (Linden & Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis imraei** Lindl., Folia Orch. Pleuroth. 9, 1859.
Syn.: *Stelis imraei* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis infundibulosa** Luer, Orquideología 20: 210, 1996.
Syn.: *Stelis infundibulosa* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis ingramii** Luer, Lindleyana 11: 81, 1996.
Syn.: *Stelis ingramii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001, nom. illeg., non *Stelis ingramii* Luer, 1996.
Syn.: *Stelis ferrelliae* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.
- Pleurothallis jalapensis** (Kraenzl.) Garay, Bot. Mus. Leafl. 30: 192, 1986.
Bas.: *Masdevallia jalapensis* Kraenzl., Repert. Spec. Nov. Regni Veg. Beih. 34: 117, 1925.
Syn.: *Stelis jalapensis* (Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
- Pleurothallis jamesonii** Lindl., Bot. Reg. 21: sub t. 1797, 1836.
Syn.: *Stelis jamesonii* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001, as *jamiesonii*, nom. illeg., non *Stelis jamesonii* Lindl., 1834.
- Pleurothallis janetiae** Luer, Lindleyana 5: 169, 1979. FIGURE 22
Syn.: *Stelis janetiae* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis jurisdixii** Luer & R.Escobar, Orquideología 20: 64, 1996.
Syn.: *Stelis jurisdixii* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis kareniae** Luer, Lindleyana 11: 83, 1996.
Syn.: *Stelis kareniae* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001., nom. illeg., non *Stelis kareniae* Luer, 1996.
Syn.: *Stelis uncinata* Pridgeon & M.W.Chase, Lindleyana 17: 100, 2002.
- Pleurothallis laevigata** Lindl., Ann. Mag. Nat. Hist. ser. 1, 15: 106, 1845.
Syn.: *Stelis laevigata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis laevis** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 33, 1998.
Syn.: *Stelis laevis* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis laminata** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 33, 1998.
Syn.: *Stelis laminata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis laxiflora** Porsch, Oesterr. Bot. Zeitschr. 115: 1905.
Syn.: *Stelis laxiflora* (Porsch) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis lehmanneptis** Luer & R.Escobar, Orquideología 21: 100, 1998.
Syn.: *Stelis lehmanneptis* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis ligulata** Lindl., Folia Orch. Pleuroth. 29, 1859.
Syn.: *Stelis ligulata* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis listerophora** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 3: 107, 1906.
Syn.: *Stelis listerophora* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis longispicata** L.O.Williams, Bot. Mus. Leafl. 12: 240, 1946.

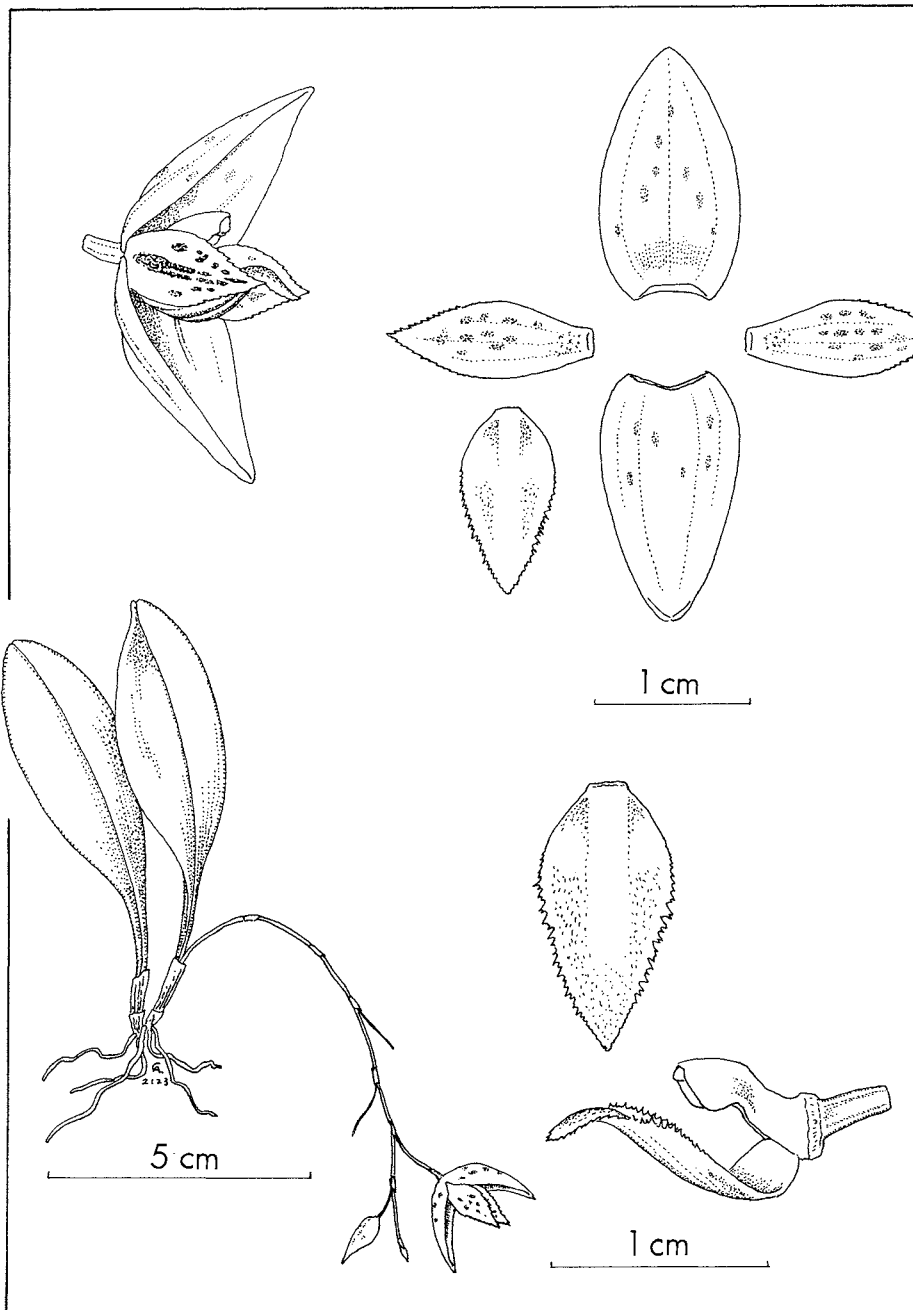


FIGURE 22. *Pleurothallis janetiae* Luer subgenus *Elongatia*.

Syn.: *Stelis longispicata* (L.O.Williams) Pridgeon & M.W.Chase, *Lindleyana* 16: 264, 2001.

Pleurothallis macrantha L.O.Williams, *Ann. Missouri Bot. Gard.* 28: 417, 1941.

Syn.: *Stelis macrantha* (L.O.Williams) Pridgeon

& M.W.Chase, *Lindleyana* 16: 264, 2001, nom. illeg., non *Stelis macrantha* Rchb.f. ex Rusby, 1907.

Syn.: *Stelis cylindrata* Pridgeon & M.W.Chase, *Lindleyana* 17: 98, 2002.

- Pleurothallis magdalенаe** Rchb.f., Bonplandia 3: 72, 1855.
Syn.: *Stelis magdalенаe* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis mandonii** Rchb.f., Xenia Orch. 3: 24, 1878.
Syn.: *Stelis mandonii* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis maxima** Luer, Selbyana 3: 140, 1976.
Syn.: *Stelis maxima* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001, nom. illeg., non *Stelis maxima* Lindl., 1845.
Syn.: *Stelis dapsilis* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.
- Pleurothallis melanostele** Luer & R.Vásquez, Phytologia 49: 210, 1981.
Syn.: *Stelis melanostele* (Luer & R.Vásquez) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis microtis** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 35: 56, 1925.
Syn.: *Stelis microtis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001, nom. illeg., non *Stelis microtis* Rchb.f., 1866.
Syn.: *Stelis pumila* Pridgeon & M.W.Chase, Lindleyana 17: 100, 2002.
- Pleurothallis moleturoi** Luer & Dodson, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 38, 1998.
Syn.: *Stelis moleturoi* (Luer & Dodson) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis moritzii** Rchb.f., Linnaea 22: 824, 1849.
Syn.: *Stelis moritzii* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis mystax** Luer, Selbyana 3: 146, 1976. FIGURE 23
Syn.: *Stelis mystax* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
Syn.: *Mystacorchis mystax* (Luer) Szlach. & Marg. Polish Bot. J. 46(2): 117, 2001.
- Pleurothallis neoharlingii** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 20: 53, 1986. FIGURE 24
Bas.: *Physothallis harlingii* Garay, Svensk Bot. Tidskr. 47: 199, 1953
Syn.: *Stelis harlingii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.
Syn.: *Stelis neoharlingii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001, sphalm.
- Pleurothallis nigriflora** L.O.Williams, Amer. Orch. Soc. Bull. 11: 168, 1942.
Syn.: *Stelis nigriflora* (L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis nivalis** Luer, Selbyana 1: 420, 1976.
Syn.: *Stelis nivalis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001.
- Pleurothallis oblongifolia** Lindl., Comp. Bot. Mag. 2: 355, 1836.
Syn.: *Stelis oblongifolia* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001, nom. illeg., non *Stelis oblongifolia* Lindl., 1858.
Syn.: *Stelis multirostris* Pridgeon & M.W.Chase, Lindleyana 17: 100, 2002.
- Pleurothallis oestlundiana** L.O.Williams, Bot. Mus. Leaflet. 12: 243, 1946.
Syn.: *Stelis oestlundiana* (L.O.Williams) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis orectopus** Luer, Selbyana 3: 356, 1977.
Syn.: *Stelis orectopus* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis ornata** Rchb.f., Garten-Zeitung 1: 106, 1882.
Syn.: *Stelis ornata* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis pachyglossa** Lindl., Bot. Reg. 26: Misc. 68, 1840.
Syn.: *Stelis pachyglossa* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis papillifera** Rolfe, Kew Bull. 1916: 77, 1916,
Syn.: *Stelis papillifera* (Rolfe) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis parahybunensis** (Barb.Rodr.) Luer, Selbyana 5: 388, 1986.
Bas.: *Lepanthes parahybunensis* Barb.Rodr., Gen. Sp. Orch. Nov. 2: 57, 1882.
Syn.: *Stelis parahybunensis* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001, nom. illeg., *Stelis parahybunensis* Barb.Rodr., 1882.
Syn.: *Stelis amoena* Pridgeon & M.W.Chase, Lindleyana 17: 98, 2002.
- Pleurothallis patateensis** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 42, 1998.
Syn.: *Stelis patateensis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis pellifeloidis** (Barb.Rodr.) Cogn., Fl. Bras. 3(4): 515, 1896.

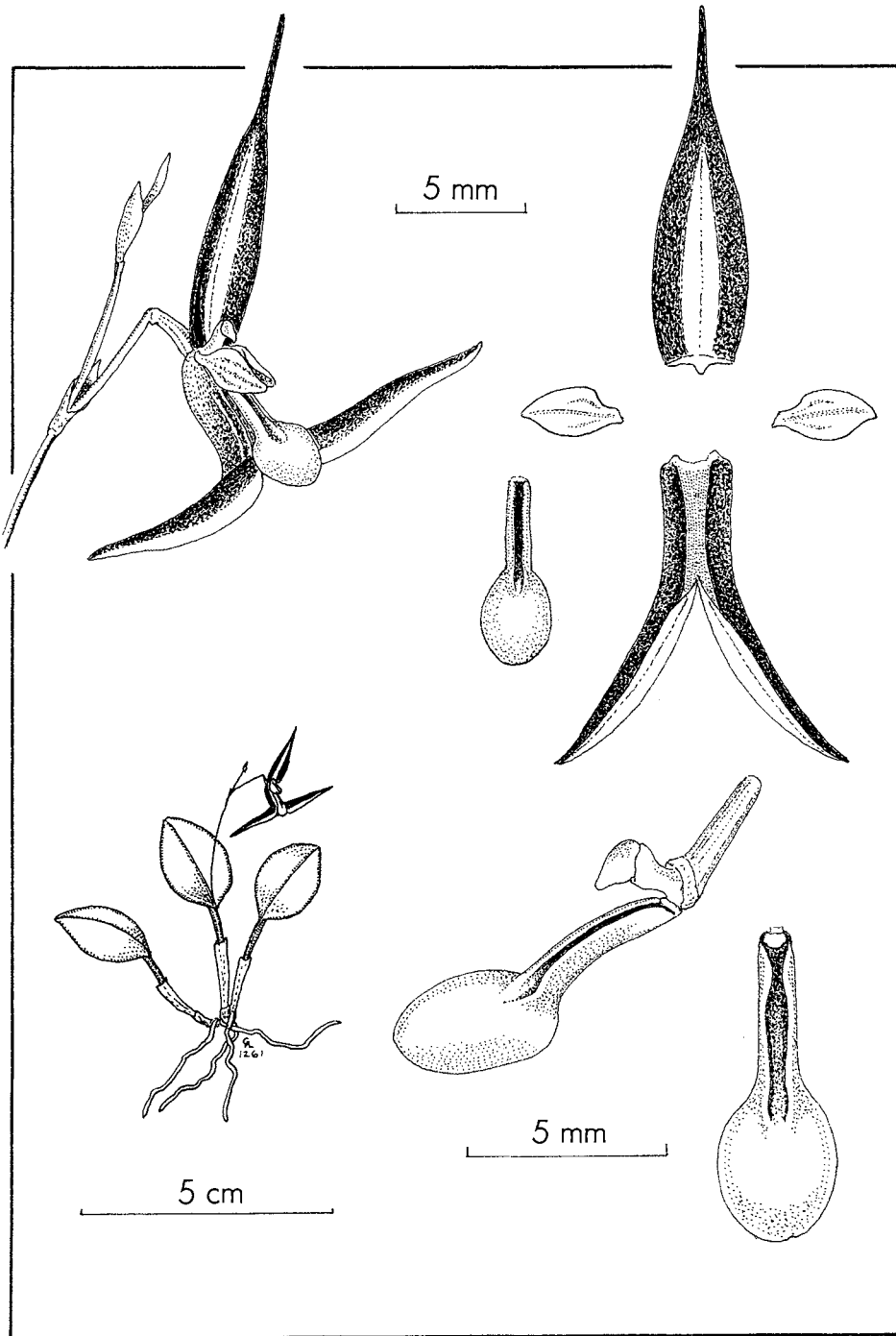


FIGURE 23. *Pleurothallis mystax* Luer subgenus *Mystax*.

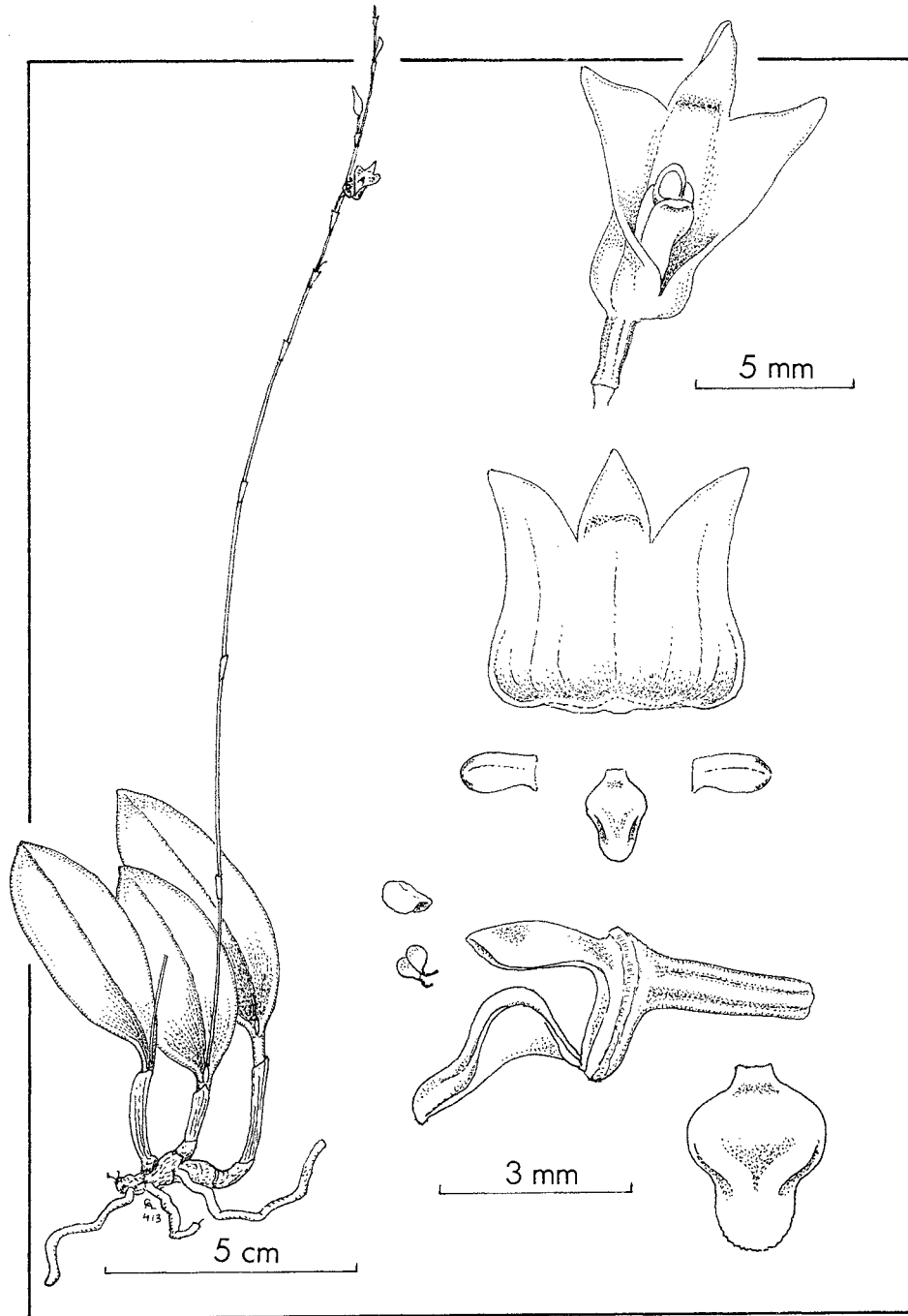


FIGURE 24. *Pleurothallis neoharlingii* Luer subgenus *Physothallis*.

Bas.: *Lepanthes pellifeloidis* Barb.Rodr., Rev. de Engenh. 3: 110, 1881.
 Syn.: *Stelis pellifeloidis* (Barb.Rodr.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.

Pleurothallis pellucida Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 42, 1998.
 Syn.: *Stelis pellucida* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.

- Pleurothallis pennelliana** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 42, 1998.
Syn.: *Stelis pennelliana* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis perennis** Luer, Lindleyana 11: 86, 1966.
Syn.: *Stelis perennis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis petiolaris** Luer, Orquideología 20: 220, 1996.
Syn.: *Stelis petiolaris* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001, nom. illeg., non *Stelis petiolaris* Schltr., 1924,
Syn.: *Stelis lehmannii* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.
- Pleurothallis pilifera** Lindl., Folia Orch. Pleuroth. 9, 1859.
Syn.: *Stelis pilifera* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis pilostoma** Luer, Lindleyana 11: 89, 1996.
Syn.: *Stelis pilostoma* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis piraquarensis** Hoehne, Arquiv. Bot. Estad. S. Paulo n.s., form. maior, 2: 123, 1952.
Syn.: *Stelis piraquarensis* (Hoehne) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis pompalis** Ames, Sched. Orch. 7: 23, 1924
Syn.: *Stelis pompalis* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis popayanensis** Lehm. & Kraenzl., Bot. Jahrb. Syst. 26: 438, 1899.
Syn.: *Stelis popayanensis* (Lehm. & Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001, nom. illeg., non *Stelis popayanensis* Lehm. & Kraenzl., 1899.
Syn.: *Stelis globosa* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.
- Pleurothallis powellii** Schltr., Repert. Spec. Nov. Regni Veg. Beih. 17: 22, 1922.
Syn.: *Stelis powellii* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001, nom. illeg., non *Stelis powellii* Schltr., 1922.
Syn.: *Stelis gigantea* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.
- Pleurothallis praealta** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 45, 1998.
Syn.: *Stelis praealta* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis prolificans* Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 45, 1998.
Syn.: *Stelis prolificans* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis prolifica** Luer & Hirtz, Lindleyana 11: 179, 1996.
Syn.: *Stelis prolifica* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001.
- Pleurothallis pseudochila** Luer & R.Escobar, Orquideología 16: 173, 1984.
Syn.: *Stelis pseudochila* (Luer & R.Escobar) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis psilantha** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 72: 95, 1998.
Syn.: *Stelis psilantha* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis racemiflora** Lindl. ex Lodd., Exotic Flora 2: t. 123, 1825, nom. illeg.
Syn.: *Stelis racemiflora* (Lindl. ex Lodd) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis ramonensis** Schltr. Repert. Spec. Nov. Regni Veg. Beih. 19: 193, 1923.
Syn.: *Stelis ramonensis* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001, nom. illeg., non *Stelis ramonensis* Schltr., 1923.
Syn.: *Stelis alajuelensis* Pridgeon & M.W.Chase, Lindleyana 17: 98, 2002.
- Pleurothallis restrepioides** Lindl., Comp. Bot. Mag. 2: 356, 1836.
Syn.: *Stelis restrepioides* (Lindl.) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis resupinata** Ames, Orch. 2: 272, 1908.
Syn.: *Stelis resupinata* (Ames) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis retusa** (Llave & Lex.) Lindl., Bot. Reg. 28: Misc. 81, 1842.
Bas.: *Dendrobium retusum* Llave & Lex., Nov. Veg. Descrip. 2: 40, 1825.
Syn.: *Stelis retusa* (Llave & Lex.) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis retusiloba** C.Schweinf., Bot. Mus. Leaf. 15: 100, 1951.
Syn.: *Stelis retusiloba* (C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis rhodotantha** Rchb.f., Linnaea 22: 825, 1849.
Syn.: *Stelis rhodotantha* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.
- Pleurothallis rictoria** Rchb.f., Linnaea 41: 14, 1877.
Syn.: *Stelis rictoria* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 266, 2001.

- Pleurothallis rostriflora** Rchb.f. *Linnaea* 22: 827, 1849.
Syn.: *Stelis rostriflora* (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis salpingantha** Luer & Hirtz, *Monogr. Syst. Bot. Missouri Bot. Gard.* 65: 50, 1998.
Syn.: *Stelis salpingantha* (Luer & Hirtz) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis sarcopetala** (Barb.Rodr.) Cogn., *Fl. Bras.* 3(4): 516, 1896.
Bas.: *Lepanthes sarcopetala* Barb.Rodr., *Gen. Sp. Orch. Nov.* 2: 46, 1896.
Syn.: *Stelis sarcopetala* (Barb.Rodr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis scabrata** Lindl. *Folia Orch. Pleuroth* 30, 1859. FIGURE 25
Syn.: *Stelis scabrata* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis scansor** Luer, *Phytologia* 49: 216, 1981.
Syn.: *Stelis scansor* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001., *Lindleyana* 16: 266, 2001., nom. illeg., non *Stelis scansor* Rchb.f., 1855.
Syn.: *Stelis reptans* Pridgeon & M.W.Chase, *Lindleyana* 17: 100, 2002.
- Pleurothallis segoviensis** Rchb.f., *Bonplandia* 3: 223, 1855. FIGURE 26
Syn.: *Stelis segoviensis* (Rchb.f.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis serrulata** (Barb.Rodr.) Luer, *Selbyana* 5: 388, 1981
Bas.: *Physosiphon serrulata* Barb.Rodr., *Gen. Sp. Orch. Nov.* 2: 78, 1882.
Syn.: *Stelis serrulata* (Barb.Rodr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis simplex** Ames & C.Schweinf., *Sched. Orch.* 10: 37, 1930.
Syn.: *Stelis simplex* (Ames & C.Schweinf.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis simplicilabia** C.Schweinf., *Rev. Acad. Colomb.* 5: 350, 1943.
Syn.: *Stelis simplicilabia* (C.Schweinf.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis siphonantha** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 65: 52, 1998.
Syn.: *Stelis siphonantha* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis spathosa** Luer & R.Escobar, *Orquideología* 20: 86, 1986.
Syn.: *Stelis spathosa* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis stelidiopsis** Luer, *Phytologia* 49: 128, 1981.
Syn.: *Stelis stelidiopsis* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 266, 2001.
- Pleurothallis susanensis** Hoehne, *Arquiv. Bot. Estad. S. Paulo* 1: 11, 1938.
Syn.: *Stelis susanensis* (Hoehne) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis tabacina** (Barb.Rodr.) Cogn., *Fl. Bras.* 3(4): 517, 1896.
Bas.: *Lepanthes tabacina* Barb.Rodr., *Gen. Sp. Orch. Nov.* 2: 47, 1882.
Syn.: *Stelis tabacina* (Barb.Rodr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis tarantula** Luer & R.Escobar, *Lindleyana* 11: 186, 1996.
Syn.: *Stelis tarantula* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis taxis** Luer, *Selbyana* 5: 184, 1979.
Syn.: *Stelis taxis* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis thomasiae** Luer, *Monogr. Syst. Bot. Missouri Bot. Gard.* 79: 84, 2000, as *thomasii*.
Syn.: *Stelis thomasii* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis thymochila** Luer, *Selbyana* 3: 398, 1977.
Syn.: *Stelis thymochila* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis tintinnabula** Luer, *Lindleyana* 11: 94, 1996.
Syn.: *Stelis tintinnabula* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis tortillis** Luer & R.Escobar, *Orquideología* 14: 180, 1981.
Syn.: *Stelis tortillis* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis trichostoma** Luer, *Selbyana* 5: 185, 1979.
Syn.: *Stelis trichostoma* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.
- Pleurothallis tricolor** (Barb.Rodr.) Cogn., *Fl. Bras.* 3(4): 493, 1896.
Bas.: *Lepanthes tricolor* Barb.Rodr., *Gen. Sp. Orch. Nov.* 2: 52, 1882.
Syn.: *Stelis tricolor* (Barb.Rodr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.

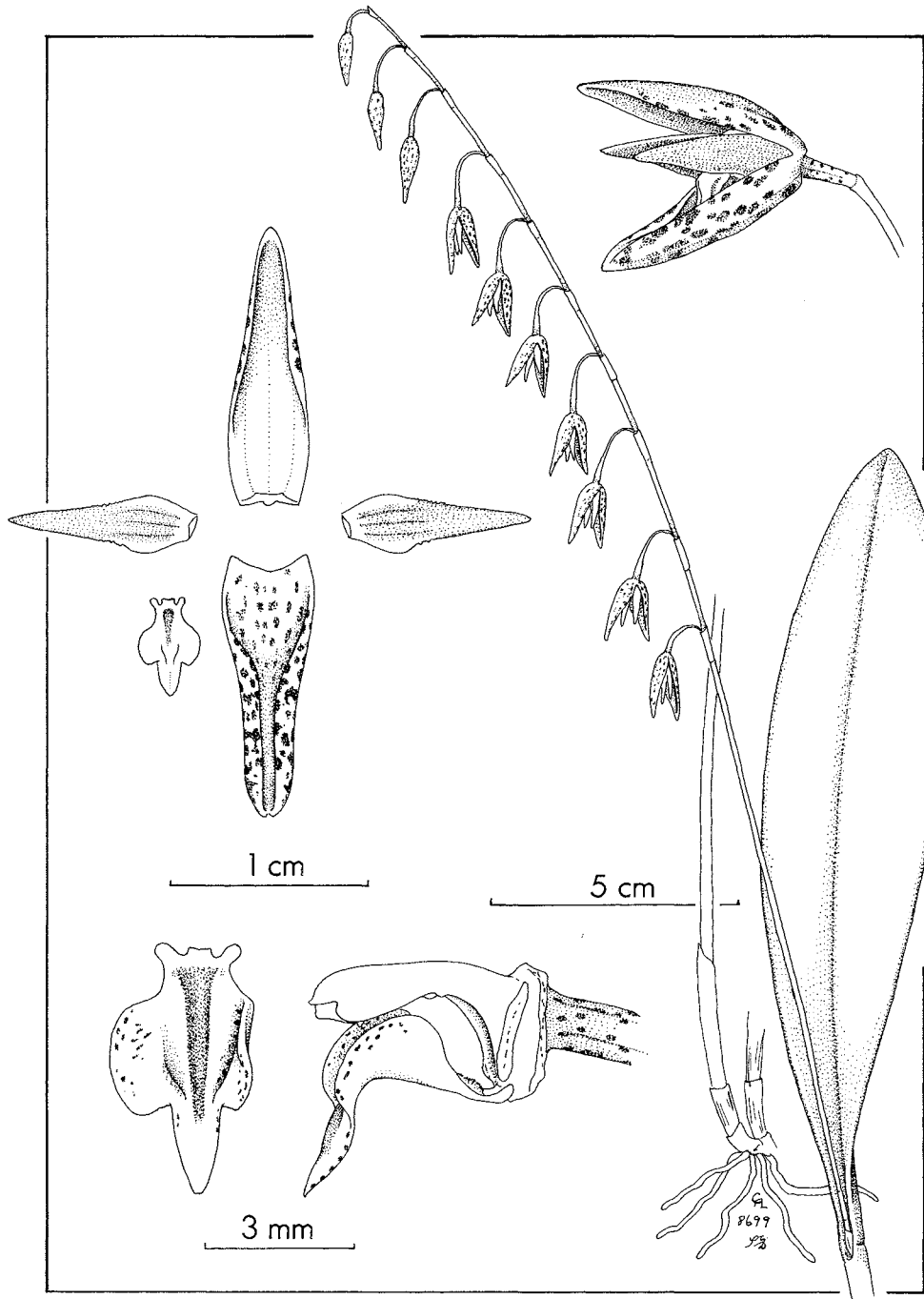


FIGURE 25. *Pleurothallis scabrata* Lindl. subgenus *Effusia*.

Pleurothallis trimeropetala Pabst, *Arquiv. Jard. Bot. Rio de Janeiro* 14: 20, 1956.
Syn.: *Stelis trimeropetala* (Pabst) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.

Pleurothallis trulla Rchb.f. & Warsz., *Bonplandia* 2: 114, 1854.
Syn.: *Stelis trulla* (Rchb.f. & Warsz.) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.

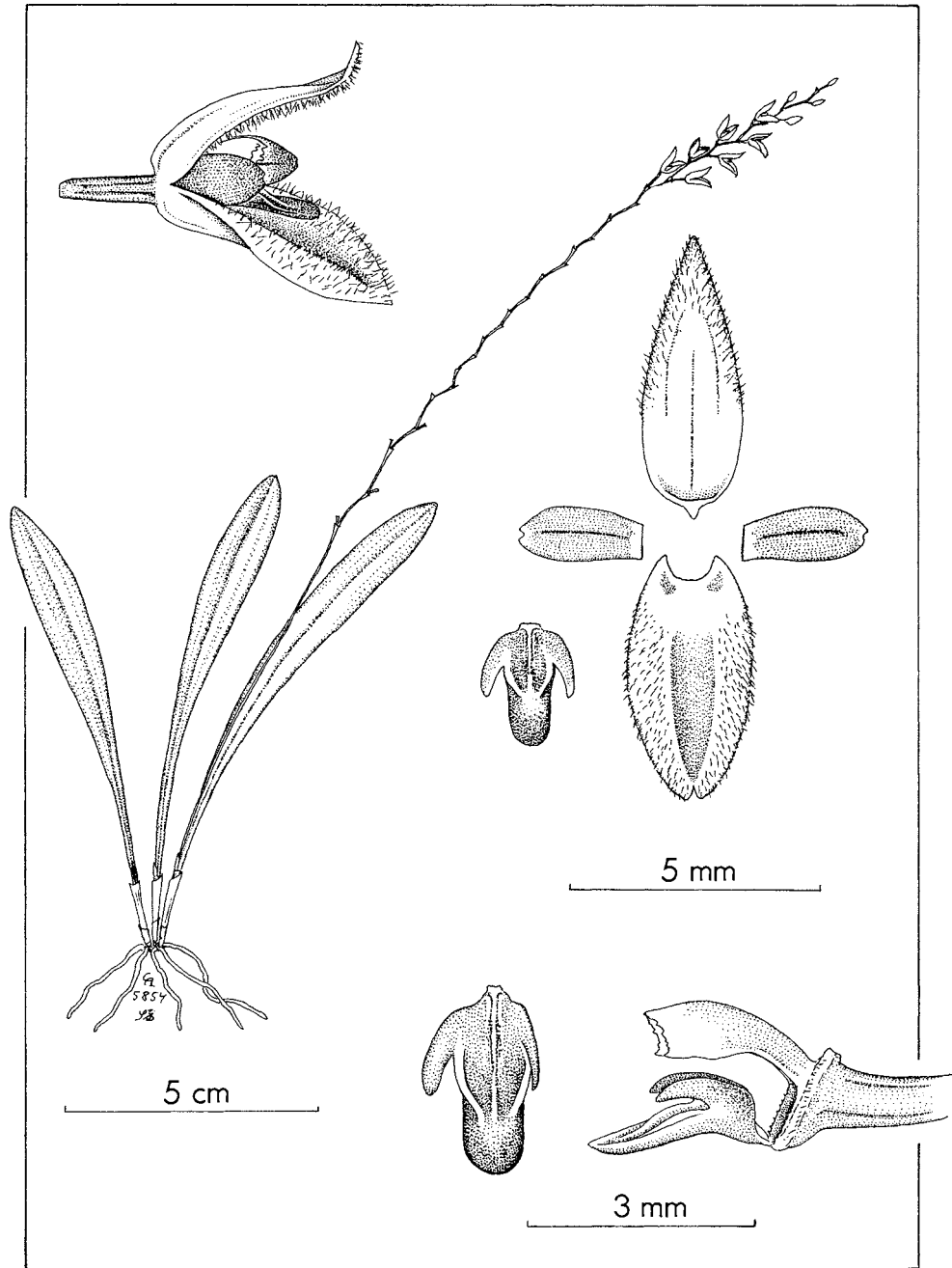


FIGURE 26. *Pleurothallis segoviensis* Rehb.f. subgenus *Unciferia*.

Pleurothallis tuerckheimii Schltr., Repert. Spec. Nov. Regni Veg. 10: 292, 1912.

FIGURE 27

Syn.: *Stelis tuerckheimii* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001, nom. illeg., non *S. tuerckheimii* Schltr., 1910.

Syn.: *Stelis megachlamys* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.

Pleurothallis tunguraguae Lehm. & Kraenz., Bot. Jahrb. Syst. 26: 439, 1899.

Syn.: *Stelis tunguraguae* (Lehm. & Kraenz.)

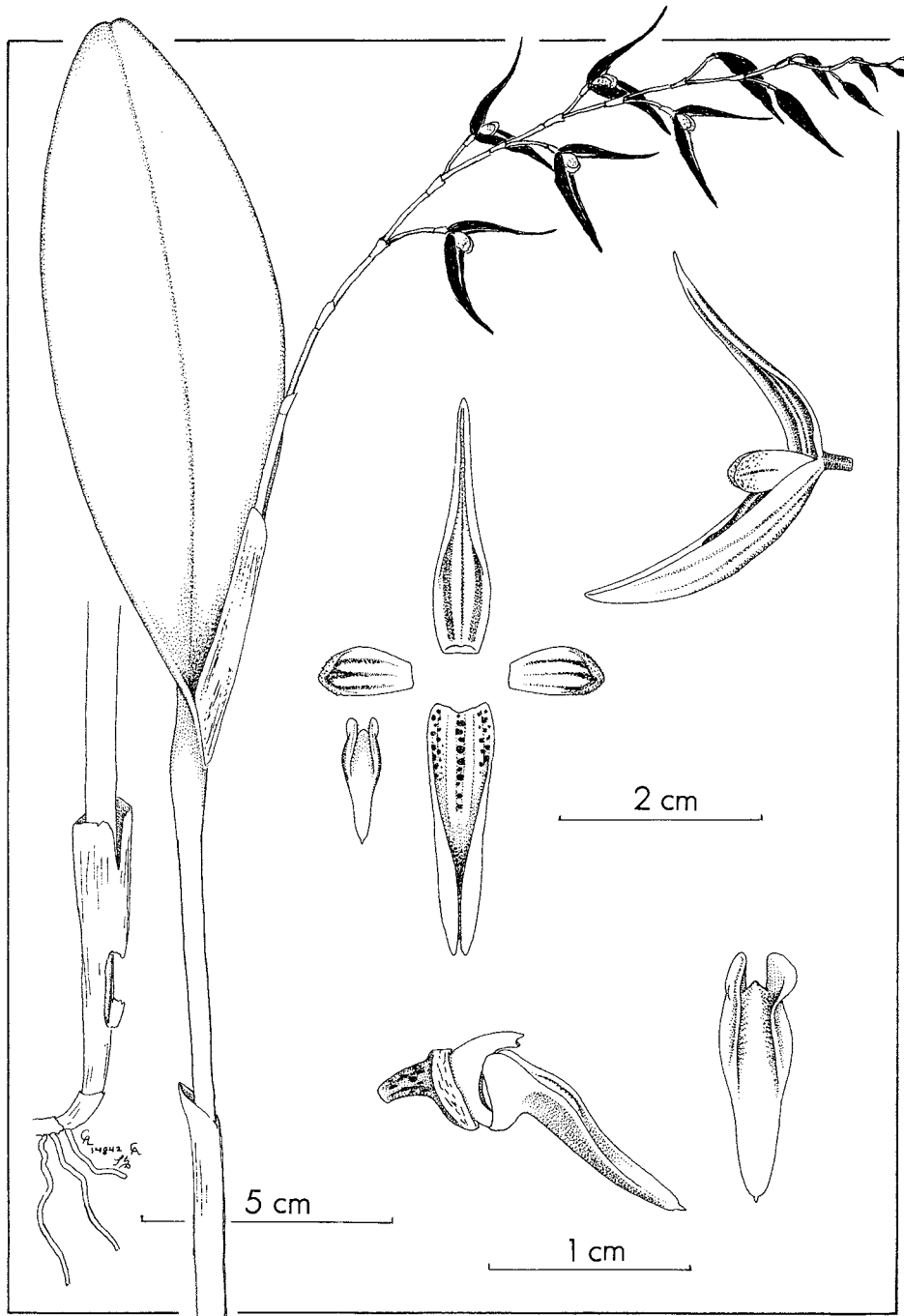


FIGURE 27. *Pleurothallis tuerckheimii* Schltr. subgenus *Dracontia*.

Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.

Syn.: *Stelis vaginata* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 267, 2001.

Pleurothallis vaginata Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 179, 1923.

Pleurothallis vargasii C.Schweinf., *Bot. Mus. Leafl.* 10: 192, 1942.

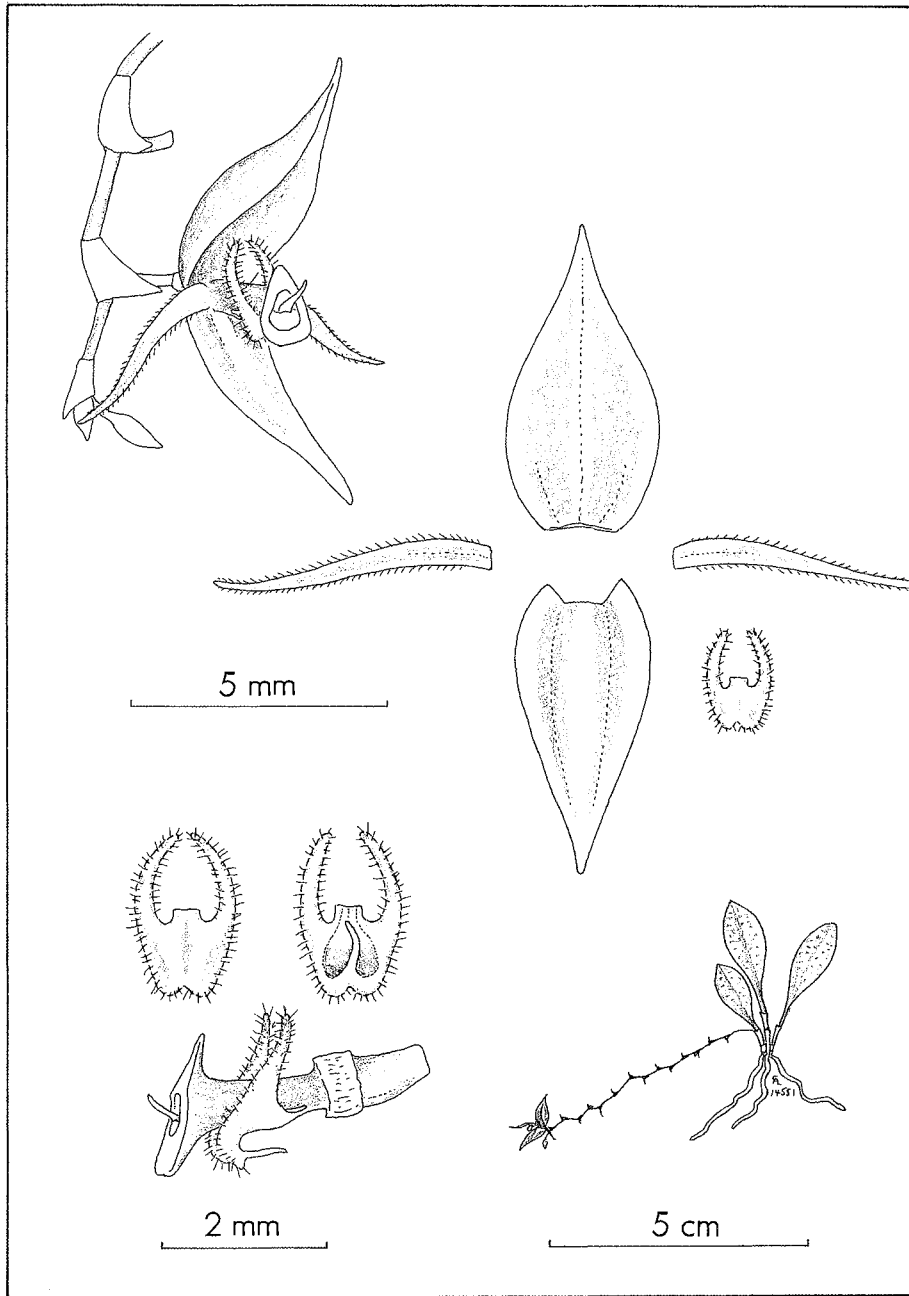


FIGURE 28. *Salpistele brunnea* Dressler.

Syn.: *Stelis vargasii* (C.Schweinf.) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001.

Pleurothallis vegrandis Luer & Dodson, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 56, 1998.

Syn.: *Stelis vegrandis* (Luer & Dodson) Prid-

geon & M.W.Chase, Lindleyana 16: 267, 2001.

Pleurothallis velaticaulis Rchb.f., Linnaea 22: 824, 1849.

Syn.: *Stelis velaticaulis* (Rchb.f.) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001.

- Pleurothallis verbiformis** Luer, Selbyana 2: 389, 1978.
Syn.: *Stelis verbiformis* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001.
- Pleurothallis villosa** Knowles & Westc., Fl. Cab. 2: 78, 1838,
Syn.: *Stelis villosa* (Knowles & Westc.) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001.
- Pleurothallis virgata** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 59, 1998.
Syn.: *Stelis virgata* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001.
- Pleurothallis wagneri** Schltr., Repert. Spec. Nov. Regni Veg. 17: 141, 1921.
Syn.: *Stelis wagneri* (Schltr.) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001.
- Pleurothallis weddelliana** Rchb.f. ex Kraenzl., Xenia Orch. 3: 24, 1878.
Syn.: *Stelis weddelliana* (Rchb.f. ex Kraenzl.) Pridgeon & M.W.Chase, Lindleyana 16: 267, 2001.
- Pleurothallis xiphizusa** Rchb.f. & Warsz., Ann. Bot. Syst. 6: 172, 1861.
Syn.: *Stelis xiphizusa* (Rchb.f. & Warsz.) Pridgeon & M.W.Chase, Lindleyana 16: 268, 2001.
Syn.: *Stelis xiphizusa* Pridgeon & M.W.Chase, Lindleyana 17: 100, 2002, redundant name.
- Pleurothallis zunagensis** Luer & Hirtz, Monogr. Syst. Bot. Missouri Bot. Gard. 65: 61, 1998.
Syn.: *Stelis zunagensis* (Luer & Hirtz) Pridgeon & M.W.Chase, Lindleyana 16: 268, 2001.
- Salpistele brunnea** Dressler, Orquideología 14: 6, 1979. FIGURE 28
Syn.: *Stelis brunnea* (Dressler) Pridgeon & M.W.Chase, Lindleyana 16: 261, 2001.
- Salpistele dressleri** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 39: 128, 1991.
Syn.: *Stelis dressleri* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 262, 2001, nom. illeg., non *Stelis dressleri* Luer, 1881.
Syn.: *Stelis cymbisepala* Pridgeon & M.W.Chase, Lindleyana 17: 98, 2002.
- Salpistele lutea** Dressler, Orquideología 14: 8, 1979.
Syn.: *Stelis lutea* (Dressler) Pridgeon & M.W.Chase, Lindleyana 16: 264, 2001, nom. illeg., non *Stelis lutea* Lindl., 1858.
Syn.: *Stelis maculata* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.
- Salpistele parvula** Luer & Dressler, Monogr. Syst. Bot. Missouri Bot. Gard. 39: 132, 1991.
Syn.: *Stelis parvula* (Luer & Dressler) Pridgeon & M.W.Chase, Lindleyana 16: 265, 2001, nom. illeg., non *Stelis parvula* Lindl., 1858.
Syn.: *Stelis gnoma* Pridgeon & M.W.Chase, Lindleyana 17: 99, 2002.
- Trichosalpinx hamiltonii** Luer, Monogr. Syst. Bot. Missouri Bot. Gard. 64: 61, 1997.
Syn.: *Stelis hamiltonii* (Luer) Pridgeon & M.W.Chase, Lindleyana 16: 263, 2001.

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