

## NOMENCLATRURAL NOTES ON PLEUROTHALLIDINAE (ORCHIDACEAE)<sup>1</sup>

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**ABSTRACT:** Some new combinations in *Stelis* (Orchidaceae) proposed by Pridgeon and Chase (2001) require emendation or synonymization. The generic epithet *Echinella* proved to be a later homonym of both an alga and a fungus, and so the new name *Echinosepala* Pridgeon & M.W.Chase is here proposed to accommodate species previously assigned to *Echinella* Pridgeon & M.W.Chase.

AMONG the hundreds of new combinations proposed by Pridgeon and Chase (2001) for Pleurothallidinae following separate and combined phylogenetic analyses of nuclear and plastid DNA sequences (Pridgeon, Solano and Chase, 2001), 26 new combinations in *Stelis* proved to be later homonyms (The Plant Names Project, 1999). They therefore require synonymization under new binomials proposed below according to the *International Code of Botanical Nomenclature* (Greuter, 2000).

***Stelis alajuelensis* Pridgeon & M.W.Chase, *nom. nov.***

Basionym: *Pleurothallis ramonensis* Schltr., *Repert. Spec. Nov. Regni Veg., Beih.* 19: 193 (1923).

Synonym: *Stelis ramonensis* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 266 (2001), *non* Schltr., *Repert. Sp. Nov. Regni Veg.* 19: 176 (1923).

***Stelis alta* Pridgeon & M.W.Chase, *nom. nov.***

Basionym: *Pleurothallis grandis* Rolfe, *Kew Bull.* 1918: 234 (1918).

Synonym: *Stelis grandis* (Rolfe) Pridgeon & M.W.Chase, *Lindleyana* 16: 263 (2001), *non* Rchb.f., *Bonplandia* 3: 70 (1855).

***Stelis amoena* Pridgeon & M.W.Chase, *nom. nov.***

Basionym: *Lepanthes parahybenensis* Barb.Rodr., *Gen. Sp. Orch. Pl.* 2: 57 (1882).

Synonym: *Stelis parahybenensis* (Barb.Rodr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 265 (2001), *non* Barb. Rodr., *Orch. Nov. Gen.* 2: 84 (1886).

***Stelis antillensis* Pridgeon & M.W.Chase, *nom. nov.***

Basionym: *Pleurothallis domingensis* Cogn. in Urb., *Symb. Antill.* 6: 402 (1909).

Synonym: *Stelis domingensis* (Cogn.) Pridgeon & M.W.Chase, *Lindleyana* 16: 262 (2001), *non* Cogn. in Urb., *Symb. Ant.* 6: 692 (1919).

***Stelis chasme* Pridgeon & M.W.Chase, *nom. nov.***

Basionym: *Pleurothallis hians* Lindl., *Bot. Reg.* 21: sub t. 1797 (1836).

Synonym: *Stelis hians* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 263 (2001), *non* Schltr., *Repert. Sp. Nov. Regni Veg.* 14: 121 (1915).

***Stelis cylindrata* Pridgeon & M.W.Chase, *nom. nov.***

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

Synonym: *Stelis macrantha* (L.O.Williams) Pridgeon & M.W.Chase, *Lindleyana* 16: 264 (2001), *non* Rolfe, *Bull. N. Y. Bot. Gard.* 4: 450 (1907).

***Stelis cymbisepala* Pridgeon & M.W.Chase, *nom. nov.***

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Basionym: *Salpistele dressleri* Luer, *Ic. Pleurothallid.* 8: 128 (1991).

Synonym: *Stelis dressleri* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 262 (2001), *non* Luer, *Phytologia* 49: 227 (1981).

**Stelis dapsilis** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis maxima* Luer, *Selbyana* 3: 140 (1976).

Synonym: *Stelis maxima* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 264 (2001), *non* Lindl., *Ann. Mag. Nat. Hist. Ser. 1*, 15: 106 (1845).

**Stelis decurrens** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis croatii* Luer, *Ic. Pleurothallid.* 16: 18 (1998).

Synonym: *Stelis croatii* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 262 (2001), *non* Luer, *Lindleyana* 11: 97 (1996).

**Stelis ferrelliae** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis ingramii* Luer, *Lindleyana* 11: 81 (1996).

Synonym: *Stelis ingramii* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 263 (2001), *non* Luer, *Lindleyana* 11: 100 (1996).

**Stelis gargantua** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis gigas* Luer & R.Escobar, *Orquideología* 20: 52 (1996).

Synonym: *Stelis gigas* (Luer & R.Escobar) Pridgeon & M.W.Chase, *Lindleyana* 16: 263 (2001), *non* Barb. Rodr., *Orch. Nov. Gen.* 2: 89 (1886).

**Stelis gigantea** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis powellii* Schltr., *Repert. Spec. Nov. Regni Veg., Beih.* 17: 22 (1922).

Synonym: *Stelis powellii* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 265 (2001), *non* Schltr., *Repert. Sp. Nov. Regni Veg. Beih.* 17: 16 (1922).

**Stelis globosa** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis popayanensis* Lehm.

& Kränzl. in Engl., *Bot. Jahrb.Syst.* 26: 438 (1899).

Synonym: *Stelis popayanensis* (Lehm. & Kränzl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 265 (2001), *non* Lehm. & Kränzl., *Bot. Jahrb. Syst.* 26: 448 (1899).

**Stelis gnoma** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Salpistele parvula* Luer & Dressler, *Ic. Pleurothallid.* 8: 132 (1991).

Synonym: *Stelis parvula* (Luer & Dressler) Pridgeon & M.W.Chase, *Lindleyana* 16: 265 (2001), *non* Lindl., *Fol. Orch. Stelis*, 7 (1859).

**Stelis graciliscapa** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Lepanthes viridula* Barb.Rodr., *Gen. Sp. Orch. Nov.* 2: 51 (1882).

Synonym: *Stelis viridula* (Barb.Rodr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 267 (2001), *non* Luer, *Phytologia* 49: 240 (1981).

**Stelis kefersteiniana** (Rchb.f.) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Specklinia flexuosa* Poepp. & Endl., *Nov. Gen. Sp.* 1: 52 (1836).

Synonyms: *Stelis flexuosa* (Poepp. & Endl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 263 (2001).

*Pleurothallis kefersteiniana* Rchb.f., *Bot. Zeitung (Berlin)* 10: 673 (1852).

**Stelis lehmannii** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis petiolaris* Luer, *Orquideología* 20: 220 (1996).

Synonym: *Stelis petiolaris* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 265 (2001).

**Stelis maculata** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Salpistele lutea* Dressler, *Orquideología* 14: 8 (1979).

Synonym: *Stelis lutea* (Dressler) Pridgeon & M.W.Chase, *Lindleyana* 16: 264 (2001), *non* Lindl., *Fol. Orch. Stelis* 7 (1885).

**Stelis megachlamys** (Schltr.) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis tuerckheimii* Schltr., *Repert. Spec. Nov. Regni Veg.* 10: 292 (1912).

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

*Pleurothallis megachlamys* Schltr., *Repert. Spec. Nov. Regni Veg.* 19: 108 (1923).

**Stelis multirostris** (Rchb.f.) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis oblongifolia* Lindl. in Hook., *Comp. Bot. Mag.* 2: 355 (1836).

Synonyms: *Stelis oblongifolia* (Lindl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 265 (2001).

*Pleurothallis multirostris* Rchb.f., *Linnaea* 41: 49 (1877).

**Stelis picta** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Dendrobium elegans* Kunth, *Nov. Gen. Sp.* 1: 358 (1816).

Synonyms: *Pleurothallis elegans* (Kunth) Lindl., *Bot. Reg.* 28: Misc. 70 (1842). *Stelis elegans* (Kunth) Pridgeon & M.W.Chase, *Lindleyana* 16: 262 (2001), *non* Luer & Vasquez, *Phytologia* 49: 228 (1981).

**Stelis pilosa** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis amparoana* Schltr., *Repert. Spec. Nov. Regni Veg. Beih.* 19: 23 (1923).

Synonym: *Stelis amparoana* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 261 (2001), *non* Schltr., *Repert. Sp. Nov. Regni Veg. Beih.* 19: 16 (1923).

**Stelis pumila** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis microtis* Schltr., *Repert. Spec. Nov. Regni Veg., Beih.* 35: 56 (1925).

Synonym: *Stelis microtis* (Schltr.) Pridgeon & M.W.Chase, *Lindleyana* 16: 264 (2001), *non* Rchb.f., *Beitr. Orch. Centr. Am.* 95: t. 8 (1866).

**Stelis reptans** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis scansor* Luer, *Phytologia* 49: 216 (1981).

Synonym: *Stelis scansor* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 266 (2001), *non* Rchb.f., *Bonplandia* 3: 241 (1855).

**Stelis uncinata** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis karenae* Luer, *Lindleyana* 11: 83 (1996).

Synonym: *Stelis karenae* (Luer) Pridgeon & M.W.Chase, *Lindleyana* 16: 264 (2001), *non* Luer, *Lindleyana* 11: 100 (1996).

**Stelis vulgaris** Pridgeon & M.W.Chase, **nom. nov.**

Basionym: *Pleurothallis floribunda* Poepp. & Endl., *Nov. Gen. Sp.* 1: 48 (1836).

Synonym: *Stelis floribunda* (Poepp. & Endl.) Pridgeon & M.W.Chase, *Lindleyana* 16: 263 (2001), *non* Kunth, *Nov. Gen. Sp.* 1: 362 (1816).

Emendations of the basionym for *Anathallis paranaensis* (Schltr.) Pridgeon & M.W.Chase and *Stelis xiphizusa* (Rchb.f. & Warsz.) Pridgeon & M.W.Chase are necessary for valid publication and are here provided.

The taxon *Pleurothallis racemiflora* Lindl. ex Lodd. was accidentally reassigned to both *Anathallis* and *Stelis*. The former is the correct name, and so we place *Stelis racemiflora* Pridgeon & M.W.Chase in synonymy here.

**Anathallis racemiflora** (Lindl. ex Lodd) Pridgeon & M.W.Chase, *Lindleyana* 16: 250 (2001)

Basionym: *Pleurothallis racemiflora* Lindl. ex Lodd. in Hook., *Exot. Fl.* 2: t. 123. 1824.

Synonym: *Stelis racemiflora* Pridgeon & M.W.Chase, *Lindleyana* 16: 266 (2001).

**Anathallis paranaensis** (Schltr.) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis paranaensis* Schltr., *Notizbl. Bot. Gart. Berlin* 7: 274 (1918).

**Stelis xiphizusa** (Rchb.f.) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis xiphizusa* Rchb.f., *Ann. Syst. Bot.* 7: 172 (1861).

According to *Index Nominum Genericorum* (published on the Internet as <http://rathbun.si.edu/botany/ing>), the generic epithet *Echinella* has already been applied to a green alga (Desmidiaceae) and a fungus (Helotiaceae). *Echinella* Pridgeon & M.W.Chase is therefore a later homonym and illegitimate. Specific epithets previously assigned to *Echinella* Pridgeon & M.W.Chase are transferred below to the new generic epithet *Echinosepala* Pridgeon & M.W.Chase.

**Echinosepala** Pridgeon & M.W.Chase, **gen. nov.** a *Myoxantho* Poepp. & Endl. inflorescentia uniflora differt. TYPE: *Pleurothallis aspicensis* Rchb.f., *Bonplandia* 3: 73 (1855). [*Echinosepala aspicensis* (Rchb.f.) Pridgeon & M.W.Chase]

*Myoxanthus* Poepp. & Endl. subgen. *Satyria* Luer, *Ic. Pleurothallid.* 9: 5 (1992).

*Myoxanthus* Poepp. & Endl. subgen. *Silenia* Luer, *Ic. Pleurothallid.* 9: 5 (1992).

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

ETYMOLOGY: From the Latin *echinus*, hedgehog, and *sepalum*, sepal, with reference to the densely pubescent sepals of most species.

***Echinosepala aspasicensis*** (Rchb.f.) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis aspasicensis* Rchb.f., *Bonplandia* 3: 73 (1855).

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

***Echinosepala balaeniceps*** (Luer & Dressler) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis balaeniceps* Luer & Dressler, *Orquideología* 16: 47 (1986).

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

***Echinosepala lappiformis*** (Heller & L.O.Williams) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis lappiformis* Heller & L.O.Williams, *Fieldiana (Bot.)* 31: 42 (1964).

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

***Echinosepala pan*** (Luer) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis pan* Luer, *Selbyana* 3: 360 (1976).

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

***Echinosepala sempergemmata*** (Luer) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis sempergemmata* Luer, *Selbyana* 3: 386 (1976).

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

***Echinosepala stonei*** (Luer) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis stonei* Luer, *Phytologia* 44: 171 (1979).

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

***Echinosepala tomentosa*** (Luer) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis tomentosa* Luer, *Ic. Pleurothallid.* 18: 177 (1999).

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

***Echinosepala uncinata*** (Fawc.) Pridgeon & M.W.Chase, **comb. nov.**

Basionym: *Pleurothallis uncinata* Fawc., *J. Bot.* 33: 12 (1895).

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

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