



Nine new species and one new name in *Maxillaria* (Orchidaceae)

DAVID E. BENNETT JR.^{1†} & ERIC A. CHRISTENSON²

¹Francisco Tudela Varela 229, Miraflores, Lima 18, Peru

²4503 21st Ave. West, Bradenton, Florida 34209, USA; E-mail: orchideric@juno.com

[†]David Bennett passed away on 5 August 2009

Abstract

Nine new species of *Maxillaria* from Peru are described and illustrated, one based on a previously published variety: *M. canarina*, *M. coniformis*, *M. deniseae*, *M. dichaeoides*, *M. flabellata*, *M. hajekii*, *M. leucopurpurea*, *M. striolata*, and *M. visseri*. In addition, the new name *M. calendulina* is proposed for the Colombian *M. aurantiaca* Schlechter (1924: 87).

Key words: Orchidaceae, *Maxillaria*, Colombia, Peru, new taxa, biodiversity

Introduction

This article continues the modern inventory of Peruvian Orchidaceae (Bennett & Christenson 1993, 1994a, 1994b, 1995a, 1995b, 1997, 1998a, 1998b, 1998c, 2001) as well as materials in preparation of a monograph of *Maxillaria* Ruiz & Pavón (1794: t. 25) by one of the current authors (E.A.Christenson). We retain a traditional sense of *Maxillaria* at this time, feeling it is premature to establish segregate genera given the present turmoil in the genus at the species-level. Proliferation of names serves little purpose at our current understanding of the genus and actually hampers both monographic and floristic studies vital to wider conservation efforts.

Taxonomy

Maxillaria calendulina Christenson, *nom. nov.*

Maxillaria aurantiaca Schlechter (1924: 87), *nom. illeg.*; *Camaridium aurantiacum* Blanco (2007: 519). Type: COLOMBIA: west of Barbacoas, 750 m, July 1921, *W. Hopp* 93 (holotype: B, destroyed).

Note: The name *Maxillaria aurantiaca* Schlechter (1924: 87) is preempted in *Maxillaria* by:

Maxillaria aurantiaca (Lindley) Reichenbach (1863: 511), *nom. illeg.*; *Bifrenaria aurantiaca* Lindley (1863: t. 1875);

Lindleyella aurantiaca (Lindley) Schlechter (1914: 414); *Schlechterella aurantiaca* (Lindley) Hoehne (1944: 13).

Type: GUYANA: Demerara, *Hort. Duke of Devonshire s.n.* (holotype: K) = *Rudolfiella aurantiaca* (Lindley) Hoehne (1949: 220).

Maxillaria aurantiaca Richard & Galeotti (1845: 25). Type: MEXICO. = *Xylobium aurantiacum* (Richard & Galeotti) Schlechter (1918: 492).

Maxillaria canarina Bennett & Christenson, *sp. nov.* (Fig. 1)

Species haec Maxillaria lueri Dodson (Dodson & Dodson 1980: t. 155) *similis sed sepalis petalisque canarinus, labello ad medium trilobo medilobo bullato differt.*

References

- Ames, O. & Schweinfurth, C. (1925) New or noteworthy species of orchids from the American Tropics. *Schedulae Orchidianae* 8: 1–84.
- Bennett Jr., D.E. & Christenson, E.A. (1993) *Icones Orchidacearum Peruvianarum*, pl. 1–200.
- Bennett Jr., D.E. & Christenson, E.A. (1994a) New species and new combinations in Peruvian Orchidaceae. *Brittonia*, 46, 24–53.
- Bennett Jr., D.E. & Christenson, E.A. (1994b) New species of Peruvian Orchidaceae II. *Brittonia* 46: 228–259.
- Bennett Jr., D.E. & Christenson, E.A. (1995a) New species of Peruvian Orchidaceae III. *Brittonia* 47: 182–209.
- Bennett Jr., D.E. & Christenson, E.A. (1995b) *Icones Orchidacearum Peruvianarum*, pl. 201–400.
- Bennett Jr., D.E. & Christenson, E.A. (1997) New Species of Peruvian Orchidaceae, IV. *Brittonia* 50: 186–191.
- Bennett Jr., D.E. & Christenson, E.A. (1998a) *Icones Orchidacearum Peruvianarum*, pl. 401–600.
- Bennett Jr., D.E. & Christenson, E.A. (1998b) New Species of Peruvian Orchidaceae, V. *Lindleyana* 13: 31–56.
- Bennett Jr., D.E. & Christenson, E.A. (1998c) New species of Peruvian Orchidaceae VI. *Lindleyana* 13: 64–96.
- Bennett Jr., D.E. & Christenson, E.A. (2001) *Icones Orchidacearum Peruvianarum*, pl. 601–800.
- Blanco, M.A., Carnevali, G., Whitten, W.M., Singer, R.B., Koehler, S., Williams, N.H., Ojeda, I., Neubig, K.M. & Endara, L. (2007) Generic Realignments in Maxillariinae (Orchidaceae). *Lankesteriana* 7: 515–537.
- Dodson, C.H. (1994) New orchid species and combinations from Ecuador, 3. *Orquideología* 19: 87.
- Dodson, C.H. (2002) *Native Ecuadorian Orchids, 3: Lepanthopsis–Oliveriana*, Dodson Publishing, 232 pp.
- Dodson, C.H. & Dodson, P.M. (1980) *Icones Plantarum Tropicarum*, ser. 1, pl. 153, 155.
- Garay, L.A. (1967) Studies in American orchids, 6. *Botanical Museum Leaflets* 21: 249–264.
- Hoehne, F.C. (1944) Revisão taxonômica e sistemático do genero *Bifrenaria* Lindl. *Arquivos de Botânica do Estado de São Paulo, n. s., form. maior* 2: 11–14.
- Hoehne, F.C. (1949) *Iconografia de Orchidaceas do Brasil*. São Paulo, t. 300.
- Lindley, J. (1832) *The Genera and Species of Orchidaceous Plants*. Ridgeway, London, 553 pp.
- Lindley, J. (1836) *Bifrenaria aurantiaca*. *Botanical Register* 22, t. 1875.
- Reichenbach, H.G. (1854) Die Wagener'schen Orchideen. *Bonplandia*, 2: 9–26.
- Reichenbach, H.G. (1863) *Maxillaria*. *Annales Botaniques Systematicae* 6: 507–541, 928.
- Richard, A. & Galeotti, H.G. (1845) Orchidographie Mexicaine. *Annales des Sciences Naturelles; Botanique, sér. 3*, 3: 15–33.
- Ruiz, H. & Pavón, J.A. (1794) *Maxillaria. Florae Peruviana et Chilensis prodromus, sive, Novorum generum plantarum Peruvianarum et Chilensium descriptiones, et icones*. Paleariniano, Rome.
- Schlechter, F.R.R. (1914) *Die Orchideen*, ed. 1. Paul Parey, Berlin, 836 pp.
- Schlechter, F.R.R. (1918) Kritische Aufzählung der bisher aus Zentral-Amerika bekanntgewordenen Orchidaceen. *Beihefte zum Botanischen Centralblatt* 36: 321–529.
- Schlechter, F.R.R. (1924) Beiträge zur Orchideenkunde von Colombia: Orchidaceae Hoppianae. *Repertorium Specierum Novarum Regni Vegetabilis, Beihefte* 27: 5–123.
- Schweinfurth, C. (1944) A novelty in typical *Maxillaria* from Peru. *American Orchid Society Bulletin* 13: 22–24.
- Schweinfurth, C. (1945) Some Peruvian maxillarias. *Botanical Museum Leaflets* 11: 261–307.
- Whitten, W.M., Blanco, M., & Williams, N.H. (2006) Recircumscription of *Pityphyllum*. *Orchids* 75: 452–456.