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A new *Campylocentrum* (Vandeae; Epidendroideae; Orchidaceae) from submontane Atlantic Forest of northeastern Brazil

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Abstract

A new species of *Campylocentrum* with reduced stems, small conduplicate leaves and long inflorescences is described from submontane Atlantic forest of Pernambuco state, northeastern Brazil. It is related to *C. hirtellum*, but differs by having a pedicellate ovary and base of the perianth both slightly papillate, smaller sepals, mid-lobe of the lip less than three times longer than the lateral lobes, lip 5-nerved, spur slightly longer than the pedicellate ovary and a glabrous capsule. It is illustrated and its affinities with allied species are also discussed.

Keywords: New species, Epiphytes, Montane Forest, Pernambuco

Introduction

Campylocentrum Bentham (1881: 337) comprises about 70 species (Govaerts 2014). According to Todzia (1980), the Atlantic Forest of Brazil is the endemism centre of the genus with ca. 30 species (Barros *et al.* 2014, Siqueira *et al.* in press, Pessoa *et al.* in press).

Cogniaux (1906) proposed three sections within the genus: *C. sect. Campylocentrum* [originally *C. sect. Eucampylocentrum*, Cogniaux (1906: 504)], species with stems and leaves developed, *C. sect. Dendrophylopsis* Cogniaux (1906: 504), leafless species, and *C. sect. Pseudocampylocentrum* Cogniaux (1906: 504), species with developed stems and reduced leaves.

Campylocentrum hirtellum Cogniaux (1906: 521), *C. hondurensis* Ames (1923: 37) and *C. steyermarkii* Foldats (1968: 316) have reduced stems (≤ 10.0 mm long) and small conduplicate leaves. These plants occasionally loose their leaves in the drying procedure, and they look like leafless plants. This could possibly explain the mistaken placement of *C. hirtellum* by Cogniaux (1906) under *C. sect. Dendrophylopsis*. Subsequently, the species, which actually belongs to *C. sect. Campylocentrum*, was better illustrated by Hoehne (1941). Among the species of the Atlantic Forest only *C. hirtellum* shows the characters mentioned above. It is known from Rio de Janeiro (Brazilian Southeast) and Santa Catarina states (Brazilian South, Barros *et al.* 2014).

During the studies for a taxonomical review of *Campylocentrum*, a new species with reduced stems and long inflorescences was found in submontane forest in Pernambuco state, Brazilian Northeast. It is described and illustrated below, and its affinities with the allied species are also discussed.

Campylocentrum serratulum E. Pessoa & M. Alves, sp. nov. (Fig. 1, 2)

Type:—BRAZIL. Pernambuco: Jaqueira, Reserva Particular do Patrimônio Natural Frei Caneca, Mata do Quengo, 8°43'12"S, 35°50'38"W, 700 m, 30 May 2012, E. Pessoa *et al.* 945 (fl.) (holotype UFP, isotypes K, NY, RB).

C. serratulum is morphologically related to *C. hirtellum*, but differs by having a pedicellate ovary and base of the perianth both slightly papillate, smaller sepals, mid-lobe of the lip less than three times longer than the lateral lobes, lip 5-nerved, spur slightly longer than the pedicellate ovary and a glabrous capsule.

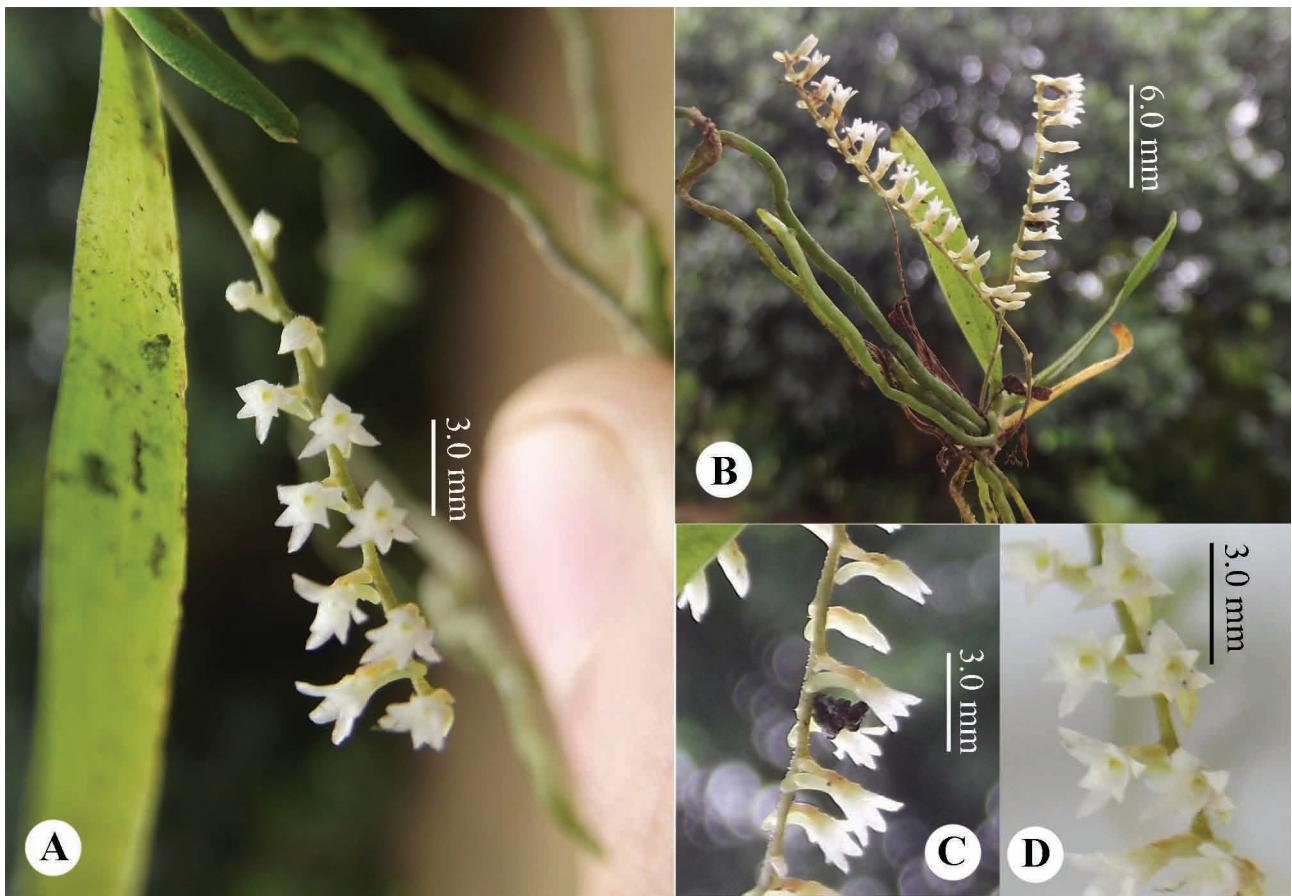


FIGURE 2. *Campylocentrum serratum*. A. Inflorescence. B. Habit. C. Lateral detail of inflorescence. D. Frontal detail of inflorescence. [A–D Pessoa et al. 945 (Holotype)]

References

- Ames, O. (1923) New or noteworthy Orchids from Central America and the Philippine Islands. *Schedulae Orchidiana* 5: 1–42.
- Amorim, B.S. & Alves, M. (2012) A new species of *Eugenia* (Myrteae, Myrtaceae) from the Brazilian Atlantic Forest. *Systematic Botany* 37: 694–698.
<http://dx.doi.org/10.1600/036364412X648661>
- Barros, F., Vinhos, F., Rodrigues, V.T., Barberena, F.F.V.A., Fraga, C.N., Pessoa, E.M., Forster, W. & Menini-Neto, L. (2014) *Orchidaceae*. In: *Lista de Espécies da Flora do Brasil*. Jardim Botânico do Rio de Janeiro, Rio de Janeiro. Available at: <<http://floradobrasil.jbrj.gov.br/jabot/floradobrasil/FB11518>>. Accessed on 8 Jul 2014.
- Bentham, G. (1881) Notes on Orchideae. *Journal of the Linnean Society. Botany* 18: 281–361.
- Cogniaux, C.A. (1906) *Campylocentrum*. In: Martius, C.F.P., Eichler, A.W. & Urban, I. (Eds.) *Flora Brasiliensis* 3(6). Typographia Regia C. Wolf et fil., Munich and Leipzig, pp. 503–524.
- Foldats, E. (1968) Contribución a la Orquidoflora de Venezuela. *Acta Botanica Venezuelica* 3: 305–426.
- Govaerts, R., Pfahl, J., Campacci, M.A., Baptista, D.H., Tigges, H., Shaw, J., Cribb, P., George, A., Kreuz, K. & Wood, J. (2013) *World checklist of Orchidaceae*. The Board of Trustees of the Royal Botanic Gardens, Kew. Available from: <http://apps.kew.org/wcsp/> (accessed 9 August 2012).
- Gregório, B.S., Jacques, E.L., Costa, J.A.S. & Rapini, A. (2014) *Begonia obdeltata* (Begoniaceae), a new species from northeastern Brazil. *Phytotaxa* 167: 189–194.
<http://dx.doi.org/10.11646/phytotaxa.167.2.5>
- Hoehne, F.C. (1941) Quatro Orchidaceas e uma Leguminosa novas para a flora Brasileira. *Arquivos de Botânica do Estado de São Paulo* 1: 61–63.
- Pessoa, E., Barros, F. & Alves, M. (2014a) *Specklinia integrifpetala* and *S. ianthina* spp. nov. (Orchidaceae –Pleurothallidinae) from northeastern Brazil. *Nordic Journal of Botany* 32: 129–132

- <http://dx.doi.org/10.1111/j.1756-1051.2013.00183.x>
- Pessoa, E., Felix, L.P. & Alves, M. (2014b) A new *Epidendrum* (Laeliinae-Orchidaceae) from the Atlantic Forest of northeastern Brazil: evidence from morphology and cytogenetics. *Brittonia* 66: 347–352.
<http://dx.doi.org/10.1007/s12228-014-9343-3>
- Pessoa, E., Maciel, J.R. & Alves, M. (in press) *Campylocentrum brevifolium* (Lindl.) E. Pessoa & M. Alves, a neglected orchid species from Atlantic Forest of Brazil. *Kew Bulletin*.
- Siqueira, C.E., Pessoa, E., Alves, M. & Zannin, A. (in press) The smallest angraecoid species from Neotropics: a new *Campylocentrum* Benth. (Angraecinae, Orchidaceae) from Brazilian subtropical forest. *Systematic Botany*.
- Sobral, M. (2013) Eight new Atlantic Rainforest species and nomenclatural notes in Brazilian Myrtaceae. *Phytotaxa* 135: 43–61.
<http://dx.doi.org/10.11646/phytotaxa.135.1.6>
- Todzia, C.A. (1980) A revision of the Costa Rican species of *Campylocentrum* (Orchidaceae). *Brenesia* 18: 117–136.
- Veloso, H.P. (1992) Sistema fitogeográfico. In: Veloso, H.P. (Ed.) *Manual técnico da vegetação brasileira*. Instituto Brasileiro de Geografia e Estatística, Rio de Janeiro, pp. 9–38.