



A new species of *Ancistrotropis* (Leguminosae, Papilionoideae, Phaseoleae) endemic to Brazil

CRISTIANE SNAK¹, JOÃO LUIZ DE ARRUDA MOREIRA² & ANA MARIA GOULART DE AZEVEDO TOZZI²

¹ Programa de Pós-graduação em Botânica, Departamento de Ciências Biológicas, Universidade Estadual de Feira de Santana, Av. Transnordestina s.n., Novo Horizonte, CEP 44036-900, Feira de Santana, Bahia, Brazil; e-mail: cristianesnak@hotmail.com

² Departamento de Biologia Vegetal, Instituto de Biologia, Universidade Estadual de Campinas, Caixa Postal 6109, CEP 13083-970, Campinas, São Paulo, Brazil; e-mail: anatozzi@unicamp.br

Abstract

A new species of *Ancistrotropis* is described and illustrated here. *Ancistrotropis serrana* occurs in several habitats in Brazil such as grasslands, “campo rupestre”, “restinga”, “cerrado” and gallery forest.

Resumo

Uma nova espécie de *Ancistrotropis* é aqui descrita e ilustrada. *Ancistrotropis serrana* ocorre em diversos habitats no Brasil, tais como, campos, campo rupestre, restinga, cerrado e mata de galeria.

Key words: Fabaceae, Faboideae, taxonomy, *Vigna*

Introduction

Ancistrotropis Delgado-Salinas (2011:1704) is a neotropical genus with about six species recently segregated from *Vigna* Savi (1824:113) by Delgado-Salinas *et al.* (2011). It belongs to subtribe Phaseolinae, a taxonomically challenging group, particularly due to the *Phaseolus-Vigna-Macroptilium* complex. The generic limits within Phaseolinae were reviewed by Maréchal *et al.* (1978) and Lackey (1983). Later, Delgado-Salinas *et al.* (2011) elucidated the relationships amongst the genera of the subtribe using molecular data and proposed the segregation of *Vigna* in seven genera. However, the species-level relationships are still poorly known.

During the course of a field and herbarium based study of Phaseolinae in southern (Snak *et al.* 2011), southeastern and midwestern Brazil (Moreira 1997), a new species of *Vigna* s.l. (*V. serrana* nom. nud.) was recognized. The new species, which now belongs to *Ancistrotropis*, is described and illustrated herein.

Taxonomy

Ancistrotropis serrana Snak, J.L.A. Moreira & A.M.G. Azevedo, *sp. nov.* (Fig. 1)

Ancistrotropis serrana is morphologically similar to *A. peduncularis* (Fawcett & Rendle) A. Delgado, from which it differs by the leaflets homomorphic [heteromorphic, rarely homomorphic in *A. peduncularis*], leaflets apex acuminate to acute [frequently obtuse to rounded, rarely acute in *A. peduncularis*]; carinal teeth of calyx acuminate to acute [obtuse to rounded in *A. peduncularis*], and standard (lamina and claw) at least (2.2–)2.4 cm long [usually less than 1.6(–1.8) cm long in *A. peduncularis*].

Type:—Brazil. São Paulo: Atibaia, Pedra Grande, 7 May 1997 (fl, fr), J.L.A. Moreira 835 (holotype UEC, isotypes K, NY, RB).

Acknowledgments

We thank Dr. G.J. Shepherd and Dr. R. Goldenberg for reviewing the english version, R. Quintella for the illustrations, and two anonymous reviewers. We also thank the staff of the herbaria cited for their cooperation, the Universidade Federal do Paraná and Universidade Estadual de Campinas for the support, the CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico) for the fellowship grants to Cristiane Snak (Processo 133969/2010-0) and João Luiz de Arruda Moreira and the FAPESP (Fundação de Amparo à Pesquisa do Estado de São Paulo/Processo 95/2294-1) for additional financial support.

References

- Delgado-Salinas, A., Thulin, M., Pasquet, R., Weeden, N. & Lavin, M. (2011) *Vigna* (Leguminosae) *sensu lato*: the names and identities of the American segregate genera. *American Journal of Botany* 98(10): 1694–1715.
- IUCN. (2012) IUCN Red List Categories and Criteria: Version 3.1. IUCN Species Survival Commission. IUCN, Gland, Switzerland & Cambridge, UK, 2ed, 32 pp.
- Kunth, C.S. (1824) *Phaseolus peduncularis*. In: Humboldt, A., Bonpland, A. & Kunth, C.S. (eds.) *Nova genera et species plantarum* 6. Librairie de Gide Fils, Paris, pp. 447–448.
- Lackey, J.A. (1983) A review of generic concepts in American Phaseolinae (Fabaceae, Faboideae). *Iselya* 2: 21–64.
- Maréchal, R., Mascherpa J.M., & Stainier, F. (1978) Étude taxonomique d'un groupe complexe d'espèces des genres *Phaseolus* et *Vigna* (Papilionaceae) sur la base de données morphologiques et polliniques, traitées par l'analyse informatique. *Boissiera* 28: 1–273.
- Moreira, J.L.A. (1997) *Estudo taxonômico da subtribo Phaseolinae Benth. Leguminosae, Papilionoideae no sudeste e centro-oeste do Brasil*. Dissertação de Mestrado. Universidade Estadual de Campinas, Campinas, 292 pp.
- Savi, G. (1824) Continuazione della Memoria II sopra i generi *Phaseolus* et *Dolichos*. *Nuovo Giornale dei Letterati* 8: 106–123.
- Snak, C., Miotto, S.T.S. & Goldenberg, R. (2011) Phaseolinae Benth. (Leguminosae, Papilionoideae, Phaseoleae) no estado do Paraná, Brasil. *Rodriguésia* 62(3): 695–716.