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Briggsia leiophylla, a new species of Gesneriaceae from southern Guizhou, China

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Abstract

Briggsia leiophylla, a new species of Gesnericeae from southern Guizhou, China, is here described and illustrated. It is morphologically similar to *B. longipes* (Hemsl. ex Oliv.) Craib, but can be easily distinguished by only one flower per cyme (rare two), brightly yellow and nearly glabrous corolla, anthers thecae confluent.

Keywords: Cave flora, Briggsia leiophylla, New Species, Gesneriaceae, Guizhou, China

Introduction

Consisting of around or at least 22 species of herbaceous perennials, the former genus *Briggsia* Craib (1919: 235) is a member of the family Gesneriaceae is native to the Himalayas, China and neighboring countries and regions (Sikkim, Burma, Bhutan, India and Vietnam); China being the center of distribution where 21 species and 4 varieties can be found (Li *et al*, 2004). However, this genus was revised mainly based on molecular evidences. Four species and four varieties were split off and moved to *Oreocharis* Benth (1876: 1021). The rest, 17 species, still keep in *Briggsia* (Möller *et al*. 2011). Based on the newest formal classification of Gesneriaceae was published by Weber *et al*. (2013), this re-defined genus belongs to Subtribe Didymocarpinae G. Don (1838: 644, 658), Tribe Trichosporeae Nees (1825: 143), Subfam. Didymocarpoideae Arn. (1832: 121), Gesneriaceae. Hitherto five species were recorded in Guizhou, China (Li *et al*, 2004; Wei *et al*, 2010) before this new one, *Briggsia leiophylla*, is described and illustrated.

In January 2009, the authors collected an unknown *Briggsia* specimens in a limestone cave from a karst region of Guizhou, China. Only 20 individuals grow on a damp surface of limestone rock in a large cave. During the past 5 years, the living plants were monitored in the field and an ecological survey was carried out. After thoroughly comparisons of diagnostic characters of *Briggsia* specimens from China (Wang 1990, Li *et al* 2004, Wei *et al*, 2010, Wu *et al.*, 2012), we concluded that it was an undescribed species.

Taxonomic Treatment

Briggsia leiophylla Fang Wen & Y.G.Wei sp. nov. (Figs. 1 & 2 A–H)

It differs from *Briggsia longipes* by only one flower per cyme (rare two), brightly yellow and nearly glabrous corolla, anthers thecae confluent.

Type:—CHINA. Guizhou Province: Huishui County, growing on damp surface of rock in a limestone cave, 25°49'N, 106°43'E, elevation ca. 1000 m, 10 December 2009 (fl.), *Fang Wen 091201* (holotype IBK!, isotype IBK! ANU!).

References

- Craib, W.G. (1919) Didissandra and allied genera. Notes from the Royal Botanic Garden, Edinburgh 11(55): 262.
- Franchet, A. (1885) Cyrtandracées nouvelles de la Chine. Bulletin mensuel de la Société linnéenne de Paris 1(52-81): 450.
- Hemsley, W.B. (1895) Icones plantarum or figures, with brief descriptive characters and remarks, of new or rare plants, selected from the author's herbarium. Hooker's Icones Plantarum 24(4): 2379.
- IUCN (2001) IUCN Red List Categories and Criteria: Version 3.1. IUCN Species Survival Commission. IUCN, Gland, Switzerland and Cambridge, UK, pp. 16-18.
- Li, Z.Y. & Wang, Y.Z. (2004) Plants of Gesneriaceae in China. Henan Science and Technology Publishing House, Zhengzhou, pp. 67-79.
- Möller, M., Middleton, D., Nishii, K., Wei, Y.G., Sontag, S. & Weber, A. (2011) A new delineation for Oreocharis incorporating an additional ten genera of Chinese Gesneriaceae. Phytotaxa 23: 1-36.
- Wang, W.T., Pan, K.Y. & Li, Z.Y. (1990) Gesneriaceae. In: Wang, W.T. (Ed.) Flora Reipublicae Popularis Sinicae 69. Science Press, Beijing, pp. 203-226.
- Wang, W.T., Pan K.Y., Li Z.Y., Weitzman A.L. & Skog L.E. (1998) Gesneriaceae. In: Wu, Z.Y., Raven, P.H. (Eds.) Flora of China 18. Science Press and Missouri Botanical Garden Press, Beijing, St. Louis, pp. 272-280.
- Weber, A., Clark, J.L. & Möller, M. (2013) A new formal classification of Gesneriaceae. Selbyana 31(2): 68-94.
- Wei, Y.G., Wen, F., Möller, M., Monro, A., Zhang, Q., Gao, Q., Mou, H.F., Zhong, S.H. & Cui, C. (2010) Gesneriaceae of South China. Guangxi Science and Technology Publishing House, Nanning, 777 pp. [in Chinese and English]
- Wu, L., Pan, B., Yang, J.C. & Xu, W.B. (2012) Briggsia damingshanensis (Gesneriaceae), a new species from Guangxi, China. Annales Botanici Fennici 49: 79-82.

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