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Oreocharis synergia, a new species of Gesneriaceae from Northwestern Yunnan, China

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Abstract

A new species of *Oreocharis* (Gesneriaceae) from southwestern Yunnan, China, *Oreocharis synergia* is described and illustrated. The diagnostic characteristics are given with a comparison with its most similar species, *Oreocharis bodinieri*.

Key words: Oreocharis, Oreocharis bodinieri, Oreocharis synergia sp. nov., Yunnan, China

Introduction

Staff of the Yongsheng Forestry Bureau (Rong-Ju Rui) collected a sterile plant in Yongsheng County, southwestern Yunnan, China, and tentatively identified it in Oct. 2013 as *Tremacron forrestii* Craib (1918: 217), named after George Forrest, a Scottish botanist and one of the first explorers of China's northwestern Yunnan Province. Recently, to reflect phylogenetic relationships among this group of plants (Möller *et al.* 2011), *T. forrestii* was subsumed into *Oreocharis* Bentham (1876: 1021) as *O. craibii* Mich.Möller & A.Weber (Möller at el. 2011: 19), after another Scottish botanist, W. G. Craib.

Sterile specimens of *Oreocharis* are notoriously difficult to identify to species. Thus, one of the authors (Yu-Min Shui) conducted further fieldwork in Yongsheng County and collected specimens in bud in August 2014 and flowering plants on 27 September 2014. After comparison with previously described *Oreocharis* species (Pellegrin 1930, Wang *et al.* 1990, Li 1991, Wang *et al.* 1998, Li 2004, Wei *et al.* 2010), and specimens in herbaria (BM, E, IBK, IBSC, Kew, KUN, P and PE), we concluded that the plants collected in Yongsheng County represent a new species of *Oreocharis*, characterized by a distinct tubular, almost actinomorphic, corolla with an unusually densely villous exterior surface.

Taxonomy

Oreocharis synergia W.H.Chen, Y.M.Shui & Mich.Möller, sp. nov. (Fig. 1)

The new species is most similar in leaf and floral characteristics to *O. bodinieri* H. Léveillé (1915: 40), but differs from this species by its larger oblong or elliptic leaf blade, smaller lanceolate or triangular calyx lobes, light yellow corolla with rededged lobes, densely villous exterior corolla surface, glabrous upper half of the filament and glabrous connective.

Type:—CHINA. Yunnan Province: Yongsheng County, Renhe Township, Shanyila, on mountain slopes, 26°26'N, 100°56'E, elevation 2194 m, 27 Sept. 2014, in flower, *Y. M. Shui et al. B2014-299* (holotype, KUN!; isotype, E!).