



Pseudobartsia glandulosa, a new combination to replace *Pseudobartsia yunnanensis* (Orobanchaceae)

WEN-BIN YU^{1,*}, HONG WANG^{2,3} & DE-ZHU LI^{2,3}

¹Center for Integrative Conservation, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Mengla 666303, PR China; e-mail: yuwenbin@xtbg.ac.cn.

²Key Laboratory for Plant Diversity and Biogeography of East Asia, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, PR China

³Plant Germplasm and Genomics Center, Germplasm Bank of Wild Species, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, PR China

*author for correspondence

Pseudobartsia Hong (1979: 406) was established during the preparation of the Chinese edition of *Flora Republicae Popularis Sinicae*. This genus only contains one species, *Pseudobartsia yunnanensis* Hong (1979: 406), which is endemic to Yunnan (Hong *et al.* 1998). Based on comparisons of type specimens, Tao (1993) found that *Pseudobartsia yunnanensis* can not be distinguished from *Phtheirospermum glandulosum* (Bentham 1846: 555) Hooker (1884: 304), which was originally only recorded from the Western Himalayas. Therefore, *Pseudobartsia* was treated as a synonym of *Phtheirospermum* Bunge ex Fischer & Meyer (1835: 35), and *Pseudobartsia yunnanensis* was regarded as a synonym of *Phtheirospermum glandulosum* in a full revision of *Phtheirospermum* by Tao (1996).

However, recent phylogenetic analyses (Dong *et al.* 2013; McNeal *et al.* 2013) and morphological evidence, i.e. pollen morphology (Lu *et al.* 2007) and seed characters (Dong *et al.* 2013), support *Pseudobartsia* as an independent genus. Because the name *Euphrasia glandulosa* Bentham (1846: 555) as priority over *Pseudobartsia yunnanensis*, we propose the new combination *Pseudobartsia glandulosa* (Bentham) W.B. Yu & D.Z. Li to replace the latter in the genus *Pseudobartsia*.

Pseudobartsia glandulosa (Bentham) W.B. Yu & D.Z. Li, *comb. nov.*

Basionym:—*Euphrasia glandulosa* Bentham (1846: 555).

Type:—INDIA. Uttar Pradesh: Shiv li, ca 1829 m, September 1840, *Edgeworth 37* (lectotype K barcode K000951256!, here designated; image available at <http://www.kew.org/herbcatimg/654943.jpg>).

Homotypic synonym:—*Phtheirospermum glandulosum* (Bentham) Hooker (1884: 304).

Heterotypic synonym:—*Pseudobartsia yunnanensis* Hong (1979: 406). Type:—CHINA. Yunnan: Songming, Longtanying, ca. 2300 m, 9 October 1940, *Ying-Bo Zhang 0004* (holotype KUN No. 0735310!, isotype KUN No. 0735309!) (Fig. 1).

Bentham (1846) mentioned the provenance and collector for the type of *Euphrasia glandulosa* in the protologue. After checking the potential type material conserved at the herbarium of the Royal Botanical Garden, Kew (K), we found that the herbarium sheet K000951256 is part of the original material. Therefore, that sheet is here designated as the lectotype.

Pseudobartsia glandulosa is a critically endangered species in China, only two gatherings, *Ying-Bo Zhang 0004* (Fig. 1) and *Qi-Wu Wang 8477* (collected in 9 October 1940 in Yanshan of Southeastern Yunnan). We visited the type locality Longtanying of Songming on 8 October in 2007, but failed to locate any individual.

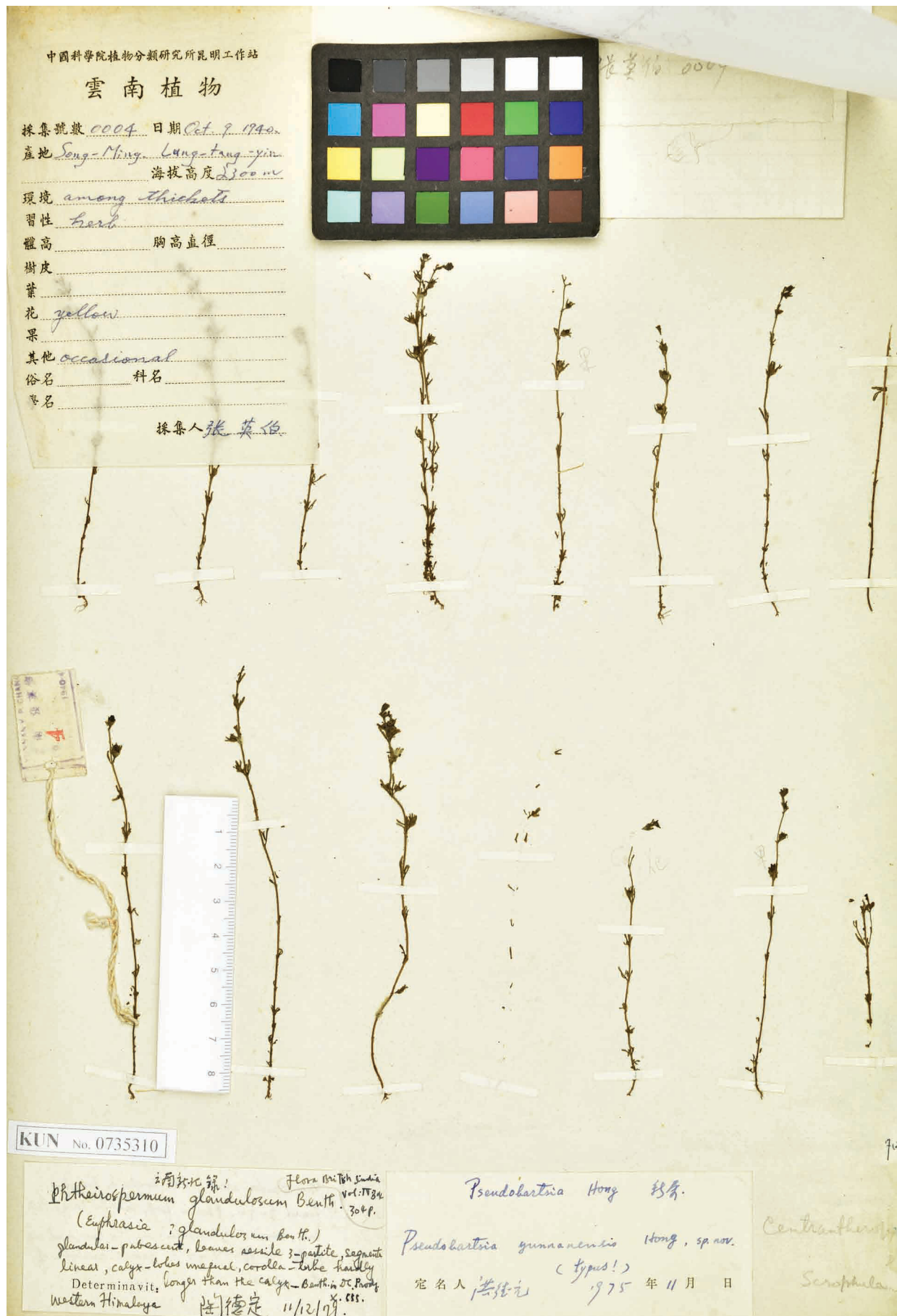


FIGURE 1. Holotype of *Pseudobartsia yunnanensis* Hong, Ying-Bo Zhang 0004 (KUN No. 0735310).

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