

The identity of *Parasenecio subglaber* (Asteraceae) from China

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The type specimen of *Parasenecio subglaber* (C.C. Chang) Y.L. Chen (Asteraceae, Senecioneae) is conflicting with the protologue and belongs to the genus *Ligularia*. A new name and a new type are designated to accommodate the original protologue, and the distribution range of the species is widely extended.

The name *Parasenecio subglaber* (C.C. Chang) Y.L. Chen (Chen 1999) is currently in use for a species of Asteraceae distributed in Guangxi, Guizhou and Hunan provinces in southern China. This name is a combination based on *Cacalia subglabra* C.C. Chang (Chang 1941). However, the type specimen cited in the protologue (China, Guangxi, Tzu Yuen, Mao-er-shan, alt. 2262 m, 28.VII.1937, Z. S. Chung 83429, IBSC; Fig. 1) is clearly conflicting with the protologue, including the illustration. It is clearly referable to *Ligularia stenocephala* (Maxim.) Matsum. & Koidz. After examining all the specimens of *Parasenecio subglaber* in IBSC, I found another gathering with two sheets (IBSC barcode 0579169 and 0579170): China, Guangxi, Tzu Yuen, Leigong-tian, alt. 2262 m, in woods, 28.VII.1937, Z. S. Chung 83438, which was collected by the same collector on the same day from the same locality, and agrees perfectly with Chang's protologue and illustration. The determination slip on one sheet (IBSC barcode 0579170) reads "*Cacalia subglabra* Chang" by C. C. Chang, and Z. S. Chung 83438 is the only gathering of "*C. subglabra* Chang" in IBSC collected before 1941, when Chang published the name. This suggests

that Chang (1941) was clearly describing a species of *Cacalia s. lato* (\equiv *Parasenecio*) based on Z. S. Chung 83438, but he has by mistake cited an incorrect collection number, which belongs to a specimen of the genus *Ligularia*. In fact, the collection information of these two gatherings is nearly the same except for the collection number. According to Art. 9.1 Note 1 in the *International Code of Botanical Nomenclature* (McNeill *et al.* 2006), "any designation made by the original author, if definitely expressed at the time of the original publication of the name of the taxon, is final", we will have no choice but to accept the type designation in the protologue. Then *Cacalia subglabra* and *Parasenecio subglaber* will become taxonomic synonyms of *Ligularia stenocephala*. The species hitherto known as *P. subglaber* will require a new name and a new type and is here described as a new species.

Parasenecio albus* Y.S. Chen, *sp. nova
(Fig. 2)

Cacalia subglabra C.C. Chang, *Sunyatsenia* 6: 19. pl. 3. 1941. excl. type; S. Y. Hu, *Quart. J. Taiwan Mus.* 19: 9. 1966;



Fig. 1. *Cacalia subglabra* (holotype).



Fig. 2. *Parasenecio albus* (holotype).

Y. L. Chen, Fl. Guizhou. 9: 230. 1989.

Parasenecio subglaber (C.C. Chang) Y.L. Chen, Fl. Reipubl. Popularis Sin. 77(1): 43. pl. 7: 5–8. 1999. excl. type; Y. L. Chen & S. Y. Jin, High. Pl. China 11: 494. pl. 752: 1–4. 2005; Y. B. Luo & Z. C. Luo, Pl. Xinning: 335. 2008.

Cacalia rubescens auct., L.Y. Chen & L. K. Lin, Fl. Fujian 5: 399. f. 371. 1993, p. p., *non* (S. Moore) Matsuda (1918).

*Species Parasenecio lancifolio affinis, sed dif-
fert petiolis haud alatis.*

TYPE: China. Guangxi province: Tzu Yuen, Mao-er-shan, Leigongtian, alt. 2262 m, in woods, 28.VII.1937 Z. S. Chung 83438 (holotype IBSC0579170!; isotypes IBSC0579169!, A!).

According to Chen (1999), the species occurs in Guangxi, Guizhou and Hunan. After examining more specimens, I found it also occurs in Hubei, Fujian, Jiangxi and Sichuan. In Fujian and Jiangxi, it was usually misidentified as *P. rubescens*, which is different from *P. albus* by its larger heads and reddish brown pappus. In Hubei and Sichuan, *P. albus* was usually misidentified

as *P. lancifolius*, which is different from *P. albus* by its winged petioles.

DISTRIBUTION AND HABITAT: *Parasenecio albus* occurs in Fujian, Guangxi, Guizhou, Hubei, Hunan, Jiangxi and Sichuan in southern China, usually growing in forests or meadows at altitudes of 800–2300 m.

ADDITIONAL SPECIMENS EXAMINED: **China**. — Fujian province: Wuyishan county, from Tongmuguan to Huangbaishan mountain, meadows at top of the mountain, alt. 2100 m, 28.VIII.1979 *Wuyi Exped. 1051* (IBSC); Jianning county, Wangdongping, alt. 1300 m, 30.VI.1978 Z. Y. Li 10838 (PE); Taining county, Xinqiao, in thickets, alt. 800 m, 30.VI.1978 J. D. Lin 32 (IBSC). — Guangxi province: Longsheng county, Pingshui, Taoshan, alt. 1290 m, 22.VII.1955 *Guangfu Exped. 976* (IBSC, PE); Quanzhou county, Jiaojiang, 31.VII.1962 X. J. Zhou 41346 (IBSC); Xing'an county, Maoershan, Tiziling, 19.X.1984 R. R. Yang 84480 (PE). — Hubei province: without locality, A. Henry 4917 (PE); Xuan'en county, Badagongshan, alt. 1600 m, 20.VII.1958 H. J. Li 3993 (PE). — Hunan province: Chengbu county, Dalaoshan, alt. 1600 m, 12.VII.1959 P. X. Tan 63688 (PE); Xinning county, Ziyunshan, alt. 1200 m, 5.IX.1984 *Ziyunshan Exped. 1278* (PE). — Jiangxi province: Anfu county, Wugongshan, Guanyinyan, under forests, alt. 1300 m, 21.VIII.1963 J. S. Yue 3641

(PE); Lichuan county, 6.VI.1958 *M. X. Nie & S. S. Lai* 2806 (PE); Suichuan county, Dafen, under bamboo forests, alt. 1400 m, 28.IX.1963 *J. S. Yue* 4369 (PE); Xingguo county, Junfu, 8.IX.1960 *Institute of Botany* 622(PE); Xunwu county, Xiangshan, alt. 800 m, 22.VIII.1962 *J. S. Yue* 2025 (PE). — Sichuan province: Nanchuan county, Jinfoshan, Langshuibai, alt. 2020 m, 23.VII.1957 *G. F. Li* 63060 (PE); Nanchuan county, Jinfoshan, Fenghuangsi, alt. 2100 m, 24.VII. 1958 *J. H. Xiong et Z. L. Zhou* 92228 (PE).

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