

Validation of the Name *Strobilanthes sarcorrhiza* (Acanthaceae)

Author(s) :Deng Yunfei and Xia Nianhe

Source: Novon: A Journal for Botanical Nomenclature, 17(2):154-155. 2007.

Published By: Missouri Botanical Garden

DOI:

URL: [http://www.bioone.org/doi/](http://www.bioone.org/doi/full/10.3417/1055-3177%282007%2917%5B154%3AVOTNSS%5D2.0.CO%3B2)

[full/10.3417/1055-3177%282007%2917%5B154%3AVOTNSS%5D2.0.CO%3B2](http://www.bioone.org/doi/full/10.3417/1055-3177%282007%2917%5B154%3AVOTNSS%5D2.0.CO%3B2)

BioOne (www.bioone.org) is a nonprofit, online aggregation of core research in the biological, ecological, and environmental sciences. BioOne provides a sustainable online platform for over 170 journals and books published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Web site, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/page/terms_of_use.

Usage of BioOne content is strictly limited to personal, educational, and non-commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

Validation of the Name *Strobilanthes sarcorrhiza* (Acanthaceae)

Deng Yunfei

Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, Yunnan, 650204, People's Republic of China; South China Botanical Garden, Chinese Academy of Sciences, Guangzhou, Guangdong, 510650, People's Republic of China; The Graduate School of Chinese Academy of Sciences, Beijing, 100049, People's Republic of China. yfdeng@scib.ac.cn

Xia Nianhe

South China Botanical Garden, Chinese Academy of Sciences, Guangzhou, 510650, People's Republic of China. nhxia@scib.ac.cn

ABSTRACT. The name *Strobilanthes sarcorrhiza* (C. Ling) C. Z. Zheng (Acanthaceae) was not validly published in 1993 because the reference to the basionym was not cited fully. The name is validated here and represents a new combination referred from *Championella* Bremekamp. The taxon is similar to *S. oligantha* Miquel, but it differs in its rhizome thickened (vs. not thickened), petioles 0–0.3 cm (vs. 3–4 cm), leaf blades lanceolate to oblong-lanceolate (vs. broad-ovate to elliptic), lateral veins 7 to 9 (vs. 3 to 6), and spikes 2–4(–5) cm (vs. ca. 1 cm).

Key words: Acanthaceae, *Championella*, *Strobilanthes*.

Strobilanthes Blume is the second largest genus in the family Acanthaceae; it is distributed in tropical and subtropical regions of Asia. Estimates of the species number in *Strobilanthes* range from 250 species (Hu, 2002; Carine & Scotland, 2002) to 350 (Mabberley, 1987) or 450 or more (Terao, 1983). Bremekamp (1944) divided *Strobilanthes* and related genera into over 54 genera in 27 informal groups in his monograph of the subtribe Strobilanthinae Lindau. Terao (1983) recognized a broadly circumscribed *Strobilanthes* comprising all species of Strobilanthinae. The results of recent molecular studies (Moylan et al., 2004), statistical analysis (Carine & Scotland, 2002), and pollen and gross morphology (Terao, 1983; Wood, 1994, 1995) demonstrate clearly that adequate diagnosis of the majority of groups into which the Strobilanthinae was divided by Bremekamp (1944) and others (Hu, 2002; Cui, 1990; Hsieh & Huang, 1974) is problematic and that a single monophyletic expanded *Strobilanthes* should be recognized.

In the course of revising Chinese *Strobilanthes* Blume s.l., we differ from the authors of *Flora Reipublicae Popularis Sinicae* (Hu, 2002) in regarding

the Strobilanthinae sensu Bremekamp (1944) as a single genus, *Strobilanthes*.

Strobilanthes sarcorrhiza (C. Ling) C. Z. Zheng (Zheng, 1993), originally described in *Championella* as *C. sarcorrhiza* C. Ling (1975), is accepted by us. However, the name *Strobilanthes sarcorrhiza* is not validly published under Article 33.3 of the *International Code of Botanical Nomenclature* (Greuter et al., 2000) because Zheng failed to fully cite the references to its basionym. The current paper validates the name by fully citing the basionym reference (Ling, 1975).

Strobilanthes sarcorrhiza is endemic to China and occurs in southwestern Zhejiang Province. The species belongs to the *Championella* Bremekamp group. This group is characterized by its mostly weak, decumbent isophyllous herbs, few-flowered and terminal spikes usually covered in prominent and large-celled white hairs, the bracts persistent and foliose, the calyx subequally 5-lobed to the base, and four fertile stamens. Bremekamp (1944) recognized this group as a distinct genus, *Championella*, consisting of nine species (Deng et al., 2006), and then Terao (1983) treated it as subsection *Championella* (Bremekamp) Terao in his unpublished system. *Strobilanthes sarcorrhiza* is similar to *S. oligantha* Miquel, but it differs in its rhizome thickened (vs. not thickened), petioles 0–0.3 cm (vs. 3–4 cm), leaf blades lanceolate to oblong-lanceolate (vs. broad-ovate to elliptic), lateral veins 7 to 9 (vs. 3 to 6), and spikes 2–4(–5) cm (vs. ca. 1 cm).

Strobilanthes sarcorrhiza (C. Ling) C. Z. Zheng ex Y. F. Deng & N. H. Xia, comb. nov. Basionym: *Championella sarcorrhiza* C. Ling, Acta Phytotax. Sin. 13(3): 93. 1975. TYPE: China. Zhejiang Province, *C. Ling (71)037* (holotype, PE).

Additional specimens examined. CHINA. **Zhejiang:** Linhai xian, Kuocangshan, 1000 m, *Ding Bingyang & Jin Weishan 83* (HZU); Wenling xian, Meixi gongshe, Gingkun-

shan, *Hangzhou Bot. Gard. Hb.* 4129 (PE); Yongjia xian, Huangnan xiang, Zhukeng, *Hong Lin* 2160 (HZU); Yueqing xian, Yandangshan, 10 Oct. 1915, s. coll. 945 (PE); Yueqing xian, Yandangshan, Linyansi, *C. Ling* 731505 (PE); Yueqing xian, Beiyandangshan, *Zhang Chaofang & Zheng Chaozhong* 5898 (HZU); Yueqing xian, Yandangshan, Guzhdong, *Zhang Chaofang & Zheng Chaozhong* 6203 (HZU); Yueqing xian, Yandangshan linchang, *Ding Bingyang & Zhang Qingmian* 1857 (HZU); s. loc., *Wang Kehui s.n.* (IBSC).

Acknowledgments. This work was supported by the National Natural Science Foundation of China (nos. 30370109, 30499340, 39899400), the Director Foundation of the South China Institute of Botany, Chinese Academy of Sciences (no. 2002-1112), and a grant of the Special Project for Taxonomic and Floristic Researches from the Chinese Academy of Sciences to Xia. The first author thanks the curators of the following herbaria for their help during his visits: BM, E, GXMI, HZU, IBK, IBSC, K, KUN, and PE.

Literature Cited

- Bremekamp, C. E. B. 1944. Materials for a monograph of the Strobilanthinae. *Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect.* 41(1): 1-305.
- Carine, M. A. & R. W. Scotland. 2002. Classification of Strobilanthinae (Acanthaceae): Trying to classify the unclassifiable. *Taxon* 51: 259-279.
- Cui, H. B. (Tsui, H. P.). 1990. *Materiae ad Floram Acanthaceae Sinicarum* (1). *Acta Bot. Yunnan.* 12(3): 269-278.
- Deng, Y. F., J. R. I. Wood & R. W. Scotland. 2006. New and reassessed species of *Strobilanthes* (Acanthaceae) in the flora of China. *Bot. J. Linn. Soc.* 150: 369-390.
- Greuter, W., J. McNeill, F. R. Barrie, H. M. Burdet, V. Demoulin, T. S. Filgueiras, D. H. Nicolson, P. C. Silva, J. E. Skog, P. Trehane, N. J. Turland & D. L. Hawksworth (editors). 2000. *International Code of Botanical Nomenclature* (Saint Louis Code). *Regnum Veg.* 138.
- Hsieh, C. F. & T. C. Huang. 1974. The Acanthaceous plants of Taiwan. *Taiwania* 19: 19-57.
- Hu, C. C. 2002. *Championella*. Pp. 89-97 in C. C. Hu (editor), *Flora Reipublicae Popularis Sinicae*, Tomus 70. Science Press, Beijing.
- Ling, C. 1975. A new species of medicinal plants in southern Chekiang—*Championella sarcorrhiza*. *Acta Phytotax.* Sin. 13(3): 93-94.
- Mabberly, D. J. 1987. *The Plant-Book*. Cambridge Univ. Press, Cambridge.
- Moylan, E. C., J. R. Bennett, M. A. Carine, R. G. Olmstead & R. W. Scotland. 2004. Phylogenetic relationships among *Strobilanthes* s.l. (Acanthaceae): Evidence from ITS nrDNA, *trnL-F* cpDNA, and morphology. *Amer. J. Bot.* 91: 724-735.
- Terao, H. 1983. Taxonomic study of the genus *Strobilanthes* Bl. (Acanthaceae). Generic Delimitation and Infrageneric Classification. Ph.D. Thesis, Kyoto University, Kyoto, Japan.
- Wood, J. R. I. 1994. Notes relating to the flora of Bhutan: XXIX. Acanthaceae, with special reference to *Strobilanthes*. *Edinburgh J. Bot.* 51: 175-274.
- . 1995. Notes on *Strobilanthes* (Acanthaceae) for the flora of Ceylon. *Kew Bull.* 50: 1-24.
- Zheng, C. Z. 1993. Acanthaceae. Pp. 78-89 in C. Z. Zheng (editor), *Flora of Zhejiang*, Tomus 6. Zhejiang Sciences and Technology Publishing House, Hangzhou.