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Zhang LY, Lan SR, Liu JF, et al. A new record of Orchidaceae from mainland China: *Gastrochilus somai* (Hayata) Hayata[J]. *Guihaia*, 2014, 34(4): 497–499

# A new record of Orchidaceae from mainland China: *Gastrochilus somai* (Hayata) Hayata

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**Abstract:** *Gastrochilus somai* (Hayata) Hayata, a newly recorded species from Fujian, mainland China, was described and illustrated. The species was discovered in Fujian Province, providing a good material to test the taxonomy between *G. somai* (Hayata) Hayata and *G. japonicas* (Makino) Schltr., and the floristic relationship between mainland China and nearby islands.

**Key words:** *Gastrochilus somai*; new record; Orchidaceae; mainland China

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## 中国大陆兰科植物新记录种——美丽盆距兰

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**摘要:** 报道了中国大陆兰科植物新记录种——美丽盆距兰 [*Gastrochilus somai* (Hayata) Hayata], 并提供形态描述与图片。该植物在福建省的发现有助于研究美丽盆距兰与黄松盆距兰 [*G. japonicas* (Makino) Schltr.] 的分类以及中国大陆与附近岛屿植物区系的内在联系。

**关键词:** 美丽盆距兰; 新记录; 兰科; 中国大陆

The genus *Gastrochilus* D. Don was established in 1825 (Tsi, 1996). There are about 47 species in the world, distributed in the tropical and subtropical regions in Asia (Tsi *et al.*, 1999; Chen *et al.*, 2003). There are about 29 species found in China (Chen *et al.*, 2009), mainly distributed in the south of the Yangtze River, especially in Taiwan and southwest China

(Tsi *et al.*, 1999; Chen *et al.*, 2003).

During the botanical expedition to Pingnan county of Fujian in 2010, an unknown orchid was collected. Based on a careful examination and literature research (Hayata, 1914, 1917; Chen *et al.*, 2009; Jin *et al.*, 2010), it was identified as *G. somai* (Hayata) Hayata, a species exclusively reported from Taiwan. This is

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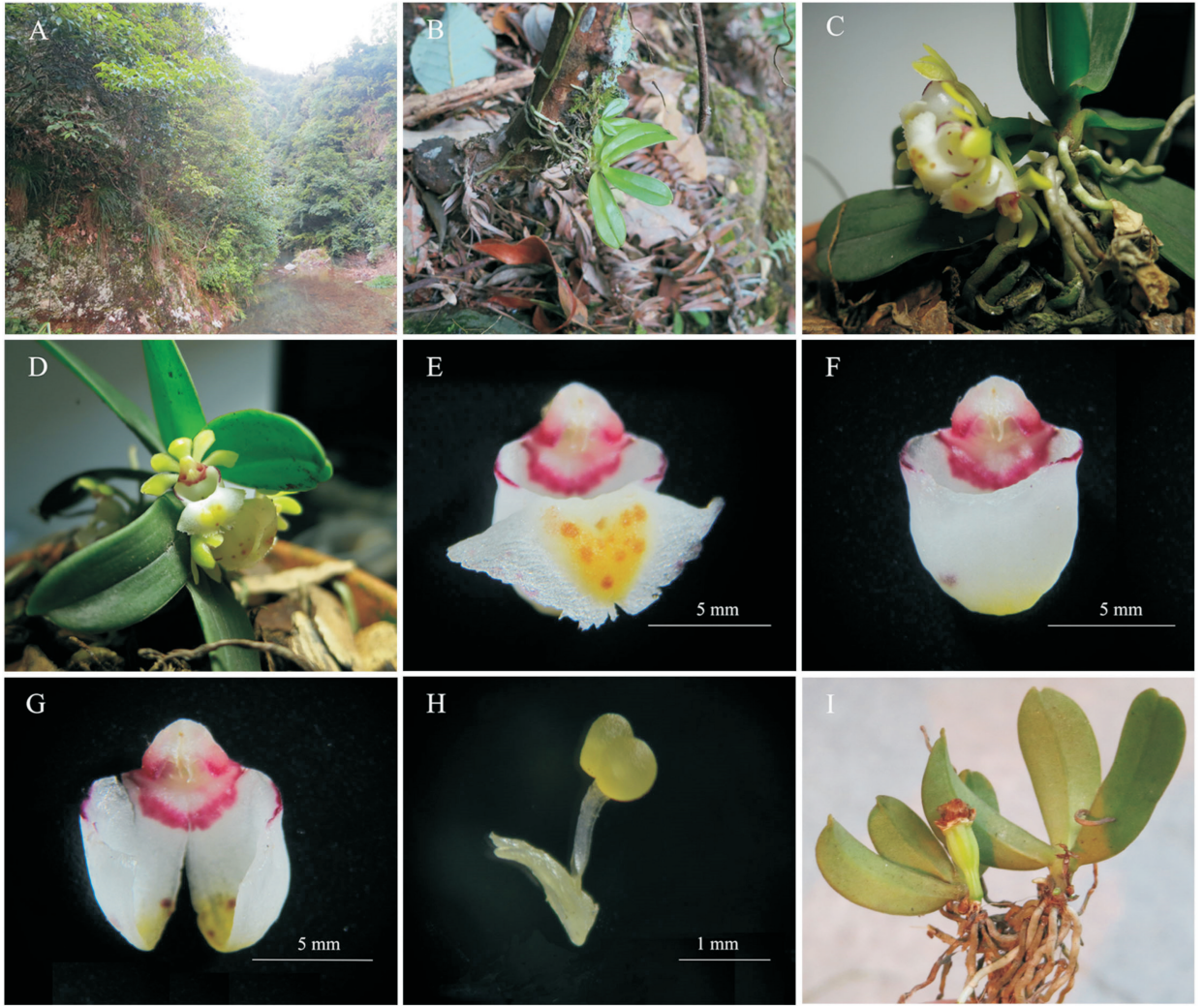


Plate I *Gastrochilus somai* (Hayata) Hayata

A-B. Habitat; C-D. Blooming plant; E. Lip, column; F-G. Hypochile, column; H. Pollinia; I. Fruit.

the first report from mainland China.

*Gastrochilus somai* (Hayata) Hayata Plate I

*Gastrochilus somai* (Hayata) Hayata in Icon. Pl. Formosan. Vol. 4; Add. & Corr. 1915. — *Saccolabium somai* Hayata, Icones Plantarum Formosan. Vol. 4; 93. 1914. TYPE; China. Taiwan, Pinansha. March 1913, T. Soma. s. n. (TI).

Leaves distichous, closely spaced, (3.5–4.2) cm × (1.2–1.7) cm, apex unequally 2-lobed, obovate or blade falcate-oblong. Inflorescence subumbellate, 3 or 4-flowered; peduncle ca. 1 cm; base with 2 sheaths; floral bracts ovate-triangular, ca. 3 mm; dorsal sepal obovate-elliptic, (5.8–7) × ca. 3 mm; lateral sepals similar to dorsal sepal, slightly narrower; petals obovate, (5–6) mm × (2–2.5) mm, apex obuse; lip with an

epichile and a saccate hypochile; epichile subtriangular, (3–4) × ca. 8 mm, adaxially glabrous except on finely papillate central cushion, margin erose; hypochile nearly cupular, (5–7) mm × (5–5.5) mm; column short. Fl. Aug.

Distribution; Taiwan, Fujian.

Fujian Province; Shuangxi Town, Pingnan County, Ningde City, epiphytic on trunk in broad-leaved evergreen forests (Alt. 683 m; Lat. 27°06' N, Lon. 119°03' E), LIU Jiang-Feng 2010121 (FAFU).

*Gastrochilus somai* was previously treated as a synonym of *G. japonicus* (Tsi, 1996; Tsi *et al.*, 1999; Su, 2000; Chen *et al.*, 2009). These two species are closely related, but they are distinct from each other (Jin *et al.*, 2010). *G. somai* is characterized by its sub-

umbellate inflorescence, slipper-shaped hypochile and epichile much wider than hypochile, while *G. japonicus* is characterized by racemose inflorescence, conical hypochile, and epichile as wide as hypochile (Jin *et al.*, 2010).

Undoubtedly, taxonomy of these two species should be done in further researches. The distribution of the two species had been recorded in Hong Kong, Taiwan and Japan, respectively. The discovery of *G. somai* in Fujian will be of phytogeographical significance in the relationship among mainland China, Taiwan and Japan.

We tentatively followed the treatment of Jin *et al.* (2010) and confirmed that the specimen is closer to *G. somai* (Hayata) Hayata.

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(5) 葡萄酒多酚对于革兰氏阳性菌敏感度要大于革兰氏阴性菌。野生葡萄酒的抗菌性能优于传统赤霞珠、蛇龙珠葡萄酒和其他的市售葡萄酒。这可能与野生葡萄的多酚种类和组成有关,但具体是哪种或哪几种物质起抑菌作用,还有待于进一步研究。(6) 自酿葡萄酒未添加任何抑菌剂及对人体有危害的 SO<sub>2</sub> (周德庆, 2004), 这为生产无添加葡萄酒提供了参考。

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