

DOI: 10.11931/guihaia.gxzw201702019

引文格式: 马从昌, 叶德平, 杨国平, 等. 无量山石豆兰, 中国兰科植物一新记录种 [J]. 广西植物, 2018, 38(3):408–410
MA CC, YE DP, YANG GP, et al. *Bulbophyllum pinicola* (Orchidaceae), a newly recorded species in China [J]. *Guihaia*, 2018, 38(3):408–410

Bulbophyllum pinicola (Orchidaceae), a newly recorded species in China

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Abstract: *Bulbophyllum pinicola*, a newly recorded species of Orchidaceae from China is illustrated by colorful photos. *B. pinicola* is similar to *B. acutiflorum*, but can be easily distinguished from the latter by the following features: sepals lanceolate, apex acuminate; petals triangular lanceolate, apex acuminate; lip slightly excurvate.

Key words: new record, Orchidaceae, *Bulbophyllum pinicola*, China, nomenclature

CLC number: Q949 **Document code:** A **Article ID:** 1000-3142(2018)03-0408-03

无量山石豆兰, 中国兰科植物一新记录种

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摘 要: 报道了中国兰科植物一新记录种, 即无量山石豆兰 (*Bulbophyllum pinicola*)。对其进行了特征描述并与相似种 *Bulbophyllum acutiflorum* 做了对比, 并提供了彩色照片。无量山石豆兰的萼片披针形, 先端渐尖, 花瓣三角状披针形, 先端渐尖, 唇瓣稍向外下弯而易与相似种区分。

关键词: 新记录, 兰科, 无量山石豆兰, 中国, 命名法

Bulbophyllum Thouras (1822: tab.3), is one of the largest genera in Orchidaceae, consisting of 1867 species (Chase et al, 2015; Vermeulen et al, 2014). There are approximate 127 species in China (including *Drymoda*, *Monomeria*, *Trias* and *Sunipia*), of which 40

species are endemic to China (Chen & Vermeulen, 2009, Li et al, 2009, 2011, 2013, 2015; Wei et al, 2010; Liu et al, 2015; Liu & Gao, 2016; Yu et al, 2015; Zhou & Jin, 2015).

Based on our field work in Jingdong County, Yun-

收稿日期: 2017-06-13

基金项目: 全国重点保护野生植物第二次普查—云南普洱(Y4HX021B01) [Supported by the Second Census of Key Protected Wild Plants of China—Pu'er, Yunnan (Y4HX021B01)].

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Note: **A.** Habitat; **B.** Inflorescence; **C.** Pedicel and ovary with column and lip; **D.** Flower (**a.** Dorsal sepal, **b.** Lateral sepals, **c.** Petals, **d.** Pedicel and ovary with column and lip, **e.** Floral bract); **E.** Flower (face view).

Fig. 1 **Bulbophyllum pinicola** (Edited by LI Jianwu, photographed by YE Deping)

nan Province, China during 2014–2016, a new record of *Bulbophyllum* was found and now reported here.

Bulbophyllum pinicola Gagnep., Bull. Mus. Natl. Hist. Nat., sér. II. ii: 146. 1930. — *Bulbophyllum pinicolum* Gagnep.

Bulbophyllum pinicola (Fig. 1)

Epiphytic. Rhizome creeping, ca. 2 mm in diam.; pseudobulbs 1.0–1.5 cm apart from each other along the rhizome, subglobular, 1.0–1.2 cm, apex with one leaf. Leaf blade suboblong, 2.7–3.5 by 1.0–1.1 cm, 1-veined, vein concave adaxially, abaxially convex, apex unequally bilobed, lobes rounded, base contracted into petiole, petiole ca. 3 mm long. Scape lateral from the base of pseudobulb, 10–11 cm long, glabrous, umbel-like with 6–8 flowers. Peduncle with 2–3 sheaths, sheath cannular, 5–8 mm long. Floral bracts lanceolate,

3.0 by 0.8 mm, apex acuminate; pedicel and ovary 20–22 mm long; flowers widely open, yellowish–white. Dorsal sepal lanceolate, 20–21 by 3 mm, apex acuminate; lateral sepals lanceolate, 22–23 by 3 mm, apex acuminate. Petals triangular lanceolate, 13–14 by 2.0–2.3 mm, apex acuminate. Lip ligulate, 3.5 by 1.0 mm, base attached to end of column foot by an immobile joint, apex round. Column stout, ca. 2 mm long, column foot ca. 2.5 mm long. Anther cap galeiform; pollinia 2.

China. Yunnan: Pu'er, Jingdong, alt. 1 700 m, 21 DEC 2016, epiphytic on tree or rocks, wet valley in broad-leaved evergreen forests. LI Jianwu 4590 (HITBC!).

Distribution: China (Yunnan), Vietnam and Cambodia.

Bulbophyllum pinicola was often spelled *B. pini-*

colum (Gagnep. 1930; Aver. 2006), according to the International Code of Botanical Nomenclature (McNeill et al, 2012), we report it as *B. pinicola* here.

B. pinicola is similar to *B. albidum* (Wight) Hook. f. (Gagnep. 1930), which is a synonym of *B. acutiflorum* A. Rich., but can be easily distinguished from the later by having sepals lanceolate and having acuminate apex (sepals triangular-lanceolate, apex of dorsal sepal acute in *B. acutiflorum*), petals triangular-lanceolate, apex acuminate (petals ovate, apex acute in *B. acutiflorum*), lip slightly excurvate (lip strongly arcuate in *B. acutiflorum*).

The Chinese name “无量山石豆兰 Wu Liang Shan Shi Dou Lan” is named after site where it was found, Wu Liang Mountain, a famous mountain at Pu'er City, China.

Acknowledgments We are grateful to Dr. JIN Xiaohua for his critical review of the manuscript, to Prof. André SCHUITMAN (Kew) for his help in identification, to PU Kairong for his help in the field work.

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