

中国长足兰属(兰科)一新记录

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摘要: 报道了中国兰科植物一新记录, 即筒距长足兰 [*Pteroceras teres* (Blume) Holttum], 并提供了描述与图片。该种与滇南长足兰 [*P. compressum* (Blume) Holttum] 相似, 但以花序轴圆柱形; 花黄色, 螺旋状排列; 距的先端囊状, 两侧压扁并多少扭转等特征与之区别。

关键词: 长足兰属; 兰科; 新记录; 中国

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Pteroceras teres, A New Record of Orchidaceae from China

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Abstract: *Pteroceras teres* (Blume) Holttum (Orchidaceae), an epiphytic orchid from Yunnan is newly recorded for China. A detailed description of the species and photos are provided. This species is similar to *P. compressum* (Blume) Holttum, from which it clearly differs in having a terete rachis, spirally arranged yellow flowers and a spur with the bladdery apex laterally compressed, more or less twisted.

Key words: *Pteroceras*; Orchidaceae; New record; China

Pteroceras Hassk comprises about 19 species and is widely distributed from northwestern Himalaya to the Philippines^[1-2]. Before this study, five species of this genus have been recorded in China, and four from Yunnan^[3-5]. During our recent survey in Yunnan Province, a pretty species of *Pteroceras* was discovered. After extensive morphological comparisons^[6-8], it was identified as *Pteroceras teres* (Blume) Holttum, a new record to the Chinese orchid flora.

Pteroceras teres (Blume) Holttum in Kew Bull. 14: 271. 1960. — *Dendrocolla teres* Blume, Bijdr.: 289. 1825. Type: Java: Buitenzorg, Blume 744 (lecto-type L). (筒距长足兰 Fig. 1)

Monopodial epiphytes. Stems 10–20 cm long,

bearing 5 to 12 leaves placed 1 cm apart. Leaves oblong-lanceolate, sessile, 6–13 cm long, 1.8–3 cm in diam., apex unequally bilobed, lobes obtuse to rounded. Inflorescences racemose, single or 2–4 superposed, emerging horizontal but becoming pendulous as they lengthen; peduncle 2–4 cm long, rachis terete, glabrous, bearing 3–10 flowers open at one time near the apex, lasting for only one day. Floral bracts scale-like, broadly triangular, greenish-white. Flowers spirally alternating, 14 mm in diam., sweetly scented; sepals and petals yellow or brownish yellow with fine or coarse reddish-brown spots on the adaxial side. Dorsal sepals obovate to elliptic, ca. 7 mm × 3.5 mm, obtuse at apex; lateral sepals spreading, obliquely obovate, ca. 8 mm × 3.5 mm, truncate to

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Fig. 1 *Pteroceras teres* (Blume) Holttum. A: Plants with blossom buds; B: Inflorescences; C: Leaf apex; D: Flower; E: Dorsal sepal, petal and lateral sepal; F: Anther cap; G: Pollinaria; H: Column (front view); I: Column and lip (lateral view); J: Lip (ventral view). Bars: E=3 mm; F, G=0.5 mm; H, I, J=5 mm

rounded at apex. Petals narrowly obovate, ca. 7 mm × 2.7 mm, obtuse at apex. Lip 3-lobed and spurred, pointing forwards, ca. 7 mm long; lateral lobes oblong,

erect and obtuse; mid-lobe very small, surface slightly papillose, with a ridge like callus. Spur irregularly cylindrical or tubular, inflated at middle, gradually

narrowing towards the apex, apex bladderly, laterally compressed, more or less recurved, usually dark reddish brown or purple. Column ca. 2 mm long, reddish brown; column foot 1.5–2.5 mm long, yellowish with reddish stripes; surface finely rugose-papillose. Rostellum much shorter; anther cap depressed, 0.5 mm wide, 2 celled; pollinia 2, waxy, subspherical, deeply longitudinal cleft, attached by a rhomboid-oblong stipe to a broadly obovate-triangular viscidium.

Distribution: India, Nepal, Bhutan, Thailand, Myanmar, Cambodia, Laos, Vietnam, Java, Sumatra, Borneo, Sulawesi and the Philippines. New record for China.

China: Yunnan, epiphyte on tree trunks in open forests or at forest margins in secondary forest, alt. 900–1150 m. L. Li 155 (IBSC).

Conservation status: This species is restricted in this region and confined to a small forest patch at present. It is considered to be vulnerable to extinction as ‘Critically Endangered’ (CR), according to IUCN red list categories and criteria^[9].

It is closely related to *P. compressum* (Blume) Holttum^[6–8], a species also recorded from Yunnan^[5], but the latter is characterized by having a laterally compressed rachis; white or cream flowers in two rows; spur with straight, rounded, often somewhat prolonged apex.

References

- [1] SEIDENFADEN G, WOOD J J. The Orchids of Peninsular Malaysia and Singapore [M]. Fredensborg, Denmark: Olsen & Olsen, 1992: 674–680.
- [2] PEDERSEN H A E. Notes on the genus *Pteroceras* (Orchidaceae) [J]. Nord J Bot, 1992, 12(4): 387–388.
- [3] CHEN S C, WOOD J J. Flora of China, Vol. 25 [M]. Beijing: Science Press & St. Louis: Missouri Botanical Garden Press, 2009: 486–487.
- [4] LI L, CHEN S W, XING F W. A newly recorded species of *Pteroceras* (Orchidaceae) from China [J]. J Trop Subtrop Bot, 2012, 20(5): 520–522. doi: 10.3969/j.issn.1005-3395.2012.05.15
- [5] XU Z H, JIANG H, YE D P, et al. The Wild Orchids in Yunnan [M]. Kunming: Yunnan Publishing Group Corporation & Yunnan Science and Technology Press, 2010: 466–467. (in Chinese)
- [6] PEDERSEN H A E. The genus *Pteroceras* (Orchidaceae): A taxonomic revision [J]. Opera Bot, 1993, 117(1): 5–64.
- [7] COMBER J B. Orchids of Java [M]. UK: Kew, Richmond, Surrey, Royal Botanic Garden, 1990: 307–310.
- [8] COMBER J B. Orchids of Sumatra [M]. UK: Kew, Richmond, Surrey, Royal Botanic Garden, 2001: 862–870.
- [9] HOLTUM R E. The genera *Sarcochilus* R. Br. and *Pteroceras* Hassk. (Orchidaceae) with notes on other genera which have been included in *Sarcochilus* [J]. Kew Bull, 1960, 14(2): 263–276.
- [10] BAILLIE J E M, HILTON-TAYLOR C, STUART S N. 2004 IUCN Red List of Threatened Species™. A Global Species Assessment [M]. Gland, Switzerland and Cambridge, UK: IUCN, 2004: 1–191.