

## 广东省兰科植物新记录

田怀珍<sup>1,2</sup>, 胡爱群<sup>1,2</sup>, 邢福武<sup>1\*</sup>, 巫远坤<sup>3</sup>, 刘松运<sup>3</sup>

(1. 中国科学院华南植物园, 广州 510650; 2. 中国科学院研究生院, 北京 100049; 3. 南岭中恒生态旅游发展有限公司, 广东 韶关 512727)

**摘要:**报道 1 个广东兰科植物新记录属: 长喙兰属 (*Tsaiorchis*), 5 个新记录种: 江口盆距兰 (*Gastrochilus nanus*), 尾唇羊耳蒜 (*Liparis krameri*), 小沼兰 (*Malaxis microtatantha*), 长轴白点兰 (*Thrixspermum saruwatarii*), 长喙兰 (*Tsaiorchis neottianthoides*)。凭证标本均保存在中国科学院华南植物园标本馆 (IBSC)。

**关键词:** 植物区系; 新记录; 兰科; 广东

中图分类号: Q949.718.436.5

文献标识码: A

文章编号: 1005-3395(2007)02-0173-02

## New Records of Orchidaceae from Guangdong Province

TIAN Huai-zhen<sup>1,2</sup>, HU Ai-qun<sup>1,2</sup>, XING Fu-wu<sup>1\*</sup>, WU Yuan-kun<sup>3</sup>, LIU Song-yun<sup>3</sup>

(1. South China Botanical Garden, the Chinese Academy of Sciences, Guangzhou 510650, China; 2. Graduate University of the Chinese Academy of Sciences, Beijing 100049, China; 3. Nanling Zhongheng Ecotourism Development Co., Ltd., Shaoguan 512727, China)

**Abstract:** One newly recorded genus *Tsaiorchis* and five newly recorded species including *Gastrochilus nanus*, *Liparis krameri*, *Malaxis microtatantha*, *Thrixspermum saruwatarii* and *Tsaiorchis neottianthoides* of Orchidaceae are reported from Guangdong. All specimens are preserved in Herbarium of South China Botanical Garden, the Chinese Academy of Sciences (IBSC).

**Key words:** Flora; New records; Orchidaceae; Guangdong

Nanling National Nature Reserve, which lies on the south slope of Nanling mountains, is situated in Ruyuan, Lianxian and Yangshan Counties, northern Guangdong, at 24°39'–28°08' N and 112°41'–113°15' E, with an area of 56 300 hm<sup>2</sup>[1]. The reserve with strong montane feature is in the subtropical humid monsoon climate zone. Nanling National Nature Reserve is the heartland of subtropical evergreen broad-leaved forest in China[2]. With the altitude rising, the vegetation types of the reserve are as follows: hilly evergreen broad-leaved forest, montane evergreen broad-leaved forest, montane evergreen and deciduous broad-leaved mixed forest, montane mixed coniferous broad-leaved forest, montane elfin forest, montane

bushes and grassland[3].

Nanling National Nature Reserve is diverse in orchids. Here we present 1 newly recorded genus and 5 newly recorded species of Orchidaceae from Guangdong Province.

1. *Gastrochilus nanus* Z. H. Tsi in J. Arn. Arbor. **70**: 122, fig. 2. 1990; Z. H. Tsi in Guihaia **16**(2):145. 1996.

Specimen collected: H. Z. Tian 558, 2006. 8. 12, Guangdong Nanling National Nature Reserve, Ruyuan, Jigongkeng. Alt: 1 400 m. On the trunk.

Distribution: Fanjin Mountain, northeast Guizhou. Alt: 1 000 m, on the trunk [4]. New record to Guangdong.

Received: 2006-08-24 Accepted: 2006-11-22

Foundation item: Supported by Kadoorie Farm & Botanic Garden Biodiversity Studentship

\* Corresponding author

**2. *Liparis krameri*** Franch. et Savat., Enum. Pl. Jap. **2**: 509. 1879; Ohwi, Fl. Japan (Engl. ed.) 347. 1965; — *Leptorchis krameri* (Franch. et Savat.) Kuntze, Rev. Gen. Pl. **2**:671. 1891. — *Liparis krameri* Franch. et Savat. var. *viridis* Makino in J. Jap. Bot. **3**: 21. 1926.

Specimen collected: H. Z. Tian 516, 2006. 4. 19, Guangdong Nanling National Nature Reserve, Ruyuan, Jigongkeng. Alt: 1 450 m. A. Q. Hu 49, 2006. 4. 18, Guangdong Nanling National Nature Reserve, Ruyuan, Qinshui valley. Alt: 750 m. On wet rock at the north slope.

Distribution: Southwest Hubei, Xuanen; Japan, Korea Peninsula. The type specimen was collected from Japan<sup>[5]</sup>. New record to Guangdong.

**3. *Malaxis microtatantha*** (Schltr.) T. Tang et F. T. Wang in Acta Phytotax. **1**(1):72. 1951. — *Microstylis microtatantha* Schltr. in Fedde Repert. Sp. Nov. Beih. **4**:192. 1919. — *Microstylis minutiflora* Rolfe ex Dunn in J. Linn. Soc. Bot. **38**:367. 1908, non Schltr. (1899). — *Microstylis pusilla* Rolfe in Orch. Rev. **19**:229. 1911. — *Malaxis tairukouensis* S. S. Ying, Col. Illustr. Indig. Orch. Taiwan **2**:268. 1990.

Specimen collected: H. Z. Tian 422, 2006. 4. 18, Guangdong Nanling National Nature Reserve, Ruyuan, Qinshui valley. Alt: 700 m; A. Q. Hu 44, 2006. 4. 18. The same place.

Distribution: south Anhui<sup>[6]</sup>; Donggu, median Jiangxi, Wuyi Mountain, Yongfu, Lianjiang, Fujian, and Tailuge, east Taiwan. Alt: 200–600 m, under the forests and on the wet rock. The type specimen was collected from Yongfu, Fujian Province<sup>[5]</sup>. New record to Guangdong.

**4. *Thrixspermum saruwatarii*** (Hayata) Schltr. in Fedde Repert. Sp. Nov. Beih. **4**:275. 1919. — *Sarcochilus saruwatarii* Hayata, Icon. Pl. Formos. **6**:84, fig. 18. 1916. — *S. laurisilvaticum* Fukuyama in Bot. Mag. Tokyo **52**:246. 1938. — *Thrixspermum xanthanthum* Tuyama in J. Jap. Bot. **16**:523. 1940. — *T. laurisilvaticum* (Fukuyama) Garay in Native Orchids of Taiwan **2**:312–314. 1977. — *T. laurisilvaticum* (Fukuyama) T. S. Liu et H. J. Su in Chung-san Encycl. Nat. Sci. Bot. **8**:898. 1972. — *T. laurisilvaticum* (Fukuyama) S. S.

Ying in Bull. Exper. Forest Nat. Taiwan Univ. **114**: 157. 1974. — *T. laurisilvaticum* (Fukuyama) S. Y. Hu in Quart. J. Taiwan Mus. **28** (1, 2): 171. 1975.

Specimen collected: H. Z. Tian 389, 2006. 4. 8, Guangdong Nanling National Nature Reserve, Longtanjiao, Fenghuangkeng. Alt: 1 100 m. A. Q. Hu 52, 2006. 4. 16, Guangdong Nanling National Nature Reserve, Ruyuan, waterfalls. Alt: 780 m.

Distribution: north Fujian, Hunan and Taiwan. Alt: below 2 800 m, on the trunk. The type specimen was collected from Taiwan<sup>[4]</sup>. New record to Guangdong.

**5. *Tsaiorchis neottianthoides*** T. Tang et F. T. Wang in Bull. Fan Mem. Inst. Boil. Bot. **7**:133. 1936.

Specimen collected: H. Z. Tian 410, 2006. 4. 16, Guangdong Nanling National Nature Reserve, Ruyuan, waterfalls. Alt: 960 m. At the west wet slope.

Distribution: Yunnan Pingbian, Guangxi Jinxiu Dayao Mountain, Shanglin Daming Mountain<sup>[7]</sup>. New record to Guangdong.

*Tsaiorchis* is endemic to China. Newly recorded genus to Guangdong.

**Acknowledgments** We thank the staff of Nanling National Nature Reserve for their help in field work.

## References

- [1] Pang X F. Studies on Biodiversity of the Guangdong Nanling National Nature Reserve [M]. Guangzhou: Guangdong Science & Technology Press, 2003:1.
- [2] Chen X M, Li Z K, Feng Z J, et al. Floristic analysis on the seed plants of Nanling National Nature Reserve [J]. J South China Agric Univ, 1999, 20(1):97–102.
- [3] Chen T, Zhang H D. The floristic geography of Nanling Mountain range, China. I. Floristic composition and characteristics [J]. J Trop Subtrop Bot, 1994, 2(1):10–23.
- [4] Ji Z H, Chen S C, Luo Y B, et al. Flora Reipublicae Popularis Sinicae, Tomus 19 [M]. Beijing: Science Press, 1999:1–473. (in Chinese)
- [5] Chen S C, Ji Z H, Lang K Y, et al. Flora Reipublicae Popularis Sinicae, Tomus 18 [M]. Beijing: Science Press, 1999:1–463. (in Chinese)
- [6] Fu L G, Chen T Q, Lang K Y, et al. Higher Plants of China Vol 13 [M]. Qingdao: Qingdao Publishing Press, 1999:552.
- [7] Lang K Y, Chen S C, Luo Y B, et al. Flora Reipublicae Popularis Sinicae, Tomus 17 [M]. Beijing: Science Press, 1999:1–551. (in Chinese)