

**39. TSAIORCHIS** Tang & F. T. Wang, Bull. Fan Mem. Inst. Biol. Bot. 7: 131. 1936.

长喙兰属 *chang hui lan shu*

Chen Xinqi (陈心启 *Chen Sing-chi*); Stephan W. Gale, Phillip J. Cribb

Herbs, terrestrial, slender. Tubers spreading horizontally, slender, fleshy. Stem erect, terete, glabrous, with (1 or)2 or 3 basal leaves. Leaves ovate-oblong to oblong-elliptic, base attenuate into short petiole-like sheath. Inflorescence terminal, racemose, with a few secund flowers; floral bracts nearly as long as ovary. Flowers resupinate, small; ovary twisted, cylindric-fusiform, glabrous; sepals and petals free, spreading, subequal in size; lip spreading, 3-lobed near middle, base adnate to column, spurred; spur shorter than ovary; anther erect, sessile, oblong, apex aristate, 2-locular; locules parallel, not protruding at base; pollinia 2, granular-farinaceous, sectile; caudicles very short, attached to a common viscidium; viscidium narrowly oblong-elliptic, enclosed in a chamber formed by lip and column; rostellum flattened, elongate, canaliculate, beaklike, slightly exceeding anther, 1-toothed on either side at middle, basal half entirely united with column; stigma lobes 2, separate, linear; lateral appendages 2, elongate, positioned on either side of anther base, exceeding anther.

- One species: China.

A genus distinguished by its long, bidentate rostellum and 2-lobed stigma, its placement remains a matter of contention. The nature of the column has been thought to affiliate the genus with *Gymnadenia* and *Neottianthe* (Bull. Fan Mem. Inst. Biol. Bot. 7: 133. 1936); however, *Tsaiorchis* has also been considered congeneric with *Diphylax* (Pridgeon et al., Gen. Orchid. 2: 284–286. 2001).

**1. *Tsaiorchis neottianthoides*** Tang & F. T. Wang, Bull. Fan Mem. Inst. Biol. Bot. 7: 133. 1936.

长喙兰 *chang hui lan*

Plants 6–10 cm tall. Leaves 3–7 × 1–3.5 cm, 7-veined, apex acute. Rachis 1.5–2 cm, with 5–7 secund flowers; floral bracts ovate, apex acuminate. Flowers pale purple to pink; ovary ca. 5.5 mm including pedicel. Dorsal sepal oblong-elliptic, ca. 4.5 mm, 1-veined, apex acute; lateral sepals narrowly oblong, oblique, ca. 4 mm, 1-veined, apex acute. Petals

obliquely elliptic, ca. 3.8 mm, 1-veined, apex obtuse; lip oblong-ovate, ca. 6 × 3 mm, 3-lobed; disk densely papillose; lateral lobes subelliptic, falcate, ca. 1.5 mm; mid-lobe subobovate, slightly longer than lateral lobes, apex emarginate; spur narrowly obovoid to subcylindric, ca. 2.8 × 1.5 mm, apex obtuse. Column ca. 2 mm; rostellum laterally compressed, elongate, canaliculate, bifid at apex. Fl. Aug–Sep.

- Dense forests, valleys; ca. 1500 m. C and E Guangxi, SE Yunnan.

