

**45. FRIGIDORCHIS** Z. J. Liu & S. C. Chen, J. Fairylake Bot. Gard. 6(3): 14. 2007.

冷兰属 *leng lan shu*

Chen Xinqi (陈心启 *Chen Sing-chi*); Stephan W. Gale

Herbs terrestrial, small. Tubers rather large. Stem very short. Leaves basal, ovate-elliptic to ovate-lanceolate, base petiolate; petioles enclosed in tubular sheaths forming a pseudostem. Inflorescence ebracteate, ± broadly corymbose, 1–8-flowered; each flower at end of a peduncle, and all peduncles fused with each other in lower part. Flowers resupinate, small, often not fully opening. Sepals and petals free; sepals slightly larger than petals; lip fleshy, spurred, 3-lobed toward base; lateral lobes small; mid-lobe much larger; spur ellipsoidal. Column short; anther erect, with 2 divergent locules; pollinia 2, granular-farinaceous, sectile, each attached to a viscidium; caudicle inconspicuous; viscidium large, naked, attached to both sides of rostellum arms; rostellum shortly armed; stigmas 2, separate, just below rostellum arms, shortly clavate; staminodes 2.

• One species: China.

**1. *Frigidorchis humidicola*** (K. Y. Lang & D. S. Deng) Z. J. Liu & S. C. Chen, J. Fairylake Bot. Gard. 6(3): 17. 2007.

冷兰 *leng lan*

*Peristylus humidicola* K. Y. Lang & D. S. Deng, Novon 6: 190. 1996; *Bhutanthera humidicola* (K. Y. Lang & D. S. Deng) Ormerod.

Plants 3–4 cm tall. Tuber somewhat calabash-shaped, 1.2–1.5 cm × 6–8 mm. Stem 1–2 mm thick. Leaves 2 or 3, nearly tufted, ovate-elliptic to ovate-lanceolate, slightly concave, 1.5–3.3 × 1–3 cm, base contracted into a petiole, apex acute; petioles enclosed by 2 tubular sheaths forming a pseudostem 8–12 mm. Inflorescence short, scarcely exceeding leaves, ± broadly corymbose, 1–8-flowered. Flowers green-yellow; sepals white margined apically; petals and lip becoming deep purple after pollination; pedicel 3–5 mm; ovary 4–6 mm. Dorsal sepal sub-orbicular, 3–4.5 mm, margin denticulate toward apex; lateral

sepals ovate-elliptic, slightly longer than dorsal sepal. Petals orbicular, 2–2.5 mm, fleshy, apex rounded-obtuse; lip 3–3.5 mm, fleshy, spurred, 3-lobed toward its base; lateral lobes triangular, small; mid-lobe ligulate-linear, 2–2.7 mm; spur 1–2 × 0.5–1 mm, rounded-obtuse at end. Fl. Aug.

• Sides of tall sedge tussocks, soil-covered rocks in swampy meadows; 3600–4500 m. SE Qinghai.

