Pholidota niana (Orchidaceae), a new species from southeastern Yunnan, China

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Pholidota niana Y.T.Liu, R.Li & C.L.Long, a new species of the Orchidaceae (Orchidoideae) from southeastern Yunnan Province, China, is described and illustrated. The differences and similarities between *P. niana* and the closely related *P. longipes* S.C.Chen & Z.H.Tsi are discussed.

Key words: Orchidaceae, *Pholidota niana*, taxonomy, Yunnan

Pholidota is comprised of about 30 species with a distribution area from tropical Asia to tropical Australia (Wu 1991). In China, *Pholidota* has 14 species recorded from the southwest, south, and east of continental China, as well as from Taiwan (Chen 1999).

During the winter of 2001, a botanical expedition was carried out in Xichou County, southeast Yunnan Province, to study the flora of limestone mountains. In this expedition, we found one species with morphological features that suggested it represented an undescribed taxon in the genus *Pholidota*. After a closer morphological study, literature researches (Hooker 1890, Chen 1983, 1999, Chen et al. 1998, 1999), and examination of numerous pertinent specimens (including those in PE and KUN), this was confirmed.

**Pholidota niana** Y.T.Liu, R.Li & C.L.Long, *sp. nova* (Fig. 1)

*Herba affinis P. longipei, sed folio subsessili vel petiolo 4–8 mm, inflorescentia 7–17 floribus, sepalo 3 venis, labio maculis flavis differt.*

*Type:* China, Yunnan Province, Wenshan Prefecture, Xichou County, Dongzongcao, alt. 1340 m, epiphytic on rocks in forests, 22.XII.2001 Chen Yu 14119 (holotype KUN).

An epiphytic plant with a stout rhizome 5–8 mm thick. Pseudobulbs closely spaced, cylindric, slightly narrowed towards top, 8–11 cm long, 7–10 mm broad near base, channelled, 2-leaved at apex. Leaves narrowly elliptic-lanceolate,
chartaceous, 8–16 cm long, 2–3.5 cm broad, long-acuminate at apex, many-veined, attenuate at base, subsessile or shortly petioled, with petiole 4–8 mm long. Scape arising from top of a young pseudobulb, at base with young leaves enclosed in sheaths, 6–15 cm long; raceme 7- to 17-flowered; bracts ovate, concave, 5–7 mm long, 4–5 mm broad, persistent; pedicel and ovary 8–10 mm long; flowers white, scented; dorsal sepal elliptic, 1.1–1.2 cm long, 5 mm broad, concave, cymbiform, dorsally carinate, with 3 veins, mucronate at apex; lateral sepals ovate-lanceolate, similar to dorsal sepal in size, acuminate at apex; petals broadly elliptic, slightly shorter than sepals, mucronate at apex, obscurely 3- to 5-veined; lip ca. 1 cm long, 4 mm broad, concave-saccate in basal half and with 5 veins inside; apical half subobovate with yellow spots inside, mucronate at apex; column broad, 3 mm long, winged along both sides; wing 1 mm
Pholidota niana is closely related to P. longipes S.C.Chen & Z.H.Tsi, differing mainly in having subsessile leaves or leaves with a short petiole 4–8 mm long, 7- to 17-flowered inflorescences, 3-veined sepals, and a yellow-spotted lip.

The new species is named after Su-bi Ni, a botanist and horticulturist at the Kunming Institute of Botany, Chinese Academy of Sciences, for her contributions to orchidology.

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References