

### 33. SMITHORCHIS Tang & F. T. Wang, Bull. Fan Mem. Inst. Biol. Bot. 7: 139. 1936.

反唇兰属 fan chun lan shu

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Herbs, terrestrial, small. Rhizome creeping, slender, fleshy, neck with several slender roots. Stem erect, glabrous, 2–4-leaved. Leaves cauline, narrowly lanceolate. Inflorescence a terminal raceme, up to 10-flowered. Flowers not resupinate, small; ovary twisted, fusiform. Sepals free, similar, subequal in size. Petals smaller than sepals; lip slipper-shaped, entire, base saccate-spurred. Column short, with 2 lateral appendages; anther sessile, hooded, erect, with 2 nearly parallel and contiguous locules; rostellum and stigma combined into a solitary orbicular structure at posterior margin of anther; pollinia 2, granular-farinaceous, sectile, attached via very short caudicles to orbicular viscidia.

- One species: China.

This monospecific genus is distinguished from its closest allies *Herminium* and *Diphylax* by its long creeping rhizome, non-resupinate flowers, and undifferentiated rostellum.

**1. *Smithorchis calceoliformis*** (W. W. Smith) Tang & F. T. Wang, Bull. Fan Mem. Inst. Biol. Bot. 7: 140. 1936.

反唇兰 fan chun lan

*Herminium calceoliforme* W. W. Smith, Notes Roy. Bot. Gard. Edinburgh 13: 211. 1921.

Plants 5–10 cm tall. Stem with 2 or 3 tubular sheaths at base. Leaves spreading, narrowly lanceolate, ca. 20 × 4 mm, base contracted into an amplexicaul sheath, apex acute or acu-

minate. Inflorescence 7-flowered; rachis ca. 1.5 cm; floral bracts lanceolate, slightly longer than ovary, margin denticulate. Flowers fragrant, deep yellow; ovary and pedicel ca. 3 mm. Sepals similar, membranous, 1-veined; dorsal sepal obovate, ca. 1 × 0.7 mm, apex obtuse; lateral sepals spreading, oblong-ovate, oblique, ca. 1.5 × 1 mm, apex subacute. Petals spreading, rhombic-ovate, smaller than sepals, slightly fleshy, 1-veined, apex obtuse; lip ca. 1.5 mm, fleshy, much thicker than sepals, saccate-spurred at base; rostellum and stigma undifferentiated.

- Open alpine grasslands; 3200–4000 m. NW Yunnan.

