

160. POMATOCALPA Breda, Gen. Sp. Orchid. Asclep. [fasc. 3: text p. 1, t. 1]. 1829.

鹿角兰属 lu jiao lan shu

Chen Xinqi (陈心启 Chen Sing-chi); Jeffrey J. Wood

Herbs, epiphytic, monopodial, small to medium-sized. Stems pendulous or ascending, sometimes climbing, short or elongate, with a few to many nodes. Leaves several to many, distichous, narrowly oblong, flat, leathery, with sheathing base, usually unequally bilobed or retuse. Inflorescences lateral, paniculate or racemose, pendulous or ascending, many flowered; peduncle long. Flowers resupinate or not, usually opening widely, small. Sepals and petals free, similar, spreading. Lip firmly attached to column, immovable, fleshy, shortly spurred or saccate, 3-lobed; lateral lobes erect, deltoid, small; mid-lobe often recurved, usually suborbicular or ovate-triangular, fleshy; front wall fleshy, thickened, back wall with a projecting, erect, bifurcate, ligulate appendage reaching or exerted beyond entrance. Column short, stout, foot absent; anther cap shortly beaked; rostellum large, hamulate, ± bifid, shorter than diam. of column; pollinia 4, as 2 discrete unequal pollen masses, waxy, subglobose, with a long common stipe and a solitary small, usually concave viscidium.

Thirteen species: from India through Malesia and N Australia to Fiji, north to NE Himalayas and Taiwan; two species in China.

See the treatment by Watthana (Harvard Pap. Bot. 11: 207–256. 2007).

- 1a. Floral bracts acuminate; lip mid-lobe narrower than spur; inflorescence usually longer than 4 cm 1. *P. spicatum*
- 1b. Floral bracts acute; lip mid-lobe equal to or wider than spur; inflorescence shorter than 4 cm 2. *P. undulatum*

1. Pomatocalpa spicatum Breda, Gen. Sp. Orchid. Asclep. [fasc. 3: text p. 1, t. 1]. 1829.

鹿角兰 lu jiao lan

Cleisostoma uteriferum J. D. Hooker; *C. wendlendorum* H. G. Reichenbach; *Pomatocalpa wendlendorum* (H. G. Reichenbach) J. J. Smith; *Saccolabium uteriferum* (J. D. Hooker) Ridley; *S. wendlendorum* (H. G. Reichenbach) Kraenzlin.

Stems erect, 2–3 cm, stout. Leaves 5 or 6; leaf blade dark green, broadly lorate or falcate-oblong, 20–31 × 2.5–3.5 cm, leathery, margin ± undulate, apex unequally bilobed. Inflorescences 2 or 3, lateral, pendulous, 3.5–6 cm, unbranched and racemose or occasionally with 1 or 2 branches; rachis fleshy, ribbed, densely many flowered; floral bracts reflexed, broadly ovate-triangular, ca. 1 mm, acute, often adnate to rachis. Flowers waxy yellow, rather fleshy, dorsal sepal with 2 brown bands at base, lateral sepals with U-shaped brown spots at base and with 2 brown bands above middle, petals with 2 brown bands at base; pedicel and ovary ca. 2.5 mm. Dorsal sepal obovate, ca. 5 × 2 mm, apex rounded; lateral sepals incurved, slightly obliquely obovate, ca. 4.5 × 2.5 mm, obtuse-rounded. Petals obovate-elliptic, ca. 3 × 1.8 mm, obtuse; lip spurred at base, 3-lobed; lateral lobes erect, ovate; mid-lobe reniform-triangular or subrhombic, ca. 1.5 × 1.5 mm, fleshy, apex obtuse; spur subglobose, ca. 2 × 2 mm, inside with a ligulate bilobed-tipped appendage on back wall and a pair of calli near base of disk. Column ca. 2 mm; rostellum ovate-triangular, ca. 0.4 mm; stipe ca. 1.2 mm, narrow; viscidium ca. 0.5 mm, subelliptic, one end broadly emarginate. Fl. Apr. $2n = 38$.

Epiphytic on tree trunks in forests. S and W Hainan [Bhutan, India (including Andaman Islands), Indonesia, Laos, Malaysia, Myanmar, Philippines, Sri Lanka, Thailand, Vietnam].

2. Pomatocalpa undulatum (Lindley) J. J. Smith subsp. **acuminatum** (Rolfe) S. Watthana & S. W. Chung, Harvard Pap. Bot. 11: 249. 2007.

台湾鹿角兰 tai wan lu jiao lan

Cleisostoma acuminatum Rolfe, Bull. Misc. Inform. Kew 1913: 144. 1913; *C. brachybotryum* Hayata; *Pomatocalpa acuminatum* (Rolfe) Schlechter; *P. brachybotryum* (Hayata) Schlechter.

Stems 2–3 cm, 3–7-leaved. Leaf blade linear-lorate, 11–21 × 1.3–2.4 cm, leathery, conduplicate toward base, unequally bilobed. Inflorescences lateral, condensed-racemose, globose in outline, 1.3–4 cm, densely many flowered; floral bracts broadly triangular, 1.8–2.7 mm. Flowers ca. 8 mm in diam., fleshy, sepals and petals brownish yellow, sepals with 2 reddish brown transverse bands, petals with reddish brown patches near base, lip lateral lobes yellow, mid-lobe white, spur yellow; pedicel and ovary 4–8 mm. Sepals similar, suboblong, obtuse; dorsal sepal 3.7–4.5 × 1.5–2 mm; lateral sepals 3.5–4.2 × 2.1–2.4 mm. Petals incurved, falcate-oblong, 3.2–3.9 × ca. 1.3 mm, base contracted, apex obtuse; lip spurred at base, 3-lobed; lateral lobes erect, deltoid, 1.2–1.3 × 0.4–0.5 mm; mid-lobe broadly triangular or suborbicular, 2.2–3 × 2.2–3.3 mm, base with 2 keels, apex subacute; spur saccate, dorsiventrally compressed, 3.3–4 × 2–3 mm, inside with an appendage on back wall covering its entrance. Column 0.9–1.2 mm; anther cap beaked at apex. Fl. Mar–Apr.

- Epiphytic on tree trunks in forests; ca. 800 m. S Taiwan.

Pomatocalpa undulatum subsp. *undulatum*, from Bangladesh and NE India, is distinguished by the floral bracts, which are 0.4–0.5 mm, and the relatively small flowers with dorsal sepal ca. 3.5 mm and spur 1.8–2.3 mm.

