

**150. VANDOPSIS** Pfitzer in Engler & Prantl, Nat. Pflanzenfam. 2(6): 210. 1889.

拟万代兰属 ni wan dai lan shu

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

*Fieldia* Gaudichaud, Voy. Uranie, Bot. 424. 1829, not A. Cunningham (1825).

Herbs, epiphytic, lithophytic, or terrestrial, monopodial. Stems decumbent or pendulous, elongate, stout, rigid, sometimes branched, many leaved. Leaves distichous, flat, leathery, jointed. Inflorescences axillary, suberect or pendulous, racemose, long or short, rarely shortly branched, many flowered. Flowers resupinate, flat, medium-sized to large, fleshy. Sepals and petals similar, spreading; lip smaller than petals, firmly adnate to column, geniculate bent, ± channeled or gibbous at base, 3-lobed; lateral lobes often small; mid-lobe laterally flattened, rather long, fleshy, adaxially usually longitudinally ridged or keeled. Column short, stout, foot absent; rostellum inconspicuous; pollinia waxy, 2, in unequal pairs, deeply grooved, sessile; stipe broadly oblong; viscidium transverse, prominent.

About five species: India, China, mainland SE Asia, the Philippines, the Malay Archipelago to New Guinea; two species in China.

- 1a. Stems branching, less than 1 cm in diam.; leaves ca. 12 cm, leathery, basal sheaths verrucose; flowers thinly textured ..... 1. *V. undulata*  
1b. Stems unbranched, more than 2 cm in diam.; leaves more than 40 cm, fleshy or thickly leathery, basal sheaths glabrous; flowers thickly textured ..... 2. *V. gigantea*

**1. *Vandopsis undulata*** (Lindley) J. J. Smith, Natuurk. Tijdschr. Ned.-Indië 72: 77. 1912.

白花拟万代兰 bai hua ni wan dai lan

*Vanda undulata* Lindley, J. Proc. Linn. Soc., Bot. 3: 42. 1858; *Stauropsis polyantha* W. W. Smith; *S. undulatus* (Lindley) Benthham ex J. D. Hooker.

Stems ascending or pendulous, cylindrical, to 1 m, 6–8 mm in diam., rigid, branching, many noded, internodes 2.5–4 cm. Leaves oblong, 9–12 × 1.5–2.5 cm, leathery, obtuse, unequally bilobed; basal sheaths persistent and amplexicaul, verrucose. Inflorescence to 50 cm, usually with a few branches, laxly few flowered; peduncle and rachis stout; floral bracts green, broadly ovate, 6–8 mm, obtuse. Flowers fragrant, 3–3.6 cm in diam.; sepals and petals white, lip yellow to white at apex, lemon-yellow with purple-red basal striations, anther cap yellow; pedicel and ovary ca. 2.7 cm, white. Dorsal sepal subobovate, 2.5–4 × 0.8–1.2 cm, base clawed, margin crisped, apex obtuse; lateral sepals slightly recurved, ovate-lanceolate, 2.4–4 × 1.2–1.4 cm, margin crisped, apex subacuminate. Petals slightly recurved, similar to sepals but smaller, margin undulate, apex obtuse; lip shorter than petals, 3-lobed; lateral lobes erect, ± embracing column, subovate-triangular, ca. 5 mm, acute; mid-lobe laterally compressed, spatulate, ca. 6 × 5 mm, concave, truncate; disk with 2 ridges from base. Column ca. 4 mm; anther cap subglobose; stipe sublanceolate, ca. 2 mm; viscidium subsensiform, wider than stipe, thick. Fl. May–Jun.  $2n = 38$ .

Epiphytic on tree trunks in forests or lithophytic on rocks on shrubby slopes; 1500–2300 m. SE Xizang, S and W Yunnan [Bhutan, NE and NW India, Nepal].

**2. *Vandopsis gigantea*** (Lindley) Pfitzer in Engler & Prantl, Nat. Pflanzenfam. 2(6): 210. 1889.

拟万代兰 ni wan dai lan

*Vanda gigantea* Lindley, Gen. Sp. Orchid. Pl. 215. 1833; *Fieldia gigantea* (Lindley) H. G. Reichenbach; *Stauropsis chinensis* Rolfe; *S. gigantea* (Lindley) Benthham ex Pfitzer; *Vandopsis chinensis* (Rolfe) Schlechter.

Plants large. Stems 30 cm or longer, to 5 cm in diam., stout, many leaved. Leaves recurved, broadly lorate, 40–50 × 5.5–7.5 cm, fleshy, obtuse, unequally bilobed; basal sheaths persistent and amplexicaul. Inflorescences often 1 or 2, to 33 cm; peduncle and rachis 8–10 mm in diam., slightly fleshy, with 2 or 3 broadly ovate-triangular sheaths; raceme nodding, densely many flowered; floral bracts broadly ovate, 5–8 mm, rather fleshy. Flowers fleshy, opening widely, golden yellow, spotted with reddish brown, column white, with 2 purple spots on both apical sides, anther cap pale yellow; pedicel and ovary yellowish green, 1.5–2 cm, stout. Dorsal sepal obovate-oblong, 2.5–3 × ca. 1 cm, obtuse; lateral sepals subelliptic-rhombic, ca. as large as dorsal sepal, abaxially thickened and swollen toward apical midvein. Petals obovate-oblong, smaller than dorsal sepal, obtuse; lip 1.6–1.9 cm, 3-lobed; lateral lobes subobovate, ca. 5 × 3 mm, obtuse; mid-lobe spreading, slightly laterally flattened, long and narrow, ca. 1.3 cm, adaxially with a central longitudinal keel thickened and triangular in basal half, crescent-shaped in apical half. Column ca. 4 mm, stout. Fl. Mar–Apr.  $2n = 38$ .

Epiphytic on tree trunks in open forests or at forest margins; 800–1700 m. S Guangxi, S Yunnan [Laos, Malaysia (Peninsular), Myanmar, Thailand, Vietnam].

