

145. TAENIOPHYLLUM Blume, Bijdr. 355. 1825.

带叶兰属 dai ye lan shu

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

Herbs, epiphytic or lithophytic, monopodial, small. Roots radiate, appressed to tree trunk or branch, green and photosynthetic in rainy season, whitish or grayish in dry season, flattened or terete, rather long and stout. Stems short, nearly invisible. Leaves absent or reduced to tiny brown scales. Inflorescences lateral, short; rachis slowly elongating, with flowers opening in succession 1 or 2 at a time; floral bracts persistent, alternate. Flowers usually lasting only a day, small. Sepals and petals free and widely spreading or connate at base or below middle into a tube. Lip entire or 3-lobed, attached to base of column, spurred or saccate, often with an apical reflexed tooth or bristle; spur globose to cylindric. Column short, stout, footless; rostellar projection variable; anther cap terminal, often beaked; pollinia 4, waxy, subglobose, equal, separate from each other, with a common stipe and an oblong or elliptic viscidium.

Between 120 and 180 species: tropical Africa through tropical Asia to Australia and the Pacific islands; three species (one endemic) in China.

- 1a. Sepals and petals free; lip white 3. *T. pusillum*
- 1b. Sepals and petals ± connate in basal half forming a tube; lip green or yellow-green.
 - 2a. Roots subterete or slightly flattened; spur pouch-shaped 1. *T. glandulosum*
 - 2b. Roots strongly flattened; spur subglobose 2. *T. complanatum*

1. *Taeniophyllum glandulosum* Blume, Bijdr. 356. 1825.

带叶兰 dai ye lan

Sarcochilus aphyllus Makino; *Taeniophyllum aphyllum* (Makino) Makino; *T. chitouense* S. S. Ying.

Roots spreading and spiderlike on substrate, well developed, subterete or slightly flattened, 2–10 cm or longer, 1–1.5 mm in diam. Inflorescences 1–4, erect, 5–10(–20) mm; peduncle and rachis yellowish green, 0.2–0.3 mm in diam.; rachis 1–4-flowered; floral bracts distichous, ovate-lanceolate, 0.7–1 mm, thickly textured. Flowers yellowish green, very small; pedicel and ovary 1.5–2 mm. Sepals and petals connate below middle forming a tube 1–1.5 mm; apical lobes of sepals slightly recurved, ovate-lanceolate, 1.5–2 × ca. 1.2 mm, dorsally slightly carinate, acute. Petals ovate, 1.2–1.8 × ca. 1.1 mm, acute; lip ovate-navicular, 1.7–2.5 × 0.6–0.9 mm, margin incurved, apex acuminate, with a retrorse elongate spinelike appendage, base with a fleshy septum at entrance of spur; spur pouch-shaped, 1–1.5 × ca. 1 mm, rounded. Column ca. 0.5 mm, stelia ca. 0.5 mm. Capsule ellipsoid-cylindric, ca. 4 × 2 mm. Fl. and fr. Apr–Aug. 2n = 38.

Epiphytic on tree trunks in forests; 400–1100 m. N Fujian, Guangdong, Hainan, Hunan, NE Sichuan, C and S Taiwan, S Yunnan [India (Sikkim), Indonesia, Japan, Korea, Malaysia, New Guinea, Thailand, Vietnam; Australia].

2. *Taeniophyllum complanatum* Fukuyama, Bot. Mag. (Tokyo) 49: 443. 1935.

扁根带叶兰 bian gen dai ye lan

Taeniophyllum crassipes Fukuyama.

Roots strongly flattened, 3–10 cm, 2–5 mm wide. Inflorescence suberect, 1–4 cm; peduncle and rachis green, slender; rachis 3–10-flowered; floral bracts triangular, very small. Flowers green; pedicel and ovary ca. 3 mm. Sepals and petals connate at base forming a tube 0.8–1 mm; lobes of sepals oblong-ovate, 2–2.2 × ca. 0.5 mm, slightly reflexed at apex. Petals smaller, base clawed; lip ovate-triangular, 2–3 mm, entire, with a small introrse apical linear appendage, base with retrorse square septum over spur entrance; spur subglobose, ca. 1 mm.

Column short, stelia rounded. Capsule cylindric, ca. 1 cm × 1.5 mm. Fl. and fr. unknown.

• C and S Taiwan.

3. *Taeniophyllum pusillum* (Willdenow) Seidenfaden & Ormerod in Seidenfaden, Descr. Epidendrorum J. G. König 1791, 23. 1995.

兜唇带叶兰 dou chun dai ye lan

Limodorum pusillum Willdenow, Sp. Pl. 4: 126. 1805; *Chiloschista pusilla* (Willdenow) Schlechter; *Taeniophyllum obtusum* Blume.

Roots spreading, flat, to 20 cm, 2–3 mm in diam. Inflorescence suberect, 4–10 mm; peduncle and rachis ca. 0.4 mm in diam.; rachis 1–3-flowered; floral bracts distichous, broadly ovate-triangular, ca. 1.5 mm, abaxially scabrous, apex acute. Flowers opening widely, slightly fleshy; sepals and petals yellow, lip white, spur apex pale yellow; pedicel and ovary 0.5–0.6 mm. Sepals free, ovate, 2.9–3 × 1.2–1.3 mm, without distinct veins, apex obtuse; lateral sepals dorsally carinate. Petals oblong, ca. 2.5 × 0.6 mm, 1-veined, margin sometimes slightly irregularly incised, apex subacute; lip cymbiform, broadly ovate-triangular, ca. 2.5 × 2 mm, very fleshy, adaxially with sparse papillate hairs at base, apex obtuse; spur cylindric, slightly dorsiventrally compressed, ca. 2 × 1 mm, obtuse. Column ca. 1 mm. Capsule cylindric, ca. 10 × 3 mm. Fl. and fr. Mar–May.

Epiphytic on tree trunks at forest margins; 700–1200 m. S Yunnan [Cambodia, Indonesia, Malaysia, Singapore, Thailand, Vietnam].

