

169. CHILOSCHISTA Lindley, Edwards's Bot. Reg. 18: ad t. 1522. 1832.

异型兰属 *yi xing lan shu*

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

Herbs, epiphytic or lithophytic, monopodial, usually stemless and leafless. Roots green, photosynthetic, flat, scabrid. Inflorescence often pendulous, racemose, hairy or glabrous. Flowers ephemeral. Sepals and petals subequal; lateral sepals and petals often adnate to column foot. Lip \pm clawed, hinged to apex of column foot, pouched or spurred, 3-lobed; lateral lobes erect, large; mid-lobe small; disk with a fingerlike callus, hirsute-pubescent. Column subterete, short, foot long; clinandrium shallow; stigma deep-set; rostellum deflexed, bifid; anther cap with 2 long filiform setae; pollinia 4, in 2 closely appressed, unequal, sessile pairs; stipe sublinear.

About ten species: from the Indian subcontinent through SE Asia to Australia; three species (all endemic) in China.

- 1a. Sepals and petals densely pubescent abaxially; inflorescences to 26 cm 1. *C. yunnanensis*
1b. Sepals and petals nearly glabrous or only sparsely pubescent abaxially; inflorescences 1.5–15 cm.
2a. Mid-lobe of lip conspicuous, much longer than lateral lobes 2. *C. guangdongensis*
2b. Mid-lobe of lip very small, much shorter than lateral lobes 3. *C. segawae*

1. *Chiloschista yunnanensis* Schlechter, Repert. Spec. Nov. Regni Veg. Beih. 4: 74. 1919.

异型兰 *yi xing lan*

Stems inconspicuous, usually leafless at least at anthesis. Inflorescences 1 or 2, pendulous, green and spotted with purple, to 26 cm, unbranched, densely pubescent, sparsely many flowered; floral bracts ovate-lanceolate, 3–4 mm, membranous, abaxially sparsely hairy. Flowers opening widely, yellowish or yellowish greenish, marked with brownish in basal half, column

whitish, anther cap whitish or yellow; pedicel and ovary ca. 4 mm, densely pubescent. Sepals elliptic or ovate-elliptic, 5–7 \times 4–5 mm, rounded; mentum small but distinct. Petals suboblong, 5–7 \times 3.5–4.5 mm, subtruncate; lip 3-lobed; lateral lobes erect, narrowly oblong, ca. 4 mm, rounded; mid-lobe very short, retuse; disk concave or shallowly saccate, with a spongy appendage; appendage pale brown, V-shaped. Column very short, foot ca. 4 mm; anther cap with 2 filiform appendages on both sides. Capsule arcuate, cylindric, ca. 4 cm \times 4–5 mm. Fl. Mar–May, fr. Jul.

• Epiphytic on tree trunks at forest margins and in open forests; 700–2000 m. W Sichuan, S and SW Yunnan.

2. *Chiloschista guangdongensis* Z. H. Tsi, Acta Phytotax. Sin. 22: 481. 1984.

广东异型兰 *guang dong yi xing lan*

Stems very short, with many long flattened roots, leafless. Inflorescences 1 or 2, pendulous, racemose, laxly several flowered; rachis and peduncle 1.5–6 cm, ca. 1 mm in diam., densely pubescent; floral bracts 3–3.5 mm, ovate-lanceolate, glabrous, membranous, acute. Flowers yellow, glabrous; pedicel and ovary ca. 5 mm, densely pubescent. Dorsal sepal ovate, ca. 5 \times 3 mm, 5-veined, rounded; lateral sepals subelliptic, ca. 5 \times 3 mm, 4-veined, rounded. Petals ovate, ca. 4.5 \times 2.5 mm, 3-veined; lip 3-lobed; lateral lobes erect, suborbicular; mid-lobe ovate-triangular, nearly as large as lateral lobes, slightly concave centrally, with a spongy appendage adaxially, apex rounded. Column ca. 1.5 mm, foot ca. 3 mm; anther cap shortly beaked at apex, with 2 filiform appendages on both sides. Capsule straight, cylindric, ca. 2 cm \times 4 mm. Fl. Apr, fr. May–Jun.

• Epiphytic on tree trunks in evergreen broad-leaved forests. N Guangdong.

3. *Chiloschista segawae* (Masamune) Masamune & Fukuyama, Bot. Mag. (Tokyo) 52: 247. 1938 [*“segawai”*].

台湾异型兰 tai wan yi xing lan

Sarcophilus segawae Masamune, Trans. Nat. Hist. Soc. Formosa 24: 212. 1934 [“*segawai*”]; *Chiloschista hoi* S. S. Ying; *C. segawae* f. *taiwaniana* (S. S. Ying) S. S. Ying; *C. segawae* var. *taiwaniana* S. S. Ying.

Stems inconspicuous, leafless, with roots to 35 cm. Inflorescence often pendulous, racemose, 5–15 cm, 6–15-flowered; peduncle and rachis densely pubescent; floral bracts ovate-triangular, 3–5 mm, membranous, glabrous or sparsely pubescent. Flowers slightly fleshy, whitish green or yellow, sometimes with brownish red patches near base of sepals and petals, lateral lobes of lip striped brown; pedicel and ovary 4–5 mm, pubescent. Dorsal sepal nearly broadly elliptic, 3–5 × 2.5–4 mm, glabrous or sparsely pubescent abaxially, subobtuse; lateral sepals slightly oblique, broadly ovate or elliptic, 4.5–6 × 3.5–4 mm, sparsely pubescent near abaxial base. Petals elliptic, 4–6 × 3.5–4 mm, obtuse; lip 5–6 mm, base saccate, 3-lobed; lateral lobes erect, falcate-oblong, rounded; mid-lobe very small, thick, retuse, base with a longitudinal callus running into bottom of sac; callus bilobed, pubescent, grooved; sac 2–3 mm. Column ca. 1 mm, foot ca. 3 mm; anther cap with 2 filiform appendages on both sides. Fl. Apr–May.

- Epiphytic on tree trunks in forests; 700–1000 m. S Taiwan.

