

114. OTOCHILUS Lindley, Gen. Sp. Orchid. Pl. 35. 1830.

耳唇兰属 *er chun lan shu*

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

Tetrapeltis Wallich ex Lindley.

Herbs, epiphytic. Rhizome erect or pendulous. Pseudobulbs superposed, i.e., each pseudobulb arising near apex of previous pseudobulb, subcylindric, 2-leaved. Leaves petiolate, plicate, linear to elliptic, papery, acute. Inflorescence proteranthous or synanthous, pendulous, racemose, many flowered; rachis straight or weakly zigzag; floral bracts caducous at or after anthesis. Flowers resupinate, often white, with or without brown markings, or flesh-colored, small. Sepals free, narrowly lanceolate to linear-lanceolate. Petals linear-lanceolate to linear; lip with a saccate, bilobed hypochile and a much longer, narrow epichile, ecallose; lateral lobes of hypochile clasping base of column. Column incurved and dilated apically, without stelia, foot absent; pollinia 4, with caudicles; stigma cup-shaped; rostellum large. Capsule ellipsoid, rostrate.

Four species: Bhutan, China, NE India, Myanmar, Nepal, Thailand, and Indochina; four species in China.

- 1a. Flowers small, dorsal sepal less than 10 mm; anther cap and rostellum with a broad triangular front; floral bracts broadly obtuse.
 - 2a. Leaves linear-lanceolate; hypochile lateral lobes longer than broad, edges somewhat erose, surface smooth, united by a transverse callus or ridge at distal side of their base, nearly closing access to hypochile sac; epichile attached well below transverse ridge; sac without internal keels; column uniformly slender, cylindric 1. *O. fuscus*
 - 2b. Leaves ovate-lanceolate; hypochile lateral lobes not much longer than broad, outside finely papillose, transverse ridge absent; interior of sac with a thickened longitudinal ridge; column ventrally flattened throughout most of its length 2. *O. albus*
- 1b. Flowers larger, dorsal sepal 12–20 mm; floral bracts ovate-lanceolate, apex triangular.
 - 3a. Lip epichile ovate-lanceolate, less than 1.5–3 × as long as broad; rostellum and anther cap rostrate; disk with 3 laminate keels extending from base of hypochile to base of epichile, 2 additional short keels on base of epichile; lateral lobes acute or obliquely truncate, slightly erose 3. *O. porrectus*
 - 3b. Lip epichile narrowly lanceolate, 3–4 × as long as broad; rostellum and anther cap broadly triangular, obtuse; disk with 3 keels extending from base of hypochile which terminate ca. halfway up toward base of epichile; lateral lobes obtuse 4. *O. lancilabius*

1. *Otochilus fuscus* Lindley, Gen. Sp. Orchid. Pl. 35. 1830.

狭叶耳唇兰 *xia ye er chun lan*

Broughtonia fusca (Lindley) Wallich ex J. D. Hooker; *Coelogyne fusca* (Lindley) H. G. Reichenbach; *Otochilus lancifolius* Griffith.

Pseudobulbs pendulous, greenish yellow or slightly tinged with brown when dry, cylindric-fusiform, 2.5–10 × 0.6–1.3 cm, rugose, covered with fibrous sheaths. Leaf blade linear-lanceolate or nearly linear, 10–20 × 0.7–1.1 cm, acuminate; petiole 1.5–3 cm. Inflorescence proteranthous, suberect; peduncle ± arching, usually 12–17 cm; rachis 6–8 cm, laxly 10- to many flowered; floral bracts persistent, narrowly obovate-linear, 8–11 × 2.5–3 mm, papery, acute. Flowers fragrant, white or tinged with pale yellow, 1.4–1.6 cm in diam.; pedicel and ovary 4–7 mm, slender. Dorsal sepal oblong or nearly narrowly ovate-oblong, 7–8 × ca. 2 mm, abaxially carinate, 5-veined, obtuse; lateral sepals slightly narrower and ± oblique. Petals ca. 6.5 × 1.5 mm, 3–5-veined, midvein slightly thickened abaxially; lip 3-lobed; lateral lobes erose at apex, at distal side of their bases united by a transverse appendage, nearly closing access between mid-lobe and sac; mid-lobe narrowly elliptic to suboblong, 4.5–5.5 × ca. 1.7 mm, base contracted and slightly clawed, apex acuminate; sac subglobose, ca. 1 mm in diam., without appendages inside. Column ca. 5 mm, slender, base slightly ex-

serted, upper part winged. Capsule obovoid-ellipsoid, 7–10 × 5–6 mm. Fl. Mar, fr. Oct. $2n = 40$.

Epiphytic on trees in forests; 1200–2100 m. Yunnan [Bhutan, Cambodia, NE India, Myanmar, Nepal, Thailand, Vietnam].

2. *Otochilus albus* Lindley, Gen. Sp. Orchid. Pl. 35. 1830.

白花耳唇兰 *bai hua er chun lan*

Coelogyne alba (Lindley) H. G. Reichenbach.

Pseudobulbs enclosed in tubular sheaths when young, brownish yellow when dried, subcylindric, 3.5–4.5 cm × 6–7 mm, grooved, usually with roots at joint. Leaf blade narrowly oblong or narrowly elliptic, 5–16 × 1.3–1.7 cm, acuminate; petiole 1–2 cm. Inflorescence synanthous; peduncle 3–7.5 cm, sheathed; rachis ca. 7 cm, slender, weakly zigzag, laxly 8- or 9-flowered; floral bracts caducous, ovate-lanceolate, ca. 5 × 5 mm. Flowers uniformly white, 1–1.8 cm in diam.; pedicel and ovary 5–6 mm. Dorsal sepal narrowly oblong, 7–8 × 1.4–1.6 mm, 3-veined, acuminate; lateral sepals slightly oblique. Petals narrowly oblong-lanceolate, 6–7 × 1.2–1.5 mm, 3-veined, acute; lip 3-lobed; lateral lobes embracing column, reaching 1/5–1/4 of its length; mid-lobe oblong, ca. 6 mm, adaxially ± papillate, apex apiculate; sac with a thickened longitudinal ridge inside. Column 5–6 mm; rostellum broadly ligulate. Fl. Jun–Jul.

1300–1500 m. SE Xizang [NE India, Myanmar, Nepal, Thailand,

Vietnam].

3. *Otochilus porrectus* Lindley, Gen. Sp. Orchid. Pl. 36. 1830.

耳唇兰 *er chun lan*

Coelogyne porrecta (Lindley) H. G. Reichenbach; *Otochilus forrestii* W. W. Smith; *O. fragrans* (Wallich ex Lindley) Nicholson; *O. latifolius* Griffith; *Tetrapeltis fragrans* Wallich ex Lindley.

Pseudobulbs greenish yellow when dry, cylindric to fusiform, 2.5–11 cm × 7–13 mm, sparsely wrinkled. Leaf blade narrowly elliptic to narrowly elliptic-lanceolate, 7–20 × 2.1–4.1(–5.7) cm, acuminate or obtuse; petiole 1–2.5 cm. Inflorescence synanthous, ± arching, 15–20 cm; rachis 7–10 cm, laxly several flowered; floral bracts caducous. Flowers white, sometimes slightly tinged with yellowish on abaxial surface of sepals and lip; pedicel and ovary 5–8 mm. Dorsal sepal suboblong or oblong-oblancheolate, 11–13 × ca. 2.5 mm, dorsally somewhat carinate, 5-veined, apex acute or obtuse; lateral sepals suboblong, similar in size to dorsal sepal. Petals sublinear, 11–13 × ca. 0.8 mm, 3-veined; lip 3-lobed; lateral lobes erect, embracing column, reaching 1/3–1/2 length of column, oblong, 3–4 × 1.5–2 mm; mid-lobe ovate-elliptic, 6–7 × 4–5 mm, base narrowed into a claw ca. 1 mm, apex acute; sac with 3 thickened and 2 shorter ridges extending nearly to base of mid-lobe. Column ca. 1 cm, upper part winged; anther with long beak to 2 mm; rostellum narrowly lanceolate, 1.5–2 mm. Capsule obovoid-ellipsoid, to 2 cm × ca. 9 mm. Fl. and fr. Oct–Dec. $2n = 40$.

Epiphytic on trees or lithophytic on rocks in forests; 1000–2100 m. NW to SE Yunnan [NE India, Myanmar, Nepal, Thailand, Vietnam].

4. *Otochilus lancilabius* Seidenfaden, Opera Bot. 89: 94. 1986.

宽叶耳唇兰 *kuan ye er chun lan*

Roots borne at internodes. Pseudobulbs greenish yellow when dry, subcylindric, narrowly fusiform to clavate, 4–10 cm × 6–20 mm, sheathed at base, sparsely wrinkled. Leaf blade elliptic-lanceolate to oblong-lanceolate, 12–19 × 2.5–4.2 cm, apex acuminate or shortly cuspidate; petiole 1.5–2.5 cm. Inflorescence proteranthous, decurved; peduncle sheathed when young; rachis laxly several flowered; floral bracts caducous, linear, acute. Flowers white, 1.5–2.2 cm; pedicel and ovary 1–1.2 cm. Dorsal sepal linear-oblong, cymbiform, 13–15 × ca. 2 mm, abaxially ± carinate, 5-veined, acute; lateral sepals some-

what oblique. Petals linear, ca. 14 × 0.7 mm, 3-veined, acute; lip 3-lobed; lateral lobes erect, embracing column, reaching ca. 1/4 length of column, triangular-ovate, 15–20 × ca. 0.5 mm; mid-lobe oblong-lanceolate, 10–12 × 2.5–3 mm, base shortly clawed, apex acuminate; sac with 3 or 4 short thickened ridges. Column subclavate, 1.3–1.4 cm, upper part winged; anther cap ellipsoid, ca. 1 mm; rostellum ligulate, ca. 0.7 mm. Capsule subobovoid-ellipsoid, 1.5–2 cm. Fl. Oct–Nov.

Epiphytic on trees in forests; 1500–2800 m. SE Xizang, SW Yunnan [Bhutan, NE India, Laos, Nepal, Vietnam].

