
短筒苣苔属 duan tong ju tai shu

Boeicopsis H. W. Li.

Subshrubs or herbs, perennial, epipetric or terrestrial, rhizomatous, sometimes stoloniferous, stemmed or seldom stemless. Leaves few to many, on stem and alternate, ± crowded near stem apex or basal; leaf blade puberulent to densely woolly or glabrescent, base cuneate to attenuate. Inflorescences lax, sometimes umbel-like, axillary, 1- to many-flowered cymes; bracts 2 and opposite, rarely several and whorled. Calyx actinomorphic, 5-sect from base; segments equal. Corolla white to pink or blue to purple, zygomorphic, inside glabrous or puberulent; tube campanulate, not swollen, sometimes saccate at base, slightly shorter than limb, 3-7 mm in diam.; limb slightly 2-lipped; adaxial lip 2-lobed, slightly shorter than to as long as abaxial lip; abaxial lip 3-lobed, lobes equal or subequal, apex rounded to acute. Stamens 4, adnate to corolla near base, included; anthers basifixed, free, thecae subparallel, confluent at apex, dehiscing longitudinally, poricidally, or transversely; connective not projecting; staminode 1, adnate to adaxial side of corolla tube. Disc ringlike or inconspicuous. Ovary ovoid or conical, 1-loculed; placentas 2, parietal, projecting inward, 2-cleft. Stigma 1, terminal, capitate, undivided. Capsule straight in relation to pedicel, linear to narrowly oblong, much longer than calyx, dehiscing loculicidally to base; valves 2, straight, not twisted. Seeds unappended.

About 12 species: Bhutan, S China, N India, Myanmar, N Vietnam; seven species in China.

1a. Style with 2 broad and flat winglike appendages; petiole and leaf blade hirsute adaxially; corolla tube saccate at base; ovary glabrous ................................................................. 7. B. yunnanensis

1b. Style unappendaged; petiole and leaf blade villous, woolly, or puberulent adaxially; corolla tube not swollen;

ovary sparsely puberulent to villous.

2a. Cymes 1-flowered; lateral veins 4–6 on each side of midrib; plants always stemless; corolla 10–12 mm; anthers dehiscing longitudinally ................................. 3. B. guileana

2b. Cymes 3- to many flowered; lateral veins 7–16 on each side of midrib; plants with stems (0.5–)4–30 cm; corolla 3–6 mm; anthers dehiscing poricidally or transversely (unknown in B. fulva).

3a. Pedicels 10–20 mm; stems 0.5–7 cm; bracts 4–7 mm.

4a. Leaf blade broadly elliptic or ovate to obovate, 3.5–10 × 2.8–5.5 cm, adaxially villous, base cuneate
to rounded, margin serrulate to serrate; lateral veins 7–9 on each side of midrib .......... 2. B. stolonifera

4b. Leaf blade ovate-elliptic, 8–20 × 3–11 cm, adaxially appressed puberulent, base attenuate, margin coarsely serrate; lateral veins 10–13 on each side of midrib ................................. 4. B. ferruginea

3b. Pedicels 0.4–2.5 mm; stems 6–14 cm; bracts 1–5 mm.

5a. Leaf blade margin irregularly shallowly denticulate, adaxially woolly, glabrescent; peduncle 10–15 cm ................................................................. 6. B. fulva

5b. Leaf blade margin serrate, adaxially densely puberulent or sparsely villous; peduncle 3.5–10 cm.

6a. Leaf blade adaxially sparsely villous, abaxially sparsely villous, veins densely villous;

lateral veins
8–11 on each side of midrib; anthers dehiscing poricidally; peduncle densely villous . 1. B. porosa

6b. Leaf blade adaxially densely puberulent, abaxially woolly; lateral veins 14–16(–20) on each side of midrib; anthers dehiscing transversely; peduncle pubescent ...................... 5. B. multinervia


孔药短筒苣苔 kong yao duan tong ju tai

Boeica tonkinensis (Kraenzlin) B. L. Burtt; Didymocarpus tonkinensis (Kraenzlin) Handel-Mazzetti; Oreocharis tonkinensis Kraenzlin.

Subshrubs. Stems 10–30 cm, densely villous. Petiole 0.5–2.8 cm, densely villous; leaf blade obovate to elliptic, 4.5–18 × 3.5–6.5 cm, adaxially sparsely villous, abaxially sparsely villous, densely villous along veins, base sometimes oblique, cuneate to rounded, margin serrate, apex acute to broadly acute; lateral veins 8–11 on each side of midrib. Cymes 3- to many flowered; peduncle 3.5–8 cm, densely villous; bracts 2, sometimes several, linear to oblong, 1.5–5 mm. Pedicel 0.8–2.5 mm. Calyx segments narrowly lanceolate to elliptic, 4–5 × 1–1.3 mm, outside densely villous, margin entire to dentate. Corolla white to pinkish, 3–7 mm, outside glabrescent; tube not swollen, 1–1.5 mm; lobes
suborbicular, 2–5 × 2.5–4 mm. Filaments 0.6–1.5 mm, glabrous; anthers dehiscing poricidally; staminode ca. 0.3 mm. Disc ringlike. Pistil puberulent and glandular puberulent; ovary conical, 1.2–1.5 mm. Style unappendaged, 1.4–3 mm. Capsule 2–2.8 cm. Fl. Jun–Aug. Rocks in forests on slopes; 800–1200 m. SE Yunnan (Myanmar, N Vietnam).


紫花短筒苣苔 zi hua duan tong ju tai Herbs. Stems 0.5–7 cm, densely hisrute and woolly. Petiole 1–4.5 cm, densely villous; leaf blade broadly elliptic or ovate to obovate, 3.5–10 × 2.8–5.5 cm, adaxially villous, abaxially villous and puberulent, densely villous along veins, base cuneate to rounded, margin serrulate to serratate, apex acute to obtuse; lateral veins 7–9 on each side of midrib. Cymes 5–15-flowered; peduncle 3.5–7.5 cm, densely villous; bracts 2, linear to narrowly triangular or obovate-oblong, 4–6 mm. Pedicel 1–2 cm. Calyx segments lanceolate to linear, 2–6 × ca. 1 mm, outside villous, margin sparsely dentate to entire. Corolla bluish, ca. 4.5 mm, outside puberulent; tube not swollen, 1–1.5 mm; lobes suborbicular, ca. 3.2 × 3 mm. Filaments ca. 1 mm, glabrous; anthers dehiscing poricidally; staminode ca. 0.5 mm. Disc ringlike. Ovary ovoid, 1.2–1.5 mm, sparsely puberulent. Style unappendaged, 2.2–4.2 mm, glabrous. Capsule 1.8–2.2 cm. Fl. May–Jul, fr. Jul.


紫花短筒苣苔 zi hua duan tong ju tai Herbs. Stems 0.5–7 cm, densely hisrute and woolly. Petiole 1–3 cm, densely villous; leaf blade elliptic to obovate or ovate, 2–6 × 1.1–3.2 cm, villous and puberulent, abaxially more densely villous along veins, base cuneate to rounded, margin serrate to double serrate, apex acute to rounded; lateral veins 4–6 on each side of midrib. Cymes 1–4 flowered; peduncle 2.5–5.5 cm, villous; bracts 2, linear, 2.5–3 mm. Pedicel 1–2 cm. Calyx segments lanceolate to linear, 3–5 × ca. 1 mm, outside villous, margin entire. Corolla blue-purple, 1–1.2 cm, outside puberulent; tube not swollen, 1.5–2.5 mm; adaxial lip lobes from middle, lobes oblong, 5–7 × 4–5 mm; abaxial lip 3-lobed from base, lobes obovate-oblong to spatulate, 1–1.1 cm × 4.5–6 mm. Filaments 2.5–3.5 mm, sparsely puberulent; anthers dehiscing longitudinally; staminode apparently absent. Disc ringlike. Ovary conical, 2–3.5 mm, villous. Style unappendaged, 4–7 mm, pubescent to puberulent. Capsule 0.7–1.4 cm. Fl. and fr. Jul.


多脉短筒苣苔 duo mai duan tong ju tai Herbs. Stems 6–14 cm, woolly. Petiole 1.5–2.5 cm, woolly; leaf blade ovate to obovate, 5.5–11 × 2.8–5.2 cm, adaxially densely puberulent, abaxially woolly, base oblique, cuneate, margin serrate, apex acute; lateral veins 14–16(–20) on each side of midrib. Cymes 10–20-flowered; peduncle 6–10 cm, pubescent; bracts 2, linear to obovate-oblong, 3–4 mm. Pedicel ca. 0.5 mm. Calyx segments linear-lanceolate, 3 × 0.4 mm, outside puberulent, margin entire. Corolla ca. 6 mm, outside glabrescent; tube not swollen, ca. 2.2 mm; adaxial lip lobes ca. 1.6 mm; abaxial lip lobes narrowly ovate, ca. 2 mm. Filaments ca. 1 mm, glabrous; anthers dehiscing transversely; staminode ca. 0.2 mm. Disc inconspicuous. Ovary conical, ca. 1.5 mm, sparsely puberulent. Style unappendaged, ca. 8 mm, glabrous. Fruit unknown. Fl. Aug.


锈毛短筒苣苔 xiu mao duan tong ju tai Herbs. Stems 4–6 cm, woolly to villous or pilose. Petiole 3–5 cm, densely villous; leaf blade ovate-elliptic, 8–20 × 3–11 cm, adaxially appressed puberulent, abaxially sparsely woolly to glabrescent, woolly to villous along veins, base attenuate, margin coarsely serrate, apex acute; lateral veins 10–13 on each side of midrib. Cymes many flowered; peduncle 5–8 cm, villous; bracts 2, oblong, 6–7 mm. Pedicel 1–2 cm. Calyx segments linear-lanceolate, 1–4 × 0.4–0.7 mm, outside villous, margin sparsely dentate. Corolla 5–6 mm, outside sparsely pubescent; tube not swollen, ca. 2 mm; adaxial lip slightly shorter than abaxial, lobes ca. 2 mm. Filaments ca. 1.5 mm, glabrous; anthers dehiscing poricidally; staminode ca. 0.2 mm. Disc ringlike. Ovary conical, 1.5–2 mm, sparsely pubescent. Style unappendaged, 4–7 mm, glabrescent. Capsule ca. 2 cm. In shady and damp areas of dense forests; 300–1200 m. SE Yunnan (Jinping Xian) [N Vietnam].


短筒苣苔 duan tong ju tai Herbs. Stems to at least 15 cm, woolly, glabrescent. Petiole 0.6–6.5 cm, woolly; leaf blade lanceolate-elliptic to obovate, 10–17 × 4.5–6.5 cm, adaxially woolly, glabrescent, abaxially densely woolly, base narrowly cuneate to rounded, margin irregularly shallowly denticulate, apex acute to acuminate; lateral veins 11–16 on each side of midrib. Cymes many flowered; peduncle 10–15 cm, woolly, glabrescent; bracts 2, linear, 1–5 mm. Pedicel 0.4–1 mm. Calyx segments narrowly triangular to linear-lanceolate, 1–2.5 mm, outside puberulent to woolly, margin entire. Corolla purple, ca. 4 mm; tube not swollen. Filaments ca. 1.5 mm. Ovary conical, ca. 1.5 mm, puberulent.
Style unappendaged, 1–1.5 mm, glabrous. Capsule 7–10 mm.

Montane regions; 1300–1400 m. SE Xizang (Zay Xian) [Bhutan, NE India].


翼柱短筒苣苔 yi zhu duan tong ju tai


Subshrubs. Stems to 12 cm, densely villous. Petiole 1–2 cm, densely hirsute; leaf blade ovate to ovate-elliptic, 6.5–7.5 × 4–5 cm, adaxially hirsute, abaxially pubescent, densely hirsute along veins, base broadly cuneate to rounded, margin serrate, apex acute to broadly acute; lateral veins ca. 6 on each side of midrib. Cymes ca. 9-flowered; peduncle 5.5–6.5 cm, densely villous to hirsute; bracts 2, linear-lanceolate, to 5 mm. Pedicel ca. 5 mm. Calyx segments linear-lanceolate, ca. 5 × 1 mm, outside hirsute to villous, margin minutely serrulate. Corolla 5–6.5 mm, outside glabrous; tube saccate at base, ca. 3 mm; lobes subequal, suborbicular, ca. 2 × 2 mm. Filaments ca. 1.5 mm, glabrous; anthers dehiscing poricidally; staminode ca. 1 mm. Disc inconspicuous. Pistil glabrous; ovary ovoid, ca. 1.2 mm. Style with 2 broad and flat winglike appendages, ca. 2.5 mm. Fruit unknown. Fl. Jun.

- Grassy areas under forests on slopes; ca. 1300 m. SE Yunnan (Maguan Xian).