

6. **BOLBOSTEMMA** Franquet, Bull. Mus. Natl. Hist. Nat., sér. 2, 2: 325. 1930.

假贝母属 *jia bei mu shu*

Lu Anmin (路安民 *Lu An-ming*); Charles Jeffrey

Herbs, climbing, with a multi-tuberous base. Stems slender. Leaves cordate, 5-lobed, glandular at base. Tendrils 2-fid. Plants dioecious; male flowers in panicle, female flowers often in panicle, sometimes solitary or fascicled. Male flowers: calyx rotate, 5-partite; segments linear-lanceolate; corolla rotate, 5-partite; segments narrowly lanceolate, caudate-acuminate; stamens 5; filaments free or connate at base in pairs; anthers subovoid, 1-celled; connective papillose on back. Female flowers: calyx and corolla as in male flowers; ovary subglobose, verrucose, 3-locular; style short; stigmas 3, 2-lobed; ovules 2 in each locule, pendulous. Fruit narrowly ovoid, conical at apex, with or without spines, circumscissile-dehiscent above middle. Seeds 4–6, subovate, with membranous wing at apex.

• Two species: disjunct between N China and SW China.

- 1a. Leaves palmately 5-fid, lobes 3–5-lobed; calyx segments and corolla segments ca. 2.5 mm; stamens free, connective not papillose; ovary rarely verrucose; fruit smooth 1. *B. paniculatum*
- 1b. Leaves suborbicular; calyx segments and corolla segments to 6–8 mm; stamens connate at base of filaments in pairs, connective elongate; ovary densely verrucose; fruit spinescent 2. *B. biglandulosum*

1. **Bolbostemma paniculatum** (Maximowicz) Franquet, Bull. Mus. Natl. Hist. Nat., sér. 2, 2: 327. 1930.

假贝母 *jia bei mu*

Mitrosicyos paniculatus Maximowicz, Mém. Acad. Imp. Sci. St.-Petersbourg Divers Savans 9 [Prim. Fl. Amur.]: 113. 1859; *Actinostemma multilobum* Harms; *A. paniculatum* (Maximowicz) Cogniaux; *Schizopepon fargesii* Gagnepain.

Stem herbaceous, glabrous. Petiole slender, 1.5–3.5 cm; leaf blade ovate-orbicular, 4–11 × 3–10 cm, palmately 5-partite; lateral lobes ovate-oblong, acute; central lobe oblong-lanceolate, acuminate; basal lobe with a gland at apex, glabrous or pilose on veins. Tendrils filiform, 2-fid. Inflorescence paniculate, 4–10 cm; pedicel filiform, 1.5–3.5 cm; calyx and corolla similar, yellow-green; segments ovate-lanceolate, ca. 2.5 cm; stamens free; filaments 0.3–0.5 mm; anthers ca. 0.5 mm; ovary ovoid, 3-locular; ovules 2 in each locule. Fruit cylindrical, 1.5–3 × 1–1.2 cm, circumscissile-dehiscent, conical at apex. Seeds 6, 8–10 × ca. 5 mm, testa rugose, margin denticulate, with a long membranous wing at apex, wing 8–10 mm. Fl. Jun–Aug, fr. Aug–Sep.

• Montane slopes. Gansu, Hebei, Henan, NW Hunan, Shaanxi, Shandong, Shanxi, E and S Sichuan.

This plant is used medicinally.

2. **Bolbostemma biglandulosum** (Hemsley) Franquet, Bull. Mus. Natl. Hist. Nat., sér. 2, 2: 328. 1930.

刺儿瓜 *ci er gua*

Branches slender, slightly pilose when young, ultimately glabrous. Petiole slender, 2–5 cm; leaf blade broadly oblong or suborbicular, 2.5–7 × 3–7 cm, membranous, glabrous, 5-lobed, base broadly cordate, apex acute or obtuse, with a gland at apex of lowest 2 lobes. Tendrils filiform, 2-fid, pilose or glabrous. Male inflorescence paniculate, to 12 cm; rachis and pedicels filiform; pedicels 1–1.5 cm; calyx segments linear-lanceolate;

corolla segments pale yellow-green, narrowly lanceolate, 6–8 × 0.8–1.2 mm, glabrous, apex long caudate; stamens inserted at base of corolla tube, connate in pairs, 1 free; filaments ca. 0.8 mm; anthers yellow, ca. 1 mm; connective caudate at apex, 1–1.2 mm. Female flowers solitary; pedicels filiform, 10–15 mm; ovary densely verrucose. Fruit yellow-green, cylindrical, 3.5–4 cm, covered with slender spines, spines 5–7 mm, circumscissile when mature. Seeds irregularly ovate, margin irregularly dentate, ca. 10 × 7 mm, with membranous wing at apex, wing ca. 10 mm, apex lobate. Fl. Sep, fr. Oct.

• Forest margins, thickets under forests; 1000–1400 m. NW and SE Yunnan.

- 1a. Leaf blade suborbicular, ± as long as broad, 4–7 × 4–7 cm 2a. var. *biglandulosum*
- 1b. Leaf blade broadly oblong, shorter than broad, 2.5–3.5 × 3–4.5 cm 2b. var. *sinuatolobulatum*

2a. **Bolbostemma biglandulosum** var. **biglandulosum**

刺儿瓜(原变种) *ci er gua* (yuan bian zhong)

Actinostemma biglandulosum Hemsley, Hooker's Icon. Pl. 27: t. 2622. 1899; *Hemsleya esquirolii* H. Léveillé.

Leaf blade suborbicular, ± as long as broad, 4–7 × 4–7 cm. Calyx segments linear-lanceolate; corolla segments narrowly lanceolate, 6–8 × 1–1.2 mm.

• Forest margins; 1300–1400 m. SE Yunnan (Mengzi).

2b. **Bolbostemma biglandulosum** var. **sinuatolobulatum** C. Y. Wu, Acta Phytotax. Sin. 6: 238. 1957.

波裂叶刺儿瓜 *bo lie ye ci er gua*

Leaf blade broadly oblong, shorter than broad, 2.5–3.5 × 3–4.5 cm. Calyx- and corolla segments narrowly lanceolate, 6–8 × 0.8–1 mm.

• Thickets under forests; ca. 1000 m. NW Yunnan (Lijiang).

