

### 13. LOESENERIELLA A. C. Smith, Amer. J. Bot. 28: 438. 1941.

翅子藤属 *chi zi teng shu*

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Woody lianas, puberulent or glabrescent, lenticellate, internodes slightly enlarged. Leaves opposite or subopposite, entire or crenulate. Inflorescences axillary or terminal, cymose. Flowers bisexual, 5-merous. Disk fleshy, cupular, sometimes arranged in rings, extrastaminal. Stamens 3; filaments tongue-like; anthers transversely dehiscent, extrorse. Ovary weakly triangular, partially or wholly concealed in disk, 3-locular; ovules 4–8 per locule. Fruits 1–3-fascicled capsules; capsule transversely flattened, leathery, loculicidally dehiscent. Seeds 4–8, with membranous basal wings, exalbuminous.

About 20 species: tropical Africa and Asia; five species (all endemic) in China.

- 1a. Leaf blade elliptic, 3–7 × 1.5–3.5 cm.  
2a. Leaf blade narrowly elliptic, adaxially shiny, margin sparsely denticulate; peduncle 15–18 mm ..... 1. *L. concinna*  
2b. Leaf blade elliptic, adaxially not shiny, margin sinuate, cartilaginous; peduncle less than 10 mm ..... 2. *L. griseoramula*  
1b. Leaf blade lanceolate, ovate, or oblong-elliptic, 5–12(–21) × 2.5–6(–7.5) cm.  
3a. Leaf blade lanceolate or broadly lanceolate, apex long caudate ..... 3. *L. lenticellata*  
3b. Leaf blade ovate or oblong-elliptic, apex not caudate.  
4a. Peduncle 1.5–3 cm; petals 4–5 × 1.7–2.5 mm; fruit elliptic ..... 4. *L. merrilliana*  
4b. Peduncle 1–1.2 cm; petals 5–8 × 2.5–4 mm; fruit ovate-oblong ..... 5. *L. yunnanensis*

**1. *Loeseneriella concinna*** A. C. Smith, J. Arnold Arbor. 26: 170. 1945.

程香仔树 *cheng xiang zi shu*

Lianas; branchlets slender, glabrous, early brown-purple, then gray, conspicuously scabrous-lenticellate. Petiole 2–4 mm; leaf blade oblong-elliptic, (3–)4–7 × (1.2–)1.5–3.5 cm, papery, shiny, base rounded, margin sparsely denticulate; lateral veins 4–6 pairs, reticulate veins conspicuous. Cymes axillary or terminal, 2–3.5 cm, few flowered; peduncle slender, 15–18 mm, glabrescent; bracts and bractlets deltoid, less than 1 mm, margin ciliolate; pedicel 5–7 mm, pubescent. Flowers light yellow; sepals deltoid, ca. 0.7 × 1 mm, margin slightly ciliolate; petals oblong-lanceolate, 4–5 × 1.5–2 mm, thin, fleshy, margin ciliolate, apex abaxially appendiculate. Disk fleshy, cupular, ca. 1.5 mm tall, base subpentagonous, 2–2.5 mm in diam. Filaments ca. 1.3 mm; anthers slightly globose. Ovary triangular, partially concealed in disk, 3-loculed; ovules 4 per locule; style conic-subulate, ca. 1 mm, apex truncate. Fruit 1–3-fascicled capsules, peduncle not dilated; capsule obovate-elliptic, 3–5 × 2–3.5 cm, apex emarginate, 4-seeded. Seeds ca. 3 × 2 cm. Fl. May–Jun, fr. Oct–Dec.

• Valley forests, eastern regions and inshore islands. Guangdong, SE Guangxi.

**2. *Loeseneriella griseoramula*** S. Y. Bao, Fl. Reipubl. Popularis Sin. 46: 290. 1981.

灰枝翅子藤 *hui zhi chi zi teng*

Lianas; branchlets light gray, subcylindric, glabrous, inter-

nodes slightly dilated, lenticellate; lenticels thick, rounded, coarse. Petiole ca. 5 mm, grooved; leaf blade elliptic, 3–5 × 2.5–

3.5 cm, papery, not shiny, base rounded, margin cartilaginous, sinuate, apex subacute; lateral veins 5 or 6 pairs, reticulate veins conspicuous. Cymes axillary or terminal; bracts deltoid, farinose, pubescent, margin ciliolate; peduncle slender, glabrescent, 8–10 mm; pedicel 1.5–3 mm, farinose, pubescent. Sepals deltoid, ca. 1 × 1.2 mm, densely farinose, pubescent; petals lanceolate, 5–6 mm, apex acuminate, abaxially farinose, pubescent, margin ciliolate. Disk fleshy, cupular, base pentagonous. Ovary 3-loculed, concealed in disk; style columnar. Fruits 3-fascicled capsules, peduncle dilated, exocarp grooved; capsule elliptic, ca. 4 × 2 cm. Fr. Jan.

• Mountainous slopes; 600–700 m. W Guangxi (Bose).

**3. *Loeseneriella lenticellata*** S. Y. Bao in Z. Y. Zhu et al., Legumes China, 638. 2007.

皮孔翅子藤 *pi kong chi zi teng*

Lianas; branchlets gray-green, compressed, grooved, becoming bottle-green with age, glabrous, densely lenticellate; lenticels small, rounded. Petiole 5–6 mm; leaf blade lanceolate or broadly lanceolate, 7–12(–21) × 2.5–3(–7.5) cm, leathery, glabrous, adaxially shiny, base cuneate, margin distally sparsely denticulate, apex long caudate; lateral veins 6–8 pairs, adaxially and abaxially prominent, reticulate veins conspicuous. Cymes few, 3–4 cm; branchlets and pedicels slender, farinose, pubescent; bracts and bractlets deltoid, less than 1 mm; peduncle typically 2–2.5 cm; pedicel ca. 0.5 mm. Flowers yellow-green; sepals membranous, ovate-deltoid, densely farinose, pubescent; petals lanceolate, 6–7 mm, margin ciliolate, apex acute. Disk fleshy, base subpentagonous, ca. 3.5 mm in diam. Filaments ca. 1.5 mm; anthers nearly globose. Ovary triangular, concealed in disk; style ca. 1 mm, apex truncate. Fruits 3-fascicled capsules, base attenuate to a dilated peduncle; capsule ovate-oblong, 5–6.5 × 2.5–4 cm, apex rounded, 4- or 5-seeded. Seeds ca. 2.8 × 2

cm, base broadly winged. Fl. May–Jun, fr. Aug–Oct.

- Sparse forest valleys; 600–1100 m. W Guangxi, S Yunnan.

This name was originally published by S. Y. Bao (in W. P. Fang, FRPS 46: 290. 1981) but not validly so because two gatherings were indicated as types (*Vienna Code*, Art. 37.2).

**4. *Loeseneriella merrilliana*** A. C. Smith, J. Arnold Arbor. 26: 172. 1945.

翅子藤 *chi zi teng*

Lianas; branchlets brown-gray, slightly tetragonous, glabrous, sometimes densely scabrous lenticellate. Petiole 5–8 mm, robust; leaf blade oblong-elliptic, 5–10(–18) × 3–6 cm, leathery, base obtuse or narrowly rounded, margin sparsely denticulate to crenulate-serrate, apex abruptly cuspidate, cusp 5–10 mm; lateral veins 4–6 pairs, reticulate veins conspicuous. Cymes axillary or terminal, 2.5–6 cm; branchlet and peduncle slender, densely farinose, puberulent; peduncle 1.5–3 cm; bracts and bractlets deltoid, entire, farinose, puberulent; pedicel slender, 3–8 mm. Flowers light green; sepals ovate-deltoid, less than 1.5 mm, margin ciliolate, apex obtuse, abaxially farinose, puberulent; petals oblong-lanceolate, 4–5 × 1.7–2.5 mm, abaxially farinose, puberulent. Disk fleshy, cupular, 1–1.5 mm tall, base subpentagonous, 2–3 mm in diam. Style conic-subulate, 1–1.5 mm, apex truncate. Fruits 1–3-fascicled capsules, peduncle not

dilated; capsule elliptic or obovate-elliptic, 4.4–6 × 2.5–3.2 cm, base obtuse, apex rounded or emarginate, 3- or 4-seeded. Seeds broadly elliptic, basally winged, wing membranous. Fl. May–Jun, fr. Jul–Sep.

- Valley forests; 300–700 m. SW Guangxi, Hainan, S Yunnan.

**5. *Loeseneriella yunnanensis*** (Hu) A. C. Smith, J. Arnold Arbor. 26: 174. 1945.

云南翅子藤 *yun nan chi zi teng*

*Hippocratea yunnanensis* Hu, Bull. Fan Mem. Inst. Biol., Bot. 10: 152. 1940.

Lianas; branchlets brown, nearly quadrate, glabrous, scabrous lenticellate. Petiole up to 1 cm, grooved; leaf blade ovate or ovate-oblong, 5–10 × 3.5–6 cm, papery, base rounded or broadly cuneate, margin entire or weakly denticulate, apex acuminate or acute; lateral veins 7–9 pairs, reticulate veins conspicuous. Cymes axillary or terminal, ca. 3 cm; bracts and bractlets deltoid, margin ciliolate; peduncle short, 1–1.2 cm; pedicel 8–10 mm. Flowers light yellow; sepals deltoid-ovate, up to 2 mm, margin ciliolate, apex subacute. Disk fleshy, ca. 1.5 mm tall, base subpentagonous, ca. 3 mm in diam. Filaments flat, 2–2.5 mm; anther nearly globose. Ovary nearly triangular, mostly concealed in disk, 3-loculed; style conical, 1.2–1.6 mm, apex truncate. Fruits 1–3-fascicled capsules, peduncle not dilated; capsule ovate-oblong, 7–8 × 3–4 cm, base attenuate, 4-seeded. Seeds winged, ca. 2 × 1.2 cm. Fl. Mar–Jul, fr. Oct–Nov.

- Sparse limestone forests; 700–1200 m. W Guangxi, S and SE Yunnan.

Fl. China 11: 490–491. 2008.