

37. ANODENDRON A. de Candolle, Prodr. 8: 443. 1844.

鱗藤属 shan teng shu

Formosia Pichon.

Lianas with white latex. Leaves opposite, lateral veins usually wrinkled above. Cymes paniculate, terminal or axillary. Flowers small. Calyx deeply divided, with basal glands inside. Corolla salverform; tube cylindrical, slightly dilated at staminal insertion, throat constricted, faucal scales absent; lobes overlapping and twisted to right. Stamens included, inserted just below middle of corolla tube; filaments short; anthers sagittate, connivent, adherent to pistil head, cells spurred at base; disc ringlike or cup-shaped, apex truncate or shortly 5-lobed. Ovaries 2, distinct, slightly higher than disc; ovules numerous in each ovary. Style short; pistil head thick, base with a ringlike membrane. Follicles divaricate, thick, narrowly ovoid, apex acuminate. Seeds compressed, ovate or oblong; beak with a long apical coma.

About 16 species: India, Malaysia, Sri Lanka, Vietnam; five species in China.

- 1a. Lateral leaf blade veins ca. 30 pairs 5. *A. formicinum*
- 1b. Lateral leaf blade veins 6–16 pairs.
 - 2a. Corolla tube 15–25 mm, lobes 15–25 mm; coma ca. 2 cm 1. *A. benthamianum*
 - 2b. Corolla tube 1.5–4.5 mm, lobes 3–5.5 mm; coma 4–6 cm.
 - 3a. Branchlets, midvein, and petiole pubescent when young; fruit pilose 2. *A. howii*
 - 3b. Branchlets, midvein, and petiole glabrous; fruit glabrous.
 - 4a. Leaves abaxially punctate with minute, sessile, brownish peltate glands; corolla tube shorter than lobes; follicles ca. 1 cm thick 3. *A. punctatum*
 - 4b. Leaves not punctate; corolla tube as long as or longer than lobes; follicles 1.6–3 cm thick 4. *A. affine*

1. *Anodendron benthamianum* Hemsley in F. B. Forbes & Hemsley, J. Linn. Soc., Bot. 26: 98. 1889.

台湾鱗藤 tai wan shan teng

Formosia benthamiana (Hemsley) Pichon.

Lianas glabrous except for flowers. Branches dark brown, branchlets pale gray. Petiole 0.5–1.5 cm; leaf blade narrowly oblong or narrowly ovate, 5–14 × 1–5 cm, leathery, apex obtuse or acute; lateral veins 5–7 pairs. Cymes terminal, 5–15 × 8–9 cm, ca. 20-flowered. Sepals ovate, 3–4 × ca. 3 mm. Corolla tube 1.5–2.5 cm, pubescent inside; lobes oblong, 1.5–2.5 cm. Stamens inserted at base of corolla tube; disc cup-shaped, apex undulate. Ovary glabrous. Follicles narrowly oblong or ovoid-cylindric, 6–12 × ca. 1.5 cm. Seeds ca. 2 cm × 5 mm; beak ca. 2.5 mm; coma ca. 2 cm, recurved. Fl. Mar–Jun.

- Thickets, forests; 400 m. N Taiwan.

2. *Anodendron howii* Tsiang, Sunyatsenia 3: 141. 1936.

保亭鱗藤 bao ting shan ten

Lianas to 30 m. Young branchlets terete, rust colored pubescent, glabrescent when older, minutely lenticellate. Petiole 0.8–1.3 cm, pubescent when young; leaf blade elliptic to oblong, 10–15 × 4–6 cm, papery, base rounded or broadly cuneate, decurrent on petiole, apex acute, densely pubescent along veins abaxially; lateral veins 14–16 pairs. Cymes paniculate, axillary, 14–20-flowered, ca. 3.5 × 4 cm; peduncles paired or solitary, 2–2.5 cm, puberulent. Sepals ovate, ca. 1 mm. Corolla greenish white, tube ca. 1.5 mm; lobes falcate, oblong, ca. 5.5 mm, pilose inside, glabrous outside. Disc ringlike, apex obscurely 5-lobed. Follicles linear or nearly so, 11–12 × ca. 1 cm, shortly crisp pilose. Seeds ovate, ca. 2 cm, coma ca. 5 cm. Fl. May–Jun, fr. Jun–Aug.

- Sparse woods or brushwoods, usually in valleys. Guangxi, Hainan.

3. *Anodendron punctatum* Tsiang, Sunyatsenia 2: 129. 1934.

腺叶鱗藤 xian ye shan teng

Lianas to 20 m, glabrous except for corolla tube. Branches dark brown. Petiole 6–10 mm; leaf blade oblong or subovate, 5–9 × 2–3 cm, base obtuse or cuneate, apex acute, adaxially lustrous, abaxially with minute, scattered, peltate, brownish sessile glands; lateral veins ca. 13 pairs, wrinkled. Cymes thyrselike, axillary; peduncle ca. 6 cm. Pedicel ca. 0.5 mm. Sepals ovate to elliptic, ca. 2 mm. Corolla tube ca. 3 mm; lobes narrowly oblong, ca. 4 mm, apex slightly falcate; disc ringlike, 5-lobed. Ovary as long as disc. Style very short; pistil head thick, conical, 5-angled. Follicles paired, linear, 11–12 × ca. 1 cm, base sometimes slightly dilated. Seeds brown, ovate, ca. 2 cm × 5 mm, coma ca. 4 cm. Fl. Apr–May, fr. Jun–Dec.

- Dense montane forests; 300–800 m. Guangxi, Hainan, Sichuan.

4. *Anodendron affine* (Hooker & Arnott) Druce, Bot. Soc. Exch. Club Brit. Isles 4: 605. 1917.

鱗藤 shan teng

Holarrhena affinis Hooker & Arnott, Bot. Beechey Voy. 198. 1837; *Aganosma laevis* Champion ex Benth; *Anodendron affine* var. *effusum* Tsiang; *A. affine* var. *pingpienense* Tsiang & P. T. Li; *A. fangchengense* Tsiang & P. T. Li; *A. laeve* (Champion ex Benth) Maximowicz ex Franchet & Savatier; *A. salicifolium* Tsiang & P. T. Li; *A. suishaense* Hayata.

Lianas to 10 m, glabrous except for corolla. Branches

pale gray. Petiole 0.5–2 cm; leaf blade deep green adaxially, lighter abaxially, narrowly oblong to narrowly ovate, 3–14 × 1.2–5 cm, papery or somewhat leathery; lateral veins 6–12 pairs, usually wrinkled in dry state. Cymes paniculate, terminal or axillary, 3–26 × 3–13 cm, long pedunculate. Sepals ovate, 2–3 mm. Corolla white or yellowish green, pilose inside, tube 3–4.5 mm; lobes falcate, narrowly oblong, as long as or shorter than tube. Stamens inserted at base of corolla tube; disc cup-shaped, shallowly 5-lobed or entire, attached to ovaries. Follicles narrowly ellipsoid, dilated at base, 8–13 × 1.6–3 cm. Seeds tawny, beaked, ca. 2 cm × 6 mm, coma ca. 6 cm. Fl. Apr–Nov.

Sparse woods, brushwoods; 200–1000 m. Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hubei, Hunan, Sichuan, Taiwan, Yunnan, Zhejiang [India, Japan, Vietnam].

5. *Anodendron formicinum* (Tsiang & P. T. Li) D. J. Middleton, *Novon* 4: 152. 1994.

平脉藤 ping mai teng

Microchites formicina Tsiang & P. T. Li, *Acta Phyto-tax. Sin.* 11: 385. 1973.

Lianas to 15 m, glabrous except for sepals. Petiole 5–13 mm; leaf blade oblong or narrowly so, 6–17 × 1.5–4 cm, base rounded, apex acute; lateral veins ca. 30 pairs, nearly at a right angle to midvein, flattened on both surfaces. Cymes paniculate, terminal and axillary, 5-branched, ca. 14.5 × 19 cm, many flowered. Flowers small. Sepals ovate, puberulent outside. Corolla yellowish green, lobes longer than tube. Stamens inserted at base of corolla tube; disc ringlike, apex obscurely 5-cleft. Ovary glabrous, half sunken in disc. Style short; pistil head beaklike. Fl. May–July.

- Dense montane forests; 1800 m. S Yunnan.

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