

10. **GOUANIA** Jacquin, Select. Stirp. Amer. Hist. 263. 1763.

咀签属 *ju qian shu*

Shrubs climbing, usually with tendrils, unarmed. Leaves alternate, with caducous stipules, petiolate, pinnateveined or 3-veined from base, margin entire or dentate. Flowers polygamous, in terminal or axillary, cymose racemes or cymose panicles, often with tendrils at lower part of rachis or base. Calyx tube short, coadnate with ovary; sepals 5, ovate-triangular, adaxially medially keeled, dehiscent with longitudinal slits. Petals 5, spatulate. Stamens 5, dorsifixed, enfolded by petals. Disk thick, pentagonous or 5-lobed, glabrous or hairy. Ovary inferior, ± deeply immersed in disk, 3-loculed, with 1 ovule per locule; styles cleft to half or deeply cleft. Capsule subglobose, impressed on both ends, crowned by persistent limb of calyx, 3-winged, with 3 rounded locules split from axil at maturity; locules indehiscent or along inner rib narrowly fissured. Seeds 3, red-brown, shiny, obovoid; endosperm thin.

Twenty species: tropical and subtropical areas; two species in China.

- 1a. Leaves abaxially ferruginous tomentose or densely pubescent on veins ..... 1. *G. javanica*
- 1b. Leaves abaxially glabrous or veins sparsely pubescent ..... 2. *G. leptostachya*

1. **Gouania javanica** Miquel, Fl. Ned. Ind. 1(1): 649. 1856.

毛咀签 *mao ju qian*

*Clematoclethra racemosa* H. Léveillé.

Shrubs climbing. Branchlets, petioles, rachis, pedicels, and calyx densely brownish pilose. Leaves alternate; petiole 0.8–1.7 cm, densely or sparsely pubescent; leaf blade ovate or broadly ovate, 4–11 × 2–6 cm, papery, abaxially ferruginous tomentose or at least ± densely pubescent on major veins, adaxially soon glabrescent, lateral veins 5–7 pairs, prominent abaxially, flat adaxially, basal veins with 3–6 outer secondary veins, base cordate or rounded, margin entire or obtusely serrulate, apex shortly acuminate or acuminate, rarely acute. Flowers polygamous, 5-merous, solitary or few fascicled in shortly pedunculate cymes, axillary or terminal cymose racemes, or cymose panicles to 30 cm. Pedicel ca. 1 mm. Sepals triangular, adaxially rostellate on midvein. Petals obovate, ca. as long as stamens, shortly clawed at base. Disk pentagonous, surrounding ovary, each angle elongated into a liguliform appendage. Style long, 3-fid or cleft to half. Capsule yellow at maturity, 8–9 mm, 9–10 mm in diam., 3-winged, both ends concave, apex with persistent calyx, with 3 rounded, winged locules, along axil dehiscent. Seeds 3, red-brown, shiny, obovoid, ca. 3 × 2.5 mm, raised on back. Fl. Jul–Sep, fr. Nov–Mar of following year.

Sparse forests, often climbing on trees, riverbanks; low to middle elevations. Fujian, Guangdong, Guangxi, Guizhou, Hainan, Yunnan [Cambodia, Laos, Philippines, Thailand, Vietnam].

2. **Gouania leptostachya** Candolle, Prodr. 2: 40. 1825.

咀签 *ju qian*

Shrubs climbing. Young branches glabrous or sparsely pilose. Leaves alternate; stipules lanceolate and caducous, or persistent and becoming a rounded, dentate bract; petiole 1–2.5 cm, sparsely or densely pilose; leaf blade abaxially pale green, adaxially dark green, ovate or ovate-oblong, 5–9 × 2.5–5 cm, papery, abaxially glabrous or sparsely hairy on veins, lateral veins 5 or 6 pairs, prominent abaxially, lower lateral veins with 3–5 secondary lateral veins, base cordate, margin crenate-serrate, apex acuminate. Flowers polygamous, 5-merous, solitary or few in fascicles and shortly pedunculate cymes, axillary cymose racemes, and terminal cymose panicles to 30 cm, pi-

lose. Pedicel short, ca. 1 mm, glabrous or sparsely hairy. Sepals ovate-triangular, apex acuminate. Petals white, obovate, hooded, ca. as long as stamens, clawed at base. Disk distinctly pentagonous, antisealous angles elongated into liguliform appendages. Ovary nearly completely immersed in but not fused with disk; styles short, 3-fid. Capsule 9–10(–13) mm, 1–1.2(–1.8) cm in diam., crowned by remnants of persistent calyx tube, 3-winged, dehiscing into 3 subrounded winged mericarps, wing sometimes thickened at maturity; fruiting pedicel 1–3 mm, glabrous or sparsely pilose. Seeds brownish, shiny, obovoid, ca. 1 × 3 mm. Fl. Aug–Sep, fr. Oct–Dec.

Forests, often climbing on trees, thickets; low to middle elevations. W Guangxi (Napo), Yunnan [Bhutan, India, Laos, Malaysia, Myanmar, Nepal, Philippines, Singapore, Thailand, Vietnam].

- 1a. Fruit 12–13 × 13–18 mm ..... 2c. var. *macrocarpa*
- 1b. Fruit 9–10 × 10–12 mm.
  - 2a. Stipules lanceolate, caducous, not becoming a bract ..... 2a. var. *leptostachya*
  - 2b. Stipules persistent, often becoming a rounded, dentate bract ..... 2b. var. *tonkinensis*

2a. **Gouania leptostachya** var. **leptostachya**

咀签(原变种) *ju qian (yuan bian zhong)*

Stipules lanceolate, caducous, not becoming a bract. Fruit 9–10 × 10–12 mm.

Flora of China 12: 163–164. 2007.

Sparse forests, often climbing on trees; middle elevations. W Guangxi (Napo), Yunnan [Bhutan, India, Laos, Malaysia, Myanmar, Nepal, Philippines, Singapore, Thailand, Vietnam].

**2b. *Gouania leptostachya* var. *tonkinensis*** Pitard in Lecomte, Fl. Indo-Chine 1: 934. 1912.

越南咀签 yue nan ju qian

Stipules persistent, often becoming a rounded, dentate bract, base amplexicaul, margin sharply denticulate.

Forests, thickets; low to middle elevations. S Yunnan [Laos, Vietnam].

**2c. *Gouania leptostachya* var. *macrocarpa*** Pitard in Lecomte, Fl. Indo-Chine 1: 934. 1912.

大果咀签 da guo ju qian

Fruit 12–13 × 13–18 mm, with thickened wing.

Forests; below 2000 m. S and SE Yunnan [Thailand, Vietnam].

