

11. DISTYLIUM Siebold & Zuccarini, Fl. Jap. 1: 178. 1835.

蚊母树属 wen mu shu shu

Shrubs or small trees, evergreen; branches with 1 prophyll, stellately pubescent or lepidote when young; buds naked. Leaves distichous (rarely spiral), shortly petiolate; stipules caducous, leaving small scars; leaf blade leathery, margin entire or shallowly toothed towards leaf apex, venation pinnate; lateral veins usually prominent abaxially. Plants andromonoecious. Inflorescence a condensed panicle or botryoid, flowers distichously (or rarely spirally) arranged, axillary, ± sessile; each flower usually subtended by two (simple or 3-lobed) subopposite sepal-like bracteoles, sometimes lacking in male flowers. Flowers male or bisexual. Floral cup absent. Sepals and petals absent. Male flowers: stamens 1–8, filaments short, unequal, anthers ellipsoid, thecae 2-sporangiate, each dehiscing by a longitudinal slit, connective produced. Bisexual flowers: stamens 5–8, ovary superior, ovules 1 per locule; stigmas decurrent. Fruits distichously (or rarely spirally) arranged, sometimes pedicellate. Capsules ovoid-globose, woody, stellately tomentose, dehiscing above middle by two 2-lobed valves, apex acute. Seeds 1 per locule, narrowly ovoid. $2n = 24$.

About 18 species: China, NE India (Assam), Indonesia (Java, Sumatra), Japan (Ryukyu Islands), Korea, Malaysia; 12 species (11 endemic) in China.

- 1a. Young branches, buds, and abaxial side of leaf blade lepidote or glabrous.
 - 2a. Leaf blade abaxially densely lepidote 4. *D. elaeagnoides*
 - 2b. Leaf blade abaxially glabrous.
 - 3a. Leaf blade lanceolate or oblong, rarely oblanceolate, 3–4 times as long as wide 3. *D. myricoides*
 - 3b. Leaf blade elliptic, ca. 2 times as long as wide.
 - 4a. Leaf blade 3–6 × 1.5–3 cm, margin entire 1. *D. racemosum*
 - 4b. Leaf blade 7–12 × 4–7 cm, margin dentate near apex 2. *D. macrophyllum*
- 1b. Young branches and buds stellately tomentose; leaf blade glabrous or pubescent.
 - 5a. Leaf blade oblong, ovate or ovate-lanceolate, 5–14 × 2–6 cm, usually pubescent.
 - 6a. Leaf blade ovate or ovate-lanceolate, apex caudate-acuminate, base rounded.
 - 7a. Leaf blade 7–14 cm long, reticulate veins prominent 5. *D. pingpienense*
 - 7b. Leaf blade 4–6 cm, reticulate veins indistinct 6. *D. cuspidatum*
 - 6b. Leaf blade oblong, apex acute, base cuneate.
 - 8a. Leaf blade 6–9 cm, abaxially nearly glabrous 7. *D. chungii*
 - 8b. Leaf blade 10–15 cm, abaxially tomentose 8. *D. tsiangii*
 - 5b. Leaf blade usually lanceolate, rarely obovate-lanceolate or narrowly oblong, 2–6(–10) × 1–2 cm, abaxially glabrous.
 - 9a. Leaf blade narrowly lanceolate, 6–10 cm, petiole 5–8 mm 9. *D. dunnianum*
 - 9b. Leaf blade obovate-lanceolate, oblong, or broad-elliptic, 2–5 cm, petiole 1–3 mm.
 - 10a. Petiole densely stellately pubescent, trichomes divided to center 12. *D. gracile*
 - 10b. Petiole densely scaly, trichomes divided up to 1/2 radius.
 - 11a. Petiole scales subentire, closely appressed; leaf blade oblanceolate, entire or with 1 or 2 obscure subapical teeth 11. *D. buxifolium*
 - 11b. Petiole scales lacerate, not appressed; leaf blade obovate, usually with 2 or 3 subapical teeth on each side 10. *D. chinense*

1. *Distylium racemosum* Siebold & Zuccarini, Fl. Jap. 1: 178. 1835.

蚊母树 wen mu shu

Shrubs or trees; young branches stellately lepidote, older growth drying dark brown, glabrous; buds lepidote. Petiole 5–10 mm, sparsely stellately lepidote; leaf blade elliptic or obovate-elliptic, 3–7 × 1.5–3.5 cm, abaxially glabrescent, adaxially drying green, shiny, base broadly cuneate, margin entire, apex obtuse or subacute; lateral veins 5 or 6 on each side, reticulate veins indistinct on both surfaces. Inflorescences 1.8–2 cm; peduncle glabrous. Floral bracts lanceolate, 2–3 mm. Stamen filaments 1.5–2 mm; anthers red, 2.5–3.5 mm. Ovary stellately tomentose; styles 6–7 mm. Fruiting pedicels less than 2 mm. Capsules 1–1.3 cm, stellately pubescent with brown hairs, apex acute. Seeds ovoid, 4–5 mm. Fl. Apr–Jun, fr. Jun–Aug.

Forests; 1000–1300 m. Fujian, Hainan, Taiwan, Zhejiang [Japan (Ryukyu Islands), Korea].

2. *Distylium macrophyllum* H. T. Chang, Acta Sci. Nat. Univ. Sunyatsen. 1960(1): 39. 1960.

大叶蚊母树 da ye wen mu shu

Shrubs or small trees, to 5 m tall; young branches angular, stellately lepidote; buds narrowly ovoid, ca. 6 mm, stellately pubescent, stellately lepidote. Petiole 7–10 mm, stout, glabrescent; leaf blade elliptic or ovate-elliptic, 7–12 × 3.5–6.5 cm, drying discolorous, both surfaces glabrous, base rounded or obtuse, margin entire or apically dentate, teeth mucronate, apex acute or subobtuse; lateral veins 5 or 6 on each side, reticulate veins more prominent abaxially. Inflorescences 5–7 cm; fruiting peduncle stellately lepidote. Flowers not seen. Fruiting pedicels 2–5 mm, glabrous. Capsules 1.2–1.5 × 1–1.2 cm; per-

sistent styles 2–4 mm, stellately pubescent with yellow-brown hairs. Seeds 5–7 mm. Fr. Aug.

- Forests; 1000–1200 m. N Guangdong, NW Guangxi.

3. *Distylium myricoides* Hemsley, Hooker's Icon. Pl. 29: t. 2835. 1907.

杨梅蚊母树 yang mei wen mu shu

Distylium myricoides var. *nitidum* H. T. Chang.

Shrubs or small trees; young branches stellately lepidote, older growth drying gray-brown, glabrescent, lenticellate; buds stellately pubescent, stellately lepidote. Petiole 5–8 mm, lepidote hairy; leaf blade oblong or oblanceolate, 5–11 × 2–4 cm, drying discolorous, both surfaces glabrous, base cuneate, margin entire or toothed above middle, apex acute; lateral veins 6 on each side, reticulate veins somewhat prominent abaxially. Inflorescences 1–3 cm; peduncle lepidote. Bracts lanceolate, 2–3 mm. Floral bracts 2–3 mm, lepidote. Stamen filaments less than 2 mm; anthers red, 2–3 mm. Ovary stellately pubescent; styles 6–8 mm. Capsules ovoid-globose or subovoid, 1–1.2 cm, stellately pubescent with yellow-brown hairs, apex acute or obtuse, dehiscing by 4 valves. Seeds 6–7 mm. Fl. Apr–Jun, fr. Jun–Aug.

- Montane evergreen forests; 500–800 m. Anhui, Fujian, Guangdong, Guangxi, E Guizhou, Hunan, Jiangxi, Sichuan, SE Yunnan (Funing Xian), Zhejiang.

Distylium myricoides var. *macrocarpum* C. Y. Wu (Fl. Yunnan. 1: 134. 1977) was described from Yunnan (Funing Xian), but two type specimens (flowering and fruiting) were indicated, so the name is invalid under Art. 8.1 and 37 of the St. Louis Code.

4. *Distylium elaeagnoides* H. T. Chang, Acta Sci. Nat. Univ. Sunyatsen. 1959(2): 37. 1959.

鳞毛蚊母树 lin mao wen mu shu

Shrubs or small trees, to 6 m tall; young branches densely stellately lepidote, older growth drying gray-brown, glabrescent, lenticellate; buds ovoid, minute, densely stellately lepidote. Petiole 8–12 mm, stellately lepidote; leaf blade obovate or obovate-oblong, 5–10 × 2.5–4.5 cm, drying discolorous, abaxially densely silver-gray lepidote, adaxially glabrescent, base cuneate, margin entire, apex obtuse or rounded; lateral veins 4 or 5 on each side, reticulate veins obscure on both surfaces. Inflorescences 3–5 cm, fruiting peduncle lepidote. Flowers not seen. Capsules narrowly ovoid-globose, 1.4–1.6 × 0.6–0.8 cm, densely gray lepidote, base cuneate, apex acuminate, dehiscing by two 2-lobed valves; persistent styles 2–3 mm. Seeds ovoid, 5–6 mm. Fr. Aug.

- Montane evergreen forests; 800–1000 m. N Guangdong (Ruyuan Xian), Guangxi, S Hunan (Jianghua Xian).

5. *Distylium pingpienense* (Hu) E. Walker, J. Arnold Arbor. 25: 331. 1944.

屏边蚊母树 ping bian wen mu shu

Sycopsis pingpienensis Hu, Bull. Fan. Mem. Inst. Bot. 10: 149. 1940; *Distylium pingpienense* var. *serratum* E. Walker.

Shrubs or trees, 3–8 m tall; young branches brown stellately pubescent, older growth drying brown, glabrescent, lenticellate; buds brown tomentose. Petiole 5–10 mm, stellately pubescent; leaf blade ovate-lanceolate or lanceolate, 7–14 × 2.5–3.7 cm, drying discolorous, abaxially brown stellately pubescent or glabrescent, base rounded, somewhat asymmetrical, margin entire or apically 1–3-toothed, apex caudate-acuminate; lateral veins 6 on each side, reticulate veins somewhat prominent abaxially. Male inflorescences 1–1.5 cm; infructescences 3–5 cm. Bracts oblong, 6–7 mm, brown stellately pubescent. Floral bracts 2–3 mm, stellately tomentose. Stamen filaments unequal, 1.5–2.5 mm; anthers ovoid, 1.5–2 mm. Fruiting pedicels 3–4 mm, pubescent. Capsules ovoid-globose, 1–1.2 cm, stellately pubescent with brown hairs, apex acute, dehiscing by two 2-lobed valves. Seeds 5–6 mm. Fl. Apr–Jun, fr. Jun–Aug.

- Forests; 800–1000 m. N Guizhou (Suiyang Xian, Zunyi Shi), W Hubei (Badong Xian), SE Yunnan.

6. *Distylium cuspidatum* H. T. Chang, Acta Sci. Nat. Univ. Sunyatsen. 1959(2): 38. 1959.

尖尾蚊母树 jian wei wen mu shu

Trees to 7 m tall; young branches brown stellately pubescent, older growth drying gray-brown, glabrescent; buds ovoid, brown stellately pubescent. Stipules narrowly lanceolate, ca. 4 mm, pubescent; petiole 5–7 mm, densely stellately tomentose; leaf blade ovate, 5–7 × 2–3 cm, drying discolorous, both surfaces stellately tomentose when young, glabrescent, base rounded or broadly cuneate, margin entire or apically with several teeth, teeth mucronate, apex caudate-acuminate; lateral veins 3–5 on each side, reticulate veins indistinct on both surfaces. Infructescences terminal on shoots, with 2 or 3 basal leaves. Bracts lanceolate, 1.8–2 mm, pubescent. Stamen filaments very short; anthers 1.8–2 mm. Ovary stellately pubescent, hairs brown; styles 2–3 mm. Fruiting pedicels short or absent. Capsules ovoid-globose, 1–1.2 cm, brown stellately tomentose. Fl. Apr–Jun, fr. Jun–Aug.

- Forests; 1200–1400 m. Guizhou, E Yunnan.

7. *Distylium chungii* (Metcalf) W. C. Cheng, Contr. Biol. Lab. Sci. Soc. China, Bot. Ser., 8: 140. 1932.

闽粤蚊母树 min yue wen mu shu

Sycopsis chungii Metcalf, Lingnan Sci. J. 10: 414. 1931.

Trees, small; young branches brown stellately pubescent, older growth drying gray-brown, glabrous, lenticellate; buds stellately tomentose. Petiole ca. 10 mm, stellately tomentose; leaf blade oblong or ovate-oblong, 6–10 × 3–4 cm, drying discolorous, abaxially sparsely stellately tomentose or glabrescent, base broadly cuneate, margin entire or apically 1- or 2-toothed, teeth mucronate, apex acute or subobtusate; lateral veins 5 or 6 on each side, reticulate veins conspicuous on both surfaces. Infructescences 2–3 cm. Flowers not seen. Fruiting pedicels very short. Capsules 2 or 3, 1.2–1.5 cm, brown stellately tomentose, dehiscing by two 2-lobed valves; persistent styles 2–3 mm. Seeds 6–7 mm. Fr. Aug.

- Forests; 1000–1200 m. S Fujian, E Guangdong.

8. *Distylium tsiangii* Chun ex E. Walker, J. Arnold Arbor. 25: 331. 1944.

黔蚊母树 qian wen mu shu

Trees to 7 m tall; young branches rusty tomentose, older growth drying brown, glabrescent, lenticellate; buds ovoid, brown tomentose. Petiole 10–15 mm, densely tomentose; leaf blade oblong, 10–15 × 4–5.5 cm, abaxially brown stellately tomentose, adaxially glabrescent, base cuneate, margin entire or apically 1- or 2-toothed, apex acute; lateral veins 5–7 on each side, reticulate veins somewhat conspicuous on both surfaces. Infructescences terminal on shoots, 3–5 cm, with 2 or 3 basal leaves. Flowers not seen. Fruiting pedicels 2–4 mm. Capsules narrowly ovoid, 1.5–1.7 cm, densely tomentose, dehiscent by two 2-lobed valves; persistent styles ca. 3 mm. Seeds 8–9 mm. Fr. Jul.

- Forests; 1000–1200 m. Guizhou (Bazai, Dushanzi).

9. *Distylium dunnianum* H. Léveillé, Repert. Spec. Nov. Regni Veg. 11: 67. 1912.

窄叶蚊母树 zhai ye wen mu shu

Distylium lanceolatum Chun ex Cheng; *Myrica rapaneoides* H. Léveillé; *M. seguinii* H. Léveillé.

Shrubs or small trees, 2–6 m tall; young branches slightly angular, brown stellately tomentose, older growth drying gray-brown, glabrescent. Petiole 5–8 mm, stellately tomentose; leaf blade narrowly lanceolate, 6–10 × 1.2–2.2 cm, both surfaces glabrous or abaxially with tufts of hairs in axils of main veins, base rounded or broadly cuneate, margin entire, apex acute; lateral veins 6–9 on each side, reticulate veins somewhat conspicuous abaxially. Infructescences axillary, 3–5 cm. Flowers not seen. Capsules 1–1.2 cm in diam., dehiscent by 4 valves; persistent styles very short. Seeds 4–5 mm. Fr. Aug.

- Slopes and forests; 1200–1400 m. Guangdong, Guangxi, Guizhou, SE Yunnan (Funing Xian).

10. *Distylium chinense* (Franchet ex Hemsley) Diels, Bot. Jahrb. Syst. 29: 380. 1900.

中华蚊母树 zhong hua wen mu shu

Distylium racemosum Siebold & Zuccarini var. *chinense* Franchet ex Hemsley, J. Linn. Soc., Bot. 23: 290. 1887.

Shrubs to 1 m tall; young branches stout, internodes 2–4 mm, older growth glabrescent. Petiole 1.5–2 mm, densely lepidote; leaf blade elliptic to oblanceolate, 2–4 × 1–1.2 cm, both surfaces glabrous, base broadly cuneate, margin entire or with 2 or 3 teeth on each side near apex, apex subacute; lateral veins 5 on each side, reticulate veins obscure on both surfaces. Inflorescences 1–1.5 cm. Floral bracts ovate or lanceolate, 1.2–1.5 mm. Stamens 2–7, 4–7 mm; filaments slender; anthers ovoid. Capsules 0.7–0.8 cm, dehiscent by 4 valves; persistent styles 1–2 mm. Seeds 3–4 mm. Fl. Apr–Jun, fr. Jun–Aug.

- Wet places, river sides or stream sides; 1000–1300 m. Hubei, Sichuan.

11. *Distylium buxifolium* (Hance) Merrill, Sunyatsenia 3: 251.

1937.

小叶蚊母树 xiao ye wen mu shu

Myrsine buxifolia Hance, Ann. Sci. Nat. Bot., sér. 4, 15: 225. 1861; *Distylium buxifolium* var. *rotundum* H. T. Chang; *D. lipoense* Y. K. Li & X. M. Wang; *D. strictum* Hemsley.

Shrubs 1–2 m tall; young branches slender, glabrescent, older growth glabrous; internodes 1–2.5 cm. Leaves at least partly spirally and not distichously arranged. Petiole 1–3 mm; leaf blade oblanceolate, oblong-lanceolate, or obovate, 2–5 × 1–1.8 cm, drying discolorous, both surfaces glabrous, base narrowly cuneate, margin entire or apically with 1 tooth on each side, apex acute or obtuse, mucronate; lateral veins 3–6 on each side, reticulate veins obscure on both surfaces. Flowers not seen. Capsules 0.7–0.9 cm in diam.; persistent styles 1–2 mm. Seeds 4–5 mm. Fl. Apr–May, fr. Jun–Aug.

- River sides, stream sides; 1000–1200 m. Fujian, Guangdong, Guangxi, Guizhou, Hubei, Hunan, Sichuan, Zhejiang.

12. *Distylium gracile* Nakai, J. Arnold Arbor. 5: 77. 1924.

台湾蚊母树 tai wan wen mu shu

Trees to 10 m tall; young branches stellately pubescent, older growth glabrescent, lenticellate; buds stellately tomentose. Petioles 2–4 mm, stellately pubescent; leaf blade broadly ellip-

tic, 2–3 × 0.7–2 cm, drying discolorous, both surfaces glabrous, base broadly cuneate, margin entire or apically with 1 tooth on each side, apex obtuse, mucronate. Infructescences 1.5–3 cm. Flowers not seen. Capsules 1–3, 0.8–1 cm in diam., stellately pubescent; persistent styles very short. Fr. Jul–Aug.

- Forests; 1000–1200 m. Taiwan, NE Zhejiang (Putuo Xian).

