

## 15. SEMECARPUS Linnaeus f., Suppl. Pl. 25, 182. 1782.

肉托果属 rou tuo guo shu

*Melanocommia* Ridley; *Nothopegiopsis* Lauterbach; *Oncocarpus* A. Gray.

Inflorescence paniculate, terminal or axillary. Stamen filaments linear; anthers ovate-cordate, versatile. Disk cup-shaped. Ovary superior to semi-inferior, 1-locular and 1-ovulate; styles 3, free or united basally. Drupe ovate-globose, inserted on an inflated hypocarp formed by fused calyx and floral receptacle. Seed testa not fused with endocarp.

About 50 species: tropical Asia to Oceania; four species in China.

- 1a. Deciduous trees; leaf blade papery to thinly leathery..... 1. *S. microcarpus*  
1b. Usually evergreen trees; leaf blade leathery.  
2a. Leaf blade 25–50 cm; pedicel ca. 2 mm; petals more than 5 mm; fruit ca. 2.5 cm ..... 2. *S. longifolius*  
2b. Leaf blade 15–35 cm; pedicel less than 1 mm; petals 1.5–3 mm; fruit 1–2 cm.  
3a. Leaf blade glabrous abaxially; inflorescence ca. 15 cm; drupe rounded, ca. 1 cm in diam. .... 3. *S. reticulatus*  
3b. Leaf blade with hairs abaxially, or if rarely glabrous then with papillae; inflorescence 15–30 cm;  
drupe ovoid to broadly ellipsoid, 0.7–1.5 cm in diam. .... 4. *S. cuneiformis*

**1. *Semecarpus microcarpus*** Wallich ex J. D. Hooker, Fl. Brit. India 2: 31. 1876 [*“microcarpa”*].

小果肉托果 xiao guo rou tuo guo

Deciduous trees, ca. 18 m tall; branchlets purplish brown eventually turning grayish brown, minutely pubescent. Petiole 1–1.5 cm, ferruginous tomentose; leaf blade obovate, 9.5–16 × 5.5–8.5 cm, papery to thinly leathery, adaxially minutely pubescent along midrib, abaxially grayish white and sparsely pubescent, base acute or obtuse, margin entire or undulate, apex rounded or retuse, midrib slightly impressed adaxially, elevated abaxially, lateral veins ca. 15 pairs, prominent abaxially. Inflorescence paniculate, ca. 15 cm, densely ferruginous tomentose; floral subtending bracts ca. 1.5 mm, densely ferruginous tomentose. Male flower sessile, yellowish green; calyx densely gray minutely pubescent, lobes triangular, ca. 0.5 mm, margins ciliate; petals ovate, 1.5–2 mm, with grayish white minute pubescence and brown featherlike venation pattern; stamens 1.5–2 mm, filaments linear, ca. 1 mm, anthers ovoid; disk brown; sterile ovary yellow tomentose. Female flower and fruit not seen. Fl. Apr–Jun.

Hill forests; ca. 1200 m. SW Yunnan (Ruili) [N Myanmar].

**2. *Semecarpus longifolius*** Blume, Mus. Bot. 1: 188. 1850 [*“longifolia”*].

大叶肉托果 da ye rou tuo guo

*Buchanania halmaheirae* Miquel; *Semecarpus euphlebius* Merrill; *S. gigantifolius* S. Vidal; *S. lanceolatus* Merrill; *S. testaceus* Elmer; *S. verniciferus* Hayata & Kawakami.

Trees; branchlets gray, lenticellate. Petiole 1–3 cm; leaf blade oblong-lanceolate to ovate-lanceolate, 25–50 × 5.5–12 cm, leathery, glabrous on both surfaces, adaxially lucid, abaxially glaucescent, base obtuse, margin entire, apex acute to shortly caudate, midrib slightly elevated adaxially and elevated abaxially, lateral veins ca. 20 pairs, reticulate venation pattern prominent on both surfaces. Inflorescence paniculate, ca. 17 cm; floral subtending bracts ca. 1 mm, with ciliate margins.

Pedicel ca. 2 mm; flowers white. Calyx campanulate, ca. 2.5 mm, with 5 ± conspicuous teeth. Petals ovate-lanceolate, ca. 5.5 × 2.5 mm. Stamens shorter than petals; filaments linear, ca. 3 mm; anthers oblong, ca. 2 mm. Ovary ovoid, ca. 2 mm. Drupe rounded, ca. 2.5 × 2 cm.

Seashores. Taiwan (Hengchun peninsula, Hualian, Lan Yu) [E Indonesia, Philippines].

The name *Semecarpus subracemosus* Kurz has been misapplied to this species.

**3. *Semecarpus reticulatus*** Lecomte, Bull. Soc. Bot. France 54: 610. 1907 [*“reticulata”*].

网脉肉托果 wang mai rou tuo guo

Trees, 10–30 m tall; branchlets robust, grayish white, glabrous, striate and lenticellate. Petiole 1.5–5 cm, glabrous, channeled above, inflated at base; leaf blade oblanceolate, 15–30 × 4–7.5 cm, leathery, glabrous on both surfaces, adaxially lucid, glaucescent, base subrounded, margin entire, crisped, apex acute to shortly acuminate, midrib slightly impressed adaxially, elevated abaxially, lateral veins ca. 15 pairs, prominent abaxially, reticulate venation conspicuous on both surfaces. Inflorescence paniculate, ca. 15 cm, tomentose; floral subtending bracts 1–2 mm, tomentose. Pedicel 0.5–1 mm, grayish white tomentose. Calyx tomentose, lobes triangular ca. 0.5 mm with ciliate margins. Petals oblong to ovate-oblong, 1.5–2 × ca. 1 mm, sparsely mixed glandular-pubescent and tomentose. Stamen filaments linear, ca. 2 mm; anthers ca. 0.7 mm. Disk glabrous. Ovary tomentose. Drupe rounded, ca. 1 cm in diam., lower part covered by hypocarp. Fl. Feb–Apr, fr. May–Jun.

Hill forests; 500–1400 m. S Yunnan (Jinghong, Mengla) [Laos, N Thailand, Vietnam].

**4. *Semecarpus cuneiformis*** Blanco, Fl. Filip. 220. 1837.

钝叶肉托果 dun ye rou tuo guo

*Semecarpus elmeri* Perkins; *S. ferrugineus* Merrill; *S. lanceolatus* Ridley; *S. megabotrys* Merrill; *S. merrillianus* Perkins;

Fl. China 11: 355–356. 2008.

*S. micranthus* Perkins; *S. obtusifolius* Merrill; *S. perrottetii* Marchand; *S. philippinensis* Engler; *S. pilosus* Merrill; *S. ridleyi* Merrill; *S. taftianus* Perkins; *S. thyrsoides* Elmer; *S. whitfordii* Merrill.

Trees, 4–20 m tall; branchlets brownish. Petiole 1–3 cm, sparsely pubescent; leaf blade obovate-oblong to narrowly

elliptic, 8–35 × 2–9 cm, leathery, adaxially glabrous to minutely pubescent, abaxially variable in hairiness from densely tomentose or pubescent to rarely glabrous, with distinct papillae except on midrib and major veins, base cuneate to obtuse, margin entire, apex variable from acute to rounded, lateral veins 11–25 pairs, prominent abaxially, reticulate venation prominent abaxially, distinct to indistinct adaxially. Inflorescence paniculate, 15–30 cm, tomentose or pubescent; floral subtending bracts 0.5–3 mm. Pedicel missing or very short; flowers greenish white. Calyx lobes broadly ovate, 0.5–1 mm, obtuse apically. Petals ovate-oblong to elliptic, 1.5–3 mm, minutely pubescent to glabrous, longitudinally veined. Stamens 2.5–3 mm; anthers ca. 0.7 mm; staminodes in female flowers ca. 1 mm. Disk round, flat, 1–2 mm across, pilose. Ovary ca. 2 mm across, densely pubescent. Drupe ovoid to broadly ellipsoid, 1–2 × 0.7–1.5 cm, apex obtuse, lower part covered by hypocarp.

Disturbed open vegetation; lowlands. Taiwan (Lan Yu) [E Indonesia, Philippines].

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