
羊蹄甲属 yang ti jia shu

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*Bauhinia* sect. *Lasiobema* Korthals; *Lasiobema* (Korthals) Miq.; *Phanera* Loureiro; *Piliostigma* Hochstetter.

Trees, shrubs, or lianas, hermaphroditic, monoeocious, andromonoecious, or androdioecious. Leaves simple, bilobed or entire, rarely 2-foliolate with a shared upper pulvinus; primary veins 3–15, midvein ending with a free, small point; stipules caducous. Inflorescences solitary flowers, or many flowers in racemes, panicles, or corymbbs; bracts and bracteoles usually small and caducous. Hypanthium cupular, campanulate, or tubular. Calyx closed or open with 5 short or linear teeth at apex in bud, at anthesis spatheaceous, or regularly or irregularly split into 2–5 lobes. Petals 5, subequal to strongly differentiated, subsessile or prominently clawed, white, yellowish orange, pink, or purplish red. Stamens 2, 3, 5, or 10; anthers dorsifixed, longitudinally dehiscent. Staminodes present or not. Ovary 1- to many ovuled, sessile or with stalk; stigma small or prominent, variously shaped. Fruit flat, elliptic, oblong, obovoid, or linear, woody or thinly valved, dehiscent or indehiscent. Seeds few to many; endosperm present or not.

About 300 species: pantropical; 47 species (23 endemic, two introduced) in China.

The key is based on flowering material as there are too many species for which the mature legumes are not known. *Bauhinia tianlinensis* is known only from fruiting material so could not be included in the key. Legumes of China (Zhu et al., 37, 40, 42, 43, 47. 2007) listed a further five species not included in this manuscript: *B. clemensioum* Merrill from Guangxi; *B. galpinii* N. E. Brown cultivated in Hong Kong; *B. godefroyi* Gagnepain from Yunnan; *B. lahonensis* Gagnepain from Guangxi; and *B. stychnoides* Prain ex King from Yunnan.

1a. Calyx spatheaceous, splitting along one side or into 2 unequal lobes; trees or shrubs without tendrils; flowers with 5 or 10 fertile stamens (or with female flowers lacking anthers) (*B. purpurea* with 3 fertile stamens).

2a. Petals 0.7–1.2 cm.

3a. Flowers bisexual with 10 unequal fertile stamens and well-developed ovary; petals yellowish; legume 12–20-seeded .................................................................................................................. 8. *B. racemosa*

3b. Flowers unisexual, lacking either functional ovary or fertile anthers; petals white or greenish white; legume 2–10-seeded.

4a. Inflorescence leaf-opposed, 10–15-flowered; stamens ca. 10 mm; legume 6–10-seeded .................. 6. *B. viridescens*

4b. Inflorescence terminal, to 50-flowered, sometimes much condensed; stamens 5–6 mm; legume 2–7-seeded .................................................................................................................. 7. *B. brachycarpa*

2b. Petals 3–8 cm.

5a. Fertile stamens 10; petals white; leaf blade ovate-cordate to cordate.

6a. Leaf blade 3–7 × 4–8 cm, papery, abaxially tomentose ................................................................. 9. *B. tomentosa*

6b. Leaf blade 6–11(16) × 8–12.5 cm, subleathery, abaxially pubescent.

7a. Young shoots glabrous; leaf bifid to 1/3–2/5; legume sharply ridged near suture .......................... 1. *B. acuminata*

7b. Young shoots brownish pubescent or hirsute; leaf bifid to 1/4; legume not ridged near suture ....... 3. *B. hirsuta*

5b. Fertile stamens 3 or 5; petals pink, purple, or white with pink spots, occasionally all white; leaf blade orbicular, suborbicular, or broadly ovate.

8a. Fertile stamens 3, staminodes 5 or 6; leaf bifid to 1/3–1/2, lobes slightly acute or rarely rounded at apex ........................................................................................................................................ 4. *B. purpurea*

8b. Fertile stamens 5, staminodes 1–5, sometimes absent; leaf bilobed to 1/4–1/3, lobes rounded or narrowly rounded.

9a. Petals purplish, 5–8 cm; sterile hybrid not forming fruit .............................................................. 2. *B. ×blakeana*

9b. Petals white, often with pink or purple spots, 4–5 cm; legume linear, 15–25 × 1.5–2 cm .......... 5. *B. variegata*

1b. Calyx with 4 or 5 ± equal lobes; lianas usually with tendrils (*B. bohniana* an erect shrub 1–2 m high); flowers with 2 or 3 fertile stamens.

10a. Leaves 2-foliolate, primary veins 3–5 per lobe.

11a. Shoots hairy; leaf lobes acuminate; receptacle ca. 5 mm ................................................................. 37. *B. carcinophylla*

11b. Shoots glabrous; leaf lobes obtuse; receptacle 7–12 mm.

12a. Tendrils solitary; receptacle 10–12 mm; petals white, broadly obovate, ca. 9 mm ...................... 42. *B. didyma*

12b. Tendrils paired; receptacle 7–8 mm; petals pinkish with dark red stripes, spatulate, ca. 17 mm 24. *B. yunnanensis*

10b. Leaves entire or bifid for up to 1/2 length.

13a. Leaves entire to shallowly bifid for up to 1/6 length, primary veins 3–9.

14a. Petals orange or reddish, 25–30 mm ......................................................................................... 23. *B. coccinea*

14b. Petals white or greenish white (color not recorded for *B. cerifolia* or *B. wuzhengyi*), 2.5–10 mm.
15a. Leaf blade abaxially glabrous or nearly so.
16a. Leaf blade 1.5–4 cm; inflorescence a simple raceme, 5–9 cm ................................... 20. *B. venustula*
16b. Leaf blade 4.6–10 cm; inflorescence a panicle, or if unbranched then more than 10 cm.
17a. Leaf blade with primary veins 3–5, base attenuate or rounded; petals 4–10 mm; tendrils rare or apparently absent.
18a. Petals 4–5 mm; leaf base rounded ................................................................. 27. *B. paucinervata*
18b. Petals 7–10 mm; leaf base attenuate .................................................................. 31. *B. wuzhengyii*
17b. Leaf blade with primary veins usually 7–9, base shallowly cordate to truncate; petals 2.5–3 mm; tendrils usually present.
19a. Fertile stamens 3; petiole 2–4 cm; leaf blade 4–8 cm wide, papery; pedicel 3–4 mm .................................................................................................. 13. *B. scandens*
19b. Fertile stamens 2; petiole 4.5–5 cm; leaf blade 9–11 cm wide, leathery; pedicel ca. 18 mm ................................................. 15. *B. cercidifolia*
15b. Leaf blade abaxially pubescent.
20a. Inflorescence 7–25 cm, pedicels 3.5–15 mm; petals 3.5–6 mm; staminodes 2. 21a. Pedicel 3.5–4 mm .................................................................................................. 19. *B. lingyuenensis*
21b. Pedicel 10–15 mm.
22a. Leaf blade ovate or cordate; petals spatulate .................................. 17. *B. championii*
22b. Leaf blade suborbicular; petals obovate or oblong ........................................... 10. *B. longistipes*
20b. Inflorescence 3.5–8 cm, pedicels 15–22 mm; petals 6–10 mm; staminodes 7: 2 longer and free, others joined at base (not recorded for *B. apertilobata*).
23a. Flower bud ellipsoid with protruding apex; receptacle broadly funnelform; petals spatulate ............................................................................................................ 16. *B. apertilobata*
23b. Flower bud ovoid; receptacle cylindric or elongate; petals subrhombic, broadly obovate, or elliptic.
24a. Leaf blade 5–8 × 4–6.5 cm; receptacle 8–9 mm; petals unequal, 3 rhombic, 2 elliptic, claw 3–4 mm ................................................................. 44. *B. quinnanensis*
24b. Leaf blade 3–4 × 2–3 cm; receptacle ca. 15 mm; petals subrhombic, broadly obovate, or elliptic, claw 6–8 mm ..................................................................... 46. *B. ovatifolia*
25a. Erect shrubs, tendrils absent; petals pink ........................................................................................ 25. *B. bohniana*
25b. Lianas, tendrils present; petals white or light yellowish, rarely with pink veins or reddish base, or red or golden yellow (sometimes pale pink in *B. hainanensis*).
26a. Ovary glabrous.
27a. Leaf blade bifid for more than 1/2 length.
28a. Inflorescence ca. 5 cm; bracts and bracteoles ca. 3 mm; petals white with pink veins; legume 10–25 cm .............................................................................. 41. *B. corymbosa*
28b. Inflorescence 10–30 cm; bracts and bracteoles 5–9 mm, brushlike in young inflorescences; petals yellow or whitish yellow; legume 5–8 cm.
29a. Flower buds ovoid; staminodes 2; floral disk annular ......................................... 11. *B. comosa*
29b. Flower buds conical; staminodes 4; floral disk U-shaped ................................ 12. *B. esquirolii*
27b. Leaf blade bifid for 1/5–1/2 length.
30a. Fertile stamen filament 25–30 mm; receptacle 3–5 mm; leaf blade 8–18 cm.
31a. Pedicel 1–1.5 cm; calyx lobes not reflexed, one free, others in 2 adnate parts, ca. 6 mm; staminodes 2 ................................................................. 28. *B. hainanensis*
31b. Pedicel 2–2.8 cm; calyx lobes reflexed at anthesis, ovate, ca. 10 mm; staminodes 5–7 ........................................................................................................... 21. *B. chalcophylla*
30b. Fertile stamen filament 8–12 mm; receptacle 7–15(–30) mm; leaf blade 4–6(–9) cm.
32a. Shoots glabrous; calyx lobes 5; legume 12–15 cm ............................................ 45. *B. damiaoshanensis*
32b. Shoots reddish pubescent when young; calyx lobes 2 or 3; legume 18–25 cm ........................................................................................................ 40. *B. glauca*
26b. Ovary hairy, at least on sutures.
33a. Leaf blade abaxially glabrous.
34a. Stems glabrous; leaf blade with yellowish margin ........................................... 29. *B. japonica*
34b. Stems hairy at least when young; leaf blade uniformly green.
35a. Leaf blade 10–15 cm wide, bifid for up to 1/5 length; pedicel

白花羊蹄甲 bai hua yang ti jia

Shrubs or small trees, to 3 m tall. Young branches zigzag, glabrous. Petiole 2.5–4 cm, pubescent; leaf blade ovate-cordate to cordate, 9–12 × 8–12.5 cm, subleathery, abaxially grayish pubescent, adaxially glabrous, primary veins 9–11, secondary and higher order veins protruding, base cordate, apex bifid to 1/3–2/5, lobes acuminate or slightly acute at apex or rarely rounded. Inflorescence a raceme, with few (3–15) flowers, axillary, appearing cymose; peduncle short, pubescent as inflorescence axis; bracts and bracteoles linear, pubescent. Flower buds ca. 2.5 cm, acutely tapering and ending in 5 linear calyx teeth ca. 3 mm. Hypanthium tubular. Calyx spathe open on one side, shortly 5-toothed. Petals white, obovate-elliptic, 3.5–5 × ca. 2 cm, sessile. Fertile stamens 10 in 2 whors, subequal, 1.5–2.5 cm, pubescent on lower 1/3; anthers yellow, oblong. Ovary prominently stalked, pubescent or almost glabrous; style 15–20 mm; stigma peltate, ca. 3 mm in diam. Legume straight or slightly curved, linear-oblancoolate, compressed, 6–12 × ca. 1.5 cm, with stalk ca. 1 cm, apex acuminate, beaked; valves leathery, glabrous, sharply ridged near suture. Seeds 5–12, compressed, 8–10 mm in diam. Fl. Apr–Jun, fr. Jun–Aug.

Gangdong, Guangxi, Yunnan [Cambodia, India, Indonesia, Laos, Malaysia (Peninsular), Philippines, Sri Lanka, Thailand, Vietnam].


红花羊蹄甲 hong hua yang ti jia

Trees. Branches numerous; branchlets slender, pubescent. Petiole 3.5–4 cm, brownish pubescent; leaf blade orbicular or suborbicular, 8.5–13 × 9–14 cm, leathery, abaxially puberulent, adaxially glabrous, primary veins 11–13, base cordate or truncate, apex bilobed to 1/4–1/3, lobes rounded or narrowly rounded. Inflorescence racemose, terminal or axillary, or several racemes together forming a panicle, pubescent; bracts and bracteoles triangular, ca. 3 mm. Floral buds fusiform. Hypanthium tubular. Calyx spathe ca. 2.5 cm, with greenish or light reddish ridges. Petals purplish, lanceolate, 5–8 × 2.5–3 cm, shortly clawed. Fertile stamens 5, with 3 longer. Staminaodes 2–5, threadlike. Ovary prominently stalked, pubescent. Legume not produced. Fl. Nov–Mar.

Frequent in Fujian, Guangdong, Guangxi, Taiwan, and Yunnan [widely cultivated].

This is a hybrid between Bauhinia purpurea and B. variegata.
First collected from a garden in Hong Kong, it is now widely cultivated in the tropics as an ornamental tree.


粗毛羊蹄甲 cu mao yang ti jia

Bauhinia acuminata Linnaeus var. hirsuta (Weinmann) Craib.

Shrubs, to 3 m tall. Young branches brownish pubescent or hirsute. Stipules linear or spikelike, ca. 1 cm; petiole 2–5 cm, ridged; leaf blade broadly ovate or cordate, 6–11(–16) × 6–11 cm, subleathery, abaxially pubescent, adaxially glabrous, primary veins 9, base shallowly cordate, apex bifid to 1/4, lobes obtuse at apex. Inflorescence a short raceme, few (2–5) flowered, axillary or terminal; bracts and bracteoles linear, 3–6 mm, pubescent. Flower buds narrowly fusiform, pubescent, acuminate at apex, tapering into 5 linear, pubescent teeth 2–5 mm. Hypanthium tubular. Calyx spathe open on one side. Petals white, ovate-oblong, 3–3.5 × ca. 1.5 cm, sub sessile. Fertile stamens 10 in 2 whorls, subequal, to 2 cm, pubescent at base; anthers yellow, oblong. Ovary stalked, pubescent, style to 2 cm, glabrous; stigma small. Legume linear, flat, 15–25 × 1.5–2 cm; valves woody. Seeds 10–15, compressed, suborbicular, ca. 10 mm in diam. Fl. Feb–May, fr. Mar–Jul. 2n = 28.

Tropical forests, also cultivated; 1000–1500 m. Native in S Yunnan (Xishuangbanna); widely cultivated in S China [Cambodia, Laos, Myanmar, Thailand, Vietnam; widely cultivated in the tropics and sub-tropics].

1a. Petals with colored spots ........................ 5a. var. variegata
1b. Petals white ............................................. 5b. var. candida

5a. Bauhinia variegata var. variegata

洋紫荆(原变种) yang zi jing (yuan bian zhong)

Bauhinia variegata var. chinensis Candolle; Phanera variegata (Linnaeus) Bentham.

Petals with colored spots. Stamens 1–5.

Tropical forests, also cultivated; 1000–1500 m. Native in S Yunnan (Xishuangbanna); widely cultivated in S China [Cambodia, Laos, Myanmar, Thailand, Vietnam; widely cultivated in the tropics and sub-tropics].


白花洋紫荆 bai hua yang zi jing

Bauhinia candida Aiton, Hort. Kew. 2: 49. 1789; B. variegata var. alboflava de Wit.

Petals white. Stamens ?absent. 2n = 28*.

● Tropical forests, also cultivated. Native in S Yunnan (Xishuangbanna); widely cultivated in S China.

Two of us (Larsens) note that the absence of staminodes needs to be checked on Chinese materials as this is not the case for the species in SE Asia.


绿花羊蹄甲 liu hua yang ti jia

Bauhinia laui Merrill; B. polycarpa Wallich ex Bentham; B. viridescens var. laui (Merrill) T. C. Chen.

Shrubs or small trees, to 3 m tall, dioecious. Young branches pubescent; older branches whitish. Stipules narrowly triangular and tapering, ca. 2 mm; petiole 2–3.5 cm; leaf blade suborbicular, 5–9 × 6–10 cm, papery, abaxially pubescent, adaxially
ially glabrous, primary veins 7–9, base truncate or shallowly cordate, apex bifid to 1/2, lobes obuse at apex. Inflorescence a raceme, 4–8 cm, 10–15-flowered, opposite with leaves; bracts 2–3 mm, pubescent. Flower buds narrowly fusiform, 6–10 mm. Hypanthium turbinate, short. Calyx spathate open on one side. Petals greenish white, obovate-lanceolate, 7–12 mm, shortly clawed. Male flower: fertile stamens 10 in 2 whorls, subequal, ca. 10 mm; anthers oblong, 1–2 mm. Female flower: reduced stamens present; ovary shortly stalked, 6–8 mm; style short; stigma peltate, small. Legume straight or slightly curved, linear, compressed, 5–7 × 0.7–1 cm, beaked; valves leathery, glabrous. Seeds 6–10, green, ellipsoid, slightly compressed, ca. 3 mm in diam. Fl. Mar–Jul, fr. May–Jan.

Open forests; low elevations. Hainan, Yunnan [Cambodia, Laos, Malaysia, Myanmar, Vietnam].


鞍叶羊蹄甲 an ye yang ti jia

Bauhinia altefissa H. Léveillé, p.p.; B. bonatiana Pan-panini; B. brachycarpa var. cavaleriei (H. Léveillé) T. C. Chen; B. brachycarpa var. densiflora (Franchet) K. Larsen & S. S. Larsen; B. brachycarpa var. microphylla (Oliver ex Craib) K. Larsen & S. S. Larsen; B. cavaleriei H. Léveillé; B. densiflora Franchet; B. enigmatica Prain; B. faberi Oliver; B. faberi var. megaphylla Tang & Wang; B. faberi var. microphylla Oliver ex Craib.

Shrubs, erect or spreading, or small trees, to 5 m tall, dioecious or andro dioecious. Branches slender, puberulent when young, glabrous later. Stipules caducous, linear; petiole 1–6 cm; leaf blade suborbicular, 0.8–12 × 1–10 cm, papery or membranous, abaxially puberulent, adaxially glabrous or puberulent, primary veins 5–13, base truncate or shallowly cordate, apex bifid to ca. 1/2, lobes rounded at apex. Inflorescence a raceme, to 50-flowered, sometimes much condensed, terminal; bracts caducous, linear. Flower buds ellipsoid, puberulent. Hypanthium turbinate, short. Calyx open as a spathe into 2 lobes. Petals white, obovate to oblanceolate, 7–8 mm, shortly clawed. Male flowers: fertile stamens 10 in 2 whorls; filaments 5–6 mm; reduced ovary small. Female flowers: reduced stamens 10; ovary hairy, shortly stalked; style stout; stigma peltate. Legume elliptic to oblong olate, compressed, leathery, puberulent or nearly glabrous, dehiscent. Seeds 2–7, suborbicular, compressed. Fl. May–Jul, fr. Aug–Oct.

Open forests, dry mountain slopes; sea level to 3200 m. Chongqing, Gansu, Guangxi, Guizhou, Hubei, Shaanxi, Sichuan, Xizang, Yunnan [Laos, Myanmar, Thailand].

This is a polymorphic species, widely distributed in W China from Xishuangbanna in the south to Gansu in the north. At lower elevations and latitudes, as a small tree in open forests, its leaves can be much larger, but in habitats at higher elevations and latitudes, especially on slopes in dry river valleys, it is a small shrub no more than 30 cm tall, with leaves not exceeding 1 cm in diam.


总状花羊蹄甲 zong zhuang hua yang ti jia

Bauhinia parviflora Vahl; Piliostigma racemosum (Lamarck) Bentham.

Trees, deciduous, small, to 15 m tall. Bark blackish, rough; branches spreading or pendulous, zigzag, slender, glabrous. Stipules caducous; petiole 0.8–1.2 cm; leaf blade broadly orbicular, 1.5–4 × 2.2–6 cm, 7–9-veined, leathery, abaxially puberulent or glabrous, adaxially glabrous, base cordate, apex bifid to ca. 1/3, lobes rounded at apex. Inflorescence a lateral or terminal raceme, ca. 20-flowered; peduncle short; bracts and bracteoles linear. Flower buds obovoid, puberulent, apex protruding. Hypanthium turbinate, short. Calyx split spathaceously at anthesis. Petals yellowish, subequal, ob lanceolate, 8–10 mm, subsessile. Fertile stamens 10, unequal; filaments 6–7 mm; anthers small, ca. 3 mm. Ovary stalked, glabrous; stigma subsessile, peltate, small. Legume linear-cylindric, 15–20 × 1.8–2.2 cm; valves woody, glabrous. Seeds 12–20, dark brownish, ellipsoid, 8–10 mm in diam. Fl. Apr–May, fr. Jun–Aug. 2n = 28.

Dry river valleys. Yunnan [Cambodia, NE India, Myanmar, Thailand, Vietnam].


黄花羊蹄甲 huang hua yang ti jia

Shrubs, erect, to 4 m tall. Young branches puberulent. Stipules linear, ca. 1 cm; petiole 1.5–3 cm, slender; leaf blade suborbicular, 3–7 × 4–8 cm, papery, abaxially tomentose, adaxially glabrous, base cordate, 7–9-veined, apex bifid to ca. 1/2, lobes rounded at apex. Inflorescence a lateral raceme, 1–3-flowered; pedicel short; bracts and bracteoles linear, 4–7 mm. Flower buds fusiform, ca. 2 cm, puberulent. Hypanthium turbinate, ca. 5 mm. Calyx split spathaceously at anthesis. Petals light yellowish, subequal, broadly obovate, 4.5–5.5 × 3–4 cm, subsessile. Fertile stamens 10, unequal; filaments 1–2 cm, puberulent at base. Ovary stalked, tomentose; style slender, glabrous; stigma peltate, small. Legume flat, linear, 7–15 × 1.2–1.5 cm, sutures not ridged; valves leathery, velutinous. Seeds brownish, suborbicular, compressed, 6–8 mm in diam. Fl. and fr. almost year round. 2n = 28.

Widely cultivated as ornamental plants in China. Fujian, Guangdong, Guangxi, Hainan, Taiwan, Yunnan [origin in tropical Asia, probably indigenous to India; cultivated elsewhere].


长柄羊蹄甲 chang bing yang ti jia

Lianas, woody. Stems canaliculate or angulate, brownish puberulent; tendrils compressed when young, later cylindric. Stipules caducous; petiole 1.5–2 cm; leaf blade suborbicular, 3.5–4.5 × 3–5 cm, papery, abaxially pubescent when young, later glabrous, adaxially glabrous, primary veins 7, base truncate or cordate, apex bifid to only 1/6, lobes obtuse or rounded at apex. Inflorescence an elongated raceme, 10–20 cm, more than 50-flowered, axillary, or a terminal panicle of 2 or 3 racemes; bracts linear, ca. 5 mm; bracts and bracteoles brush-like in young inflorescences. Flower buds ellipsoid, ca. 3 mm, apex open with 5 teeth. Hypanthium cupular. Flowers small, 3 or 4 whorls per inflorescence node; pedicel 10–15 mm, slender, pubescent. Calyx lobes 5, triangular-lanceolate, 2–2.5 mm, out-
side pubescent. Petals subequal, obovate or oblong, 3.5–4 × 1.5–2.8 mm including a claw 1–1.5 mm, outside from middle to apex hairy. Fertile stamens 3; filaments 6–7 mm, glabrous. Stamens 2. Floral disk annular, with lobes, fleshy, swollen. Ovary glabrous, with a slender stalk, oblique; style ca. as long as ovary stalk; stigma capitulate, small. Legume unknown. Fl. Aug–Sep, fr. Nov–Dec.


川滇羊蹄甲 chuan dian yang ti jia

Bauhinia henryi Harms (1921), not Craib (1913); B. mairei Harms; B. saxatilis Craib; Lasiobema comosa (Craib) A. Schmitz.

Lianas, woody. Branches brownish puberulent; tendrils solitary or in pairs. Stipules caducous; petiole 2–3 cm; leaf blade broadly ovate or suborbicular, 3–6 × 2.8–6.5 cm, rigidly papery, abaxially glabrous or puberulent when young, adaxially glabrous, primary veins 7–9, base cordate or truncate, apex bident to more than 1/2, lobes oblong or rounded at apex. Inflorescence an elongated raceme, 10–20 cm, many flowered, terminal; bracts and bracteoles linear, 5–8 mm, brushlike in young inflorescences. Pedicel 8–13 mm. Flower buds ovoid, apex open with 5 teeth. Hypanthium cupular, 2–3 mm. Calyx lobes 5, reflexed at anthesis, broadly lanceolate, ca. 5 mm, outside pubescent. Petals yellow or whitish yellow, subequal, obovate or oblanceolate, 1.8–2 mm in diam., apex open. Calyx lobes 5, triangular, outside pubescent. Petals white, subequal, obovate to oblanceolate, ca. 3 mm, shortly clawed. Fertile stamens 3; filaments 6–7 mm, glabrous. Stamens 2, much reduced to less than 1 mm. Floral disk fleshy, swollen. Ovary stalked, oblique; style ca. as long as ovary stalk, stout; stigma small, truncate. Legume linear-oblong, 5–8 × 1.5–1.7 cm; valves woody, light brownish when dried. Seeds 2–5, suborbicular, compressed, ca. 9 mm in diam. Fl. Sep–Nov, fr. Nov–Dec.


元江羊蹄甲 yuanshan yang ti jia

Lasiobema esquirolii (Gagnepain) de Wit.

Lianas, woody. Branches cylindrical, puberulent; tendrils in pairs. Stipules caducous; petiole 1.5–2 cm, stout; leaf blade broadly ovate or orbicular, 4–7 × 4–6.5 cm, papery, abaxially yellowish white puberulent, adaxially glabrous when young, later glabrous, primary veins usually 9, base shallowly or deeply cordate, apex bident to more than 1/2, lobes triangular with obtuse apices. Inflorescence an elongated raceme, 10–30 cm, many flowered, terminal; bracts and bracteoles linear, 7–9 mm, brushlike in young inflorescences; rachis angulate. Pedicel 7–15 mm. Flower buds conical, acute, apex open with 5 teeth. Receptacle tapering to pedicel; calyx lobes 5, lanceolate, 5–6 mm, outside pubescent, tapering to apex, joined from middle. Petals yellow or whitish yellow, subequal, oblanceolate, ca. 7 mm, outside hairy, cucullate, clawed, apex acute. Fertile stamens 3; filaments 6–7 mm, glabrous; anthers oblong. Stamens 4, much reduced to less than 1 mm. Floral disk fleshy, swollen, U-shaped. Ovary stalked, oblique, glabrous; style ca. as long as ovary stalk, stam; stigma small, truncate. Legume linear-oblong, 5–8 × 1–1.7 cm; valves woody, light brownish when dried. Seeds 2–5, suborbicular, compressed, ca. 9 mm in diam. Fl. Sep–Nov, fr. Nov–Dec.


攀缘羊蹄甲 pan yuan yang ti jia

Bauhinia anguina Roxburgh; B. anguina var. horsfieldii Watt ex Prain; B. horsfieldii (Miquel) J. F. Macbride; B. japonica Maximowicz var. subhombicarpa (Merrill) Hiroe; B. scandens var. horsfieldii (Watt ex Prain) K. Larsen & S. Larsen; B. subhombicarpa Merrill; Lasiobema anguina (Roxburgh) Korthals ex Miquel; L. horsfieldii Miquel; L. scandens (Linnaeus) de Wit; L. scandens var. horsfieldii (Watt ex Prain) de Wit.

Lianas, large, woody. Branches cylindrical when young, planate when old, forming “monkey ladders,” puberulent, later glabrous; tendrils in pairs, puberulent. Stipules caducous; petiole 2–4 cm, slender; leaf blade ovate to broadly ovate, 5–9 × 4–8 cm, papery, both surfaces glabrous, primary veins usually 7–9, base shallowly cordate to truncate, entire or on flowering branches, apex bident to more than 1/2 in sterile or juvenile branches, lobes with obtuse or acuminate apices. Inflorescence an elongated raceme, 10–15 cm, many flowered, or several joined in a panicle 15–25 cm, terminal, puberulent; bracts and bracteoles linear. Pedicel 3–4 mm, slender. Flower buds ovoid, 1.8–2 mm in diam., apex open. Calyx lobes 5, triangular, outside pubescent. Petals white, subequal, oblate to oblanceolate, ca. 3 mm, shortly clawed. Fertile stamens 3; filaments glabrous. Stamens 2. Floral disk fleshy, swollen. Ovary shortly stalked, oblique, glabrous; style stout; stigma small. Legume rhombic to oblong, 1.8–3 × 1–1.6 cm, indehiscent or tardily dehiscent; valves thin, reticulate veined. Seeds 1 or 2(–4), ellipsoid to obvoid-orbicular, ca. 8 mm in diam. Fl. Oct, fr. Dec.

Open forests in hills. Guizhou, Yunnan.

Disturbed forests in valleys, among shrubs in coastal habitats. Hainan [Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, Thailand, Vietnam].


薄荚羊蹄甲 bao jia yang ti jia

Lasiobema delavayi (Franchet) A. Schmitz.

Lianas, woody. Branches slender; young branches angulate, puberulent; tendrils in pairs, slightly compressed, brownish or grayish puberulent. Stipules caducous; petiole 2–4.5 cm, puberulent; leaf blade suborbicular, 5–8 × 4–8 cm, subleathery, abaxially throughout puberulent when young, only veins puberulent when old, adaxially glabrous, primary veins 7–9, base shallowly or deeply cordate, broadly bident to 1/3–2/5; lobes ovate, with acute, acuminate, or obtuse apices. Inflorescence an axillary raceme or terminal panicle composed of 2 or 3 racemes 6–20 cm, many flowered, bracts and bracteoles linear, 2–4 mm,
brushlike in young inflorescences; inflorescence rachis, pedicels, and calyx grayish or brownish puberulent. Pedicel 3–4 mm. Flower buds ellipsoid, ca. 2 mm. Calyx mouth 5-toothed; receptacle ca. 3 mm; calyx lobes 5, persistent, triangular. Petals white, subequal, broadly elliptic, ca. 5 mm, cucullate, tapering into a short claw. Fertile stamens 3; filaments ca. 5 mm; anthers oblong. Stamens 2 or 3, ca. 1.5 mm. Floral disk fleshy, swollen, lobed. Ovary shortly stalked, oblique, puberulent, becoming glabrous; style incurved, stout; stigma small, truncate. Legume subelliptic or oblong, compressed, 2–7 × 1.5–2 cm; valves leathery, thin. Seeds 2–5, suborbicular, compressed. Fl. Sep–Nov, fr. Nov–Dec.

- Open forests, disturbed hillsides. Yunnan.


紫荆叶羊蹄甲 Zi jing ye yang ti jia

Lianas, with tendrils. Branches angulate, puberulent when young, glabrous when older. Stipules caducous; petiole 4.5–5 cm, puberulent; leaf blade broadly ovate, 8–10 × 9–11 cm, leathery, base cordate, both surfaces glabrous, primary veins 7–9, veins convex on both surfaces, apex entire or emarginate. Inflorescence a panicle with lax racemes, puberulent; bracts subulate, ca. 2.5 mm; bracteoles similar but smaller, inserted at middle of pedicel. Pedicel ca. 1.8 cm. Flower buds subovoid, ca. 2.5 mm in diam. Hypanthium short. Calyx mouth 5-toothed; calyx segments 5, elliptic, apex acute. Petals subequal, suborbate, ca. 2.5 × 2 mm, not clawed, both surfaces pubescent. Fertile stamens 2. Staminal appendages unknown. Fl. Jun.

- Open habitats on karst hills. Guangxi (Long’an).


阔裂叶羊蹄甲 Kuo lie ye yang ti jia

Bauhinia championii (Bentham) Bentham var. apertilobata (Merrill & F. P. Metcalf) Hiroe.

Lianas, woody, with tendrils. Young branches, petioles, and inflorescences puberulent. Stamens caducous; leaf blade ovate, broadly elliptic, or suborbicular, 5–10 × 4–9 cm, papery, abaxially brownish puberulent, losing most of pubescence upon maturing, adaxially subglabrous or thinly puberulent, primary veins 7–9, base rounded, truncate, or cordate, shallowly bifid with very broadly divergent lobes; leaves on flowering branches only slightly bifid or nearly truncate. Inflorescence 1 or 2 racemes, terminal or axillary, 4–8 × 4–7 cm; bracts linear, 4–7 mm; bracteoles small, inserted at middle of pedicels. Pedicel 1.8–2.2 cm. Flower buds ellipsoid, with a protruding apex, apex closed. Receptacle broadly funnelform; calyx lobes 5, lanceolate, reflexed upon anthesis. Petals whitish or greenish white, subequal, spatulate, 7–10 mm, shortly clawed. Fertile stamens 3; filaments 6–9 mm, glabrous. Ovary hairy on suture, shortly stalked; style short; stigma small. Legume thin, compressed, 2–7 × 1.5–2 cm; valves thin, glabrous. Seeds compressed, suborbicular. Fl. May–Jul, fr. Aug–Nov.

- Valleys, hillsides, open forests, thickets; 300–600 m. Fujian, Guangdong, Guangxi, Guizhou, Jiangxi.

17. Bauhinia championii (Bentham) Bentham, Fl. Hongk. 99. 1861 ["championi"].

龙须藤 Long xu teng


Lianas, with tendrils. Young branches and inflorescences puberulent. Stamens caducous; petiole 1–2.5 cm, slender; leaf blade ovate or cordate, 3–10 × 2.5–9 cm, papery to leathery, abaxially pubescent when young, pubescent or glabrous when old, adaxially glabrous, primary veins 5–9, base truncate to corolate; leaves on flowering branches entire with apex acute, obtuse, or emarginate, while those on sterile branches or juvenile branches usually deeply bilobed; lobes acute, acuminate, or obtuse at apex. Inflorescence a solitary raceme or several racemes joined in a panicle, terminal or axillary, 7–25 cm; bracts and bracteoles small. Pedicel 10–15 mm, slender. Flower buds ellipsoid, 2.5–3 mm; open flowers ca. 8 mm in diam. Receptacle funnelform, ca. 2 mm; calyx lobes 5, lanceolate, ca. 3 mm. Petals white, spatulate, 4–6 mm, outside pubescent along midvein, clawed. Fertile stamens 3; filaments ca. 6 mm, glabrous. Staminal appendages 2. Ovary shortly stalked, hairy on sutures; style short; stigma small. Legume obovoid-oblong, compressed, 7–12 × 2.5–3 cm; glabrous; valves leathery. Seeds 2–5, orbicular, compressed, ca. 12 mm in diam. Fl. Jun–Oct, fr. Jul–Dec. 2n = 28*.

Open or dense forests, thickets; low to middle elevations. Fujian, Guangdong, Guangxi, Hainan, Hubei, Hunan, Jiangxi, Taiwan, Yunnan, Zhejiang [Vietnam].


滇南羊蹄甲 Dian nan yang ti jia

Lianas, woody, with compressed tendrils. Stems and branches with small, protruding pits; young branches and inflorescence puberulent. Stamens caducous; petiole 1.5–4.5 cm, slender; leaf blade broadly ovate or ovate, 4.5–7 × 3.5–7 cm, papery, abaxially shiny brownish puberulent when young, glabrous puberulent when old, adaxially glabrous, primary veins 7–9, veins convex on both surfaces, base truncate to shallowly cordate, apex bifid to 1/3–1/2; lobes widely divergent, apex acuminate. Inflorescence a raceme or several racemes joined in a panicle, terminal or axillary, 7–15 cm, many flowered, brownish puberulent; bracts 3–4 mm; bracteoles ca. 1.5 mm. Pedicel 3–5 mm, stout, pubescent. Flower buds ellipsoid, ca. 5 mm, tapering at both ends. Receptacle funnelform; calyx lobes 5, erect at anthesis, lanceolate. Petals white, elliptic or obovate, ca. 4.5 × 2.5–3 mm, outside with golden hairs on midvein, claw 1.5–2 mm. Fertile stamens 3; filaments ca. 5 mm, glabrous. Staminal appendages 2 or 3. Floral disk not swollen. Ovary stalked, oblique, hairy on sutures and at base; style glabrous; stigma small. Legume oblong, compressed, ca. 6 × 2 cm, glabrous when mature; valves woody, smooth. Seeds 2, blackish, broadly elliptic, compressed, ca. 10 × 8 mm. Fl. Sep–Oct, fr. Oct–Dec.

凌云羊蹄甲 ling yun yang ti jia

Lianas, woody, with compressed, glabrous tendrils. Stems black when dry, cylindrical, covered with small pits; young branches canaliculate, brownish red puberulent. Stipules caducous; petiole ca. 2 cm, glabrous; leaf blade adaxially shiny, ovate, broadly ovate, or suborbicular, 5–7 × 4–7 cm, subleathery, abaxially brownish pubescent when young, subglabrous when old, adaxially glabrous, primary veins 7–9, veins dense, convex on both surfaces, base cordate, entire, or emarginate; lobes rounded or obtuse. Inflorescence a raceme or 5–9 racemes joined in a panicule, terminal or axillary, 9–15 cm, many flowered, brownish pubescent; peduncle short; bracts linear, 2.5–4 mm; bracteoles linear, inserted at middle of pedicel. Pedicel 3.5–4 mm, pubescent. Flower buds broadly ellipsoid. Receptacle funnelform, short; calyx lobes 5, ovate-triangular, ca. 2 × 1.5 mm, glabrous upon anthesis, reflexed. Petals white, ovate-oblong, elliptic, or broadly elliptic, 3–4 × 2.2–3 mm, margin wrinkled, claws 2–2.5 mm. Fertile stamens 3; filaments to 3 cm, slender, glabrous; anthers red. Staminodes 2. Ovary stalked, oblique, hairy on sutures and stalk; style glabrous; stigma small. Legume unknown. Fl. Jul.

- Open forests on karst hills. Guangxi.


小巧羊蹄甲 xiao qiao yang ti jia

Lianas, woody. Tendrils solitary or in pairs; stems slender, with dense, small, light brownish pits. Stipules caducous; petiole 0.6–2 cm, slender, glabrous; leaf blade adaxially shiny, broadly ovate or suborbicular, 1.5–4 × 1.4–4 cm, subleathery, abaxially subglabrous, adaxially glabrous, primary veins 5–7, veins thin and dense, convex on both surfaces, base truncate to shallowly cordate, entire, emarginate, or shallowly bifid (to less than 1/6); lobes obtuse at apex. Inflorescence a raceme, terminal or lateral, 5–9 cm; flowers densely arranged; bracts lanceolate, ca. 1.8 mm; bracteoles inserted below middle of pedicels, ca. 0.8 mm. Pedicel short, 4–6 mm, pubescent. Flower buds not known. Receptacle funnelform; calyx lobes 5, erect at anthesis, ovate, ca. 2 mm, pubescent, acute. Petals white, obovate or oblong, ca. 2.5 mm, outside with hairs on midvein, with prominent claw ca. 1.5 mm. Fertile stamens 3. Staminodes 2 or 3. Ovary stalked, oblique, hairy on sutures and at base; style glabrous; stigma small. Legume oblong, compressed, glabrous when mature; valves leathery, smooth. Fl. Oct, fr. Dec.

- Open forests on hills. Guangxi.


多花羊蹄甲 duo hua yang ti jia

Bauhinia euryantha L. Chen.

Lianas, woody. Young branches angulate, densely pubescent with brownish hairs; tendrils solitary or in pairs, pubescent. Stipules caducous, triangular-crescent-shaped; petiole 2–5.5 cm, pubescent; leaf blade broadly ovate or suborbicular, 8–11.5 × 6–11 cm, subleathery, abaxially brownish pubescent, adaxially thinly pubescent, primary veins 9–11, veins slightly convex abaxially, base cordate, apex bifid to 1/4–1/3; lobes acute, acuminate, or obtuse, margin slightly sinuous. Inflorescence racemose-corymbose, usually 3, terminal, many flowered; bracts and bracteoles linear, 3–4 mm, pubescent; bracteoles inserted at middle of pedicels. Pedicel 2–2.8 cm, densely pubescent. Receptacle cylindric, ca. 5 mm; calyx lobes reflexed at anthesis, ovate, ca. 10 × 3–5 mm, outside brownish pubescent. Petals white or light yellowish, spatulate, abaxially pubescent with rusty hairs on midvein, clawed, margin crisped. Fertile stamens 3; filaments to 3 cm, slender, glabrous; anthers red. Staminodes 5–7, 4–7 mm. Ovary stalked, glabrous; style 10–15 mm, slender, glabrous; stigma capitulate. Legume oblong, compressed, ca. 15 × 4 cm; valves woody. Seeds 5–7, elliptic, compressed. Fl. Jun–Jul, fr. Jul–Sep.

- Open forests along rivers and streams; 800–1000 m. Yunnan.


绯红羊蹄甲 fei hong yang ti jia

Phanera nervosa Wall. ex Bentham in Miquel, Pl. Jungh. 262. 1852; Bauhinia claviiflora L. Chen.

Climbers, robust, with tendrils. Branches brownish pubescent, later subglabrous. Stipules ovate-aureculate; petiole 1.5–3 cm; leaf blade suborbicular, 6–8 × 7–9 cm, subleathery, abaxially thinly pubescent, adaxially glabrous, veins 11–13, base shallowly cordate, apex bifid to ca. 1/3, lobes rounded at apex. Inflorescence racemose-corymbose, rusty pubescent; bracts lanceolate, cucullate, 1.3–1.8 cm; bracteoles similar to bracts but smaller, inserted at middle of pedicel. Pedicel 4–5 cm. Flower buds to 4.5 cm. Receptacle tubular, ca. 2 cm; calyx lobes reflexed, swollen, linear-lanceolate, 2.5–3 × ca. 0.4 cm, outside pubescent, apex acute. Petals white and reddish at base, subleathery, broadly obovate, ca. 3 × 2.2 cm, veins convex, apex emarginate, claw to 2 cm. Fertile stamens 3; filaments strong, ca. 3.5 cm, glabrous; anthers oblong, loosely hairy. Staminodes 2; filaments ca. 1.5 cm, slender. Ovary stalked, pubescent; style stout; stigma broadly disciform. Legume unknown. Fl. Sep.

Open forests; 1500–1600 m. Yunnan [India, Myanmar, Thailand].


绯红羊蹄甲 fei hong yang ti jia

Bauhinia ferruginea Roxburgh var. tonkinensis Gagnepain in Lecomte, Fl. Indo-Chine 2: 126. 1913.

Lianas, woody. Branches robust, rusty pubescent when young, subglabrous when old; tendrils glabrous. Stipules suborbicular, 4–5 mm in diam.; petiole 1.5–3 cm, slender; leaf blade oblong, 5.5–8 × 3–5 cm, leathery, mature leaves adaxially shiny, glabrous on both surfaces, primary veins 9, convex abaxially, impressed adaxially, base truncate or rarely cordate, emarginate or bifid to 1/6; lobes obtuse or rounded at apex. Inflorescence racemose-corymbose, 9–12 cm, rusty pubescent;
bracts lanceolate, cucullate, 10–12 × 6–7 mm. Pedicel 25–30 mm, densely pubescent. Flower buds ellipsoid, 15–18 mm, rusty pubescent. Receptacle cylindrical, 10–15 mm, angulate, base slightly swollen; calyx lobes reflexed at anthesis, linear-lanceolate, 18–20 × 3–4 mm, outside rusty tomentose, inside glabrous. Petals orange or reddish, elliptic or obovate, 25–30 mm, outside rusty tomentose, inside less so, base tapering into claw ca. 1 cm. Fertile stamens 3; filaments exceeding petals. Ovary densely rusty tomentose; stalk 5–7 mm, stout; style 10–12 mm, pubescent; stigma peltate, large, ca. 3 mm in diam. Legume unknown. Fl. Feb–Apr.

Open forests in valleys; 800–1300 m. Yunnan [Vietnam].

Bauhinia coccinea subsp. coccinea (Phanera coccinea Loureiro) occurs in Cambodia and Laos.


云南羊蹄甲 yun nan yang ti jia

Bauhinia altefissa H. Léveillé, p.p.; B. diptera Collett & Hemsley (1890), not Blume ex Miquel (1850); Lasiobema yunnanensis (Franchet) A. Schmitz.

Lianas, woody, slender, glabrous. Branches angulate or cylindric; tendrils in pairs, subglabrous. Leaves 2-foliolate; stipules caducous; petiole 1.5–2.5 cm; leaf blade broadly elliptic, membranous or papery, both surfaces glabrous, primary veins 3 or 4 per lobe, base deep or shallowly cordate, apex bifid to upper pulvinus with a free macro; lobes obliquely ovate, 2–4.5 × 1–2.5 cm, apex obtuse or rounded. Inflorescence a raceme, terminal or opposite to leaves, 8–18 cm, 10–20-flowered; bracts caducous; bracteoles inserted at middle of pedicel. Pedicel 2–3 cm. Flower buds narrowly ellipsoid. Receptacle cylindric, 7–8 mm; calyx lobes split into 2 parts upon anthesis, cucullate, elliptic-ovate, with teeth at apex. Petals pinkish, with dark red stripes on veins, spatulate, ca. 17 mm, subglabrous, clawed. Fertile stamens 3; filaments curved, pinkish; anthers ovoid. Staminodes 7, much reduced. Ovary glabrous, prominently stalked; style slender; stigma capitate. Legume linear-oblong, 8–15 × 1–5.2 cm, apex beaked; valves leathery. Seeds broadly elliptic-oblong, compressed, 7–9 mm; testa blackish, shiny. Fl. Aug, fr. Oct.

Thickets on hills; 400–2000 m. Guizhou, Sichuan, Yunnan [Myanmar, N Thailand].


丽江羊蹄甲 li jiang yang ti jia

Shrubs, erect, 1–2 m tall. Young branches densely grayish brown pubescent, glabrous when old. Stipules caducous; petiole pubescent; leaf blade broadly orbicular, 5–7 × 6–8 cm, subleathery, abaxially rusty pubescent on young leaves, becoming less pubescent when old, adaxially grayish pubescent, primary veins 9–11, veins convex abaxially, base deeply cordate to almost truncate, apex bifid to 1/4; lobes with obtuse or rounded apices. Inflorescence corymbose-racemose, terminal or lateral, 6–7 cm in diam., rusty pubescent; bracts and bracteoles caducous, lanceolate. Pedicel 15–20 mm, pubescent. Flower buds upper part subovoid, constricted from middle downward. Receptacle funnelform, ca. 5 mm; calyx lobes 5, lanceolate, outside pubescent. Corolla pink, ca. 3.5 cm in diam.; petals broadly obovate, 10–12 mm in diam., outside golden hairy at middle, claw ca. 10 mm, pubescent. Fertile stamens 3; filaments to 3 cm, glabrous; anthers oblong, ca. 4 mm. Staminodes 6 or 7, ca. 2 cm, slender. Ovary stalked, golden tomentose on suture; stalk ca. 12 mm, pubescent; stigma small. Legume strap-shaped, compressed, 15–20 × 2.5–3 cm, apex beaked, sutures swollen; valves leathery, glabrous. Seeds subcordiform, compressed, ca. 12 × 9 mm; testa blackish, shiny. Fl. Apr–Aug, fr. May–Oct.

- Thickets on sunny hillsides; 1700–2000 m. Yunnan.


牛蹄麻 niu ti ma

Lianas, woody, with tendrils. Branches cylindric; young branches pubescent, later glabrous. Petiole 2.5–5(–7) cm; leaf blade broadly ovate to orbicular, 7–12(–15) × 6–9.5(–12) cm, papery-leathery or leathery, abaxially glabrous, pubescent on veins, puberulent, or rusty pubescent, axially glabrous, veins 7–9, convex on both surfaces, base broadly cordate or almost truncate, apex bilobed to 1/2–1/4; lobes crossing to cover each other, with acute apices. Inflorescence corymbose, or consisting of several corymbbs, terminal, 10–15 × 10–15 cm, rusty pubescent; bracts caducous; bracteoles linear, ca. 1 mm, inserted on lower part of pedicel. Pedicels 3–3.5 cm. Flower buds broadly ovoid or subglobose. Receptacle cylindric, ca. 5 mm; calyx lobes 4 or 5, reflexed at anthesis, ca. 7 mm, abaxially rusty pubescent. Petals red or golden yellowish, broadly spatulate, abaxially rusty pubescent, claw 2–4 mm. Fertile stamens 3; filaments glabrous. Staminodes 3. Ovary long stalked, glabrous but rusty pubescent on sutures; stigma peltate. Legume dehiscent, oblong-lanceolate, compressed, 15–20 × 4–10 cm, leathery, glabrous. Seeds 4 or 5, oblong, ca. 2 × 2 cm. Fl. Jul–Aug, fr. Sep–Dec.

Mixed forests. Hainan, Yunnan [India, Laos, N Thailand, Vietnam].

a. Leaves abaxially rusty hairy, and densely pubescent on petioles; petals golden yellowish ............................................. 26c. var. tomentella

b. Leaves abaxially glabrous, puberulent, or pubescent on veins; petals red.

2a. Leaves 7–12 × 6–9.5 cm, papery-leathery, veins 7–9, base broadly cordate or truncate ................. 26a. var. khasiana

2b. Leaves ca. 15 × 12 cm, leathery, veins 7, base cordate ..................... 26b. var. gigalobia

26a. Bauhinia khasiana var. khasiana

牛蹄麻(原变种) niu ti ma (yuan bian zhong)

Bauhinia dioscoreifolia L. Chen; B. howii Merrill & Chun; B. pierrei Gagnepain; B. polystachya Gagnepain.

Leaf blade 7–12 × 6–9.5 cm, papery-leathery, abaxially glabrous or pubescent on veins, veins 7–9, base broadly cordate or truncate. Petals red.

Mixed forests. Hainan [India, Laos, N Thailand, Vietnam].

巨葉牛蹄甲 ju jia niu ti ma

Petiole ca. 7 cm; leaf blade ca. 15 × 12 cm, leathery, abaxially puberulent, adaxially glabrous, veins 7, base cordate. Petals red. Legume dark brown, ca. 20 × 8–10 cm.

- Open forests; ca. 2000 m. Yunnan (Hekou).


毛叶牛蹄甲 mao ye niu ti ma


- Yunnan (Hekou).


少脉羊蹄甲 shao mai yang ti jia

Lianas, woody. Young branches and petioles brownish pubescent, later glabrous; tendrils rare. Stipules caducous; petiole 0.8–3 cm, slender, grayish pubescent at first, later glabrous; leaf blade shiny on both surfaces, ovate to elliptic, 4.6–10 × 2.5–5 cm, leathery, both surfaces glabrous, primary veins 3–5, veins convex on both surfaces, base rounded, margin entire, apex acuminate. Inflorescence racemose-corymbose, several joined together in a panicle, 9–10 × 5–7 cm, terminal or axillary, many flowered, grayish brown pubescent; bracts lanceolate, 2.5–3 mm, outside pubescent, acuminate; bracteoles linear, 1–1.5 mm, inserted above middle of pedicels. Pedicel 8–15 mm, slender, pubescent. Flower buds broadly ellipsoid, ca. 4 × 3 mm. Receptacle cylindric, ca. 3 mm; calyx lobes 5, not reflexed, lanceolate, 3 free, other 2 adnate, ca. 2.5 mm, outside pubescent. Petals white, obovate, 4–5 × 2.5–3 mm with a claw ca. 1 cm, abaxially yellowish brown hairy at middle, glabrous along margin, margin crisped. Fertile stamens 3; filaments 5–7 mm, glabrous. Staminodes 7. Floral disk not developed. Ovary distinctly stalked, 1–2 cm, densely pubescent with rusty hairs. Receptacle broadly funnelform, 1.5–2 mm; calyx lobes 5, broadly ovate-triangular, ca. 2 × 3 mm. Petals greenish, obovate-oblong, ca. 10 × 4.5 mm with a claw ca. 2.5 mm, abaxially silky hairy. Fertile stamens 3; filaments ca. 11 mm, glabrous. Staminodes 2. Ovary silky, hairy, with a stout stalk; style short; stigma small. Legume oblong, strap-shaped, swollen, 6–7 × 2.8 cm, pubescent when young, subglabrous when old; valves leathery, glabrous. Seeds 1–5, black, shiny, ensiform, ca. 10 × 7 mm. Fl. Dec., fr. next Apr.

- Open forests; low elevations. Guangdong, Hainan [Japan].


日本羊蹄甲 ri ben yang ti jia

*Bauhinia kwangtungensis* Merrill; *Lasiobema japonica* (Maximowicz) de Wit.

Lianas, woody, with tendrils, glabrous throughout except for inflorescences and immature fruit. Branches cylindric; twigs angular. Stipules caducous; petiole 3–4 cm; leaf blade shiny on both surfaces, with a yellowish margin, suborbicular, 4.9–4.9 cm, papery, both surfaces glabrous, primary veins 7–13, veins dense, base deeply cordate, apex bifid to 1/3–1/2 on flowering branches, lobes obtuse at apex. Inflorescence a raceme, 10–23 cm, many flowered, terminal, rusty pubescent; bracts narrowly lanceolate, ca. 3.5 mm, acuminate; bracteoles linear, ca. 1 mm. Pedicel 10–20 mm, slender. Flower buds obovoid, 4–5 mm, apex truncate with an opening. Receptacle broadly funnelform, 1.5–2 mm; calyx lobes 5, broadly ovate-triangular, ca. 2 × 3 mm. Petals greenish, obovate-oblong, ca. 10 × 4.5 mm with a claw ca. 2.5 mm, abaxially silky hairy. Fertile stamens 3; filaments ca. 11 mm, glabrous. Staminodes 2. Ovary rusty silky hairy, with a stout stalk; style short; stigma small. Legume oblong, strap-shaped, swollen, 4–7 × 2–2.8 cm, pubescent when young, subglabrous when old; valves leathery, glabrous. Seeds 1–5, black, shiny, ensiform, ca. 10 × 7 mm. Fl. Jan.–May, fr. Jun.–Sep.

- Open forests near coastal regions; low elevations. Guangdong, Hainan [Japan].


圓叶羊蹄甲 yuan ye yang ti jia

*Phanera macrostachya* Bentham.

Lianas, with tendrils. Young branches glabrescent. Stipules caducous; petiole 3.5–4.5 cm, glabrous; leaf blade suborbicular, 10–15 cm in diam., both surfaces glabrous, veins 9–11, base cordate, apex bifid to 1/5, lobes with acuminate or obtuse apices. Inflorescence a raceme or panicle; bracts lanceolate, ca. 3.5 mm, acuminate. Pedicel ca. 1.5 cm. Flower buds obovoid, ca. 1 cm, densely pubescent with rusty hairs. Receptacle bell-shaped; calyx lobes 5, ca. 4 mm, obtuse. Petals subequal, 6–12 mm with a claw 2–4 mm. Fertile stamens 3; filaments ca. 2 cm, pubescent. Staminodes 7. Ovary shortly stalked, ca. 1 cm, densely pubescent; bracteoles opposite, linear, inserted at middle of pedicels. Pedicel 10–15 mm, rusty pubescent. Flower buds ellipsoid. Receptacle funnelform, ca. 3 mm; calyx lobes 5, not reflexed, broadly ovate, 1 free, others in 2 adnate parts, ca. 6 mm, outside pubescent. Petals pinkish or white, broadly obovate, 8–9 mm with a claw ca. 1 mm, abaxially rusty hairy, shortly clawed, margin crisped. Fertile stamens 3; filaments ca. 25 mm, glabrous. Staminodes 2, ca. 7 mm. Floral disk fleshy. Ovary stalked, glabrous; style slender, glabrous; stigma capitate, small. Legume oblong, compressed, ca. 22 × 6 cm; valves hard woody, glabrous. Seeds 5–10, obovoid, compressed, ca. 20 mm. Fl. Dec., fr. next Apr.

- Open forests; ca. 1000 m. Yunnan (Hekou).
pubescent; style ca. 1 cm, glabrous; stigma small. Legume unknown.

Forest margins. Known in China from a single collection from Yunnan (Mengla) [NE India, Myanmar, Thailand, N Vietnam].


征镒羊蹄甲 zheng yi yang ti jia

Lianas, tendrils not seen. Branches glabrous. Stipules not seen; petiole 2.3–3 cm; leaf blade elliptic, 9–10.3 × 4.8–5.3 cm, subleathery, veins 3, base attenuate, margin entire, apex acuminate. Inflorescence terminal, racemose, elongate, grayish pubescent; bracts 4–5 mm, setaceous; bracteoles similar but smaller, subopposite, inserted below middle of pedicel. Pedicel 2.5–3 cm, finely grayish pubescent. Flower buds ellipsoid, 9–10 × 5–6 mm. Hypanthium obliquely campanulate, enlarged adaxially, ca. 4 mm, ca. 2 × length of abaxial portion. Calyx campanulate, open in bud, upper half split into 5 lobes; lobes 3–4 cm, apex acute. Petals subequal, 7–10 mm with a claw 2–3 mm, densely brownish pubescent on both sides except posterior one glabrous inside. Fertile stamens 3; filaments ca. 10 mm, glabrous; anthers 1.5–2 mm, glabrous, dehiscing longitudinally. Stamínodes 5–7. Pistil with thick stipe, free, 2–3 mm, brownish pubescent; ovary ca. 9 mm; style very short, glabrous; stigma subsessile, ± punctate. Legume unknown.

- Thin forests on mountain slopes; ca. 500 m. Yunnan (Malipo).


红毛羊蹄甲 hong mao yang ti jia

*Phanera pyrrhoclada* (Drake) de Wit.

Lianas, woody. Young branches, inflorescences, petioles, and abaxial leaf surfaces rusty pubescent; tendrils pubescent. Stipules sickleform, caducous; petiole 2.5–3.5 cm; leaf blade ovate-orbicular, 6–8.5 × 6–8.5 cm, subleathery, abaxially thickly rusty pubescent, later losing most of its pubescence and color, adaxially glabrous except on primary veins, primary veins 9–11, base cordate, apex bifid to 1/2 on flowering branches, lobes obtuse at apex. Inflorescence a raceme, pyramidal, flowers densely rusty tomentose, adaxially glabrous except near veins, primary veins 11–13, base deeply cordate, apex bifid to 1/3–1/2 on flowering branches, lobes obtuse or rarely acute at apex. Inflorescence a corymbose raceme, terminal or lateral, rusty tomentose; bracts narrowly triangular, 5–8 mm, outside pubescent; bracteoles similar but narrower, inserted on pedicel above middle. Pedicel 4–5 cm. Flower buds ovoid, 10–15 mm. Receptacle cupular, 7–9 mm; calyx lobes 5, ovate, ca. 13 mm, outside pubescent, obtuse. Petals white, subequal, obovate-suborbicular, ca. 15 × 10 mm, abaxially hairy, adaxially glabrous, claw ca. 5 mm. Fertile stamens 3; filaments ca. 25 mm, glabrous; anthers ellipsoid, ca. 4 mm. Stamínodes 2, much reduced. Ovary shortly stalked, 20–25 mm, densely tomentose; style 10–15 mm, glabrous; stigma capitate. Legume strap-shaped, compressed, dehiscing, 10–40 × 4.5–7.5 cm; valves hard woody, densely rusty tomentose. Seeds 2 or 3, broadly ellipsoid, compressed, ca. 20 × 15 mm. Fl. May, fr. Oct.

- Open forests on karst hills. Guangxi.


红背叶羊蹄甲 hong bei ye yang ti jia

*Bauhinia mirabilis* Gagnepain (1952), not Merrill (1929).

Lianas, woody, with tendrils. Branches robust; young branches angulate; new growth densely rusty hirsute. Stipules caducous, ca. 10 mm; petiole robust, 1.2–6 cm, rusty tomentose; leaf blade orbicular or broadly orbicular, 9–12.5 × 10.5–16 cm, leathery, abaxially thickly rusty tomentose and pubescent, more so on veins, adaxially glabrous except near veins, primary veins 11–13, base deeply cordate, apex bifid to 1/3–1/2 on flowering branches, lobes obtuse or rarely acute at apex. Inflorescence a corymbose raceme, terminal or lateral, rusty tomentose; bracts narrowly triangular, 5–8 mm, outside pubescent; bracteoles similar but narrower, inserted on pedicel above middle. Pedicel 4–5 cm. Flower buds ovoid, 10–15 mm. Receptacle cupular, 7–9 mm; calyx lobes 5, ovate, ca. 13 mm, outside pubescent, obtuse. Petals white, subequal, obovate-suborbicular, ca. 15 × 10 mm, abaxially hairy, adaxially glabrous, claw ca. 5 mm. Fertile stamens 3; filaments ca. 25 mm, glabrous; anthers ellipsoid, ca. 4 mm. Stamínodes 2, much reduced. Ovary shortly stalked, 20–25 mm, densely tomentose; style 10–15 mm, glabrous; stigma capitate. Legume strap-shaped, compressed, dehiscing, 10–40 × 4.5–7.5 cm; valves hard woody, densely rusty tomentose. Seeds 2 or 3, broadly ellipsoid, compressed, ca. 20 × 15 mm. Fl. May, fr. Oct.

- Open forests on karst hills. Guangxi.
36a. Bauhinia erythropoda

Leaves abaxially pubescent on veins or almost glabrous.  

Bauhinia moningerae Merrill.

Leaves abaxially pubescent on veins or almost glabrous.

36b. Bauhinia erythropoda var. guangxiensis

Leaves glabrous.


Lianas, with tendrils. Young branches brownish puberulent, later glabrous; tendrils pubescent when young. Leaves 2-foliolate or shortly united; petiole 3–6 cm, rusty or brownish pubescent; leaf blade adaxially shiny, 5–10 × 2.5–5 cm, papery, abaxially pubescent on veins, or almost glabrous, adaxially glabrous, smooth, veins 4 or 5 per lobe, base cordate; lobes sub-oblanceolate, suborbicular, acuminate. Inflorescence racemose-corymbose, terminal or lateral, axis rusty pubescent; bracts and bracteoles lanceolate. Pedicel ca. 1 cm, pubescent. Flowers fragrant. Receptacle cylindric, ca. 5 mm; calyx lobes reflexed at anthesis, oblong-elliptic, 10 mm, outside pubescent, inside glabrous, acuminate. Petals white, obovate to oblong-ovate, 18 mm. Fertile stamens 3; filaments ca. 12 mm, pubescent near base, glabrous above; anthers oblong, ca. 5 mm. Ovary shortly stalked, ca. 8 mm, densely rusty tomentose; style ca. 15 mm, slender, glabrous except at base; stigma peltate. Legume unknown.

Thickets in open habitats. Guangxi, Yunnan [N Vietnam].


Lianas, with tendrils. Young branches puberulent, later glabrous; tendrils pubescent when young. Stipules caducous; petiole 0.8–1.5 cm, stout, pubescent; leaf blade suborbicular, ca. 5 cm in diam., both surfaces pubescent, veins 9–13, base cordate, apex bifid to 1/3, with acute lobes. Inflorescence axis to 3.5 cm; bracts lanceolate, ca. 5 mm; bracteoles linear-lanceolate, ca. 4 mm, inserted beneath hypanthium. Hypanthium tubular, 6–8 mm. Calyx segments 2 or 3. Petals subequal, elliptic, including claw to 1.5 cm, outside densely hisrate, inside sparsely so, clawed, with acute apices. Fertile stamens 3; filaments pubescent in lower part. Staminodes 2–4. Ovary and style hairy; stigma peltate. Legume unknown. Fl. Apr.

Limestone hilltops. Guangxi (Tianyang).

This species is known only from the type locality.


Lianas, woody, robust, with tendrils. Young branches shiny, rusty hairy. Stipules caducous; petiole 8–11 cm, rusty tomentose; leaf blade cordate-oblanceolate or cordate-ovate, 18–21 × 16–18 cm, papery, abaxially rusty tomentose, later glabrous, adaxially glabrous, primary veins 9–11, base deeply cordate, apex bifid to 1/3–1/2 on flowering branches, lobes acute or obtuse-acuminate at apex. Inflorescence a corymbose raceme, terminal or lateral, many flowered, densely brown tomentose; bracts per-
sistent, lanceolate, 3–5 mm, pubescent; bracteoles oblong-lanceolate, inserted at middle of pedicel. Pedicel 2.5–5 cm, slender. Flower buds upper part pyriform. Receptacle cupular, short; calyx lobes 5, ovate, 6–7 mm, in 2 parts during anthesis, reflexed upon anthesis. Petals white, subequal, obovate, 15–25 × 10–15 mm, abaxially thinly pubescent, adaxially glabrous, shortly clawed, margin crisped. Fertile stamens 3; filaments ca. 30 mm, upper part glabrous; anthers oblong. Ovary subsessile, densely brown tomentose; style slender, glabrous; stigma capitellate, small. Legume shape-shaped, compressed, dehiscent, 18–30 × 4–6 cm; valves thick, hard woody, glabrous. Seeds 3 or 4, subcircular, compressed, ca. 27 mm in diam.

Mountain forests, open thickets; 100–800 m. Guangdong, Guangxi, Hainan, Yunnan [NE India, Laos, Myanmar, N Thailand, N Vietnam].

This is a polymorphic species. *Bauhinia ornata* var. *ornata* occurs in Myanmar.

1a. Leaves almost glabrous on both surfaces ........................................... 39a. var. *balansae*

1b. Leaves abaxially pubescent ......................... 39b. var. *kerrii*


光叶羊蹄甲  guang ye yang ti jia

*Bauhinia balansae* Gagnepain, Notul. Syst. (Paris) 2: 168. 1912; *B. petelotii* Merrill.

Leaves almost glabrous on both surfaces.

Yunnan [N Vietnam].


褐毛羊蹄甲  he mao yang ti jia


Leaves very variable, papery, abaxially pubescent, primary veins mostly marginal. Mature fruit brown tomentose.

Mountain forests, open thickets; 100–800 m. Guangdong, Guangxi, Hainan, Yunnan [NE India, Laos, Myanmar, N Thailand, N Vietnam].


粉叶羊蹄甲  fen ye yang ti jia

*Bauhinia glauca* Craib; *B. astrosinensis* Tang & Wang; *B. eberhardtii* Gagnepain; *B. inflexilobata* Merrill; *B. kerrii* var. *grandiflora* Craib; *B. ornata* var. *astrosinensis* (Tang & Wang) T. C. Chen; *B. ornata* var. *contigua* T. C. Chen; *B. ornata* var. *subumbellata* (Pierre ex Gagnepain) K. Larsen & S. S. Larsen; *B. rufa* (Bentham) Baker (1878), not Steudel (1840); *B. subumbellata* Pierre ex Gagnepain.

Petiole 2–4 cm; leaves relatively large, primary veins 7–11, apex bifid to 1/3–1/2; inflorescence relatively small. Flower buds glabrous to sparsely hairy. Receptacle 7–15 mm. Fertile stamens 3; filaments 12 mm including claw 2–3 mm. Ovary subsequently, connate at base. Ovary ca. 8 mm, glabrous, shortly stalked; style very short; stigma obliquely peltate. Legume flat, 18–25 × 3–5 cm, thinly valved, indehiscent. Seeds flat, ovoid, 5–8 mm.

Guangdong, Guangxi, Guizhou, Hubei, Hunan, Shaanxi, Yunnan [Cambodia, India, Indonesia, Laos, Malaysia (Peninsular), Myanmar, Thailand, Vietnam].

1a. Petiole 2–4 cm, leaves relatively small, primary veins 7–11, apex bifid to 1/3–1/2; inflorescence relatively small; flower buds glabrous to sparsely hairy; receptacle 7–15 mm ...... 40a. subsp. *glauca*

1b. Petiole 1–2(–3) cm, leaves relatively large, 7–9 cm, primary veins 9–11, apex bifid to only 1/5; inflorescence relatively large; flower buds hairy; receptacle 25–30 mm (longer than pedicel) ........................................... 40b. subsp. *tenuiflora*

40a. *Bauhinia glauca* subsp. *glauca*

41. Bauhinia corymbosa Roxburgh ex Candolle, Mém. Légum. 487. 1825.

首冠藤 shou guan teng

Lianas, woody, with tendrils. Young branches, inflorescences, and one side of tendrils rusty hirsutulous; twigs slender, glabrous; tendrils solitary or in pairs. Stipules caducous, small; petiole 1–2 cm, slender; leaf blade suborbicular, 2–4 × 2–5 cm, papery, abaxially rusty pubescent on veins and near base, adaxially glabrous, veins 7, base cordate to truncate, apex bifid to 3/4 or more on flowering branches, lobes rounded at apex. Inflorescence corymbose-racemose or elongated racemose, terminal on lateral branches, ca. 5 cm, many flowers; peduncle short; bracts and bracteoles linear, ca. 3 mm. Pedicel slender. Flower buds ovoid, rusty pubescent, acute. Receptacle cylindric, 18–25 mm, slender; calyx lobes 5, reflexed, lanceolate, ca. 6 mm, outside pubescent. Petals white, with pink stripes, broadly spatulate or suborbicular, 8–11 × 6–8 mm, abaxially hairy at middle, shortly clawed, margin crisped, apex rounded. Fertile stamens 3; filaments pinkish, ca. 10 mm, glabrous. Stamino-dodes 2–5. Floral disk not fleshy. Ovary stalked, glabrous; style short; stigma capitate. Legume strap-shaped, compressed, 10–12 mm; calyx lobes 5, ovate, 3–5 mm, acuminate. Pedicel slender, lowest ones to 20 mm, rusty pubescent. Flower buds ellipsoid to globose, rusty hirsute. Receptacle cylindric, 6–10 mm, base strongly enlarged on one side and appearing bladderlike, curved at straight angles with pedicels, pubescent; calyx lobes 5, ovate, 3–5 mm, acuminate. Petals greenish or yellowish white, suborbicular, ovate, or obovate, ca. 6 mm, abaxially hairy at middle, prominently clawed. Fertile stamens 3; filaments glabrous. Staminodes 7. Ovary stalked, 4–5 mm, pubescent on sutures and stalk; style short; stigma capitulate. Legume strap-shaped, compressed, 12–16 × 3–3.5 cm, indehiscent, glabrous, sutures slightly thickened. Seeds ellipsoid, compressed, ca. 8 × 6 mm; testa brown. Fl. Aug–Dec, fr. Sep–Feb.

Lianas, woody, with tendrils. Tendrils compressed, slender, pubescent on one side. Stipules caducous; petiole 1–2 cm, glabrous; leaf blade suborbicular, 3.5–6 × 4–6.5 cm, papery, abaxially thinly pubescent at first, pubescent only on veins and axes of primary veins in mature leaves, adaxially glabrous, veins 7–9, base cordate, apex bifid to 1/6–1/5, lobes obtuse or rounded at apex. Inflorescence 3 or 4 corymbose racemes, terminal on lateral branches, 6–9 cm, rusty pubescent; peduncle 1.5–4 cm, with a tendril at base; bracts and bracteoles threadlike, 6–9 mm, acuminate. Pedicel slender, lowest ones to 20 mm, rusty pubescent. Flower buds ellipsoid to globose, rusty hirsute. Receptacle cylindric, 6–10 mm, base strongly enlarged on one side and appearing bladderlike, curved at straight angles with pedicels, pubescent; calyx lobes 5, ovate, 3–5 mm, acuminate. Petals greenish or yellowish white, suborbicular, ovate, or obovate, ca. 6 mm, abaxially hairy at middle, prominently clawed. Fertile stamens 3; filaments glabrous. Staminodes 7. Ovary stalked, 4–5 mm, pubescent on sutures and stalk; style short; stigma capitulate. Legume strap-shaped, compressed, 12–16 × 3–3.5 cm, indehiscent, glabrous, sutures slightly thickened. Seeds ellipsoid, compressed, ca. 8 × 6 mm; testa brown. Fl. Mar–Jun, fr. Aug–Oct.

Open forests in valleys and on slopes; 500–1200 m. Guangxi, Guizhou, Yunnan [Laos, Myanmar, Vietnam].


黔南羊蹄甲 qian nan yang ti jia

Lianas, woody, with tendrils. Tendrils opposite, pubescent. Stipules caducous; petiole 1–2 cm, pubescent; leaf blade broadly ovate to suborbicular, 5–8 × 4–6.5 cm, papery, abaxially rusty pubescent, adaxially glabrous, veins 9, base shallowly cordate or nearly truncate, entire or apex emarginate. Inflorescence 1 or 2 corymbose racemes, terminal, 3.5–6 × 3.5–6 cm, 8–20-flowered, rusty pubescent; peduncle short, 5–12 mm; bracts threadlike, 5–7 mm; bracteoles linear, 4–6 mm, inserted at middle of pedicel. Pedicel 15–22 mm, rusty pubescent. Flower buds ovoid, rusty hirsute. Receptacle cylindric, 8–9 mm, base slightly swollen on one side, pubescent; calyx lobes...
5, reflexed, lanceolate, 5–6 × ca. 2 mm, outside rusty pubescent. Petals white, 3 rhombic, 2 elliptic, 6–8 × 4–7 mm including claw 3–4 mm, abaxially pubescent at middle, base cuneate, margin smooth. Fertile stamens 3; filaments 9–11 mm, glabrous. Stamens 7, 2 free ones longer, others joined at base. Ovary stalked, glabrous; style short; stigma capitate. Legume strap-shaped, much compressed, to 28 × 4–4.5 cm, indehiscent, glabrous, reticulate veined, sutures slightly salient. Seeds ellipsoid, compressed, ca. 8 × 6 mm; testa brown. Fl. May, fr. Aug.

● Thickets on mountain slopes; 1000–1300 m. Guizhou.


大苗山羊蹄甲 da miao shan yang ti jia

Lianas, woody, with tendrils. Twigs slender, glabrous; tendrils solitary, pubescent on one surface. Stipules caducous, lanceolate, small; petiole 1–3 cm, slender; leaf blade broadly oblong-circular, 2–5 × 2.5–6 cm, papery, abaxially pubescent on veins and near base, adaxially glabrous, veins 7, base cordate, apex bifid to 1/4 to 1/3 on flowering branches, lobes obtuse at apex. Inflorescence corymbose-racemose, terminal on lateral branches, 5–14 cm with a peduncle 1–4.5 cm; bracts linear-lanceolate, 4–7 mm; bracteoles linear, ca. 4 mm, inserted at middle of pedicel. Pedicel slender. Flower buds ovoid, rusty hirsute. Receptacle 6–9 mm, slender, base swollen on one side and curved at anthesis; calyx lobes 5, reflexed, lanceolate, 4–5 mm, outside pubescent. Petals white, broadly obovate or ovate, spatulate, 8–8.5 mm including a prominent claw 3–4 mm, base cuneate, margin crisped, apex rounded. Fertile stamens 3; filaments ca. 9 mm, glabrous. Staminodes 2–7. Floral disk not fleshy. Ovary shortly stalked, oblique, glabrous; style stout; stigma peltate. Legume oblong, 12–15 × 3–3.5 cm, indehiscent, glabrous, reticulate veined, sutures slightly swollen, apex beaked. Seeds 15–18, oblong. Fl. Jun, fr. Jul–Oct.

● Open forests. Guangxi.


卵叶羊蹄甲 luan ye yang ti jia

Lianas, woody, with tendrils. Young branches, petioles, and inflorescences rusty pubescent, later subglabrous. Stipules caducous; petiole 8–17 mm; leaf blade ovate, 3–4 × 2–3 cm, papery, abaxially pubescent on veins and near base, adaxially glabrous, veins 7, base rounded, margin entire or emarginate. Inflorescence corymbose-racemose, terminal on lateral branches, 5–7 cm; peduncle short, 5–6 mm. Pedicel 15–20 mm, slender. Flower buds ovoid, ca. 6 mm, apex acute. Receptacle elongate, ca. 15 mm, striped; calyx lobes 5, reflexed, lanceolate, 6–7 mm, adnate from middle downward, upper part rusty pubescent outside. Petals white, subhombic, broadly obovate, or elliptic, abaxially brown crinate from middle downward, claw prominent and 6–8 mm, base cuneate, margin crisped, apex rounded. Fertile stamens 3; filaments 11–12 mm, glabrous. Staminodes 7, largest 2 free, ca. 5 mm, others much smaller, joined in a digitate structure. Ovary shortly stalked, glabrous; style ca. as long as ovary, stout; stigma capitate. Legume oblong, 20–25 × 4–4.5 cm, glabrous, indehiscent. Seeds numerous, oblong. Fl. Dec, fr. next Apr–Jun.

● Open habitats on hill slopes; ca. 700 m. Guangxi, Yunnan.


田林羊蹄甲 tian lin yang ti jia

Lianas, with tendrils. Branches and tendrils pubescent. Stipules caducous; petiole 1–2 cm, pubescent; leaf blade ovate, 5–8 × 4.5–5.5 cm, abaxially pubescent, veins 7–9, base ± cordate, apex bifid to 1/4 with acute to rounded lobes. Inflorescence and flowers not seen. Legume oblong-strap-shaped, 20–30 × 5–6 cm, pubescent, indehiscent. Seeds many, oblong-ellipsoid, 6–10 × 3–5 mm.

● Disturbed open habitats on karst hills. Guangxi (Tianlin).