

8. EXOCHORDA Lindley, Gard. Chron. 1858: 925. 1858.

白鹃梅属 *bei juan mei shu*

Gu Cuizhi (谷粹芝 *Ku Tsue-chih*); Crinan Alexander

Shrubs deciduous. Branches spreading; branchlets angled, glabrous; buds ± ovoid, with several imbricate scales, glabrous or subglabrous, apex obtuse or acute. Leaves petiolate; stipules absent or small and caducous; leaf blade simple, margin entire or serrate. Inflorescence a terminal raceme. Flowers rather large, more than 2 cm in diam. Hypanthium shallowly campanulate. Sepals 5, very short and broad. Petals 5, imbricate, white, oblong to broadly obovate, base attenuate into a claw. Stamens 15–30; filaments borne on margin of large disk, short. Carpels 5, connate; ovary superior, deeply furrowed, 5-loculed; styles free. Fruit a capsule, obconic, 5-angled, dehiscent along both sutures. Seeds 1 or 2, oblate, winged.

About four species: C and E Asia; three species (two endemic) in China.

- 1a. Leaf blades serrate above middle 3. *E. serratifolia*
- 1b. Leaf blades mostly entire, occasionally serrate at apex.
 - 2a. Pedicels 3–5 mm; petals with short claws; stamens 15–20; petiole 5–15 mm or nearly absent 1. *E. racemosa*
 - 2b. Pedicels short or nearly absent; petals with long claws; stamens 25–30; petiole 15–25 mm 2. *E. giraldii*

1. *Exochorda racemosa* (Lindley) Rehder in Sargent, Pl. Wilson. 1: 456. 1913.

白鹃梅 *bai juan mei*

Amelanchier racemosa Lindley, Edwards's Bot. Reg. 33: t. 38. 1847; *Exochorda grandiflora* Lindley.

Shrubs to 3 m tall. Branchlets red-brown when young, later brown; buds dark purple, trigonous-ovoid, apex obtuse. Petiole 5–15 mm or nearly absent; leaf blade elliptic or narrowly so to oblong-obovate, 3.5–6.5 × 1.5–3.5 cm, glabrous on both surfaces, base cuneate or broadly so, margin entire, rarely obtusely serrate above middle, apex obtuse or acute, rarely apiculate. Raceme 2.5–3.5 cm in diam., 6–10-flowered; peduncle and pedicels glabrous; bracts broadly lanceolate, ca. 3 mm, glabrous. Flowers 2.5–3.5 cm in diam.; pedicel 3–5 mm. Hypanthium shallowly campanulate, glabrous. Sepals broadly triangular, ca. 2 mm, glabrous, apex obtuse or acute. Petals obovate, ca. 1.5 × 1 cm, base shortly clawed, apex obtuse. Stamens 15–20, 3- or 4-fascicled. Capsule glabrous; fruiting pedicel 3–8 mm. Fl. May, fr. Jun–Jul.

• Shady slopes; 200–500 m. Henan, Jiangsu, Jiangxi, Zhejiang.

2. *Exochorda giraldii* Hesse, Mitt. Deutsch. Dendrol. Ges. 17: 191, 219. 1908.

红柄白鹃梅 *hong bing bai juan mei*

Shrubs to 5 m tall. Branchlets green when young, red-brown when old; buds red-brown, pubescent at scale margins, apex obtuse. Petiole red or green, 1–2.5 cm, glabrous; leaf blade elliptic to narrowly so or oblong, rarely oblong-obovate, 3–4 × 1.5–3 cm, glabrous on both surfaces or abaxially pubescent, base cuneate or broadly so to rounded, rarely oblique, margin entire or serrate, apex obtuse or apiculate. Raceme 3–4.5 cm in diam., 6–10-flowered; peduncle and pedicels glabrous; bracts linear-lanceolate, ca. 3 mm, glabrous. Flowers 3–5 cm in diam.; pedicel short or nearly absent. Hypanthium shallowly campanulate, glabrous. Sepals nearly semiorbicular, ca. 2 mm, glabrous, apex obtuse. Petals obovate or oblong-obovate, 2–2.5 × ca. 1.5 cm, base attenuate into a long claw, apex rounded. Stamens 20–30, 3- or 4-fascicled. Capsule glabrous; fruiting pedicel 1–2 mm or nearly absent. Fl. May, fr. Jul–Aug.

• Scrub on slopes, rocky places in valleys; 600–2000 m. Anhui, Gansu, Hebei, Henan, Hubei, Shaanxi, Shanxi, Sichuan, Zhejiang.

- 1a. Petiole red, leaf blade elliptic or narrowly so, rarely oblong-obovate, margin entire, rarely obtusely serrate above middle; flowers 3–4.5 cm in diam.; stamens 25–30 2a. var. *giraldii*
- 1b. Petiole green, leaf blade elliptic to oblong, margin sometimes serrate; flowers ca. 5 cm in diam.; stamens 20–25 2b. var. *wilsonii*

2a. *Exochorda giraldii* var. *giraldii*

红柄白鹃梅(原变种) *hong bing bai juan mei (yuan bian zhong)*

Exochorda racemosa (Lindley) Rehder subsp. *giraldii* (Hesse) F. Y. Gao & Maesen; *E. racemosa* var. *giraldii* (Hesse) Rehder.

Petiole red, 1.5–2.5 cm; leaf blade elliptic or narrowly so, rarely oblong-obovate, margin entire, rarely obtusely serrate above middle. Flowers 3–4.5 cm in diam. Stamens 25–30.

• Scrub on slopes; 1000–2000 m. Anhui, Gansu, Hebei, Henan, Hubei, Shaanxi, Shanxi, Sichuan, Zhejiang.

2b. *Exochorda giraldii* var. *wilsonii* (Rehder) Rehder in L. H. Bailey, Stand. Cycl. Hort. 2: 1194. 1914.

绿柄白鹃梅 *lu bing bai juan mei*

Exochorda racemosa var. *wilsonii* Rehder in Sargent, Pl. Wilson. 1: 450. 1913.

Petiole green, 1–2 cm; leaf blade elliptic to oblong, margin sometimes serrate. Flowers ca. 5 cm in diam. Stamens 20–25.

• Rocky places in valleys; 600–1300 m. Anhui, Hubei, Sichuan, Zhejiang.

3. *Exochorda serratifolia* S. Moore, Hooker's Icon. Pl. 13: t. 1255. 1877.

齿叶白鹃梅 *chi ye bai juan mei*

Exochorda racemosa (Lindley) Rehder subsp. *serratifolia* (S. Moore) F. Y. Gao & Maesen.

Shrubs to 2 m tall. Branchlets red-purple when young, later dark purple; buds purple-red, ovoid, apex obtuse. Petiole 1–2 cm, glabrous; leaf blade elliptic to oblong-ovate, 5–9 × 3–5 cm, slightly pubescent when young, later glabrous, base cuneate or broadly so, margin entire below middle, serrate above middle, apex obtuse or acute. Raceme 3–4 cm, 4–7-flowered; peduncle and pedicels glabrous; bracts linear-lanceolate, ca. 3 mm, glabrous. Flowers 3–4 cm in diam.; pedicel 2–3 mm. Hypanthium shallowly campanulate, glabrous. Sepals triangular, ca. 2 mm, glabrous, apex acute. Petals oblong to obovate, ca. 1.5 × 1 cm, base long clawed, apex emarginate. Stamens ca. 25, 2–4-fascicled. Capsule glabrous; fruiting pedicel 2–3 mm. Fl. May–Jun, fr. Jul–Aug.

Scrub, slopes, river sides. NE Hebei (Wuling Shan), Liaoning (Qian Shan) [Korea].

Exochorda serratifolia var. *polytricha* C. S. Zhu (Acta Phytotax. Sin. 32: 432. 1994), described from N Henan (Jiyuan Xian), was said to differ in having the current year's branchlets, petioles, leaf blades abaxially, inflorescence rachis, and pedicels all densely white crisate pubescent.

