

12. MACLEAYA R. Brown, Obs. Pl. Denham Clapperton, 218. 1826.

博落回属 bo luo hui shu

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Herbs, perennial, erect, robust, basally lignified, 0.8–4 m tall, yellow lactiferous. Roots stoloniferous. Stems glaucous, terete, hollow, herbaceous, smooth. Leaves alternate, petiolate; blade pale glaucous abaxially, green or blue-green adaxially, broadly ovate or suborbicular, abaxially pilose or glabrous, adaxially glabrous, basal veins usually 5, lateral veins 1–3 pairs, veinlets netted, base cordate, usually 7- or 9-lobed, apex acute, obtuse, acuminate, or rounded; lobes undulate to serrulate. Flowers small, many forming large terminal panicles. Flower buds clavate or terete. Sepals 4, milky. Petals absent. Stamens 8–12 or 24–30; filaments filiform, not longer than anthers; anthers oblong. Ovary 1-loculed, 2-carpellate; ovules 1 or 4–6, basifixed or bilaterally attached; styles very short; stigmas 2-lobed. Capsule narrowly obovoid, oblanceolate, or suborbicular, shortly petiolate, 2-valvate. Seeds 1 and basifixed, or 4–6 and bilaterally attached, ovoid.

Two species: China and Japan; two species (one endemic) in China.

- 1a. Flower buds clavate; stamens 24–30, filaments almost as long as anthers; capsules narrowly obovoid or oblanceolate; seeds 4–6, attached bilaterally 1. *M. cordata*
- 1b. Flower buds terete; stamens 8–12, filaments obviously shorter than anthers; capsules suborbicular; seed 1, basifixed 2. *M. microcarpa*

1. *Macleaya cordata* (Willdenow) R. Brown, Obs. Pl. Denham Clapperton, 218. 1826.

博落回 bo luo hui

Bocconia cordata Willdenow, Sp. Pl. 2: 841. 1797; *Macleaya cordata* var. *yedoensis* (André) Fedde; *M. yedoensis* André.

Herbs, erect, basally lignified, yellow lactiferous. Stems green, glaucous, 1–4 m, smooth, branched above in inflorescence. Leaves: petiole 1–12 cm, adaxially shallowly channeled; blade glaucous abaxially, gray-green adaxially, broadly ovate or suborbicular, 5–27 × 5–25 cm, usually 7- or 9-parted or lobed, apex acute, acuminate, obtuse, or rounded; lobes semicircular, quadrate, deltoid, or orbicular, margin undulate, incised, or serrate to serrulate, abaxially sparsely villous, adaxially glabrous, basal veins usually 5, lateral veins 2 pairs, rarely 3, veinlets netted. Panicles large, terminal and axillary, multiflorous, 15–40 cm; bracts narrowly lanceolate. Pedicel 2–7 mm. Flower buds almost white, clavate, ca. 10 mm. Sepals yellowish white, obovate-oblong, cymbiform, ca. 10 mm. Stamens 24–30; filaments ca. 5 mm; anthers linear, ca. equal to filaments. Ovary obovoid

to narrowly obovoid, 2–4 mm, base attenuate, apex rounded; styles ca. 1 mm; stigmas 2-lobed, decurrent to styles. Capsule narrowly obovoid or oblanceolate, 1.3–3 cm × 5–7 mm, glabrous, base attenuate, apex rounded or obtuse. Seeds 4–6(–8), ovoid, 1.5–2 mm, attached bilaterally, sessile, seed coat with regular alveolate foveolae, narrowly carunculate. Fl. and fr. Jun–Nov. $2n = 10, 20^*$.

Foothills, forests, among shrubs or tussocks on low mountains, riversides, pool sides; 100–800 m. Anhui, S Gansu, Guangdong, Guizhou, Henan, Hubei, Hunan, Jiangxi, Shaanxi, Shanxi, Sichuan, Taiwan, Zhejiang [Japan].

2. *Macleaya microcarpa* (Maximowicz) Fedde, Bot. Jahrb. Syst. 36(Beibl. 82): 45. 1905.

小果博落回 xiao guo bo luo hui

Bocconia microcarpa Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 45. 1889.

Herbs, erect, basally lignified, yellow lactiferous. Stems 0.8–1 m, usually pistachio-colored, glaucous, smooth, hollow, much branched in inflorescence. Leaves: petiole 4–11 cm, upper explanate, usually not channeled; blade glaucous abaxially, green adaxially, broadly ovate or suborbicular, 5–14 × 5–12 cm, abaxially villous, adaxially glabrous, basal veins usually 5, lateral veins 1 pair, rarely 2, veinlets netted, base cordate, usually 7- or 9-parted or -lobed, apex acute, obtuse, or rounded; lobes semicircular, flabellate, or oblong, margin undulate, incised, serrate to serrulate. Panicles large, multiflorous, 15–30 cm, arising from stem and branch apices. Pedicel 2–10 mm. Flower buds terete, ca. 5 mm. Sepals narrowly oblong, cymbiform, ca. 5

mm. Stamens 8–12; filaments very short; anthers 3–4 mm, longer than filaments. Ovary obovoid, 1–3 mm; styles very short; stigmas 2-lobed. Capsule suborbicular, ca. 5 mm in diam. Seeds 1, basifixed, erect, ovoid, ca. 1.5 mm, seed coat foveolate, not carunculate. Fl. and fr. Jun–Oct. $2n = 10^*$, 20^* .

• Slopes, roadsides, grasslands, thickets, open shrublands; 400–1600 m. SE Gansu, Henan, W Hubei, Jiangsu, SW Jiangxi, Shaanxi, SE Shanxi, NE Sichuan.

