

5. MANNAGETTAEA Harry Smith, Acta Horti Gothob. 8: 135. 1933.

豆列当属 dou lie dang shu

Herbs small. Stems thick, short. Inflorescences subcapitate or subcorymbose; bract 1, long ovate or ovate-lanceolate; bractlets 2, linear or linear-lanceolate. Calyx tubular, apex 5-lobed. Corolla yellow or purple, bilabiate; tube longer than lip; upper lip entire or emarginate, larger than lower lip; lower lip 3-lobed. Stamens 4, included; anthers 2-celled, connective not elongated. Carpels 2; ovary 1-locular; parietal placentas 4. Style elongated; stigma subglobose. Capsule oblong or ovoid-globose. Seeds numerous; testa reticulate.

Two species: China, Russia; both species in China.

1a. Plants 10–11 cm tall; bractlets linear-lanceolate, 2–2.2 cm; corolla 5–6 cm, upper lip entire 1. *M. labiata*

1b. Plants 3–5(–8) cm tall; bractlets linear, ca. 1.5 cm; corolla 2.2–2.5(–3) cm, upper lip entire or 2-lobed 2. *M. hummelii*

1. **Mannagettaea labiata** Harry Smith, Acta Horti Gothob. 8: 137. 1933.

豆列当 dou lie dang

Herbs 10–11 cm tall. Leaves ovate-lanceolate, ca. 1.5 cm × 6–9 mm. Inflorescences subcapitate, in 8–10-flowered clusters at stem apex; bract ovate-lanceolate, 1.8–2.2 cm × 4–5 mm, apex acuminate, glabrous on both sides, along with bractlets and corolla lobes densely yellow-white tomentose at margin; bractlets linear-lanceolate, 2–2.2 cm. Pedicel obsolete or to 5 mm. Calyx tubular, 2.5–3 cm; lobes unequal, 1 smaller and 2–2.5 × 2–2.5 mm, 4 larger and 6–9 × 3–4.5 mm. Corolla yellow after drying, bilabiate, erect, 5–6 cm; tube gradually enlarged upward; upper lip 1.8–2 cm, entire; lower lip 3-lobed; lobes subequal, narrowly lanceolate, 1–1.2 cm × 3–4 mm, apex acuminate, glabrescent abaxially, densely tomentose adaxially, 1–3-veined. Filaments 3–3.5 cm, densely tomentose below middle; anthers ovoid, 3–3.5 mm, densely tomentose, base mucronate. Ovary ovoid, 7–7.5 mm. Style 4–4.5 cm, sparsely pubescent. Fruit unknown. Fl. Jun–Jul.

• Roadside, slopes; ca. 3600 m. Sichuan (Songpan Xian).

Parasitic on species of *Caragana* Fabricius.

2. **Mannagettaea hummelii** Harry Smith, Acta Horti Gothob. 8: 138. 1933.

矮生豆列当 ai sheng dou lie dang

Gleadovia kokonorica Keng; *Mannagettaea ircutensis* Popov.

Herbs 3–5 cm tall. Stems 1–1.5 cm. Leaves several, broadly ovate-triangular, 6–7 × 6–7 mm, glabrous, apex obtuse. Inflorescences corymbose; bract long ovate, 1.8–2.2 cm × 4–6 mm, margin densely tomentose, apex acuminate; bractlets 2, linear, adnate to upper part of pedicel or calyx base, 1.5–1.6 × 1–1.5 cm, usually 1-veined. Pedicel ca. 2 mm. Calyx tubular, 1.5–1.7 cm; lobes triangular, subequal, 3–5 × 2–4 mm, sometimes 2-lobed. Corolla purple, slightly curved, 2.2–2.5(–3) cm; tube densely villous at apex and adaxially; upper lip entire or 2-lobed, 5–8 mm; lower lip 3-lobed; lobes linear, 4–5 × 1–2 mm. Filaments 1–1.5 cm, densely tomentose on lower part; anthers ovoid, 1.6–1.8 mm, white pubescent, base mucronate. Ovary long ovoid, 6–

7 × 3–4 mm. Style 8–10 mm, glabrescent. Capsule oblong or ovoid-globose, 8–10 × ca. 6 mm. Seeds numerous, oblong, ca. 0.15 mm; testa reticulate. Fl. Jun–Jul, fr. Aug–Sep.

Slopes, thickets or forests; 3200–3700 m. SW Gansu, SE Qinghai [Russia].

Parasitic on species of *Caragana* Fabricius and *Salix* Linnaeus.

