

67. MICROSTIGMA Trautvetter, Pl. Imag. Descr. Fl. Russ. 36. 1845.

小柱芥属 xiao zhu jie shu

Herbs annual or perennial, tomentose. Trichomes stalked, dendritic, mixed with stalked glands, rarely glands absent. Stems simple or branched. Basal leaves petiolate, rosulate or not, simple, entire or dentate. Cauline leaves similar to basal. Racemes ebracteate, elongated in fruit. Fruiting pedicels thickened, strongly reflexed. Sepals oblong-linear or linear, connivent, base of lateral pair saccate, margin membranous. Petals yellow, creamy white, or purple-lilac; blade linear, narrowly oblong, or spatulate, apex obtuse or rounded; claw subequaling sepals. Stamens 6, strongly tetradynamous; filaments not dilated at base; anthers oblong-linear or linear, obtuse at apex. Nectar glands 2, lateral, annular; median glands absent. Ovules 4–16 per ovary. Fruit tardily dehiscent or indehiscent siliques or silicles, narrowly ovoid, ellipsoid, or oblong-linear, 4-angled or latiseptate, sessile, reflexed; valves thickened, woody or leathery, veinless, densely tomentose, glandular or eglandular, smooth or torulose; replum slightly flattened; septum complete, thickened, opaque, veinless; style stout, to 5 mm, pubescent; stigma capitate, 2-lobed. Seeds uniseriate, broadly winged, ovate or orbicular, strongly flattened; seed coat smooth, not mucilaginous when wetted; cotyledons accumbent.

Two species: China, Mongolia, Russia; one species in China.

1. *Microstigma brachycarpum* Botschantzev, Bot. Zhurn. (Moscow & Leningrad) 44: 1485. 1959.

短果小柱芥 duan guo xiao zhu jie

Microstigma junatovii Grubov.

Herbs annual, 7–25 cm tall, densely tomentose, glandular or rarely eglandular. Stems erect, simple or branched. Lower and middle cauline leaves with petioles 0.5–2.2 cm; leaf blade lanceolate, oblanceolate, or obovate, 0.9–2.5(–4) cm × 1.5–8(–20) mm, densely tomentose, base attenuate or cuneate, margin entire or few toothed, apex acute. Fruiting pedicels strongly reflexed, thickened, 2–3 mm. Sepals oblong-linear, 5.5–7(–9) × 0.7–1 mm, white margined. Petals creamy white or yellowish, linear, 1–1.5 cm × 0.8–1.5 mm. Median filament pairs 3.5–4 mm, lateral pair 2–2.5 mm; anthers linear-oblong, 1.3–1.6 mm. Ovules 4 per ovary. Fruit narrowly ovoid or ellipsoid, 0.9–1.6 cm × 3–4.5 mm, 4-angled, indehiscent; valves woody, not veined, densely covered with dendritic trichomes with stalks to 1.5 mm, sparsely glandular or eglandular, depressed at middle, strongly thickened at margin; septum leathery; style 3–4 mm. Seeds ovate, 2–2.8 × 1.4–1.6 mm; wing to 0.5 mm wide at distal end, narrower along margin. Fl. May–Jul, fr. Jun–Jul.

Dry mountain slopes; ca. 1900 m. Gansu [Mongolia].

Microstigma junatovii is an eglandular form of *M. brachycarpum* with slightly broader cauline leaves.

