

95. **SYNSTEMON** Botschantzev, Bot. Zhurn. (Moscow & Leningrad) 44: 1487. 1959.

连蕊芥属 *lian rui jie shu*

Synstemonanthus Botschantzev.

Herbs annual or biennial. Trichomes flattened, strongly crisped, simple or minutely stalked and forked. Stems erect or ascending, often branched basally. Basal leaves petiolate, rosulate or not, simple, pinnatipartite, or pinnatisect, often withered by flowering. Cauline leaves petiolate or sessile, not auriculate, entire or pinnatisect. Racemes ebracteate, elongated in fruit. Fruiting pedicels ascending or divaricate. Sepals oblong, ascending, base of lateral pair not saccate. Petals lavender, much longer than sepals; blade obovate, apex rounded; claw subequalling sepals, sparsely to densely pubescent. Stamens 6, tetradynamous; filaments glabrous or sparsely to densely pubescent on proximal half, slightly dilated at base, median pairs united only basally; anthers oblong, apiculate at apex. Nectar glands confluent and subtending bases of all stamens; median glands present. Ovules 20–36 per ovary. Fruit dehiscent siliques, linear, latiseptate, sessile or shortly stipitate; valves papery, with a distinct midvein, sparsely pubescent basally when young, torulose; replum rounded; septum complete, membranous, translucent, veinless; style to 1 mm; stigma capitate, entire. Seeds uniseriate, winged distally, oblong, somewhat plump; seed coat minutely reticulate, mucilaginous when wetted; cotyledons incumbent.

• Two species.

1a. Annuals; cauline leaves linear, sessile, entire, 0.5–1.7 mm wide; fruit straight; filaments sparsely to densely pilose basally 1. *S. petrovii*

1b. Biennials; cauline leaves narrowly lanceolate, petiolate, pinnatifid or pinnatisect, 3–10 mm wide; fruit arcuate; filaments glabrous 2. *S. lulianianus*

1. **Synstemon petrovii** Botschantzev, Bot. Zhurn. (Moscow & Leningrad) 44: 1487. 1959.

连蕊芥 *lian rui jie*

Synstemon deserticola Y. Z. Zhao; *S. petrovii* var. *pilosus* Botschantzev; *S. petrovii* var. *xinglongicus* Z. X. An; *Synstemonanthus petrovii* (Botschantzev) Botschantzev; *S. petrovii* var. *pilosus* (Botschantzev) Botschantzev.

Herbs annual, 15–30 cm tall. Stems often branched basally and above, sparsely pilose or glabrescent. Basal leaves shortly petiolate, not rosulate, often withered by flowering, pinnatipartite, 1–2 cm × 3–5 mm, apex acute. Cauline leaves linear, sessile, 0.5–4 cm × 0.5–1.7 mm, somewhat fleshy, margin entire, apex acute, sparsely pilose. Fruiting pedicels divaricate or ascending, slender, glabrous, 4–10 mm. Sepals oblong, 2–2.5 × 0.9–1.2 mm, glabrous or densely pilose. Petals lilac, obovate, 4–5.5 × 1.7–2.8 mm, apex rounded; claw 1–2.5 mm, sparsely to densely pilose. Filaments of median stamens 2–3.5 mm, united at base, sparsely to densely pilose on basal half; lateral stamens 1–2 mm, pilose basally; anthers oblong, 0.6–0.8 mm. Ovules 20–24 per ovary. Fruit linear, compressed, (0.5–)1.3–3 cm × 0.8–1.5 mm, straight; valves sparsely pubescent basally when young, soon glabrescent, with a distinct midvein; gynophore ca. 0.5 mm; style 0.5–1 mm. Seeds oblong, 1.2–1.7 × 0.7–0.9 mm. Fl. and fr. Jun.

• Slopes, deserts, rocky and sandy flats; 1500–2400 m. Gansu, Nei Mongol.

2. **Synstemon lulianianus** Al-Shehbaz et al., Novon 10: 102. 2000.

陆氏连蕊芥 *lu shi lian zhu jie*

Herbs biennial, 7–15 cm tall. Stems branched basally, unbranched above, sparsely pilose or glabrescent. Basal leaves petiolate, rosulate, often withered by flowering;

petiole 0.5–1.5 cm; leaf blade lanceolate, pinnatisect or pinnatifid, 1–2.5 cm × 4–10 mm, apex acute. Cauline leaves with petioles 1–4 mm; leaf blade narrowly lanceolate, 0.5–4 cm × 0.5–1.7 mm, glabrescent or pilose, pinnatisect, apex acute; lateral lobes oblong, 1–5 × 0.5–1 mm. Fruiting pedicels divaricate, slender, glabrous, 6–10 mm. Sepals oblong, 2.5–3 × 1.2–1.5 mm, sparsely pilose or glabrescent. Petals lilac, obovate, 4.5–6 × 2–3 mm, apex rounded; claw 2–2.5 mm, pilose. Filaments of median stamens 2.5–3 mm, united at base, glabrous; lateral stamens 1.5–2.5 mm, glabrous; anthers oblong, 1–1.1 mm. Ovules 28–32 per ovary. Fruit linear, compressed, 2–2.5 cm × ca. 1.2 mm, arcuate; valves sparsely pubescent basally when young, soon glabrescent, with a distinct midvein; gynophore obsolete; style ca. 0.5 mm. Seeds oblong, ca. 1.3 × 0.7 mm. Fl. and fr. Apr.

• Gansu.

This species is known only from the type collection, *Dushendenko* 156 (LE).

Flora of China 8: 185–186. 2001.