

**25. PLATYCRASPEDUM** O. E. Schulz, *Repert. Spec. Nov. Regni Veg. Beih.* 12: 386. 1922.

宽框芥属 kuan kuang qi shu

Herbs biennial or perennial. Trichomes simple. Roots fusiform, fleshy. Stems erect, short, and simple at base, with several, long, decumbent or ascending branches. Basal leaves unknown. Cauline leaves petiolate, repand-dentate or palmately lobed, the lobes not mucronate, base cordate. Racemes several flowered, bracteate throughout. Sepals oblong (median pair) or broadly ovate (lateral pair), deciduous, glabrous, unequal, base of lateral pair saccate, margin membranous. Petals white, narrowly obovate or subelliptic. Stamens 6, tetradynamous; filaments white; median pair strongly flattened, laterally 1-toothed; anthers oblong. Nectar glands 2, annular, lateral; median glands absent. Ovules 3–9 per ovary. Fruit dehiscent siliques, linear or oblong, terete or 4-angled; valves obscurely veined or with a prominent, narrowly winged midvein, keeled or not; gynophore short and rarely to 1 mm; replum flattened, winged or wingless; septum absent; style to 1.5 mm; stigma 2-lobed. Seeds uniseriate, wingless, oblong or ovate, flattened; seed coat minutely reticulate, not mucilaginous when wetted; cotyledons accumbent.

• Two species.

- 1a. Fruit 4-angled, narrowly 4-winged, not torulose, 2.5–3 mm wide; petals 4–6 × 2–3 mm; seeds (2.8–)3–3.5 mm ..... 1. *P. tibeticum*
- 1b. Fruit terete, wingless, torulose, ca. 1.5 mm wide; petals 3–4 × 1–1.5 mm; seeds 2–2.5 mm ..... 2. *P. wuchengyii*

**1. *Platycraspedum tibeticum*** O. E. Schulz, *Repert. Spec. Nov. Regni Veg. Beih.* 12: 386. 1922.

宽框芥 kuan kuang qi

Herbs (6–)10–20(–60) cm tall, glabrous or sparsely pubescent with trichomes to 0.8 mm. Root fusiform, to 5 mm in diam. Stems several branched from a short base. Cauline leaves petiolate, glabrous or pubescent; petiole (0.1–)0.5–2(–3) cm; leaf blade suborbicular, cordate, or broadly ovate, (4–)7–15 × (1–)5–12(–15) mm, reduced upward, base cordate, margin repand-dentate, repand, or palmately 5-lobed, not mucronate, apex obtuse. Fruiting pedicels slender, ascending or divaricate, straight or recurved, (3–)5–12(–20) mm. Sepals 1.5–2 × 0.8–1.5 mm, glabrous, membranous margin to 0.2 mm wide; median pair oblong, narrower than lateral, not saccate at base; lateral pair broadly ovate, saccate at base. Petals white, narrowly obovate or subelliptic, 4–6 × 2–3 mm, base cuneate, apex rounded. Filaments white, 1.1–2 mm; lateral pair slender; median pair strongly flattened basally, 0.4–0.6 mm wide, with an ovate or oblong lateral tooth 0.2–0.4 × 0.1–0.2 mm; anthers oblong, 0.4–0.6 mm, apex obtuse. Ovules 6–9 per ovary. Fruit narrowly oblong, 4-angled, longitudinally 4-winged, curved, not torulose, (6–)8–15 × 2.5–3 mm, base cuneate; valves glabrous, with a well-developed midvein wing to 0.5 mm wide; replum with a longitudinal wing to 0.5 mm wide; style thick, 0.5–1.5 mm; gynophore to 0.5 mm. Seeds ovate or broadly oblong, flattened, (2.8–)3–3.5 × 1.5–2 mm. Fl. Jun–Aug, fr. Jul–Aug.

• Alpine areas; 4100–4800 m. Sichuan, E Xizang.

**2. *Platycraspedum wuchengyii*** Al-Shehbaz et al., *Novon* 10: 3. 2000.

吴氏宽框芥 wu shi kuan kuang qi

Herbs 5–25 cm tall, glabrous or sparsely pubescent with trichomes to 1 mm. Root fusiform, fleshy, to 2 mm in diam. Stem single from fleshy root then few to several

branched, branches slender, ascending or decumbent. Cauline leaves petiolate, glabrous or sparsely pubescent; petiole 0.5–2.5(–4) cm; leaf blade suborbicular, cordate, or subreniform, 4–12 × 5–15 mm, reduced in size upward, base cordate, margin repand or shallowly and obtusely 5-lobed, the lobes not mucronate, apex obtuse. Fruiting pedicels slender, ascending or divaricate, straight, 5–15 mm. Sepals 1–1.5 × 0.6–1 mm, glabrous, membranous margin to 0.1 mm wide. Petals white, narrowly subelliptic to narrowly oblong, 3–4 × 1–1.5 mm, base cuneate, apex rounded. Filaments white, 1.1–1.5 mm; lateral pair slender; median pairs strongly flattened basally and 0.3–0.5 mm wide, with an ovate or oblong lateral tooth to 0.2 × 0.1 mm; anthers oblong, 0.3–0.4 mm, apex obtuse. Ovules 3–6 per ovary. Fruit linear, terete, wingless, torulose, 6–15 × ca. 1.5 mm, base cuneate; valves sparsely and minutely puberulent, obscurely veined, wingless; replum wingless; style thick, 0.5–1.5 mm; gynophore to 1 mm. Seeds oblong, flattened, 2–2.5 × ca. 1.5 mm. Fl. Jun–Aug, fr. Jul–Aug.

• Wet ground by rivers, ravine slopes in *Juniperus* forests, woods; 4000–4500 m. Sichuan, E Xizang.

