

52. OLIMARABIDOPSIS Al-Shehbaz et al., Novon 9: 302. 1999.

无苞芥属 wu bao jie shu

Herbs annual. Trichomes short-stalked or sessile, malpighiaceus and 3- or 4-rayed stellate. Stems erect or ascending. Basal leaves petiolate, not rosulate, simple, entire or rarely pinnatisect. Cauline leaves sessile, auriculate, entire or dentate. Racemes few to several flowered, ebracteate. Fruiting pedicels ascending, divaricate, or reflexed. Sepals oblong, erect, glabrous or pubescent, base of lateral pair not saccate. Petals yellow or yellowish white, slightly longer than sepals; blade oblanceolate, apex obtuse; claw absent. Stamens 6, slightly tetradynamous, rarely 4; filaments not dilated at base; anthers oblong, apex obtuse. Nectar glands confluent and subtending bases of all stamens. Ovules 18–60 per ovary. Fruit dehiscent siliques, linear, terete, sessile; valves with a distinct midvein, pubescent with submalpighiaceus and/or short-stalked, stellate trichomes, smooth; replum rounded; septum complete, perforated, or reduced to a rim; style obsolete or to 1 mm; stigma capitate, entire. Seeds uniseriate, wingless, oblong, plump; seed coat reticulate, slightly mucilaginous or not mucilaginous when wetted; cotyledons incumbent.

Three species: C and SW Asia, E Europe; two species in China.

1a. Septum complete; fruit 1.5–3.2(–4) cm; seeds (15–)20–40(–60) per fruit 1. *O. pumila*

1b. Septum perforate or reduced to a rim; fruit 0.4–1(–1.5) cm; seeds 5–18(–20) per fruit 2. *O. cabulica*

1. *Olimarabidopsis pumila* (Stephan) Al-Shehbaz et al., Novon 9: 303. 1999.

无苞芥 wu bao jie

Sisymbrium pumilum Stephan in Willdenow, Sp. Pl. 3: 507. 1800; *Arabidopsis griffithiana* (Boissier) N. Busch; *A. pumila* (Stephan) N. Busch; *A. pumila* var.

griffithiana (Boissier) Jafri; *Drabopsis oronotica* Stapf;

Hesperis pumila (Stephan) Kuntze; *Microsisymbrium*

griffithianum (Boissier) O. E. Schulz; *Sisymbrium*

foliosum J. D. Hooker & Thomson; *S. griffithianum*

Boissier; *S. hirtulum* Regel & Schmalhausen; *S.*

kokanicum Regel & Schmalhausen; *Stenophragma*

griffithianum (Boissier) B. Fedtschenko; *S. pumilum*

(Stephan) B. Fedtschenko.

Herbs annual, (1–)5–40(–60) cm tall. Stems erect, simple or few branched at base, pubescent with short-stalked or subsessile, stellate trichomes, rarely glabrescent distally. Basal leaves not rosulate, petiolate, often withered by fruiting, pubescent as stems; petiole (0.1–)0.8–2(–3.5) cm; leaf blade oblanceolate, spatulate, or lanceolate, (0.4–)1–8(–12) × (0.1–)0.5–2(–3) cm, margin coarsely dentate, rarely pinnatifid, pinnatisect, or entire, apex acute. Middle cauline leaves oblong, ovate, or lanceolate, sessile, (0.3–)1–5(–7.5) cm × (1–)4–12(–30) mm, base auriculate or rarely sagittate, margin coarsely dentate or rarely entire, apex acute. Fruiting pedicels divaricate, ascending, or strongly reflexed, (1–)2–7(–12) mm, slender or stout, stellate pubescent or rarely glabrescent. Sepals oblong, 1.4–2(–2.5) × 0.3–0.8 mm, pubescent. Petals yellow, turning whitish when dry, spatulate or oblanceolate, (1.6–)2–2.5(–3) × 0.3–0.8 mm, attenuate to base; claw absent. Filaments 1.3–1.8 mm; anthers oblong, 0.2–0.3 mm. Fruit linear, terete, curved or straight 1.5–3.2(–4) cm × 0.8–1.2 mm, only slightly torulose; valves pubescent with submalpighiaceus and/or subsessile 3-rayed trichomes, usually with a distinct midvein; septum complete; style 0.1–0.4(–0.8) mm. Seeds brown, (15–

)22–40(–60) per fruit, oblong, uniseriate, 0.5–0.9 × 0.3–0.5 mm. Fl. Mar–May, fr. Apr–Jun. *2n* = 16, 32.

Fields, sandy steppe, stony slopes, scrub; 100–3800 m. Gansu, Xinjiang [Afghanistan, India, Kashmir, Kazakstan, Kyrgyzstan, Pakistan, Russia, Tajikistan, Turkmenistan, Uzbekistan; SW Asia].

Records in FRPS from Gansu and Yunnan require verification; no material was seen by the present authors from these provinces.

2. *Olimarabidopsis cabulica* (J. D. Hooker & Thomson) Al-Shehbaz et al., Novon 9: 303. 1999.

喀布尔无苞芥 ka bu er wu bao jie

Sisymbrium cabulicum J. D. Hooker & Thomson, J.

Proc. Linn. Soc., Bot. 5: 161. 1861; *Arabidopsis*

korshinskyi Botschantzev; *A. pumila* (Stephan) N.

Busch var. *alpina* (Korshinsky) O. E. Schulz;

Sisymbrium pumilum Stephan var. *alpinum* Korshinsky.

Herbs annual, 1–12(–30) cm tall. Stems subdecumbent to erect, few branched or rarely simple at base, pubescent with short-stalked to subsessile, stellate trichomes. Basal leaves not rosulate, subsessile, often withered by fruiting, pubescent as stems; leaf blade oblanceolate, obovate, or lanceolate, 0.2–2 (–3.2) cm × 1–9(–15) mm, margin entire, repand, or obscurely dentate, apex acute. Middle cauline leaves oblong or ovate, sessile, 0.2–2(–3.5) cm × 1–8(–15) mm, base auriculate, margin entire or repand, apex acute. Fruiting pedicels slender, stellate pubescent, divaricate, 1–4(–6) mm. Sepals oblong, 1.1–1.5 × 0.3–0.5 mm, pubescent. Petals yellow, turning whitish when dry, spatulate or oblanceolate, 1.6–1.9 × 0.4–0.5 mm, attenuate to base; claw absent. Filaments 1.2–1.6 mm; anthers oblong, 0.1–0.2 mm. Fruit linear, terete, curved or straight, 4–10(–13) × 0.7–0.9 mm, only slightly torulose; valves pubescent with subsessile, 3-rayed trichomes, usually with a distinct midvein; septum perforated or reduced to a rim; style 0.1–0.5 mm. Seeds brown, 5–18(–20) per fruit, oblong, uniseriate, 0.5–0.8 × 0.3–0.4 mm. Fl. Mar–May, fr. Apr–Jun. *2n* = 48.

Flora of China 8: 124–125. 2001.

Valleys, rocky slopes, river banks; 3000–4200 m. Xinjiang [Afghanistan, Kyrgyzstan, Tajikistan].

This species was recorded in FRPS (as *Arabidopsis pumila* var. *alpina*) from Xinjiang. The present authors have seen no material from China, and the above description was based on misidentified plants from Pamir Alai, Tajikistan.

Flora of China 8: 124–125. 2001.