
**花锚属 hua mao shu**

Herbs annual [or perennial]. Roots slender, fibrous. Sometimes with elongated rhizomes. Leaves opposite [or whorled]. Inflorescences terminal and axillary, in clusters or sometimes in lax panicles of cymes. Terminal clusters umbel-like, subtended by a whorl of 4 leaves, often by axillary branches. Flowers 4-merous. Calyx lobed nearly to base. Corolla campanulate, lobed to below middle, with spurs near base of corolla tube. Stamens inserted on corolla tube. Ovary 1-celled. Style very short. Stigma 2-lobed. Capsules ovoid, 2-valved, 1.1–1.3 cm, many seeded. Seeds ellipsoid to subglobose; seed coat almost smooth.

About 100 species: mainly in America, a few species in Asia and Europe; two species in China.

1a. Corolla yellow; calyx lobes linear-lanceolate ................................................................. 1. *H. corniculata*

1b. Corolla blue to purple; calyx lobes elliptic to ovate .......................................................... 2. *H. elliptica*


**花锚 hua mao**

*Swertia corniculata* Linnaeus, Sp. Pl. 1: 227. 1753; *Halenia deltoides* Gandoger; *H. fischeri* Graham; *H. japonica* Gandoger; *H. siberica* Borkhausen.

Plants 10–80 cm tall. Stems erect, subquadrangular, striate, simple or branched from base and/or above base. Basal leaves usually withered at anthesis; petiole flattened, 1–1.5 cm; leaf blade elliptic to obovate, 1–3 cm × 5–8 mm, base cuneate, apex rounded. Stem leaves sessile or short petiolate; leaf blade elliptic-lanceolate to ovate, 3–8 × 1–1.5 cm, densely papillate when young, abaxially hirsute, veins adaxially becoming smooth, base obsolescent to subrounded, apex acuminate, veins 3. Pedicel 0.5–3 cm. Calyx lobes linear-lanceolate, 5–8 × 1–1.5 mm, with margin hispid-ciliate, apex acuminate. Corolla yellow, campanulate, 3–5 cm in diam., base with 4–8 mm spurs; lobes ovate to elliptic, 5–7 × 3–5 mm, apex obtuse and apiculate. Filaments 2–3 mm; anthers subglobose, ca. 0.8 mm in diam. Seeds brown, 1–1.4 × ca. 1 mm. Fl. and fr. Jul-Sep.

Grasslands, forest margins, forests; 200–1800 m. Hebei, Heilongjiang, Jilin, Liaoning, Nei Mongol, Shanxi, Shannxi [China, Korea, Mongolia, Russia].


**椭圆叶花锚 tuo yuan ye hua mao**

*Halenia vaniotii* H. Léveillé.

Calyx lobes 4–6 × 2–3 mm. Corolla 1–1.5 cm in diam., lobes ca. 6 × 4–5 mm.

Beside streams in valleys, grassland slopes, scrub, forest margins, forests; 700–4100 m. Gansu, Guizhou, Hubei, Hunan, Liaoning, Nei Mongol, Qinghai, Shanxi, Xinjiang, Xizang, Yunnan [Bhutan, India, Kyrgyzstan, Myanmar, Nepal, Sikkim].

2a. **Halenia elliptica** var. *elliptica*

**卵萼花锚 luán e hua mao**

*Calyx lobes 4–6 × 2–3 mm. Corolla 1–1.5 cm in diam., lobes ca. 6 × 4–5 mm.*

Beside streams in valleys, grassland slopes, scrub, forest margins, forests; 700–4100 m. Gansu, Guizhou, Hubei, Hunan, Liaoning, Nei Mongol, Qinghai, Shanxi, Xinjiang, Xizang, Yunnan [Bhutan, India, Kyrgyzstan, Myanmar, Nepal, Sikkim].


**大花花锚 da hua hua mao**

Corolla ca. 2.5 cm in diam.

* Beside streams, grassland slopes; 1300–2500 m. Gansu, Gui- zhou, Hubei, Qinghai, Shaanxi, Sichuan, Yunnan.

700–4000 m. Gansu, Guizhou, Hubei, Hunan, Liaoning, Nei...