

## 6. IXIOLIRION Fischer ex Herbert, Appendix, 37. 1821.

鸢尾蒜属 yuan wei suan shu

Herbs perennial, cormous. Corms covered with a tunic. Leaves basal, linear. Flowering stem with a few leaves at base. Inflorescences terminal, umbellate, racemose, or sometimes paniculate, 2- to several flowered, often with 1–3 additional flowers in basal leaf axil of flowering stem. Flowers pedicellate. Perianth segments free, sometimes proximally with a pseudotube formed by laxly connivent segments, or connate proximally into a true tube. Stamens in 2 whorls, inserted at base of perianth; filament linear to sub-filiform; anther basifixed or dorsifixed, erect. Ovary subclavate, with many ovules. Style filiform; stigma 3-lobed. Fruit a capsule, oblong-clavate, 3-valved. Seeds black, ovoid-oblong, small.

About three species: C and SW Asia, NE Africa (Egypt); two species (one endemic) in China.

- 1a. Perianth segments spreading, free, sometimes laxly connivent proximally into a pseudotube; filament purple, anther basifixed ..... 1. *I. tataricum*
- 1b. Perianth segments recurved, connate proximally into a true tube; filament white, anther dorsifixed ..... 2. *I. songaricum*

### 1. *Ixiolirion tataricum* (Pallas) Herbert, Appendix 37. 1821.

鸢尾蒜 yuan wei suan

Corms ovoid, 1.5–2.5 × 2(–2.5) cm; tunic brown, longitudinally striate. Basal leaves usually 3–8, linear. Flowering stem 10–40 cm, base with 1–3 smaller leaves; bracts smaller than involucre, membranous. Inflorescence an umbel or short raceme, 3–6-flowered, sometimes basal leaf axil of flowering stem with 1–3 additional flowers; involucre 2 or 3, white or green, lanceolate, to 3.5 cm, membranous, apex acuminate and aristate. Pedicels unequal. Perianth azure to dark violet or light blue; segments spreading, free, sometimes laxly connivent proximally into a ca. 1 cm long pseudotube, oblanceolate to narrowly so, 2–3.5 cm × 1–7 mm, veins 3–5 at middle, apex subacute. Stamens unequal, outer ones longer than inner; filament purple, subfiliform, glabrous; anther basifixed, straight. Fl. Apr–Jun.

Valleys, stony slopes, sandy places, waste grasslands. N Xinjiang [Afghanistan, Kazakstan, Kyrgyzstan, Pakistan, Russia, Turkmenistan].

- 1a. Perianth azure to dark violet, segments not connivent proximally into a pseudotube ..... 1a. var. *tataricum*
- 1b. Perianth light blue, segments laxly connivent proximally into a ca. 1 cm long pseudotube ..... 1b. var. *ixiolirioides*

#### 1a. *Ixiolirion tataricum* var. *tataricum*

鸢尾蒜(原变种) yuan wei suan (yuan bian zhong)

*Amaryllis tatarica* Pallas, Reise Russ. Reich. 3: 727. 1776.

Perianth azure to dark violet, segments 1–7 mm wide, not connivent proximally into a pseudotube. Fl. Apr–Jun.

Valleys, sandy places, waste grasslands. N Xinjiang [Afghanistan, Kazakstan, Pakistan, Russia, Turkmenistan].

#### 1b. *Ixiolirion tataricum* var. *ixiolirioides* (Regel) X. H. Qian, Bull. Bot. Res., Harbin 4(2): 158. 1984.

假管鸢尾蒜 jia guan yuan wei suan

*Kolpakowskia ixiolirioides* Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 5: 635. 1878; *Ixiolirion ixiolirioides* (Regel)

Dandy; *I. kolpakowskianum* Regel.

Perianth light blue, segments 1–3 mm wide, laxly connivent proximally into a ca. 1 cm long pseudotube. Fl. Apr–May.

Stony slopes. N Xinjiang [Kazakstan, Kyrgyzstan].

Rudolf Kamelin (pers. comm.) notes that this taxon differs from var. *tataricum* in other characters and would be better recognized at the rank of species.

### 2. *Ixiolirion songaricum* P. Yan in N. R. Cui, Fl. Xinjiang. 6: 605. 1996.

准噶尔鸢尾蒜 zhun ga er yuan wei suan

Corms subovoid, 1.5–3 × 0.8–2.2 cm; tunic brown, longitudinally striate. Basal leaves linear, 1.5–3 × 0.2–0.5(–0.7) cm. Inflorescence an umbel, 3–6-flowered, sometimes middle leaf axil of flowering stem with 1 or 2 additional flowers. Pedicels unequal, 1–3 cm. Perianth azure or pale purple, 1.8–3 cm; segments recurved, connate proximally into a true tube 9–11 mm, linear or linear-lanceolate, outer segments 1.5–2.5 mm wide, apex with an angular appendix with tufted hairs inside, inner segments 2.5–3.5 mm wide, apex acute. Stamens unequal; filament white, 3 outer ones filiform, 1.1–1.4 cm, 3 inner ones linear-oblanceolate, 1.6–2.1 cm; anther dorsifixed. Stigma blue-purple, 1.3–1.8 cm. Capsule 10–16 × 4–7 mm. Fl. Apr–May, fr. May–Jun.

• Dry slopes and fields; 400–1600 m. Xinjiang (N slopes of Tian Shan).

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