

## 5. ZIGADENUS Michaux, Fl. Bor.-Amer. 1: 213. 1803.

棋盘花属 qi pan hua shu

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Herbs perennial, hermaphroditic or polygamous, with a bulb or less often a horizontal rhizome. Leaves basal or nearly so and also cauline, linear to narrowly lanceolate. Scape erect, glabrous, without thickening. Inflorescence terminal, racemose or paniculate, glabrous; bracts linear-lanceolate to oval. Tepals 6, free or basally adnate to ovary, adaxially with 1 or 2 glands just above narrowed base, persistent. Stamens 6, free or basally adnate to perianth, slightly shorter than perianth; filaments filiform or widened in proximal part; anthers small, suborbicular to reniform, basifixed, extrorse, with confluent locules, dehiscing transversely by valves. Ovary superior or semi-inferior, 3-loculed; ovules many. Styles 3, slender. Capsule ovoid to conical, 3-lobed, ventricidal. Seeds many, oblong or oblanceolate, narrowly winged or angular.

About ten species: N Arctic to temperate regions, especially in North America; one species in China.

**1. *Zigadenus sibiricus*** (Linnaeus) A. Gray, Ann. Lyceum Nat. Hist. New York 4: 112. 1857.

棋盘花 qi pan hua

*Melanthium sibiricum* Linnaeus, Sp. Pl. 1: 339. 1753;  
*Anticlea sibirica* (Linnaeus) Kunth.

Bulb cylindric, rarely to ovoid, slender, with blackish brown coat. Leaves (10–)13–35 cm × 2–8(–10) mm, glabrous, base tapering to sheath, apex obtuse. Scape (10–)30–50 cm, usually with 1 or 2 slightly smaller leaves in proximal part. Inflorescence usually racemose, less often 1- or 2-branched and paniculate, laxly 4–12-flowered; bracts linear-lanceolate to ovate. Pedicel 0.7–2 cm. Flowers erect. Tepals greenish white, obovate-oblong or oblong, 6–9 × 2.2–2.6(–4) mm, spreading at anthesis, each with a large, yellowish green, obcordate gland nearly at base. Filaments glabrous, gradually widened toward base; anthers reniform. Ovary semi-inferior, conical, ca. 4 mm. Styles recurved, extending beyond perianth after anthesis. Capsule conical, ca. 1.5 cm. Seeds suboblong, ca. 5 mm. Fl. Jul, fr. Aug–Sep.  $2n = 32$ .

Forests, damp places in thickets, grassy slopes; near sea level to 2600 m. Hebei, Heilongjiang, Hubei, Jilin, Liaoning, Nei Mongol, Shanxi, Sichuan [Japan (Rebun and Rishiri Islands), Korea, Mongolia, Russia].

