

18. NOTHOLIRION Wallich ex Boissier, Fl. Orient. 5: 190. 1882.

假百合属 jia bai he shu

Liang Songyun (梁松筠 Liang Song-jun); Minoru N. Tamura

Herbs perennial, bulbiferous. Bulb narrowly ovoid or cylindrical; tunic black-brown, scariosus; bulbels many, with several fleshy scales and hard tunics. Stem erect, stout, glabrous or subglabrous. Leaves basal and cauline, alternate, sessile, linear to linear-lanceolate. Inflorescence a terminal raceme, few to many flowered; bracts linear. Flowers bisexual, campanulate to funnellform; pedicel usually rather short. Tepals 6, free, usually blue, purple, or red. Stamens 6, inserted at base of tepals; filaments filiform, slightly widened toward base; anthers dorsifixed, versatile, ellipsoid to narrowly so. Ovary 3-loculed; ovules many per locule. Style columnar, rather long, slender; stigma 3-lobed, lobes slightly recurved. Fruit a loculicidal capsule. Seeds many, flat, narrowly or scarcely winged all round.

Five species: Afghanistan, Bhutan, China, India, Myanmar, Nepal, Sikkim; SW Asia (Iran, Iraq); three species in China.

- 1a. Plants 18–35 cm tall; raceme 2–4(–6)-flowered; cauline leaves 4–8(–17) mm wide 3. *N. macrophyllum*
- 1b. Plants 60–150 cm tall; raceme 10–24-flowered; cauline leaves 10–25 mm wide.
 - 2a. Tepals pale purple or blue-purple, 2.5–3.6 × 0.8–1.2 cm 1. *N. bulbuliferum*
 - 2b. Tepals red, dark red, pink, or sometimes red-purple, 3.5–5 × 1–2 cm 2. *N. campanulatum*

1. Notholirion bulbuliferum (Lingelsheim ex H. Limpricht) Stearn, Kew Bull. 5: 421. 1950.

假百合 jia bai he

Paradisea bulbuliferum Lingelsheim ex H. Limpricht, Repert. Spec. Nov. Regni Veg. Beih. 12: 316. 1922; *Lilium hyacinthinum* E. H. Wilson; *Notholirion hyacinthinum* (E. H. Wilson) Stapf.

Bulbels many, pale brown, ovoid, 3–5 mm in diam. Stem 60–150 cm, subglabrous. Basal leaves several, lorate, 10–25 × 1.5–2 cm; cauline leaves linear-lanceolate, 10–18 × 1–2 cm. Raceme laxly 10–24-flowered; bracts leaflike, linear, 2–7.5 cm × 3–4 mm. Flowers horizontal; pedicel slightly curved, 5–7 mm. Tepals usually spreading, pale purple or blue-purple, tinged with green apically, obovate or oblanceolate, 2.5–3.6 × 0.8–1.2 cm. Stamens scarcely shorter than tepals. Ovary pale purple, 1–1.5 cm. Style 1.5–2 cm. Capsule oblong to obovoid-oblong, 1.6–2 × ca. 1.5 cm, obtusely angular. Fl. Jul, fr. Aug. $2n = 24^*$.

Thickets, alpine grassy slopes; 3000–4500 m. Gansu, Shaanxi, Sichuan, Xizang, Yunnan [Bhutan, Nepal, Sikkim].

2. Notholirion campanulatum Cotton & Stearn, Lily Year Book 3: 19. 1934.

钟花假百合 zhong hua jia bai he

Bulbels many, pale brown, ovoid, 5–6 mm in diam. Stem 60–100 cm, subglabrous. Basal leaves many, lorate, 22–24 × 2–2.5 cm, membranous; cauline leaves linear-lanceolate, 10–20 × 1–2.5 cm. Raceme laxly 10–16-flowered; bracts leaflike, linear-lanceolate, 3–7 cm × 4–9 mm. Flowers nodding, campanulate; pedicel slightly curved, 4–7 mm. Tepals usually spreading, red, dark red, pink, or sometimes red-purple, tinged with green apically, obovate-oblanceolate, 3.5–5 × 1–2 cm. Stamens slightly shorter than tepals. Ovary cylindrical, 1–1.3 cm × 2–3 mm. Style ca. 2 cm. Capsule brownish, oblong, 2–2.5 × 1.6–1.8 cm. Fl. Jun–Aug, fr. Sep. $2n = 24$.

Forest margins, grassy slopes; 2800–4500 m. Sichuan, NW Yunnan [Bhutan, Myanmar].

3. Notholirion macrophyllum (D. Don) Boissier, Fl. Orient. 5:

190. 1882.

大叶假百合 da ye jia bai he

Fritillaria macrophylla D. Don, Prodr. Fl. Nepal. 51. 1825; *Lilium macrophyllum* (D. Don) Voss.

Stem 18–35 cm, glabrous. Basal leaves lorate, 30–40 × ca. 2 cm; cauline leaves 5–10, linear, 6.5–15 × 0.4–0.8(–1.7) cm. Raceme laxly 2–4(–6)-flowered; bracts narrowly linear, 1.2–1.5 cm, apex curved. Flowers funnellform; pedicel slightly curved, 0.6–1.5 cm. Tepals pale purple-red or purple, oblanceolate-oblong, 2.5–5 × 0.6–1.5 cm, base narrowed, apex obtuse or rounded. Stamens slightly shorter than tepals; filaments 2–3.5 cm; anthers ca. 5 mm. Ovary oblong, 7–8 × ca. 4 mm. Style 1.5–3.2 cm. Fl. Aug. $2n = 24$.

Rocky places in *Quercus* forests, grassy slopes, meadows; 2800–3400 m. Sichuan, Xizang, Yunnan [Bhutan, Nepal, Sikkim].

