
山兰属 shan lan shu

Herbs, terrestrial. Pseudobulb ovoid or oblong, several noded, with fibrous roots at base, occasionally persisting and remaining connected to pseudobulbs produced in subsequent years by means of a slender rhizome. Leaves 1 or 2, arising from apex of pseudobulb, linear to oblong-lanceolate, plicate, tapering into a long petiole-like stalk at base, often with 1 or 2 membranous sheaths at base. Inflorescence arising from an intermediate node of pseudobulb, erect, terminal, with several tubular sheaths, racemose; racis several to many flowered; floral bracts persistent, membranous. Flowers small to medium-sized, resupinate. Sepals and petals free, similar, spreading; lateral sepals sometimes shallowly saccate at base. Lip 3-lobed or entire, clawed at base, without a spur; disk usually with a pair of longitudinal lamellae or a callus, rarely without either. Column long, slightly arcuate, base sometimes dilated, but without a conspicuous foot; anther terminal, incumbent; pollinia 4, subglobose, waxy, borne on a common stipe and attached to a globose viscidium.

About 16 species: Bhutan, E and SW China, NE India, Japan, Korea, Myanmar, Nepal, Russia (Far East, Siberia); 11 species (seven endemic) in China.

1a. Leaves 2–4 cm, 2–4 × as long as wide, abruptly contracted at base into a distinct petiole-like stalk.
   2a. Inflorescence subdensely (2–)5–14-flowered; sepals 6–7 mm; lip 5–7 mm, yellow, with purple spots ............... 10. O. nana
   2b. Inflorescence laxly 1–3(or 4)-flowered; sepals 12–15 mm; lip 8–10 mm, white to pale purple, with purple spots .................................................. 11. O. oligantha

1b. Leaves 7–40 cm, 5–20 × as long as wide, tapering at base into a sometimes indistinct petiole-like stalk.
   3a. Dorsal sepal 15–16 mm; column ca. 8 mm ................................................................. 9. O. nepalensis
   3b. Dorsal sepal 5.5–11 mm; column 2.5–6 mm.
      4a. Lip lacking a callus, 3-lobed above middle or sometimes entire .................................................. 8. O. foliosa
      4b. Lip with a callus or a pair of lamellae, 3-lobed at or below middle, never entire.
         5a. Plants 2-leaved.
            6a. Flowers yellowish brown to pale yellow, lip white with purple spots; disk of lip with a pair of lamellae ........................................................................................................................................ 3. O. patens
            6b. Flowers white, lip white with red or pale brown spots on mid-lobe; disk of lip with a longitudinally channeled callus.
               7a. Dorsal sepal 5.5–6 mm .......................................................................................... 1. O. micrantha
               7b. Dorsal sepal 9–11 mm .......................................................................................... 2. O. fargesi
      5b. Plants 1-leaved.
         8a. Lip 3-lobed near middle; disk of lip with a longitudinally channeled, fleshy callus ............... 4. O. bilamellata
         8b. Lip 3-lobed below middle; disk of lip with a pair of lamellae.
            9a. Lip 6.5–8.5 mm; lateral lobes of lip ca. 3 mm ................................................................. 3. O. patens
            9b. Lip 4.5–5 mm; lateral lobes of lip to 1.4 mm.
               10a. Lamellae on lip very short, less than 1 mm, positioned between bases of lateral lobes .................................................................................................................. 5. O. erythrochrysea
               10b. Lamellae on lip to 2 mm, positioned at base of lip and extending onto mid-lobe.
                  11a. Plants 8–16 cm tall; petiole-like leaf base 1–3 cm .................................................. 6. O. parvula
                  11b. Plants 20–35 cm tall; petiole-like base to 5 mm ................................................... 7. O. angustata


狭叶山兰 xia ye shan lan

Oreorchis rolfei Duthie.

Plants 20–35 cm tall. Pseudobulbs ovoid or oblong, 1–1.3 × ca. 1 cm, several noded, persisting and often forming a tight chain of pseudobulbs connected by a short rhizome. Leaves 2, linear-lanceolate or narrowly lanceolate, plicate, 17–25 × 0.5–1.2 cm, gradually tapering at base into an indistinct petiole-like stalk 4–7 cm. Inflorescence 20–32 cm, with 2 or 3 tubular sheaths below middle; racis 4–6 cm, subdensely 8–12-flowered; floral bracts ovate-lanceolate, 1.5–3 mm. Flowers white, lip white with red spots on mid-lobe; pedicel and ovary 6–9 mm. Sepals oblong-lanceolate, 5.5–6 × 1.5–2 mm, apex subacute; lateral sepals slightly falcate. Petals lanceolate or linear-lanceolate, slightly falcate, 5–5.5 × ca. 1.2 mm, apex shortly acuminate; lip suboblong-ovate, ca. 5 × 3 mm, 3-lobed near base, shortly clawed at base; lateral lobes sublinear, ca. 1.5 mm, apex acute; mid-lobe obovate or broadly obovate, ca. 3 × 2.5 mm, apical margin irregularly incised and slightly crisped, apex obtuse and sometimes emarginate; disk with a linear, longitudinally channeled callus between lateral lobes and extending almost midway along mid-lobe. Column slightly arcuate, ca. 2.5 mm, base slightly dilated. Capsule pendulous, ovoidal, 10–12 × ca. 5 mm. Fl. Jun.


硬叶山兰 ying ye shan lan

Plants 8–16 cm tall. Pseudobulbs oblong to subovoid, 0.5–0.9(–1.5) × 0.4–0.6 cm, 2- or 3-noded, sometimes persisting and forming a chain of pseudobulbs connected by a short rhizome. Leaf solitary, ovate to narrowly elliptic, plicate, 2–4 × 0.8–1.5 cm, base subrounded or broadly cuneate and abruptly contracted into a distinct petiole-like stalk 1–3 cm, apex acuminated. Inflorescence 8–16 cm, with 2 or 3 tubular sheaths below middle; rachis 2.5–6 cm, subdensely (2–)5–14-flowered; floral bracts ovate-lanceolate, ca. 1 mm. Flowers white, outer surfaces of sepals and petals orange-yellow or green, rarely flushed chestnut, lip yellow with purple spots; pedicel and ovary 3–5 mm. Sepals narrowly oblong, 6–7 × 1.5–2 mm, apex obtuse or acute; lateral sepals somewhat falcate. Petals fusiform-oblong, 5.5–6.5 × ca. 2 cm, apex obtuse or acute; lip subobovate-oblong, 5–7 × ca. 2.5 mm, base shortly clawed or sometimes without a claw, 3-lobed below middle; lateral lobes incurved, narrowly oblong-ovate, ca. 0.8 × 0.5 mm, apex obtuse; mid-lobe obovate-elliptic, 3–4.5 × ca. 2.5 mm, margin slightly undulate, apex rounded; disk with a pair of short lamellae at base. Column slightly arcuate, 2–3 mm, thick. Fl. Jun–Jul.

- Alpine grasslands, forests, thickets, soil-covered rocks; 2500–4000 m. W Hubei, W Sichuan, NW Yunnan.


少花山兰 shao hua shan lan

*Oreorchis rockii* Schweinfurth.

Plants 8–20 cm tall. Pseudobulbs cylindric to ovoid, 0.6–1 × ca. 0.5 cm, 2- or 3-noded, sometimes persisting and forming a chain of pseudobulbs connected by a short rhizome. Leaf solitary, narrowly elliptic, 1.8–4 × 0.8–1 cm, base rounded or cuneate and abruptly contracted into a distinct petiole-like stalk 1–2 cm, apex acuminate. Inflorescence 8–18 cm, with 2 or 3 tubular sheaths below middle; rachis 1.5–4 cm, laxly 1–3(or 4)-flowered; floral bracts ovate-deltoid, ca. 1 mm. Flowers purple, lip white to pale purple with purple spots; pedicel and ovary 3–5 mm. Sepals narrowly oblong, 12–15 × 2–2.8 mm, apex obtuse or acute; lateral sepals slightly falcate. Petals oblong-ovate, 7–9 × ca. 2 mm, apex obtuse or acute; lip obovate-oblong, 8–10 × 5–6 mm, shortly clawed at base, 3-lobed below middle; lateral lobes slightly incurved, narrowly oblong-ovate, 1.5–2 × ca. 0.5 mm, apex obtuse; mid-lobe obovate-spatulate, ca. 6 × 5–6 mm, margin slightly undulate, apex rounded; disk with a pair of subelliptic lamellae at base. Column slightly arcuate, 4.5–6 mm, thick. Fl. Jun–Jul.

- Alpine grasslands, forests, thickets, soil-covered rocks; 3000–4000 m. S Gansu, W Sichuan, E Xizang, NW Yunnan.