

16. LOMATOGONIOPSIS T. N. Ho & S. W. Liu, Acta Phytotax. Sin. 18: 466. 1980.

辐花属 fu hua shu

Herbs annual. Roots fibrous. Stems prostrate, ascending to erect, terete, striate or angled, branched or simple. Inflorescences racemelike or with a solitary terminal flower. Flower 5-merous. Calyx and corolla rotate, lobed nearly to base, tube indistinct or distinct. Corolla lobes dextrorse in flower bud, distinctly 2-colored when corolla opens. Nectaries 1 at base of each corolla lobe, appendaged. Stamens inserted at base of corolla tube; filaments somewhat flattened; anthers blue, rarely yellow. Ovary 1-celled. Style absent; stigma lobes ± decurrent along apical part of ovary. Capsules 2-valved, many seeded. Seed coat almost smooth.

Three species: endemic to China (Qinghai-Tibetan Plateau).

Lomatogoniopsis is similar to *Lomatogonium*. Although T. N. Ho treats them as distinct genera, J. S. Pringle considers *Lomatogoniopsis* to be synonymous with *Lomatogonium*.

- 1a. Corolla 0.6–1 cm, lobes and appendages densely papillate; nectaries pale blue and with dark blue spots, lamellate, apex entire or 2-cleft 1. *L. alpina*
- 1b. Corolla 1.3–1.8 cm, lobes and appendages glabrous; nectaries white or pale yellow, galeate, margin erose to laciniate.
 - 2a. Stem leaves narrowly lanceolate to ovate-elliptic; corolla blue with a yellow base and dark blue veins; nectary appendage yellow, margin erose 2. *L. galeiformis*
 - 2b. Stem leaves ovate; corolla blue-purple; nectary appendages white, margin laciniate 3. *L. ovatifolia*

1. Lomatogoniopsis alpina T. N. Ho & S. W. Liu, Acta Phytotax. Sin. 18: 467. 1980.

辐花 fu hua

Annuals 3–10 cm tall. Stems prostrate to ascending, angular, much branched from base, rarely simple, papillate. Basal leaves sessile, spatulate, 5–10 × 2–5 mm, base cuneate, margin ciliate, apex obtuse. Stem leaves sessile, ovate, (3–)5–11 × (1–)3–7 mm, base, margin, and apex as in basal leaves. Inflorescences (1–)3-flowered, racemelike. Pedicel purple, 1–4 cm, papillate. Calyx tube ca. 1 mm; lobes ovate-elliptic to ovate, 3.5–6.5 mm, margin ciliate, apex subrounded, veins 3. Corolla blue, tube 1–1.5 mm; lobes elliptic-lanceolate to elliptic, 5.5–9 × 4–5 mm, apex acute, densely papillate. Nectaries pale blue, with dark blue spots, narrowly elliptic, 4–6 mm, margin entire or apex 2-cleft. Filaments 3–5 mm; anthers blue, ellipsoid, 1–1.2 mm. Capsules sessile, ovoid-ellipsoid, 0.9–1.2 cm. Seeds light brown, subglobose, 0.8–1 mm in diam.; seed coat smooth. Fl. and fr. Aug-Sep.

• Alpine meadows, forest margins, scrub meadows; 3900–4300 m. S Qinghai, NE Xizang.

2. Lomatogoniopsis galeiformis T. N. Ho & S. W. Liu, Acta Phytotax. Sin. 18: 468. 1980.

盔形辐花 kui xing fu hua

Annuals 5–8 cm tall. Stems purple, prostrate to ascending, angular, much branched from base, papillate. Leaves sessile, slightly narrowed at base, margin ciliate, apex obtuse. Basal leaves narrowly elliptic to ovate-elliptic, 1.2–1.4 cm × 2–4 mm. Stem leaves narrowly lanceolate to ovate-elliptic, 4–6 × 1.5–2.5 mm. Flowers terminal, solitary. Pedicel purple, 3–4.5 mm, glabrous. Calyx tube 1–1.2 mm; lobes lanceolate, 4–6.5 × 1.5–2 mm, apex acute. Corolla blue, basally yellow, with 3–5 blue veins on each lobe, tube 1.5–2

mm; lobes elliptic to ovate-elliptic, 1.3–1.6 cm, glabrous, apex rounded. Nectaries yellow, galeate, 1.5–2 mm, margin erose. Filaments 5–6 mm; anthers blue, ellipsoid, 2–2.2 mm. Capsules sessile, narrowly cylindrical, to 1.3 cm. Seeds brown, globose, 0.8–1 mm in diam.; seed coat smooth. Fl. and fr. Aug-Sep.

• Bog meadows, beside streams; 4200–4400 m. Xizang (Cona Xian).

3. Lomatogoniopsis ovatifolia T. N. Ho & S. W. Liu, Acta Biol. Plateau Sin. 1: 45. 1982.

卵叶辐花 luan ye fu hua

Annuals 5–8 cm tall, glabrous. Stems prostrate to ascending, angular, much branched from base. Leaves sessile. Basal leaves spatulate to obovate, 1.1–1.5 cm × 3–6 mm, base narrowed into a short petiole, apex rounded; veins 1–3, abaxially distinct. Stem leaves ovate, 6–12 × 4–7 mm, base rounded, apex obtuse, midvein distinct. Flowers few, usually solitary and terminal on branches. Pedicel purple, 2–4 cm. Calyx tube less than 1 mm; lobes elliptic, 2–3 mm, base narrowed, apex obtuse to rounded, midvein distinct. Corolla blue-purple, tube ca. 1 mm; lobes elliptic, 1.1–1.4 cm × 5–6 mm, apex subrounded. Nectaries white, galeate, 2–3 mm, laciniate. Stamens inserted on corolla tube; filaments 5–6 mm; anthers pale blue, ellipsoid, 2–2.5 mm. Ovary ovoid-ellipsoid, 6–8 mm. Fl. and fr. Aug-Sep.

• Alpine meadows; 4200 m. S Xizang.

