

37. LASIOCARYUM I. M. Johnston, Contr. Gray Herb. 75: 45. 1925.

毛果草属 mao guo cao shu

Oreogenia I. M. Johnston.

Herbs annual or biennial, pilose. Leaves entire. Cymes ebracteate. Calyx 5-parted to base, slightly enlarged. Corolla tubular; tube ca. as long as calyx; throat appendages 5; limb 5-parted; lobes overlapping, orbicular to obovate, apex obtuse. Stamens inserted at middle of corolla, included; anthers ovoid, ± obtuse. Ovary 4-parted. Style included; stigma capitate. Gynobase subulate. Nutlets narrowly ovoid, short hispid, transversely wrinkled strigose, adaxially coherent with gynobase; attachment scar narrow, long, at middle and below adaxially.

Four or five species: Bhutan, China, India, Pakistan; SW Asia; three species in China.

- 1a. Calyx lobes broadly lanceolate to oblong-ovate; lobes of corolla limb ca. 0.5 mm wide; fruiting pedicel to 1.5 cm 1. *L. munroi*
- 1b. Calyx lobes linear-lanceolate; lobes of corolla limb ca. 1 mm wide or greater; fruiting pedicel not more than 1 cm.
 - 2a. Corolla limb ca. 4 mm wide; nutlets ca. 1.4 mm; basal leaves ± sessile; pedicels in lower part of inflorescences to 8 mm 2. *L. trichocarpum*
 - 2b. Corolla limb ca. 3 mm wide; nutlets ca. 1.2 mm; basal leaves distinctly petiolate; pedicels in lower part of inflorescences ca. 1 mm 3. *L. densiflorum*

1. *Lasiocaryum munroi* (C. B. Clarke) I. M. Johnston, Contr. Gray Herb. 75: 46. 1925.

小花毛果草 xiao hua mao guo cao

Eritrichium munroi C. B. Clarke in J. D. Hooker, Fl. Brit. India 4: 165. 1883; *Oreogenia munroi* (C. B. Clarke) I. M. Johnston.

Herbs annual, 5–10 cm tall. Stems usually several, erect, slender, pilose. Leaves sessile, basal ones with attenuate base; leaf blade narrowly ovate to spatulate, 3–10 × 1.5–3.5 mm, sparsely pubescent, margin entire; veins obscure. Inflorescences ± racemose, ebracteate. Pedicel suberect, to 1.5 cm in fruit. Flowers widely spaced. Calyx lobes erect, broadly lanceolate to oblong-ovate, ca. 2 mm, somewhat enlarged in fruit, sparsely pubescent. Corolla light blue, tubular, ca. 2.5 mm; throat appendaged; lobes suborbicular, ca. 0.5 mm wide. Nutlets oblong-ovoid, ca. 1 × 0.5 mm, wrinkled, short appressed pubescent; attachment scar narrowly ovate.

3400–4000 m. S Xizang (Cona Xian) [Bhutan, N India, Nepal].

2. *Lasiocaryum trichocarpum* (Handel-Mazzetti) I. M. Johnston, Contr. Gray Herb. 75: 46. 1925.

云南毛果草 yun nan mao guo cao

Microcaryum trichocarpum Handel-Mazzetti, Anz. Akad. Wiss. Wien. Math.-Nat. Kl. 61: 164. 1924; *Oreogenia trichocarpum* (Handel-Mazzetti) Brand.

Herbs annual, 3–9 cm tall. Stems single or several, erect or decumbent, usually branched above middle, pilose. Leaves ± sessile, obovate to ovate-oblong, 5–13 × 2–6 mm, villous, obscurely veined, base cuneate, apex obtuse; basal leaves attenuate. Inflorescences terminal, several flowered, gradually elongated to 2 cm, ebracteate. Pedicel in lower part of

inflorescences to 8 mm. Flowers pedicellate. Calyx ca. 2.5 mm, villous outside; lobes linear. Corolla blue; tube ca. as long as calyx; throat appendages low trapeziform, slightly 2-cleft; limb ca. 4 mm wide; lobes spreading, suborbicular to broadly obovate. Anthers ovoid, ca. 0.5 mm. Style ca. 0.7 mm. Nutlets brown, narrowly ovoid, ca. 1.4 mm, densely short appressed pubescent on transverse wrinkles, somewhat keeled abaxially along center line; attachment scar narrowly ovate. Fl. Jun-Jul.

• Slopes; ca. 3000 m. SW Sichuan, W Yunnan.

3. *Lasiocaryum densiflorum* (Duthie) I. M. Johnston, J. Arnold Arbor. 21: 51. 1940.

毛果草 mao guo cao

Eritrichium densiflorum Duthie, Bull. Misc. Inform. Kew 1912: 39. 1912.

Herbs annual, 3–6 cm tall. Stems usually strongly branched from base, appressed pubescent. Basal leaves petiolate; stem leaves sessile or nearly so, ovate to elliptic or narrowly obovate, 5–12 × 2–5 mm, pilose, base attenuate, apex obtuse or acute; veins obscure. Inflorescences terminal, many flowered, to 3 cm in fruit. Pedicel ca. 1 mm. Calyx ca. 2 mm, to 3 mm in fruit; lobes somewhat unequal, linear, base longitudinally keeled. Corolla blue, glabrous; tube ca. as long as calyx; throat yellow, with 5 appendages slightly 2-cleft; limb ca. 3 mm wide; lobes spreading, obovate, 1–1.3 mm, apex obtuse, sometimes retuse. Anthers ovoid, ca. 0.3 mm. Nutlets light brown, narrowly ovoid, ca. 1.2 mm, short appressed pubescent along wrinkles, abaxially slightly keeled along center line; attachment scar narrowly ovate. Seeds brown, ovoid, slightly dorsiventrally compressed. Fl. Aug.

Rocky slopes; 4000–4500 m. W Sichuan, S Xizang [Bhutan, N India, Nepal, Pakistan].

