

42. LOXOCALYX Hemsley, J. Linn. Soc., Bot. 26: 308. 1890.

斜萼草属 xie e cao shu

Herbs perennial, erect. Stems much branched. Leaves long petiolate; leaf blade margin dentate. Verticillasters few flowered; bracteoles few, subulate. Flowers short pedicellate. Calyx long turbinate, base narrowed, hairy on veins, glabrous inside, 5–10-veined, 2-lipped; anterior teeth 2, coalescent, dilated; posterior teeth 3, shorter than anterior teeth. Corolla rose, purple, dark purple, to dark red, 2-lipped, puberulent, hairy annulate near base inside; tube slender, much exerted; upper lip galeate, straight, entire; lower lip spreading, 3-lobed; middle lobe larger, margin entire or emarginate; lateral lobes entire. Stamens 4, subequal, ascending beneath upper corolla lip; filaments complanate, puberulent; anthers close together in pairs, ovoid, cells 2, divaricate. Disc apex truncate, elongate in fruit. Style included or slightly exerted, apex equally 2-cleft. Nutlets triquetrous, ovoid, apex truncate, puberulent.

Two species: endemic to China.

- 1a. Stem and young branches densely retrorse pubescent; leaves ovate-lanceolate, base cuneate to subrounded adaxially sparsely minutely hispid, abaxially densely pubescent; calyx 5-veined 1. *L. quinquenervius*
- 1b. Stem and young branches subglabrous, sparsely puberulent or sparsely pilose-strigose, densely strigose on nodes; leaves broadly ovate to cordate-ovate, base truncate to cordate, sparsely minutely hispid; calyx 8–10-veined 2. *L. urticifolius*

1. *Loxocalyx quinquenervius* Handel-Mazzetti, Symb. Sin. 7: 924. 1936.

五脉斜萼草 wu mai xie e cao

Herbs erect. Stems ca. 1 m tall, much branched toward apex, densely retrorse pubescent. Petiole 0.5–4 cm, densely appressed pubescent; leaf blade ovate-lanceolate, 3.5–9×1.5–5.5 cm, thin papery, adaxially sparsely minutely hispid, abaxially densely pubescent especially on veins and margin, base cuneate to subrounded, attenuate, margin crenate-serrate, apex long acuminate; lateral veins 3 or 4 pairs. Verticillasters 6–12-flowered; bracteoles subulate, 2–5 mm, densely pubescent. Pedicel very short to obsolete. Calyx ca. 1 cm, appressed pubescent mainly on veins outside, conspicuously 5-veined; teeth shorter than tube, thin papery, ovate, apex acuminate, with a short spine. Corolla dark red, white spotted on throat, to 2 cm, densely pubescent outside, scaly inside; tube slender, straight; upper lip narrowly elliptic, ca. 5 mm, entire; lower lip as long as upper lip, middle lobe obcordate, lateral lobes ovate. Fl. Aug.

- Broad-leaved forests, riverbanks; 1200–1400 m. Hunan.

2. *Loxocalyx urticifolius* Hemsley, J. Linn. Soc., Bot. 26: 309. 1890.

斜萼草 xie e cao

Herbs erect. Stems 1–1.3 m, subglabrous to sparsely puberulent or pilose-strigose. Petiole 1–6 cm, slender; leaf blade broadly ovate to cordate-ovate, 4.5–12×2–7 cm, sparsely minutely hispid, abaxially distinctly glandular, base truncate to cordate, margin coarsely serrate-dentate, apex long acuminate, terminal tooth elongated. Verticillasters (2–)6–12-flowered; bracteoles subulate, ca. 2 mm. Pedicel less than 1 mm. Calyx 1–1.5 cm, long turbinate, dotted or subglabrous, minutely hispid or strigose on veins, conspicuously 8–10-veined; teeth shorter than tube, narrowly triangular or ovate, spinescent, anterior teeth much longer than posterior teeth. Corolla rose or purple to dark red, 1.5–3 cm, pubescent, sparsely scaly except for annulus inside; upper lip oblong-elliptic, ca. 5 mm, margin entire; middle lobe of lower lip oblong to obcordate, emarginate; lateral lobes subcircular. Nutlets chestnut brown, triquetrous, ovoid, adaxially ribbed. Fl. Jul–Aug, fr. Sep.

- Wet areas in valley forests, hillsides; 1200–2700 m. Gansu, Guizhou, Hebei, Henan, Hubei, Shaanxi, Sichuan, Yunnan.

- 1a. Stem and young branches subglabrous or sparsely

puberulent; calyx 8-veined, veins minutely hispid, posterior teeth subequal; corolla ca. 1.5(–2) cm, middle lobe of lower lip oblong 2a. var. *urticifolius*

- 1b. Stem and young branches sparsely pilose-strigose, nodes densely strigose; calyx 10-veined, veins strigose, middle posterior tooth elongated; corolla 1.5–3 cm, middle lobe of lower lip obcordate 2b. var. *decemnervius*

2a. *Loxocalyx urticifolius* var. *urticifolius*

斜萼草 xie e cao

Stem and young branches subglabrous or sparsely puberulent. Calyx 8-veined, minutely hispid on veins; anterior teeth 2, coalescent, slightly dilated; posterior teeth 3, subequal. Corolla ca. 1.5(–2) cm, middle lobe of lower lip oblong.

- Wet areas in valley forests; 1200–2700 m. Gansu, Guizhou, Hebei, Henan, Hubei, Shaanxi, Sichuan, Yunnan.

2b. *Loxocalyx urticifolius* var. *decemnervius* C. Y. Wu & H. W. Li, Acta Phytotax. Sin. 10: 220. 1965.

十脉变种 shi mai bian zhong

Stem and young branches sparsely pilose-strigose, densely strigose on nodes. Calyx 10-veined, strigose on veins; anterior teeth 2, strongly coalescent, dilated; posterior teeth 3, unequal, middle tooth elongated. Corolla 1.5–3 cm, middle lobe of lower lip obcordate.

- Hillsides; 1500–2300 m. Shaanxi.

