

58. PTERYGIELLA Oliver in W. J. Hooker, Icon. Pl. 25: t. 2463. 1896.

翅茎草属 *chi jing cao shu*

Herbs, or shrubs, annual or perennial, erect, sometimes with long rhizomes. Stems basally woody, narrowly 4-winged or terete and wingless. Leaves opposite, decussate, sessile or subsessile; leaf blade mostly lanceolate, margin entire or serrate. Racemes terminal; bracts foliaceous. Flowers opposite, few. Pedicel short. Bracteoles 2, at pedicel apex. Calyx tube broadly campanulate, 5-veined, somewhat 2-lipped; lobes 5, 2 upper lobes shorter than other lobes, margin entire. Corolla 2-lipped, slightly longer than calyx; tube funnellform; lower lip usually nearly as long as upper, 3-lobed, lobes subequal, with 2 raised folds; upper lip 2-lobed, lobes arched, recurved at margin. Stamens didynamous; filaments inserted below middle of corolla tube; anthers 2-loculed, dorsifixed; anther locules parallel, longitudinally dehiscent, densely white villous. Ovary usually ovoid, 2-loculed, densely hirsute. Style densely villous; stigma 2-lobed. Capsule black-brown. Seeds numerous, small; seed coat scrobiculate-reticulate or seed enclosed in large bladderly loose hyaline reticulate appendage.

• Five species: endemic to China.

- 1a. Shrubs, ca. 100 cm tall 5. *P. suffruticosa*
- 1b. Herbs, 14–60 cm tall.
 - 2a. Leaves orbicular-ovate, margin subentire to serrate; seeds 1–1.2 mm, enclosed in a bladderly loose hyaline reticulate appendage; corolla dark brown 4. *P. bartschioides*
 - 2b. Leaves often linear, sometimes lanceolate to narrowly lanceolate, margin entire to rarely subundulate; seeds usually less than 0.5 mm, without a reticulate appendage; corolla yellow.
 - 3a. Stems terete, wingless; leaves 3-veined 3. *P. cylindrica*
 - 3b. Stems quadrangular, winged along ribs; leaves 1-veined.
 - 4a. Leaf blade densely glandular pubescent, apex obtuse or subacute; corolla 1.6–1.8 cm 1. *P. nigrescens*
 - 4b. Leaf blade subglabrous to sparsely pubescent, apex narrowly acute; corolla 1.4–1.6 cm 2. *P. duclouxii*

1. *Pterygiella nigrescens* Oliver in W. J. Hooker, Icon. Pl. 25: t. 2463. 1896.

翅茎草 *chi jing cao*

Herbs, 25–35(–50) cm tall, glandular pubescent. Stems 1, rigid, to 3.5 mm in diam., quadrangular, winged along ribs, unbranched or with 1–4 pairs of opposite branches. Leaves below smaller than others and often deciduous; leaf blade lanceolate to narrowly so, 1.5–3 cm × 3–5 mm, densely brown glandular pubescent, base broadly cuneate, subamplexicaul, decurrent into stem wing, margin entire, apex obtuse to subacute, 1-veined. Racemes 1/3–1/2 of stem length; bracts longer than flowers. Pedicel 1–1.5 mm, slender. Bracteoles ca. 4 mm. Calyx 1.2–1.5 cm × 7–9 mm; lobes triangular-ovate. Corolla yellow, 1.6–1.8 cm, pubescent; tube 1–12 mm; upper lip ± galeate, 6–7 mm, emarginate. Stamens included; anther locules ca. 1.5 mm. Capsule ovoid, 8–10 mm. Seeds black, less than 0.5 mm. Fl. Jul–Oct, fr. Sep–Oct.

• Scrub; 1700–2600 m. Yunnan.

2. *Pterygiella duclouxii* Franchet, Bull. Soc. Bot. France 67: 22. 1900.

杜氏翅茎草 *du shi chi jing cao*

Annuals, 20–35(–55) cm tall, black when dry, subglabrous to sparsely villous, mostly with glandular hairs. Stems 1 or 2–7-fascicled, quadrangular, winged along ribs. Leaves early deciduous below, sessile, linear, rarely linear-lanceolate, 1.5–4.5 cm × 2–6 mm,

herbaceous, subglabrous to sparsely pubescent, base cuneate, margin entire, apex narrowly acute; midvein abaxially raised. Racemes 1/4–1/2 of stem length. Flowers 4–6, often paired. Bracteoles linear. Calyx 1.2–1.5 cm × 6–9 mm; lobes 5, subtriangular. Corolla yellow, 1.4–1.6 cm, outside sparsely pubescent; tube 8–10 mm; lower lip 4–5 mm, lobes suborbicular; upper lip emarginate. Stamens included; anther locules narrowly ovate, ca. 1.5 mm. Capsule ovoid-globose, 8–10 mm. Seeds black, reniform, less than 0.5 mm. Fl. Jul–Oct.

• Edge of forests, grassland on mountain slopes, trailsides; 1000–2800 m. Guangxi, Sichuan, Yunnan.

3. *Pterygiella cylindrica* P. C. Tsoong, Fl. Reipubl. Popularis Sin. 68: 419. 1963.

圆茎翅茎草 *yuan jing chi jing cao*

Annuals, 25–60 cm tall, densely hairy. Stems usually 1, terete, unribbed and wingless, 2–2.5 mm in diam., densely with grayish yellow-brown straight hairs, often apically branched. Leaves subsessile; leaf blade linear to linear-lanceolate, 2.5–3.5 cm × ca. 4 mm, subleathery, with gray-brown appressed fine hairs, margin revolute and entire or subundulate; veins 3, abaxially raised, adaxially impressed. Racemes to 12 cm; bracts yellow-brown pubescent. Pedicel ca. 3 mm. Calyx 1.3–1.6 cm × ca. 8 mm, herbaceous, densely pubescent; lobes triangular-ovate, 1/3–1/2 as long as tube, apex acuminate. Corolla yellow, 1.2–1.5 cm, included in calyx, sparsely pubescent; lower lip as long

as or slightly shorter than upper lip; lobes ovate-oblong, ca. 1.5 mm, yellow-brown hirsute. Style ca. 8 mm; stigma ovate. Capsule ovoid-globose, ca. 8 mm. Fl. Sep–Oct, fr. Oct–Nov.

• Grassland, mountain slopes; 1800–2100 m. Sichuan (Muli Zangzu Zizhixian), Yunnan.

4. *Pterygiella bartschioides* Handel-Mazzetti, Anz. Akad. Wiss. Wien, Math.-Naturwiss. Kl. 60: 186. 1923.

齿叶翅茎草 *chi ye chi jing cao*

Annuals or perennials, 14–50 cm tall, black when dry, hairy, glabrescent. Stems 1, quadrangular to narrowly 4-winged, unbranched or with 1 or 2 branches, apically glandular pubescent. Leaves sessile; lower leaves orbicular-ovate, smaller than upper leaves, margin subentire to serrulate; upper leaves broadly ovate to rhomboid-ovate, 1–2.5 × 0.7–1.2 cm, margin excluding basal portion serrate; veins 5–7, palmate. Racemes to 12 cm. Pedicel ca. 3 mm, densely glandular hairy. Calyx 0.8–1.4 cm, densely glandular hairy; lobes subtriangular. Corolla dark brown, 1.6–1.8 cm, exerted from calyx, outside densely glandular hairy; lower lip 2–3 mm, lobes oblong and equal; upper lip emarginate. Capsule ovoid, ca. 1 cm. Seeds black-brown, oblong-ovoid, 1–1.2 mm, enclosed in a large, bladderly, loose, hyaline reticulate appendage ca. 2.2 × 1 mm, base with a narrow caruncle ca. 0.3 mm, apex beaked. Fl. Aug–Sep, fr. Sep–Oct.

• Thickets, grassy fields; 2700–3400 m. NW Yunnan.

This species may well be conspecific with *Xizangia serrata* Hong, but adequate flowering material is needed before a final decision can be made. If conspecific, the species should be transferred to *Xizangia*.

5. *Pterygiella suffruticosa* D. Y. Hong, Novon 6: 372. 1996.

川滇翅茎木 *chuan dian chi jing mu*

Shrubs, ca. 1 m tall. Stems terete, ca. 5 mm in diam., shoots densely pilose. Leaves sessile, linear-elliptic, 3–5 × 0.3–1 cm, densely puberulent, base cuneate, margin entire, apex acute. Lower bracts similar to upper leaves, gradually decreasing in size upward. Pedicel to 3 mm, pilose. Calyx 1.3–1.5 cm, puberulent, lobed to middle; lobes subulate-deltoid. Corolla yellow or pale pink, ca. 2 mm longer than calyx; middle lobe of lower lip acute at apex, lateral lobes lanose in 2 vertical patches and apex rounded; upper lip galeate, margin entire. Ovary ellipsoid. Style hairy.

• Ravines; 1400–2000 m. Yunnan (Lijiang Naxizu Zizhixian), Sichuan (Muli Zangzu Zizhixian).

