

60. HETEROLAMIUM C. Y. Wu, Acta Phytotax. Sin. 10: 254. 1965.

异野芝麻属 yi ye zhi ma shu

Herbs erect. Leaves cordate, long petiolate. Verticillasters 2–6-flowered, pedunculate, in narrow, secund, terminal panicles; upper floral leaves bractlike, short petiolate to sessile; bracts minute. Pedicel slender. Calyx tubular, 15-veined, pilose annulate at throat inside, limb 2-lipped; upper lip 3-toothed, middle tooth larger than lateral teeth, ovate-orbicular; lower lip with 2 narrow teeth. Corolla 2-lipped; tube exserted, without hairy annulus inside; upper lip straight, 2-lobed, lobes rounded; lower lip 3-lobed, middle lobe larger than lateral lobes, spreading, white bearded near middle outside. Stamens 4, posterior 2 much exserted between 2 lobes of upper corolla lip, anterior 2 included before pollination but much exserted after; anther cells 2, divaricate, apex confluent. Style exserted, as long as stamens, apex 2-cleft; lobes linear, slightly curved. Nutlets triquetrous, ovoid, shiny, glabrous, rounded.

Monotypic: endemic to China.

Many workers consider *Heterolamium* as a synonym of *Orthosiphon*.

1. Heterolamium debile (Hemsley) C. Y. Wu, Acta Phytotax. Sin. 10: 254. 1965.

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Stems suberect, slender, unbranched, 15–40 cm, striate, densely puberulent, glabrescent. Petiole 1.5–5 cm, gradually reduced apically; leaf blade cordate to circular-cordate, sometimes ovate, lower stem leaf blades reniform, 2.5–5 cm wide, membranous, sparsely appressed white strigose, base cordate to subtruncate, margin coarsely crenate, apex obtuse to subacute. Verticillasters in lax inflorescences 4–10 cm; bracts ovate-oblong, ca. 5×2.5 mm, margin entire, glabrous; bracteoles linear, ca. 1 mm. Pedicel slender, 4–5 mm. Calyx ca. 4×2.5 mm, puberulent, lateral teeth of upper lip triangular, teeth of lower lip subulate-triangular; fruiting calyx ca. 8×3 mm, scarious, glabrescent, conspicuously 15-veined, with spinescent-tipped teeth; middle tooth of upper lip reflexed, decurrent, shorter than 2 anterior teeth. Corolla white; tube narrow, exserted, slightly dilated at apex; lobes of upper lip semicircular, as long as lateral lobes of lower lip; middle lobe of lower lip circular, margin entire, slightly concave; lateral lobes ovate, obtuse. Nutlets obscurely rugulose. Fl. Jun, fr. Jul.

• Forests, hillsides, streamsides; 1500–2700 m. Hubei, Hunan, Shaanxi, Sichuan, Yunnan.

- 1a. Leaves broadly cuneate at base, widely spaced serrate, adaxially sparsely puberulent; corolla red 1c. var. *tochauense*
- 1b. Leaves cordate to subtruncate at base, crenate or crenulate, adaxially sparsely appressed white strigose; corolla white or dark red to purple-blue.
 - 2a. Leaves coarsely crenate, abaxially greenish; raceme-panicles lax; corolla white 1a. var. *debile*
 - 2b. Leaves crenulate, abaxially purplish; raceme-panicles compact; corolla dark red to purple-blue 1b. var. *cardiophyllum*

1a. Heterolamium debile var. **debile**

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Orthosiphon debilis Hemsley, J. Linn. Soc., Bot. 26: 267. 1890.

Leaf blade base cordate or sometimes subtruncate, margin coarsely crenate to crenulate, adaxially sparsely appressed white strigose, abaxially greenish. Raceme-panicles loose. Corolla white.

• Dense forests; 1700 m. Hubei, Shaanxi, Sichuan.

1b. Heterolamium debile var. **cardiophyllum** (Hemsley) C. Y. Wu, Acta Phytotax. Sin. 10: 255. 1965.

细齿变种 xi chi bian zhong

Plectranthus cardiophyllum Hemsley, J. Linn. Soc., Bot. 26: 269. 1890.

Leaf blade margin crenulate, abaxially purplish. Raceme-panicles compact. Corolla dark red to purple-blue.

• Grassy hillsides, streamsides, forest margins, forests, bamboo forests; 1500–2700 m. Hubei, Hunan, Sichuan, Yunnan.

1c. Heterolamium debile var. **tochauense** (Kudô) C. Y. Wu, Acta Phytotax. Sin. 10: 255. 1965.

尖齿变种 jian chi bian zhong

Teucrium tochauense Kudô, Mem. Fac. Sci. Taihoku Imp. Univ. 2: 296. 1929.

Leaf blade base broadly cuneate, margin remotely serrate, adaxially sparsely puberulent. Corolla red.

• Forests. Sichuan.

