

77. **KEISKEA** Miquel, Ann. Mus. Bot. Lugduno-Batavum 2: 105. 1865.

香筒草属 *xiang jian cao shu*

Herbs or subshrubs. Leaves petiolate, dentate. Verticillasters 2-flowered, in terminal and axillary racemes; bracts persistent, somewhat lax or imbricate. Calyx campanulate, sparsely hairy, throat tufted hairy at each tooth sinus or pilose annulate; teeth 5, subequal or posterior tooth smaller. Corolla white, yellowish, or purple; tube funnellform to subcylindric, annulate; upper lip 2-lobed; middle lobe of lower lip flat; longer than circular lateral lobes. Stamens 4, exerted or rarely included, anterior 2 longer; filaments separate, glabrous, edentate; anther cells 2, divergent, apex confluent. Style filiform, apex 2-cleft; lobes subulate or ± linear, equal or unequal. Nutlets subglobose, glabrous.

About six species: China, Japan; five species in China.

- 1a. Bracts broadly ovate-orbicular, ± imbricate 1. *K. elsholtzioides*
- 1b. Bracts indistinct, loosely arranged.
 - 2a. Leaves lanceolate to oblong-lanceolate, base attenuate to obtuse, usually asymmetrical 5. *K. szechuanensis*
 - 2b. Leaves ovate to oblong.
 - 3a. Corolla dark purple, ca. 11 mm; middle lobe of lower lip widest, densely white barbate inside, red glandular 3. *K. australis*
 - 3b. Corolla white or purplish, 5–8 mm; middle lobe of lower lip smaller, sparsely bearded inside, glandular.
 - 4a. Leaves ovate, 10–15 × 4–6.5 cm; stem finely retrorse pilose 2. *K. sinensis*
 - 4b. Leaves ovate-oblong to oblong, 3.5–9 × 2.5–4 cm; stem white floccose-villous 4. *K. glandulosa*

1. **Keiskea elsholtzioides** Merrill, Sunyatsenia 3: 258. 1937.

香薷状香筒草 *xiang ru zhuang xiang jian cao*

Keiskea elsholtzioides f. *purpurea* X. H. Guo.

Herbs. Stems ca. 40 cm, purplish red, densely spreading ciliate villous, subglabrescent. Petiole 5.5–7 cm; leaf blade ovate to ovate-oblong, 1.5–15 × 1.2–8 cm, ± leathery or thick papery, adaxially dark green, sparsely minutely hispid, subscabrous, abaxially sparsely ciliolate and impressed glandular, base cuneate to shallow cordate, margin crenate-serrate to coarsely serrate, apex acuminate. Racemes terminal and axillary, to 18 cm after anthesis, ciliate villous; verticillasters ± widely spaced. Pedicel ca. 2.5 mm. Calyx ca. 3 mm, ciliate hirsute, throat tufted ciliate on each tooth sinus; teeth ca. 2 mm, lanceolate, oblong-lanceolate, or ovate-lanceolate, margin sparsely ciliate. Corolla white, tinged purple, or purple, ca. 8 mm, puberulent; tube funnellform, ca. 1.7 mm wide at base, ca. 4.7 mm wide at throat; limb 2-lipped, lips straight; lobes circular, upper lobe ca. 1.6 mm, lower lobe ca. 2 mm. Exserted filaments purple. Ovary glabrous. Fl. Jun-Oct, fr. Oct-Nov.

• Grassy areas, thickets, broad-leaved forests on hills; 200–500 m. Anhui, Guangdong, Hubei, Hunan, Jiangxi, Zhejiang.

2. **Keiskea sinensis** Diels, Notizbl. Bot. Gart. Berlin-Dahlem 9: 199. 1924.

中华香筒草 *zhong hua xiang jian cao*

Herbs. Stems 40–70 cm, purplish, finely retrorse pilose. Petiole 0.8–1.5 cm, densely fine pilose; leaf blade ovate, 10–15 × 4–6.5 cm, adaxially glabrous, yellow-brown strigose on veins, abaxially yellow brownish, dark glandular, base cuneate to rounded, margin ± coarsely serrate, apex acuminate to caudate-acuminate. Racemes terminal and axillary, 7–9 cm including peduncles ca. 5 mm, densely glandular pubescent; bracts persistent, ovate, ca. 2 mm, glandular pubescent, abruptly acuminate. Pedicel 1.5–2 mm, glandular pubescent. Calyx ca. 2.5 mm, 5–7 × 4 mm in fruit, throat ciliate hirsute at each tooth sinus, teeth acute. Corolla white, margin yellowish, ca. 5 mm, glabrous; tube funnellform, annulus at throat, densely villous-barbate, sparsely villous above throat, yellow resinous glandular, throat to 4.5 mm wide; upper lip straight,

ca. 1 mm; middle lobe of lower lip oblong, ca. 2 mm, lateral lobes ca. 1 mm. Ovary glabrous. Nutlets slightly attenuate at base, ca. 2 mm in diam. Fl. Sep-Oct, fr. Nov.

• Forests, low mountains. Anhui, Jiangsu, Zhejiang.

3. **Keiskea australis** C. Y. Wu & H. W. Li, Fl. Reipubl. Popularis Sin. 66: 585. 1977.

南方香筒草 *nan fang xiang jian cao*

Herbs erect. Stems 50–80 cm, reddish, sparsely pubescent, basally glabrescent, branched. Petiole reddish, 1–4 cm; leaf blade ovate to ovate-oblong, (2.5–)4–11 × (1.3–)2–5.5 cm, papery, adaxially puberulent or dusty hairy, pubescent on veins, abaxially sometimes entirely glandular, with sparsely puberulent veins, base broadly cuneate to obliquely shallow cordate, margin subcrenate, apex short acuminate to acute. Racemes 8–9 cm; rachis densely glandular pubescent; bracts ovate-subulate, ca. 5 × 2 mm, abaxially fine pilose along 3 veins, base cuneate, margin entire, white ciliate, apex caudate-acuminate. Pedicel 1–2 mm, to 5 mm following anthesis, densely glandular pubescent. Calyx to 4 mm, glandular pubescent, throat pilose annulate, margin ciliolate; teeth of upper lip subequal or middle tooth smaller, teeth of lower lip lanceolate. Corolla dark purple, to 1.1 cm; tube subcylindric, ca. 9 mm, to 2 mm wide at throat, sparsely puberulent, horizontally fine pilose annulate ca. 2.5 mm above base inside; upper lip ca. 2 mm, emarginate; lower lip ca. 3 mm, middle lobe densely white barbate, red glandular. Posterior stamens included. Ovary glabrous. Fl. Oct.

• Sparse forests in valleys; 600–700 m. Fujian, Guangdong.

4. **Keiskea glandulosa** C. Y. Wu, Acta Phytotax. Sin. 10: 236. 1965.

腺毛香筒草 *xian mao xiang jian cao*

Herbs erect. Stems ca. 30 cm, subglabrescent basally, white floccose-villous at apex. Petiole 0.7–3 cm, glandular floccose-pilose; basal leaves ca. 3.5 cm, base attenuate, decurrent; blades of upper leaves ovate-oblong to oblong, 6–9 × 2.5–4 cm, papery, adaxially brown or olive green, puberulent, dusty hairy, pubescent on midrib, abaxially sparsely villous on midrib, base rounded to cuneate, margin shallowly crenate-serrate, apex acuminate to obtuse. Racemes

ca. 8 cm; rachis white villous; bracts ovate-subulate, ca. 7×2.5 mm, margin white ciliate, apex caudate-acuminate. Pedicel ca. 2 mm, glandular pilose. Calyx ca. 4 mm, glandular pilose, inconspicuously tufted hairy at each tooth sinus; teeth lanceolate, ca. 2.3 mm. Corolla limb purple when dry, ca. 8 mm, puberulent, villous-barbate annulate inside; tube funnellform, throat ca. 4 mm wide; upper lip longer, ca. 2.2 mm; lower lip lobes subequal, circular, ca. 1.8 mm. Stamens included, anterior 2 ca. 3 mm. Ovary glabrous. Fl. Nov.

- Fujian.

5. *Keiskea szechuanensis* C. Y. Wu, Acta Phytotax. Sin. 10: 236. 1965.

香筒草 xiang jian cao

Herbs erect. Stems ca. 80 cm, glabrous, apex purple-red, grooves floccose-pilose. Petiole 0.7–1.8 cm; leaf blade lanceolate to oblong-lanceolate, 3.5–4.5×1.2–5.4 cm, ± leathery, adaxially olive green, glabrous, scabrous with age, abaxially glabrescent, densely impressed glandular, base attenuate to obtuse, usually asymmetrical, margin serrate, apex subobliquely caudate-acuminate; veins spreading fine pubescent when young, distinctly netted. Racemes terminal and axillary, 5–7 cm; peduncle 4–10 mm; rachis finely glandular villous; bracts ovate-subulate, ca. 5 mm, slightly reddish, glabrous, margin ciliate. Pedicel 1–1.5 mm, finely glandular villous. Calyx ca. 4×3 mm, puberulent, finely tufted villous at each tooth sinus inside; teeth lanceolate, subequal, ca. 2 mm; posterior tooth subcircular, minute, apex mucronate. Corolla yellowish, ca. 7 mm, puberulent; tube funnellform, pilose annulate slightly below middle, throat to 3.2 mm wide; upper lip straight, ca. 1.5 mm; middle lobe of lower lip ca. 1.1 mm. Stamens much exerted, straight, posterior 2 longer. Ovary glabrous. Fl. Aug–Oct.

- Hills; 1100–2200 m. Sichuan, Yunnan.

