

4. SALOMONIA Loureiro, Fl. Cochinch. 1: 14. 1790, nom. cons., not Heister ex Fabricius (1759).

齿果草属 chi guo cao shu

Herbs annual, erect. Stems and branches green. Roots aromatic. Leaves simple, alternate, petiolate or sessile; leaf blade green, elliptic, ovate, or ovate-lanceolate, membranous or papery, margin entire. Inflorescence spicate, terminal, bracts with a scarios margin, bracteoles absent. Flowers very small, zygomorphic. Sepals 5, persistent, nearly equal; inner 2 often slightly larger. Petals 3, usually pink-purple; keel cucullate, or arched, longer than lateral petals, without appendages. Stamens 4; filaments united, forming trough-shaped sheath, adnate with petals, open on upper side; anthers connate, dehiscent by an apical pore. Disk absent. Ovary compressed, 2-loculed; ovule 1 per locule, anatropous; style curved, thickened toward apex; stigma capitate. Capsule reniform, broadly orbicular, or obcordate, compressed, margin denticulate, dehiscent by abaxial suture, with 2 seeds dehiscent. Seeds black, shiny, ovoid, glabrous, with endosperm, not strophiolate.

About five species: tropical Asia, tropical Australia; two species in China.

- 1a. Stem usually multibranched, winged; leaf blade ovate-cordate or suborbicular, base truncate to cordate, petiolate; surface of capsule with protruding reticulations, glabrous ..... 1. *S. cantoniensis*  
1b. Stem simple or branched, not winged; leaf blade elliptic or elliptic-lanceolate, base rounded to cuneate, sessile to minutely petiolate; surface of capsule without protruding reticulations, occasionally with minute hairs ..... 2. *S. ciliata*

1. *Salomonium cantoniensis* Loureiro, Fl. Cochinch. 1: 14. 1790.

齿果草 chi guo cao

*Salomonium cantoniensis* var. *edentula* (Candolle) Gagnepain; *S. edentula* Candolle; *S. subrotunda* Hasskarl.

Herbs annual, erect, 5–25 cm tall. Roots slender, fragrant. Stem thin, multibranched, 3-winged, glabrous. Petiole 1.5–2 mm; leaf blade ovate-cordate or cordate, 5–16 × 5–12 mm, membranous, glabrous, 3-veined, base cordate or truncate, margin entire or slightly undulate, apex obtuse, mucronate. Spike terminal, 1–6 cm, elongated after anthesis. Flowers very small, 2–3 mm, sessile; bracts caducous, very small. Sepals 5, persistent, connate at base, linear-subulate, 0.4–0.5 mm. Petals pink-purple; lateral petals ca. 2.5 mm; keel ca. 3 mm. Filaments ca. 2 mm, united into an open sheath, inside of sheath arachnoid; anthers connate. Ovary reniform, ca. 1 mm in diam., margin narrowly triangular-denticulate; style ca. 2.5 mm; stigma slightly lobed. Capsule reniform, ca. 1 mm, ca. 2 mm in diam., both lateral margins pointedly triangular-denticulate; surface of capsule with protruding reticulations. Seeds 2, black, shiny, ovoid, ca. 1 mm in diam. Fl. Jun–Aug, fr. Aug–Oct.

Forests, forest margins, shrub forests, grasslands on hills and mountain slopes; 600–1500 m. Fujian, Guangdong, Guangxi, Guizhou, S and SE Yunnan, Zhejiang [Bhutan, Cambodia, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, Philippines, Thailand].

Material with the margin of the capsule ± smooth (almost no denticulations) has been separated as *Salomonium cantoniensis* var. *edentula*, but as the degree of denticulation in this species is variable and as *S. cantoniensis* var. *edentula* is in all other aspects identical to *S. cantoniensis*, the variety is not here recognized.

2. *Salomonium ciliata* (Linnaeus) Candolle, Prodr. 1: 334. 1824.

椭圆叶齿果草 tuo yuan ye chi guo cao

*Polygala ciliata* Linnaeus, Sp. Pl. 2: 701. 1753; *Salomonium arnottiana* Miquel; *S. cavaleriei* H. Léveillé; *S. horneri* Hasskarl; *S. oblongifolia* Candolle; *S. rigida* Hasskarl; *S.*

*sessilifolia* D. Don; *S. setosociliata* Hasskarl; *S. stricta* Siebold & Zuccarini.

Herbs annual, erect, 10–20 cm tall. Stem slender, simple or few branched, longitudinally angular and sulcate, glabrous. Leaves sessile; leaf blade elliptic or ovate-lanceolate, 4–8 × 1–2.5 mm, membranous to thinly papery, glabrous, basally 3-veined, base subrounded, margin entire, rarely apex 1- or 2-ciliate, apex acute or acuminate. Spike 4–10 cm; bracts persistent at anthesis, linear, ca. 1 mm. Flowers sessile, small, ca. 2.5 mm. Sepals 5, persistent, connate at base, green, lanceolate-ovate, nearly equal, ca. 1.2 mm, apex acuminate, sparsely ciliate. Petals connate in lower 1/2, red-purple, 2–2.5 mm; keel longer than lateral petals. Filaments ca. 1.5 mm, united forming an open sheath, inside of sheath arachnoid, lower 1/2 of sheath adnate with petals. Ovary obcordate, ca. 0.75 mm in diam., margin filiform denticulate; style ca. 2 mm, median part thickened, cylindrical; stigma capitate. Capsule reniform, ca. 2 mm in diam., apex retuse, margin 2-seriate filiform denticulate, carpel smooth, without reticulate striae, sometimes minutely hairy. Seeds 2, black, shiny, ovoid, ca. 1 mm in diam. Fl. Jul–Aug, fr. Aug–Sep.

Open and damp grasslands on mountain slopes; 600–1000 m.

Fl. China 11: 158–159. 2008.

Fujian, Guangdong, Guangxi, Guizhou, Hainan, Hunan, Jiangsu, Jiangxi, Taiwan, Yunnan, Zhejiang [Cambodia, India, Indonesia, Japan, Korea, Laos, Malaysia, Myanmar, Nepal, New Guinea, Philippines, Sri Lanka, Thailand, Vietnam; Australia].

Fl. China 11: 158–159. 2008.