

4. CAMPANUMOEAE Blume, Bijdr. 726. 1826.

金钱豹属 *jin qian bao shu*

Hong Deyuan (洪德元); Thomas G. Lammers, Laura L. Klein

Herbs, perennial. Roots thickened, carrot-shaped. Stems voluble. Leaves opposite or alternate. Flowers solitary, axillary or almost opposite to leaves, or in cymes of 3, pedicellate, 4–7-merous. Calyx tube (hypanthium) adnate to ovary to different extents, or free from ovary. Corolla epigynous; tube obvious; limb 5(or 6)-lobed. Stamens 5; filaments glabrous or hairy. Ovary completely inferior, or inferior only to corolla but inferior, semi-inferior, or superior to calyx, 3–6-locular; style glabrous or hairy; stigma 3–6-fid. Berry globose, apically flat. Seeds numerous.

Two species: Bhutan, China, NE India, Indonesia, Japan, Laos, Myanmar, Nepal, Thailand, Vietnam; two species in China.

- 1a. Leaves opposite; calyx nearly completely hypogynous but corolla epigynous 1. *C. javanica*
- 1b. Leaves alternate; both calyx and corolla epigynous 2. *C. inflata*

1. *Campanumoea javanica* Blume, Bijdr. 727. 1826.

金钱豹 *jin qian bao*

Roots thickened. Stems twining, multi-branched, glabrous. Leaves opposite, rarely alternate, long petiolate; blade cordate or cordate-ovate, sometimes becoming trilobate, 2.6–8 × 2–7.5 cm, glabrous or abaxially sometimes sparsely villous, margin dentate or crenate, or rarely entire. Flowers axillary, glabrous throughout. Calyx free from ovary, cleft nearly to base; lobes lanceolate or ovate, rarely narrowly triangular, 8–20 mm. Corolla epigynous, white or yellow-green, purple or reddish inside, campanulate, cleft to middle. Stigma 4- or 5-fid; ovary and berry 5-locular. Berry violet or greenish white suffused with red, globose, 7–26 mm. Seeds irregular in shape, surface reticulate. Fl. and fr. May–Nov.

S Anhui, Fujian, SE Gansu, Guangdong, Guangxi, N and SW Guizhou, Hainan, W Hubei, Hunan, Jiangxi, Sichuan, Taiwan, Yunnan, Zhejiang [Bhutan, NE India, Indonesia, Japan, Laos, Myanmar, Nepal, Thailand, Vietnam].

- 1a. Corolla 15–30 mm; berry violet, 15–26 mm in diam. 1a. subsp. *javanica*
- 1b. Corolla 6–13 mm; berry greenish white suffused with red, 7–15 mm in diam. 1b. subsp. *japonica*

1a. *Campanumoea javanica* subsp. *javanica*

金钱豹(原亚种) *jin qian bao (yuan ya zhong)*

Campanula javanica (Blume) D. Dietrich; *Campanumoea cordata* (Hasskarl) Miquel; *C. labordei* H. Léveillé; *Codonopsis cordata* Hasskarl; *C. cordifolia* Komarov; *C. javanica* (Blume) J. D. Hooker & Thomson.

Leaf blade 3.5–8 × 2.2–7.5 cm. Calyx lobes lanceolate, 10–20 mm. Corolla 15–30 mm. Berry violet, 15–26 mm in diam.

Guangdong, Guangxi, SW Guizhou, Hainan, Taiwan, Yunnan [Bhutan, NE India, Indonesia, Japan, Laos, Myanmar, Nepal, Thailand, Vietnam].

1b. *Campanumoea javanica* subsp. *japonica* (Makino) D. Y. Hong, Fl. Reipubl. Popularis Sin. 73(2): 71. 1983.

小花金钱豹 *xiao hua jin qian bao*

Campanumoea javanica var. *japonica* Makino, Bot. Mag. (Tokyo) 22: 155. 1908; *C. japonica* Maximowicz (1868), not Siebold ex E. Morren (1863); *C. maximowiczii* Honda; *Codonopsis javanica* subsp. *japonica* (Makino) Lammers.

Leaf blade 2.6–8 × 2.2–6.5 cm. Calyx lobes ovate or lanceolate, or rarely narrowly triangular, 8–12(–17) mm. Corolla 6–13 mm. Berry greenish white suffused with red, 7–15 mm in diam.

S Anhui, Fujian, SE Gansu (Wenxian), N Guangdong (Huaiji, Lianxian), Guangxi (Jiuwan Dashan), N Guizhou, W Hubei, Hunan, Jiangxi, Sichuan (E of Erlang Shan), Taiwan, Zhejiang [Japan].

2. *Campanumoea inflata* (J. D. Hooker & Thomson) C. B. Clarke in J. D. Hooker, Fl. Brit. India 3: 436. 1881.

藏南金钱豹 *zang nan jin qian bao*

Codonopsis inflata J. D. Hooker & Thomson, Ill. Himal. Pl. t. 16, C. 1855.

Plants voluble. Roots slightly thickened, branched. Stems almost glabrous. Leaves alternate; petiole 3–6 cm; blade ovate to ovate-lanceolate, 4–10 × 2–5 cm, abaxially glaucous, puberulent, adaxially glabrous or sparsely puberulent, base deeply cordate, margin entire or sinuate, apex acuminate. Flowers almost opposite to leaves, or in terminal and few-flowered cymes; pedicels 2–3 cm. Calyx adnate up to top of ovary; tube obdeltoid-conical, puberulent; lobes and corolla inserted at same position, ovate-triangular, ca. 1 cm, margin often recurved. Corolla pale yellow or pale green, but often purple at margin and veins, campanulate, 2.5–3 cm, cleft to 1/3. Filaments glabrous. Style glabrous; stigma 3-lobed; ovary 3-locular. Berry yellow-green, globose, 12–15 mm in diam. Seeds ovoid-globose, surface reticulate. Fl. and fr. Aug–Sep.

Broad-leaved forests, herb communities at forest margins; below 2500 m. SE Xizang (Médog) [Bhutan, NE India, E Nepal].

Fl. China 19: 526–527. 2011.