

### 3. CYATHOSTEMMA Griffith, Not. Pl. Asiat. 4: 707. 1854.

杯冠木属 bei guan mu shu

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Shrubs, climbing. Inflorescences terminal, extra-axillary, or often leaf-opposed; flowers solitary or in pendulous and few-flowered cymes from branches or trunk. Flowers bisexual or unisexual, subglobose. Pedicel bracteate. Torus flattened, margins prominent. Sepals 3, valvate, connate at base, usually hirsute. Petals 6, biseriate, short, subequal or inner smaller, imbricate at apex, valvate at base remaining incurved. Stamens numerous, oblong; anthers subintrorse; connectives oblique, incurved. Carpels numerous; ovules few to numerous per carpel, in 2 series; styles cylindric, glabrous; stigma conical, 2-cleft at apex. Fruit apocarpous, pedicellate; monocarps stipitate, oblong or ovoid. Seeds several per monocarp, in 2 series.

About ten species: China, Indonesia, Malaysia, Thailand, Vietnam; one species in China.

*Cyathostemma* was included in *Uvaria* on the basis of a recent molecular study by L. L. Zhou et al. (Syst. Biodivers. 7: 249–258. 2009). This study included 25 species of *Uvaria* and seven species of *Cyathostemma* (but not *C. yunnanense*) and showed the *Cyathostemma* spp. to form two separate groups nested within *Uvaria* and separated by four species of *Uvaria*. One of us (Gilbert) believes that this shows Zhou et al. were right to transfer all species of *Cyathostemma* to *Uvaria*.

1. *Cyathostemma yunnanense* Hu, Bull. Fan Mem. Inst. Biol. 10: 121. 1940.

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*Cyathostemma vietnamense* Bân; *Uvaria yunnanensis* (Hu) L. L. Zhou, Y. C. F. Su & R. M. K. Saunders (2009), not Li (1978).

Shrubs to 5 m tall, climbing, brownish pubescent throughout, often glabrescent. Petiole 5–8 mm; leaf blade obovate, 13–20 × 4.5–9 cm, membranous to papery, secondary veins 13–15 on each side of midvein, abaxially distinctly elevated, and adaxially slightly elevated and sparsely stellate pubescent or glabrous, base rounded to shallowly cordate, apex acute to obtuse. Inflorescences axillary, cymose, several flowered. Flowers small. Pedicel 1–1.5 cm, densely stellate pubescent; bracteoles 1 or 2, oblong to obovate, 4–13 mm. Calyx cupular; sepals reniform, densely stellate pubescent. Petals yellowish green; outer petals broadly ovate, ca. 7 × 7 mm; inner petals ca. 6 × 5 mm. Stamens ca. 3.5 mm; connectives broadly conic, puberulent. Carpels ca. 3.5 mm, densely pubescent; ovules 4–14 per carpel, in 2 series; stigmas conic, glabrous. Fruiting pedicel 0.7–4 cm; monocarps ellipsoid, 4–7 × 3–4 cm; epicarp tubercular and densely tomentose to glabrous. Fl. Jun–Jul, fr. Aug–Oct.

Scrub on slopes; ca. 1000 m. S Yunnan [Vietnam].

*Cyathostemma yunnanense* is known in China only from the type collection. Other Chinese records are based on misidentifications of material of *Uvaria kurzii*. *Uvaria yunnanensis* (Hu) L. L. Zhou, Y. C. F. Su & R. M. K. Saunders (Syst. Biodivers. 7: 255. 2009) appears to be a later homonym of *U. yunnanensis* Li (Pl. Fossils China: Tertiary 3: 19, pl. 24, t. 7, f. 4. 1978, not seen), based on fossil material. A new epithet would be required if *Cyathostemma* was included within *Uvaria* because of the blocking name *U. vietnamensis* Meade (2005).

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