

2. MAPANIA Aublet, Hist. Pl. Guiane 1: 47. 1775.

播鼓蒴属 lei gu li shu

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Herbs, perennial, robust. Roots coarse. Rhizomes woody. Culms central or lateral (arising from basal leaf axils or below leaves), if lateral then with cataphylls at base. Leaves 3-ranked, basal or rarely cauline; basal leaf sheath folded, open adaxially; cauline leaf sheath tubular; ligule absent; leaf blade linear to oblong, leathery or subleathery. Involucral bracts leaflike or glumelike, basal bract longest. Inflorescences corymbose paniculate or capitate, with 1, few, or many spikes. Spikes comprising few to many spirally imbricate glumelike bracts, each subtending a bisexual spikeletlike unit with a much reduced axis (pseudospikelet). Pseudospikelets comprising an apparently terminal female flower and 5 or 6 scalelike glumes; basal 2 pseudospikelet glumes opposite and keeled; basal 3 pseudospikelet glumes subtending a male flower comprising 1 stamen, remaining glumes empty. Perianth bristles absent. Styles slender; stigmas [2 or]3. Nutlet with a hard or succulent outer surface, smooth or sculptured, lateral costae or furrows 0 or 2–4.

About 85 species: pantropical and extending into warm temperate regions; three species in China.

1a. Inflorescences corymbose paniculate; nutlet with 2–4 longitudinal furrows 1. *M. sumatrana*
1b. Inflorescences capitate or with only a single spikelet; nutlet without longitudinal furrows.

2a. Inflorescences capitate with up to 4 spikes, broadly ovoid, 1.8–2.5 × 1.5–1.8 cm 2. *M. silhetensis*

2b. Inflorescence a single spike, ellipsoid to subobovoid, ca. 3 × 1.6–2 cm 3. *M. wallichii*

1. *Mapania sumatrana* (Miquel) Benthamp subsp. **pandanophylla** (F. Mueller) D. A. Simpson, Revis. Gen. *Mapania*, 53. 1992.

露兜树叶野长蒲 lu dou shu ye ye chang pu

Hypolytrum pandanophyllum F. Mueller, Fragm. 9: 16. 1875; *Thoracostachyum pandanophyllum* (F. Mueller) Domin.

Rhizomes short or stolonlike. Culms central, ca. 1 m tall, 2–10 mm thick, straight, 3-angled, glabrous. Leaves basal and cauline, glabrous, basal leaves stipitate, cauline leaves sheathing; leaf sheath greenish to reddish brown, 7–24 cm; leaf blade to 2 m × 2.5–3 cm or longer, 3-angled, inverse W-shaped in cross section, 3-veined, margins scabrous or serrulate, apex flagelliform-acuminate. Involucral bracts 4 or 5, leaflike; basalmost bract to 70 × 1–2 cm or longer, much longer than inflorescence, not sheathing. Inflorescences corymbose paniculate, ca. 5 × 8 cm or longer; racemes several at apex of branches, with many spikes. Spikes 1 or 3–5 fascicled, ellipsoid, 5–6 mm, sessile, with many glumelike bracts subtending pseudospikelets. Glumelike bracts densely spirally and imbricately arranged, elliptic to broadly elliptic, ca. 2.5 mm, slightly shiny, glabrous, veins obsolete, apex rounded; basal 2 bracts empty, remainder each with a pseudospikelet. Pseudospikelets with 6 glumes, 3 male flowers, and 1 female flower; basal 2 glumes opposite, cymbiform, membranous to hyaline, keeled, ciliate on keel, each subtending 1 male flower; remaining 4 glumes linear-oblong, hyaline, outermost one subtending a male flower. Filaments to 3.7 mm; anthers linear to linear-oblong. Style ca. 1 mm; stigmas 3. Nutlet mid- to dark grayish brown, ovoid, 3–4 × 2.1–2.2 mm, outer surface hard, shiny, and with 2–4 longitudinal furrows. Fl. Mar–Apr.

Wet places in sparse forests or scrub; ca. 1100 m. Hunan, S Yunnan [Indonesia, Malaysia, Papua New Guinea; NE Australia, Pacific islands].

2. *Mapania silhetensis* C. B. Clarke in J. D. Hooker, Fl. Brit. India 6: 681. 1894.

华播鼓蒴 hua lei gu li

Mapania sinensis Uittien.

Rhizomes thick, woody. Culms lateral, 25–54 cm tall, ca. 3 mm thick, with several cataphylls toward base. Leaves basal, distichous; leaf sheath brownish, ca. 12 cm, margin thickly membranous; leaf blade ca. 1.3 m × 2.5–3.5 cm or longer, subleathery, smooth, 3-veined, apical margin and abaxial midvein serrulate, apex caudate-acuminate. Involucral bracts brown, glumelike, ovate to ovate-deltate, 1.5–2.5 cm, shorter than inflorescence, leathery, apex acute. Inflorescences capitate, broadly ovoid, 1.8–2.5(–5) × 1.5–1.8 cm, with 4 spikes fascicled at apex of culm, with many glumelike bracts and pseudospikelets. Glumelike bracts straw-colored, spirally and imbricately arranged, narrowly oblong, ca. 1 cm, papery, apex obtuse. Pseudospikelets with 6 glumes, 3 male flowers, and 1 female flower; basal 2 glumes opposite, cymbiform, membranous, keeled, spinulose on apical part of keel, each subtending 1 male flower; remaining 4 bracts narrowly oblong, outermost one subtending a male flower. Filaments to 1.6 cm; anthers linear, 7–8 mm. Style ca. 6.5 mm; stigmas 3. Nutlet dark brown, obovoid, 4–4.5 mm, obtusely 3-sided, outer surface succulent, apex conically rostrate. Fl. and fr. Oct.

Forests; 600–700 m. Guangdong, Guangxi [Bangladesh, India, Vietnam].

3. *Mapania wallichii* C. B. Clarke in J. D. Hooker, Fl. Brit. India 6: 682. 1894.

单穗播鼓蒴 dan sui lei gu li

Mapania dolichopoda Tang & F. T. Wang.

Rhizomes thick, woody. Culms lateral, 20–70 cm tall, 2–4 mm thick, with several cataphylls toward base. Leaves basal, ± distichous; leaf sheath dark green, open, folded, overlapping each other, 7–12 cm, leathery; leaf blade ca. 1.2 m × 2–3.5 cm or longer, subleathery, margin and abaxial midvein serrulate, apically gradually narrowed into an acutely triquetrous and flagelliform apex. Involucral bracts yellowish green, glumelike, ovate-lanceolate, 1.5–2.5 cm, slightly shorter to nearly as long as inflorescence, leathery, midvein abaxially elevated, margin

brown and thickly membranous. Inflorescence a single terminal spike, ellipsoid to subobovoid, $3\text{--}3.5 \times 1.5\text{--}2$ cm, with many glumelike bracts and pseudospikelets. Glumelike bracts yellowish, spirally and imbricately arranged, ovate-oblong, 1.2–1.5 cm, papery. Pseudospikelets with 6 glumes, 3 male flowers, and 1 female flower; basal 2 glumes opposite, cymbiform, membranous, keeled, spinulose on apical part of keel, each subtending 1 male flower; remaining 4 bracts narrowly oblong, outermost one subtending a male flower. Filaments to 1.5 cm; anthers linear, ca. 8 mm. Style ca. 9 mm; stigmas 3. Nutlet brown, shortly stipitate, subobovoid to ellipsoid, ca. 7.5 mm, obtusely 3-sided, outer surface succulent, apex conically rostrate. Fl. and fr. Oct–Nov.

River margins, dense forests, ditch margins in valleys; ca. 500 m. Fujian, Guangdong, Guangxi, Hainan [Indonesia, Malaysia].

