
姜属 jiang shu

Rhizomes branched, tuberous, aromatic. Pseudostems erect, leafy. Leaves distichous, held in plane parallel to rhizome; petiole swollen, cushionlike; leaf blade oblong, lanceolate, or linear. Inflorescences conical, arising from rhizomes on peduncle clothed with scalelike sheaths, rarely breaking through leaf sheaths without peduncle; bracts closely imbricate, green or other color. 1-flowered, persistent; bracteoles not tubular. Calyx tubular, split on 1 side, apex 3-toothed. Corolla tube slender; central lobe white or cream, usually wider than lateral lobes. Lateral staminodes adnate to labellum, forming a 3-lobed labellum; central lobe retype or cleft at apex. Filament short; connective with elongate appendage wrapped around style. Ovary 3-loculed; ovules numerous per locule; placentation axile. Style slender, extending beyond anther locules; stigma not expanded. Capsule dehiscent loculicidally or irregularly. Seeds black, covered by aril; aril white, margin irregularly lacerate.

Between 100 and 150 species: tropical to warm-temperate Asia; 42 species (34 endemic, one introduced) in China.

Zingiber purpureum Roscoe, which is cultivated in Yunnan (Jinghong Xian) for medicinal purposes, is not described in this account.

1a. Peduncle erect, 10–30 cm, robust, sometimes absent.
2a. Inflorescences breaking through leaf sheaths, peduncle absent; ligule 2-lobed, 1–3 cm
3a. Leaf blade 2–3 cm wide.
4a. Ligule 2–4 mm; inflorescences ovoid, 4–5 cm; bracts ovate, apex mucronate
5a. Ligule 10–20 mm.
6a. Ligule 1–1.2 cm; labellum ca. 3 × 2.5 cm, central lobe ligulelike, lateral lobes inconspicuous, ca. 3 mm
7a. Ligule 6 mm.
8a. Ligule 2-lobed; flowers hairy; central lobe of labellum white with orange base, 2-cleft at apex, lateral lobes 2-cleft at apex
9a. Inflorescences oblong; bracts acute at apex
10a. Rhizomes white inside; leaf blade elliptic-oblong, 4–11 cm wide, glabrous; ovary glabrous
11a. Labellum not lobed or inconspicuously 3-lobed, lateral lobes absent or very small.
12a. Ligule to 0.6 cm.
13a. Ligule to 1 mm; corolla ivory white; labellum elliptic
14a. Pseudostems 30–40 cm; labellum reddish purple, lanceolate
15a. Flowers purple; bracteoles oblong, 2–3 cm; calyx villous, apex 3-toothed
16a. Ligule 1–3 cm.
17a. Ligule entire, 4–5 cm, white pubescent; corolla lobes yellowish; labellum ligulelike
18a. Corolla lobes red; labellum orange, 1.8–2 × 0.9–1 cm
19a. Corolla lobes yellowish white; labellum yellow or white, 2.5–3.5 × 1.6–3.5 cm.
20a. Ligule entire.

11b. Labellum conspicuously 3-lobed.
20a. Ligule entire.
21a. Leaf blade hairy; ligule pale purple, 5–7 cm; corolla lobes red; labellum pale brown with black spots; central lobe ligulelike .......................................................... 20. Z. integrum
21b. Leaf blade glabrous; ligule green-white, 1.3–1.5 cm; corolla lobes white; labellum white, central lobe semi-ovariform .......................................................... 21. Z. orbiculatum
20b. Ligule 2-lobed.
22a. Leaf blade adaxially hairy; petiole absent.
22a. Leaf blade hairy; ligule 0.1–0.5 cm.
22a. Pseudostems 30–60 cm; leaf blade 20–30 × 6–8 cm; labellum deep violet, obovate ................. 22. Z. kawagou
22b. Pseudostems 80–100 cm; leaf blade 28–50 × 10–15 cm; labellum yellow, ligulelike ............ 23. Z. xishuangbannaense
23b. Ligule 0.8–4 cm.
24a. Ligule 3–4 cm; labellum brown with purple-brown spots, central lobe ligulelike ............. 24. Z. fragile
24b. Ligule 0.8–1.1 cm; labellum white with red spots, central lobe broadly obovate .......... 25. Z. recurvatum
25b. Ligule to 2 cm.
26a. Leaf blade adaxially glabrous; petiole usually present.
26a. Ligule (1–)4–8 cm.
26b. Ligule 0.1–0.5 cm.
27a. Corolla tube yellowish; anther connective appendage purple, ca. 7 mm ...................... 26. Z. flavomaculosum
27b. Corolla tube white; anther connective appendage blue, 11–14 mm.
28a. Bracts obovate; bracteoles tubular; corolla tube ca. 2.7 cm; ovary glabrous .................... 27. Z. monglaense
28b. Bracts and bracteoles oblong; corolla tube 4–4.7 cm; ovary densely villous .................. 28. Z. bisectum
28b. Ligule to 2 cm.
29a. Leaf blade abaxially densely black spotted .............................................................. 29. Z. nigricolatum
29b. Leaf blade abaxially not black spotted.
30a. Labellum white, white with purple lines, or yellowish white with purple or red apex.
30b. Labellum white, purple or red.
30a. Leaves aggregated at apex of pseudostems; petiole 2–5 cm ........................................... 30. Z. densissimum
30b. Leaves not aggregated at apex of pseudostems; petiole absent to 1.5 cm.
31a. Labellum white with purple lines or yellowish white with purple or red apex.
31b. Labellum white with purple lines or yellowish white with purple or red apex.
31a. Central lobe of labellum white with purple lines, elliptic, ca. 2.8 cm, apex entire .......... 31. Z. yunnanense
31b. Central lobe of labellum yellowish white, oblanceolate, ca. 2 cm, apex purple or red, 3-toothed .......................................................... 32. Z. cochllyeariforme
32b. Labellum wholly white.
33a. Calyx ca. 2.5 cm, apex subtruncate; central lobe of labellum broadly obovate .......... 33. Z. leptorrhizum
33b. Calyx 1.1–1.4 cm, apex 2- or 3-toothed; central lobe of labellum fan-shaped or obovate.
35a. Leaf blade narrowly lanceolate, 15–27 × 1.8–3.5 cm; bracts purple; central lobe of labellum obovate, ca. 1 cm, lateral lobes ca. 0.3 cm ............................................ 34. Z. lingyunense
35b. Leaf blade obovate, oblanceolate, or oblong, 1.5–35 × 1.2–7.5 cm; bracts green or white; central lobe of labellum fan-shaped, 1.7–2.5 cm, lateral lobes 1–1.5 cm ........... 35. Z. simaoense
38b. Labellum yellow, red, or purple.
36b. Labellum yellow, at least centrally.
37a. Labellum yellowish; corolla lobes linear, 3.5–4 × ca. 0.5 cm ............................................ 36. Z. guangxiense
36b. Labellum yellow at center, white at margin; corolla lobes lanceolate, 2.7–3 × ca. 0.7 cm ....... 37. Z. mioga
38a. Leaf blade 25–40 × 5–11 cm, abaxially appressed villous and glandular spotted .......... 38. Z. longyanjiang
38b. Leaf blade 9–35 × 3–6 cm, abaxially glabrous except for slightly hairy midvein, rarely sparsely villous, not glandular spotted.
39a. Petiole ca. 2 mm, ligule 2–4 mm .................................................................................... 39. Z. teres
39b. Petiole 10–17 mm, ligule 4–7 mm.
40a. Bracts broadly ovate or elliptic, pubescent; corolla lobes 3–3.5 cm ......................... 40. Z. striolatum
40b. Bracts lanceolate or linear-lanceolate, glabrous; corolla lobes 2–2.1 cm.
41a. Petiole 10–17 mm; leaf blade abaxially sparsely villous; corolla tube ca. 2.6 cm ........... 41. Z. gulinense
41b. Petiole 3–6 mm; leaf blade abaxially glabrous; corolla tube ca. 3.8 cm .................. 42. Z. pleistochyum


侧穗姜 ce sui jiang


Rhizomes deep purple-red inside. Pseudostems 60–100 cm. Leaf sheath brown; ligule 2-lobed, 1–3 cm, brown pubescent; petiole 1–9 cm; leaf blade elliptic or elliptic-lanceolate, 40–55 × 14–16 cm, abaxially sparsely hairy, abaxially densely pubescent, base cuneate or attenuate, margin ciliate, apex shortly acuminate. Inflorescences breaking through leaf sheaths 20–50 cm above ground, sessile, elliptoid to oblong, 11–18 × 4–5.5 cm; bracts yellowish white or pale yellowish green, ovaries, 4–5.5 × 3–4.5 cm, pubescent, copiously slimy. Calyx yellowish, 1.5–2 cm, split on 1 side, pubescent. Corolla tube yellowish, 4–4.5 cm; central lobe narrowly obovate, 2–3 cm × 8–10 mm; lateral
lobes lanceolate, 5–7 mm wide. Labellum 2.4–2.8 cm; central lobe purple with 2 parallel, yellow lines and yellow blotches at base, obovate-oblong, 1.5–2 cm × 7–9 mm; lateral lobes yellow with purple blotches, elliptic, 1.2–1.6 cm × 6–8 mm. Filament 5–10 mm; anther yellow, 1.3–1.4 cm; connective appendage purple, 1–1.3 cm. Ovary glabrous. Capsule yellow-green, obovoid, 3-angled, apex with persistent calyx. Seeds 4–6 per valve, brownish black, enclosed by white aril. Fl. Aug. fr. Oct. 2n = 22*.

- Forests; ca. 600 m. SE Yunnan (Magan Xian).


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Rhizomes branched, yellowish inside, thickened, fleshy, strongly aromatic. Pseudostems 50–100 cm. Leaves sessile; ligule slightly 2-lobed, 2–4 mm, membranous; leaf blade lanceolate or linear-lanceolate, 15–30 × 2–2.5 cm, glabrescent. Inflorescences arising from rhizomes, ovoid, 4–5 × ca. 1.5 cm; peduncle to 25 cm; bracts pale green, sometimes yellowish at margin, ovate, ca. 2.5 cm, apex mucronate; bracteoles equaling bracts. Calyx ca. 1 cm. Corolla yellowish green; tube 2–2.5 cm; lobes lanceolate, ca. 1.8 cm. Central lobe of labellum with purple stripe and cream blotches, obovate-oblong, shorter than co-lobes lanceolate, ca. 1.8 cm. Labellum with brown stripe, ca. 2 cm. Anther sessile, ca. 1.5 cm; connective appendage beaklike, ca. 5 mm. Ovary green, sparsely white pubescent. Fl. Aug.

- Moist places in forests; ca. 800 m. S and W Yunnan.


红球姜  hong qiu jiang


Rhizomes yellowish inside, tuberous. Pseudostems 0.6–2 m. Leaves sessile or shortly petiolate; ligule entire, 1.5–2 cm; leaf blade lanceolate or oblong-lanceolate, 15–40 × 3–8 cm, glabrescent or abaxially somewhat pilose, base narrowly, apex acuminate. Inflorescences arising from rhizomes, conical or ovoid-oblong, 6–15 × 3.5–5 cm, apex obtuse; peduncle 10–30 cm, scalelike sheaths 5–7; bracts closely imbricate, green when young, red when old, slightly hairy, slimy abaxially, margin membranous; bracteoles ca. 1.5 cm. Calyx 1.2–2 cm, membranous, split on 1 side, apex 3-toothed. Corolla tube 2–3 cm, slender; lobes pale yellow, lanceolate, central one 1.5–2.5 cm. Labellum pale yellow, ca. 1.5 × 2.5 cm; central lobe suborbicular or suborbiculate, 1.5–2 × ca. 1.5 cm, apex emarginate; lateral lobes obovate, ca. 1 cm, free nearly to base. Stamen ca. 1 cm; connective appendage beaklike, ca. 8 mm. Ovary ca. 4 mm. Capsule ellipsoid, 0.8–1.2 cm. Seeds black. Fl. Jul–Sep. fr. Oct. 2n = 22*.

- Moist places in forests. Guangdong, Guangxi, Taiwan, Yunnan [Cambodia, India, Laos, Malaysia, Myanmar, Sri Lanka, Thailand, Vietnam].

Widely cultivated, medicinal.


勐海姜  meng hai jiang


Pseudostems 1–1.5 m, base with purple sheaths. Leaves sessile; ligule 1–1.2 cm, densely white pubescent, apex truncate; leaf blade narrowly lanceolate, 30–40 × 4.5–6 cm, adaxially glabrous except densely white pubescent at base of midvein, abaxially white pubescent, base cuneate, apex acuminate or caudate. Inflorescences arising from rhizomes, oblong or narrowly ellipsoid, 10–13 × 3–3.5 cm; peduncle erect, 6–13 cm; bracts red, ovate or broadly so, 3.4–5 × 2.5–3.5 cm, densely white pubescent; bracteoles white with red apex, tubular, ca. 3.5 cm. Flowers white. Calyx ca. 1.5 cm, apex truncate. Corolla tube ca. 5 cm, apex slightly yellowish; central lobe narrowly lanceolate, ca. 3 × 1 cm; lateral lobes ca. 7 mm wide. Labellum ovate, ca. 3 × 2.5 cm; central lobe ligulelike, apex emarginate; lateral lobes inconspicuous, ca. 3 mm. Anther sessile, ca. 1.5 cm; connective appendage ca. 5 mm. Ovary green, sparsely white pubescent. Fl. Aug.

- Moist places in forests; ca. 800 m. S and W Yunnan.

Widely cultivated, medicinal.

Pseudostems 1.3–1.8 m, base purplish red. Ligule 2-lobed, ca. 6 mm, margin membranous, white; petiole ca. 3 mm, pubescent; leaf blade narrowly lanceolate, ca. 25 × 3.5–4 cm, glabrous, base cuneate, margin membranous, white, apex caudate. Inflorescences arising from rhizomes, narrowly ellipsoid or oblong, 9–12 × 3–4 cm; peduncle erect, purplish red, 15–20 cm, white pubescent; bracts red when old, purplish red at margin, ovate or broadly so, 3.5–4 × 3–3.5 cm, white pubescent; bracteoles ca. 3 cm, glabrous. Calyx white, ca. 1.5 cm, base white

唇柄姜

Pseudostems 1–1.6 m, base purplish red. Leaf sheath green, with conspicuous, longitudinal stripes; ligule emarginate, ca. 6 mm; petiole ca. 4 mm; leaf blade narrowly lanceolate, 24–30 × 3.5–4.5 cm, glabrous, base rounded or cuneate, apex acuminate or caudate. Inflorescences arising from rhizomes, oblong or narrowly ellipsoid, 12–17 × 4–5 cm; peduncle erect, 11–19 cm; bracts green when young, becoming red, purplish at apex, nearly white at margin, ovate or broadly so, 3.4–4.5 × 2.5–3.5 cm, puberulent; bracteoles tubular, ca. 2.5 cm. Flowers white, glabrous. Calyx ca. 1.5 cm, apex 1-toothed. Corolla tube ca. 3.8 cm; lobes lanceolate, ca. 1.7 × 1 cm, central one wider than lateral ones. Labellum white; central lobe suborbicular, ca. 1.8 cm; lobes lanceolate, ca. 1.7 × 1 cm, apex 2-cleft. Calyx ca. 1.5 cm, apex 1-toothed. Corolla tube ca. 2.7 cm; lobes white, red at basal margin, ca. 1.1 cm × 0.4 mm, apex acute. Anther sessile, ca. 1 cm; connective appendage ca. 5 mm. Ovary pale green, densely white pubescent. Fl. Jul.

• Moist places in forests; ca. 1200 m. W Yunnan (Ruili Xian).

7. Zingiber stipitatum


珊瑚姜

Pseudostems ca. 1 m. Leaves sessile; leaf sheath sparsely hairy or glabrous; ligule 2–4 mm; leaf blade oblong-lanceolate or lanceolate, 20–30 × 4–6 cm, adaxially glabrous, abaxially sparsely hairy or glabrous. Inflorescences arising from rhizomes, oblong, 15–30 cm; peduncle 15–20 cm, scalelike sheaths 4–5 cm; bracts red, ovate, 3–4 cm, apex acute. Calyx 1.5–1.8 cm, split to middle. Corolla tube ca. 2.5 cm; lobes with purple stripe, oblong, ca. 1.5 cm, apex acute, central lobe larger than lateral ones. Central lobe of labellum obovate, ca. 1.5 cm; lateral lobes ca. 8 mm, apex acute. Anther sessile, ca. 1 cm; connective appendage beaklike, curved, ca. 5 mm. Ovary 2–2.5 mm, sericeous. Seeds black, glossy. Fl. May–Aug; fr. Aug–Oct. 2n = 22*.

• Dense forests. Guangdong, Guangxi, Hainan.

Medicinal.


光果姜

Rhizomes white inside, 1.5–2.5 cm in diam. Pseudostems 1.5–2.5 m. Ligule ca. 2 mm, apex emarginate; petiole ca. 5 mm; leaf blade elliptic-oblong, 20–45 × 4–11 cm, glabrous, base narrowed, apex acuminate. Inflorescences arising from rhizomes, fusiform, 7–14 × 2.5–3 cm; peduncle erect, 17–25 cm, scalelike sheaths 1–4.5 cm; bracts obovate, 3.7–5 × 1.5–6 cm, apex obtuse; bracteoles ovate-oblong, 3–3.3 × ca. 1.7 cm, membranous. Flowers white or yellowish. Calyx 2.5–3.2 cm, membranous, slightly 3-toothed. Corolla tube ca. 4.5 cm; lobes lanceolate, ca. 2 cm, central one cucullate, larger than lateral ones. Labellum purple dotted, ca. 2.5 cm; central lobe ovate, ca. 1.5 cm wide, apex 2–4-toothed; lateral lobes ovate, 6–8 mm, apex emarginate. Filament ca. 2 mm; anther 1.3–1.5 cm; connective appendage 1.2–1.4 cm. Ovary glabrous. Fl. Jun. 2n = 22*.

• Forest floors; ca. 300 m. Guangxi.


少斑姜

Rhizomes yellow inside, tuberous. Pseudostems ca. 1.8 m. Leaf sheath subglabrous; ligule 2-lobed, 1–2 mm, papery, margin ciliate; petiole ca. 2 mm, pubescent; leaf blade oblong-oblanceolate, 6–40 × 1.5–5 cm, adaxially glabrous, abaxially pubescent along midvein and at margin, base attenuate, apex acuminate. Inflorescences arising from rhizomes, ellipsoid, rarely subconical, 10–20 × 3–4 cm, many flowered; peduncle erect, 19–32 cm; bracts imbricate, purple with green margin, ovate to broadly ovate, 2.5–3.5 cm, pubescent, apex obtuse; bracteoles pale purple with white margin, broadly elliptic; ca. 2.8 × 2 cm, apex 2-cleft. Calyx ca. 1.7 cm, split on 1 side, apex 3-toothed, ciliate. Corolla tube white, ca. 3.5 cm; lobes yellowish, central one ca. 2.3 × 1.3 cm, lateral ones lanceolate, ca. 1.7 cm × 7 mm. Labellum yellowish; central lobe suborbicular or broadly ovate, 1.6–2 × 2.5 cm, inconspicuously sparsely punctate, margin erose, apex 2-cleft; lateral lobes broadly ovate, ca. 5 × 7 mm, apex entire or 1-toothed. Anther sub sessile, ca. 1.2 cm; connective appendage ca. 1 cm. Ovary densely appressed pubescent. Fl. Jul–Aug.

• S and W Guangxi.


全唇姜

Rhizomes branched, odorless. Pseudostems 40–100 cm. Ligule orbicular, 2-lobed, to 1 mm; petiole absent to 5 mm; leaf blade lanceolate, 15–18 × 3 cm, adaxially glabrous, abaxially pubescent or pilose. Inflorescences arising from rhizomes, ca. 1/2 embedded in ground, 4- or 5-flowered; peduncle 1–2 × as long as inflorescence, scalelike sheaths 2–3 cm; bracts becoming brownish when old, lanceolate, 2–3 cm, glabrous; bracteoles ca. 2 cm, membranous. Calyx ca. 2 cm, split on 1 side, glabrous. Corolla ivory white; tube ca. 2.7 cm; lobes lanceolate, ca. 1.8 cm. Labellum elliptic; lateral lobes reduced to rounded teeth or absent. Anther sessile, ca. 8 mm; connective appendage ca. 7 mm. Fl. Apr.

• Hong Kong.


恒春姜

Rhizomes subcreeping, slender. Pseudostems 30–40 cm.


川东姜 chuan dong jiang

Rhizomes gingerlike, strongly aromatic. Pseudostems 80–110 cm. Leaves sessile; ligule with red lines, obtusely deltoid, 2-lobed, ca. 6 mm; leaf blade glaucous, lanceolate, 15–25 × 3–6 cm, adaxially glabrous, abaxially pilose near base. Inflorescences arising from rhizomes, ovoid, laxly few flowered; peduncle embedded in ground, very short; bracts green or pale purple, ovate-oblong or lanceolate, ca. 5 cm, pilose; bracteoles oblong, ca. 2.3 cm, membranous. Flowers purple. Calyx ca. 3 cm, split on 1 side to middle, villous, apex 3-toothed. Corolla tube 4–5 cm; lobes lanceolate, central one 1.5–1.8 cm wide, lateral ones pale purple, narrower than central one. Labellum with purple stripes, ovate or narrowly so, ca. 3 × 2 cm, apex entire or emarginate; lateral lobes absent. Anther sessile, ca. 1.5 cm; connective appendage ca. 1.5 cm. Ovary villous.


长腺姜 chang she jiang

Rhizomes yellow inside, tuberous; roots with fusiform tubers at tip. Pseudostems ca. 1.3 m. Leaf sheath membranous at margin; ligule 2-lobed, 1–6 mm, membranous; petiole absent to 5 mm, appressed pubescent; leaf blade narrowly elliptic, rarely lanceolate, 8–30 × 1.5–5 cm, adaxially glabrous, abaxially sparsely appressed pubescent, base attenuate, apex acuminate. Inflorescences arising from rhizomes, ovoid or narrowly ellipsoid, 5–6.6 × 2–3.5 cm; bracts purple, narrowly ovate, ca. 4.5 × 1.3(–2) cm, sparsely appressed pubescent abaxially, apex shortly acuminate; bracteoles narrowly ovate, 3.4–4 × ca. 1 cm, apex obtuse. Calyx glabrous, 2.3–2.5 cm, split on 1 side, apex subtruncate, with 3 rounded teeth. Corolla tube 3–4 cm; lobes yellow, central one ovate, ca. 3 × 1.4 cm, lateral ones lanceolate, ca. 2.5 × 8 mm. Labellum yellow with pink spots, broadly ovate, ca. 3.5 × 3 cm, margin slightly undulate, apex retuse; lateral lobes absent. Anther subsessile, ca. 1.4 cm; connective appendage ca. 1.8 cm. Ovary densely appressed pubescent. Style 6–6.7 cm; stigma ciliate. Stylodes needle-shaped, ca. 8 mm. Fl. Jul.


长舌姜 chang she jiang

Pseudostems 80–100 cm, base with purple sheaths. Ligule entire, 4–5 cm, white pubescent; petiole 5–10 mm; leaf blade lanceolate or narrowly lanceolate-elliptic, 40–50 × ca. 10 cm, adaxially glabrous, abaxially white pubescent, base narrowed, apex acuminate. Inflorescences arising from rhizomes, oblong, 4–4.5 × 2–2.4 cm; peduncle 2–6 cm; bracts narrowly lanceolate, 4–4.5 × 8–9 mm, white pubescent, apex acuminate; bracteoles 3.8–4.2 cm. Calyx 2–2.3 cm, membranous, puberulent, apex 3-toothed. Corolla tube yellowish at apex, 3.8–4.2 cm, densely pubescent; lobes yellowish, central one linear-lanceolate, 2.8–3.2 cm × ca. 3 mm, lateral ones ca. 2 mm wide. Labellum yellowish, ligulelike, ca. 3 × 1 cm, apex entire; lateral lobes absent. Anther sessile, white, ca. 1.7 cm; connective appendage orange, ca. 8 mm. Ovary densely brown pubescent. Fl. Aug.


红冠姜 hong guan jiang

Anomum roseum Roxburgh, Pl. Coromandel 2: 15. 1800.

Pseudostems ca. 1.5 m. Leaves sessile; ligule 2-lobed, to 3.5 cm, membranous; leaf blade oblong or oblong-lanceolate, ca. 30 × 3–5 cm, adaxially glabrous, abaxially villous. Inflorescences arising from rhizomes, ellipsoid, ca. 6 cm, very dense; peduncle very short; bracts red, 3.5–4.5 cm, outer ones broadly ovate, inner ones ovate-lanceolate. Calyx green, ca. 1.5 cm. Corolla tube white, ca. 2 cm; lobes pale red, lanceolate. Labellum white, oblong-cuneate, shorter than corolla lobes, margin recurved, crisped; lateral lobes yellow, orbicular, very small. Stamina arching over and equaling labellum; anther equaling connective appendage. Fl. autumn. 2n = 22.

Moist places of forests; ca. 900 m. SW Yunnan [India, Myanmar, Thailand].


盈江姜 ying jiang jiang

Pseudostems 1–1.2 m, base with red sheaths. Leaf sheath longitudinally striate, white pubescent; ligule 2-lobed, 1.5–2.4 cm, hairy; petiole reddish adaxially, ca. 5 mm; leaf blade elliptic or lanceolate-elliptic, 25–45 × 9–11 cm, abaxially pubescent, midvein elevated adaxially when dry, base attenuate, apex acuminate or shortly so. Inflorescences arising from rhizomes, oblong, 5–6 × 2.4–3 cm; peduncle 2–6 cm; outer bracts ovate or oblong, 3.5–5.5 × 2–2.5 cm, inner bracts narrowly lanceolate, 4–4.5 × 0.7–1 cm, pubescent; bracteoles red at margin, narrowly triangular, equaling bracts. Calyx 1.6–2 cm, pubescent, apex minutely 2-toothed. Corolla tube 3–3.3 cm, densely pubescent; lobes red, lanceolate, 2.2–2.5 cm × 4–6 mm, glabrous. Labellum orange, oblong, 1.8–2 × 0.9–1 cm, apex entire; lateral lobes absent. Filament very short; anther white, ca. 1.6 cm; connective appendage orange, ca. 9 mm. Ovary densely brown pubescent. Fl. Aug.


红冠姜 var. thailandicum


Pseudostems 1–1.2 m, base with red sheaths. Leaf sheath longitudinally striate, white pubescent; ligule 2-lobed, 1.5–2.4 cm, hairy; petiole reddish adaxially, ca. 5 mm; leaf blade elliptic or lanceolate-elliptic, 25–45 × 9–11 cm, abaxially pubescent, midvein elevated adaxially when dry, base attenuate, apex acuminate or shortly so. Inflorescences arising from rhizomes, oblong, 5–6 × 2.4–3 cm; peduncle 2–6 cm; outer bracts ovate or oblong, 3.5–5.5 × 2–2.5 cm, inner bracts narrowly lanceolate, 4–4.5 × 0.7–1 cm, pubescent; bracteoles red at margin, narrowly triangular, equaling bracts. Calyx 1.6–2 cm, pubescent, apex minutely 2-toothed. Corolla tube 3–3.3 cm, densely pubescent; lobes red, lanceolate, 2.2–2.5 cm × 4–6 mm, glabrous. Labellum orange, oblong, 1.8–2 × 0.9–1 cm, apex entire; lateral lobes absent. Filament very short; anther white, ca. 1.6 cm; connective appendage orange, ca. 9 mm. Ovary densely brown pubescent. Fl. Aug.

• Forests; ca. 1000 m. W Yunnan (Yingjiang Xian).

团聚姜 tuan ju jiang

Rhizomes irregularly branched, yellowish white inside. Pseudostems 0.8–1.5 m. Ligule 2-lobed, 1–2.8 cm; petiole 0.5–1.5 cm; leaf blade lanceolate, rarely elliptic, ca. 15 × 3.5–8.5 cm, adaxially glabrous, abaxially appressed villous, base cuneate, apex caudate-acuminate. Inflorescences arising from rhizomes, subellipsoid, 5–7 × 2–3 cm, 12–20-flowered; peduncle 2–6(–16) cm, villous; bracts purple-brown or purplish red, broadly ovate or lanceolate, 3.5–5.5 × 1–5 cm, sparsely appressed villous, apex acuminate, outer ones subdistichous; bracteoles equaling bracts, villous. Calyx, white, ca. 2.8 cm, membranous, split on 1 side. Corolla yellowish white; tube 3.5–4 cm, throat sparsely pubescent; lobes red at apex, lanceolate, central one ca. 3.5 × 1.7 cm, lateral ones 2.5–3.5 cm, margin entire or crisped. Lateral lobes of labellum toothlike or absent. Filament ca. 3.5 mm; anther ca. 1.5 cm; connective appendage 1.8–2.2 cm. Ovary densely villous.

- Forests; ca. 900 m. C Sichuan (Emei Shan).
- Used as a vegetable.


暖町姜 wan ding jiang

Pseudostems 1.3–1.6 m × 1.3–2.2 cm, base with purplish red sheaths. Leaf sheath conspicuously longitudinally striate; ligule 2-lobed, 1.2–1.5 cm; leaf blade lanceolate–elliptic, 30–40 × 6–7.5 cm, adaxially glabrous, abaxially sparsely hairy, midvein basally purplish red and enlarged, base cuneate or attenuate, apex acuminate. Inflorescences arising from rhizomes, ellipsoid, 6–9 × 2.5–3.5 cm; peduncle 3–7 cm, scalelike sheaths deep red; bracts white with pale red base and apex, oblong to narrowly lanceolate, 3.4–4 × 0.8–2.1 cm; bracteoles 3–3.5 cm. Calyx white, 1.8–2 cm, apex entire. Corolla tube white, 3.5–4 cm; lobes yellowish, central one narrowly lanceolate, 2–2.2 cm × 6–8 mm, lateral ones narrower. Labellum white with yellowish margin, narrowly elliptic, 2.8–3 × 1.6–1.8 cm, apex entire; lateral lobes absent. Anther sessile, yellow, ca. 1.4 cm; connective appendage orange, ca. 8 mm. Ovary densely white pubescent. Fl. Jul.

- Forests; ca. 1000 m. W Yunnan (Wanding Zhen).


全舌姜 quan she jiang

Pseudostems 1.5–2 m. Leaves sessile; ligule pale purple, entire, 5–7 cm; leaf blade lanceolate or oblong-lanceolate, 40–70 × 8–9.5 cm, adaxially sparsely hairy along sides of midvein, abaxially sparsely hairy except densely pubescent along sides of midvein, midvein basally enlarged and densely red dotted at sides, base subrounded or cuneate, apex acuminate. Inflorescences arising from rhizomes, ovoid or capitate, 5–7 × 4–4.5 cm; peduncle 2–4 cm; bracts ovate or broadly oblong, 4.4–5 × 2–2.3 cm, inner ones attenuate-deltoid, 3.4–4 cm × 4–5 mm, apex acute; bracteoles red, 3.4–4 cm. Calyx white, 2.5–3 cm, 3-angled, apex 3-toothed. Corolla tube white with red apex, 4–4.3 cm; lobes red, lanceolate, central one 2.5–3 × 1.5–3 cm, lateral ones narrower. Labellum pale brown, black dotted; central lobe ligulate, 2.8–3.2 × 0.9–1.1 cm; lateral lobes 1.6–1.9 × 1.1–1.3 cm. Anther sessile, white, ca. 1.3 cm; connective appendage ca. 1.4 cm. Ovary pale brown pubescent. Fl. Jul.

- Gullies; ca. 900 m. SW Yunnan (Jinghong Xian) [Thailand].


圆瓣姜 yuan ban jiang

Pseudostems 1.4–3.2 m. Ligule greenish white, 1.3–1.5 cm, glabrous, abaxially rugose; leaf blade narrowly lanceolate, 45–60 × 7–9 cm, glabrous, midvein basally enlarged and densely red dotted at sides, base cuneate, apex acuminate. Inflorescences arising from rhizomes, ovoid or capitate, 5–8 × 3.5–5 cm; peduncle 2–5 cm; bracts ovate or broadly so, 3.4–8 × 2.8–3.6 cm, apex acute or shortly acuminate; bracteoles pale proximally, red distally, tubular, 3.4–4.1 cm, white pubescent. Calyx 1.8–2.2 cm, puberulent except densely pubescent at base, apex 3-toothed. Corolla tube 3.4–3.6 cm; lobes white with red apex, lanceolate, 2.7–3 cm, pubescent. Labellum white, orbicular, 2.2–2.4 × 2–2.2 cm; central lobe semiorbicular, margin crisped, apex emarginate; lateral lobes auriculate, ca. 1.4 cm × 5 mm. Filament ca. 2 mm; anther yellow, ca. 1.2 cm; connective appendage ca. 1.2 cm. Ovary pale proximally, yellow distally, subellipsoid, densely pubescent. Capsule dark red with pale brown base, oblong, 4–5 × 2–2.5 cm, 3-angled. Seeds black, obovoid, ca. 6 × 5 mm. Fl. Jul.

- Forests; ca. 600 m. S Yunnan (Mengla Xian).


毛姜 mao jiang

Rhizomes creeping, ca. 1 cm in diam., subterete, slender. Pseudostems 30–60 cm. Ligule auriculate, 2-lobed; petiole very short; leaf blade oblong or oblong-lanceolate, 20–30 × 6–8 cm, sparsely pubescent on both surfaces, base obtuse, apex acute, apex acuminate. Inflorescences arising from rhizomes, 4–5 cm, many flowered; peduncle 4–5 cm; bracts lanceolate, ca. 2 cm, base sheathlike. Calyx ca. 1 cm, split on 1 side, base hirsute, apex truncate. Corolla tube slender, 2–3 cm; lobes purple, ca. 2 cm, central one ca. 9 mm wide, wider than lateral ones, concave. Labellum obovate, ca. 2.2 × 2 cm; central lobe deep violet, obovate-oblong, 1.5–1.2 cm, apex emarginate; lateral lobes yellowish at base, violet at margin and apex, smaller than central lobe. Anther linear, subcylindric, ca. 1 cm; connective appendage linear, curved, ca. 1 cm. Ovary glabrous. Capsule enclosed by persistent bracts and bracteoles, loculicidally dehiscent; pericarp fleshy, red inside. Seeds black, aril cushionlike.

- Taiwan.


西医瓤 xishuang banna jiang

Rhizomes arising from rhizomes, ovoid or capitate, 5–7 × 4–4.5 cm; peduncle 2–4 cm; bracts ovate or broadly oblong, 4.4–5 × 2–2.3 cm, inner ones attenuate-deltoid, 3.4–4 cm × 4–5 mm, apex acute; bracteoles red, 3.4–4 cm. Calyx white, 2.5–3 cm, 3-angled, apex 3-toothed. Corolla tube white with red apex, 4–4.3 cm; lobes red, lanceolate, central one 2.5–3 × 1.5–3 cm, lateral ones narrower. Labellum pale brown, black dotted; central lobe ligulate, 2.8–3.2 × 0.9–1.1 cm; lateral lobes 1.6–1.9 × 1.1–1.3 cm. Anther sessile, white, ca. 1.3 cm; connective appendage ca. 1.4 cm. Ovary pale brown pubescent. Fl. Jul.

腺舌姜 cui she jiang

Pseudostems 0.8–3 m. Leaves sessile; ligule red spotted at base, 2-lobed, 3–4 cm, membranous, fragile; leaf blade lanceolate or narrowly so, 40–50 × 9–11 cm, slightly puberulent except densely pubescent along sides of midvein, base cuneate, apex acuminate. Inflorescences arising from rhizomes, ovoid, or capititate, 4–8 × 3–7.5 cm; peduncle very short, 3–5 × 2.8–3.8 cm, brown pubescent, apex convex, acute, inner bracts triangular, 3.8–4 × 1.1–1.3 cm, apex attenuate; bracteoles pale red, 2.8–3 cm, white puberulent. Calyx 1.9–2.2 cm, apex 3-toothed, bearded. Corolla tube 3.1–4.2 cm, white pubescent; lobes red, lanceolate, 2.3–3.2 cm × 8–9 mm, lateral ones narrower. Labellum brown with purplish brown spots; central lobe liguliform, 3.5–4.5 × 2–2.5 cm, 3-angled. Seeds oblong, ca. 5 mm. Fl. Jul.

• Forests; ca. 600 m. S Yunnan (Xishuangbanna Dai Zu Zizhi-zhou).


弯管姜 wan guan jiang

Pseudostems 2–3 m × 2–3.5 cm, robust. Leaves sessile; ligule 2-lobed, 8–11 mm, densely pale brown pubescent; leaf blade abaxially purplish red, elliptic-lanceolate or narrowly so, 45–55 × 11–15 cm, adaxially hairy along sides of midvein, abaxially puberulent except densely pubescent along sides of midvein, base rounded, apex acuminate or caudate. Inflorescences arising from rhizomes, red, ovoid or capititate, 7–9 × 6–7 cm; peduncle embedded in ground, 3–5(–15) cm; outer bracts ovate-orbicular or broadly ovate, 3.4–5 × 2.6–4 cm, inner bracts elliptic or narrowly so, 5–5.6 × 1.6–2 cm, apex acuminate or shortly so; bracteoles red, ca. 4.5 cm. Calyx ca. 1.9 cm, apex 2-subulate, slightly red dotted. Corolla red with pale base; tube recurved, 4.6–5 cm, 4-angled, slightly white hairy; lobes lanceolate, 3–3.2 × 0.8–1.2 cm. Labellum white with red spots; central lobe broadly obovate, apex convex; lateral lobes auriculate. Filament ca. 1 mm; anther ca. 1.5 cm; connective appendage ca. 1.7 cm. Ovary yellowish, densely and softly white hairy. Capsule purple, ovoid, 4.5–5 × 2.2–2.6 cm, 3-angled, apex with persistent calyx. Seeds black. Fl. Jul.

• Moist places in forests; ca. 700 m. S Yunnan (Mengla Xian).


黄斑姜 huang ban jiang

Pseudostems 1–1.5 m. Ligule 2-lobed, 4–5 cm; petiole present on proximal leaves; leaf blade narrowly lanceolate or narrowly elliptic, 40–55 × 9–11 cm, abaxially white pubescent, base cuneate or broadly so, apex shortly acuminate. Inflorescences arising from rhizomes, capitate, ca. 6 × 4 cm; peduncle 2–5 cm, scalelike sheaths red; bracts pale red, ovate-orbicular or oblong, 3–3.2 × 1.7–2 cm, pubescent; bracteoles ca. 2.8 cm, white pubescent. Calyx ca. 1.6 cm, puberulent. Corolla tube yellowish, ca. 3.5 cm; central lobe lanceolate, ca. 2.2 × 1 cm; lateral lobes narrower. Labellum lobes gray with yellow-spotted apex, central one nearly liguliform, ca. 2.5 × 1 cm, apex entire, lateral ones auriculate, ca. 1.5 × 8 mm. Anther sessile, ca. 1.3 cm; connective appendage purple, ca. 7 mm. Ovary pale green, densely brown pilose. Fl. Aug.

• Forests; ca. 600 m. S Yunnan (Xishuangbanna Dai Zu Zizhi-zhou).


斑蝉姜 ban chan jiang

Pseudostems 1.6–2 m. Leaf sheath green; ligule 2-lobed to middle, 4.5–8 cm, membranous; petiole absent to 2 cm; leaf blade elliptic or oblong-elliptic, 30–70 × 6–15 cm. Inflorescences arising from rhizomes, ca. 1/2 embedded in ground, globose or ellipsoid, 3.5–4.3 cm in diam.; bracts red, white at base and margin, obovate, 3–4 × 1.3–1.5 cm, abaxially pilose, apex tomentose; bracteoles white or red, tubular, 2.7–3 × ca. 1.3 cm, abaxially pubescent. Calyx white, 1.5–2 cm, split on 1 side, pubescent, apex 3-toothed. Corolla tube white, ca. 2.7 cm, pubescent; lateral lobes ca. 2.4 cm × 5 mm. Labellum purplish brown with dense, yellow spots and yellow base; central lobe linear-oblong, 1.7–2.4 cm × 7–8 mm, apex entire or emarginate; lateral lobes ca. 1.4 cm. Anther subsessile, orange, 1.3–1.5 cm; connective appendage pale blue, 1.1–1.4 cm. Fl. Jun–Jul. 2n = 22*.

• Forests; ca. 800 m. S Yunnan (Mengla Xian).


裂舌姜 lie she jiang

Rhizomes yellowish inside, tuberous; roots tuberous at tip. Pseudostems to 3.4 m. Leaf sheath villous; ligule 2-cleft, 1–6 cm, subserialous; petiole absent to 5 mm, villous abaxially; leaf blade suboblong or oblong-ob lanceolate, ca. 8.5 × 4.5–10 cm,
adaxially densely brown dotted along midvein, abaxially sparsely villous, base attenuate, apex acuminate. Inflorescences arising from rhizomes, ovoid or suboblong, 7–10 × 2.5–7 cm, many flowered; peduncle 2–12.5 cm, villous; bracts red or green, oblong, 4–4.5 × ca. 1.1 cm, villous; bracteoles oblong, 3.5–4 cm × ca. 7 mm, villous. Calyx ca. 2 cm, split on 1 side, villous, apex 3-toothed. Corolla tube white, 4–4.7 cm; lobes yellowish, central one ca. 2.5 cm × 8–9 mm, lateral ones lanceolate, ca. 2.3 cm × 5 mm. Labellum black-purple spotted; central lobe obovate, ca. 2 × 1.3 cm, apex 3-toothed; lateral lobes ca. 10 × 7 mm. Anther subsessile, ca. 1.5 cm; connective appendage ca. 1.2 cm. Ovary densely villous. Fl. Aug.

- Hill slopes; ca. 300 m. S Guangxi (Yongning Xian).


- Mixed forests; ca. 1400 m. SW Yunnan (Menghai Xian).


Calyx ca. 2.5 cm, apex subtruncate. Corolla tube 3–3.7 cm; lobes lanceolate, hoodlike, 2.6–3 cm × ca. 7 mm. Labellum white, ca. 3 cm; central lobe broadly ovate, ca. 2 cm, apex emarginate or rounded; lateral lobes deltoid, 4–8 mm, apex acute. Filament very short; anther ca. 1.5 cm; connective appendage ca. 1.5 cm. Ovary densely villous. Capsule red. Fl. Aug–Sep. fr. Oct–Nov.

- Forest floors. E Guangxi.


思茅姜 三叶姜

Rhzomizes white outside, violet inside, fleshy, tuberous, slightly sweet tasting. Pseudostems 0.5–1.7 m. Ligule 2-lobed, 1–5 mm; petiole 1–5 mm; leaf blade narrowly lanceolate, 15–27 × 1.8–3.5 cm, adaxially glabrous, abaxially pilose, base rounded-cuneate, apex acuminated. Inflorescences arising from rhizomes, ovoid to ovoid-oblong. 3–5.5 × 1–3 cm; peduncle to 24 cm, slender, clothed with purple, oblong or oblong-lanceolate, scalelike sheaths 1–4.5 cm; bracts purple, oblong or oblong-lanceolate, 2.5–4 × 0.6–1.4 cm, abaxially hairy. Flowers white. Calyx 1.1–1.4 cm, base hairy, apex 2- or 3-toothed. Corolla tube ca. 2.5 cm; lobes lanceolate, 1.5–2 cm × ca. 5 mm. Labellum white, ca. 2 cm; central lobe obovate, 1 × 1.2 cm, apex emarginate or rounded; lateral lobes small, ca. 3 mm. Anther ca. 1 cm; connective appendage ca. 1 cm. Ovary villous. Fl. Aug–Sep. fr. Oct–Nov.

- Among rocks in forests. NW Guangxi (Lingyun Xian).


思茅姜 三叶姜

Rhzomizes fleshy; roots ending in tubercles. Pseudostems 30–65 cm. Ligule 2-lobed, 1–8 mm, densely villous; petiole 0.3–1.5 (–4.5) cm, gray-brown villous; leaf blade obovate, oblanceolate, or oblong, 1.5–35 × 1.2–7.5 cm, abaxially villous, adaxially glabrous, base cuneate, apex acuminated. Inflorescences arising from rhizomes, green or red, obovoid, 4–7 × 1.5–4 cm; peduncle white, 3–10 cm, villous, scalelike sheaths white, 0.8–3.5 cm, sparsely villous; bracts greenish or white with pinkish apex, obovate or elliptic, 3–5 × 1.3–2.6 cm, villous. Flowers white. Calyx 1–1.5 cm, villous. Corolla tube 4–5 cm; lobes narrowly ovate or lanceolate, 2.4–3 × 0.7–1.1 cm. Labellum fan-shaped, glabrous; central lobe orbicular, 1.7–2.5 × 2.2–3 cm, apex truncate or rounded; lateral lobes oblong, 1–1.5 cm. Anther 1.1–1.2 cm; connective appendage 1.2–1.3 cm. Ovary villous. Capsule red, ovoid, 2–3.5 cm. Seeds black, rarely red. Fl. Sep.

- Forests; 1200–1600 m. S Yunnan (Simao Xian).


桂姜 桂姜

Rhzomizes tuberous, ca. 1.3 cm in diam. Pseudostems 0.5–1.5 m. Ligule 2–6 mm, puberulent, apex emarginate; petiole 1–4 mm; leaf blade lanceolate or oblong-lanceolate, 25–35 × 5–9 cm, densely purple-brown glandular spotted, abaxially appressed villous, base rounded-cuneate to cuneate, apex acuminated. Inflorescences arising from rhizomes, obovoid, 4–8 × 2–4 cm, more than 20-flowered; peduncle 2.5–20 cm, slender; bracts red or purple, rarely green, oblong-lanceolate, 4–5 × 1–1.5 cm, abaxially pilose. Calyx 0.9–1.8 cm, hairy. Corolla tube ca. 4.5 cm, glabrous; lobes linear, 3.5–4 cm × ca. 5 mm, pilose. Labellum yellowish, ca. 3 cm; central lobe oblong, 2 cm × 7 mm, apex 2-crenate, rarely entire; lateral lobes suboblong, ca. 10 × 5 mm. Anther ca. 1.4 cm; connective appendage red, ca. 1.8 cm. Ovary ca. 5 mm, densely pilose. Capsule ovoid, 3–4 × 1–1.5 cm, obtusely 3-angled, hairy. Seeds red; aril white. Fl. Sep–Oct. fr. Oct–Nov.

- Forest floors. E Guangxi.

The spelling of the specific epithet follows the protologue; in FRPS it was given as “Zingiber kwangsiense.”


荷 荷


Rhzomizes yellowish. Ligule 2-lobed, 3–12 mm, membranous; petiole absent to 1.7 cm; leaf blade lanceolate-elliptic or linear-lanceolate, 20–37 × 4–6 cm, glabrous or abaxially pilose, apex caudate. Inflorescences arising from rhizomes, ellipsoid, 5–7 cm; peduncle absent to 17 cm, scalelike sheaths oblong; bracts reddish green with purple veins, elliptic. Calyx 2.5–3 cm. Corolla tube longer than calyx; lobes yellowish, lanceolate, 2.7–3 cm × ca. 7 mm. Labellum ovate, ca. 3 cm; central lobe yellow with white margin, ca. 2.5 × 1.8 cm; lateral lobes ca. 1.3 × 4 mm. Anther ca. 1 cm; connective appendage ca. 1 cm. Capsule obovoid, loculicidally dehiscent; pericarp red inside. Seeds black; aril white. Fl. Aug–Oct. 2n = 22.

Moist places in mountain valleys; rarely cultivated. Anhui, Guangdong, Guangxi, Hunan, Jiangsu, Jiangxi, Yunnan, Zhejiang [Japan].

Medicinal and a vegetable.


龙眼姜 三叶姜

Rhzomizes yellowish white inside, tuberous. Pseudostems 1–1.8 m, base purplish brown. Ligule 2-lobed, 4–11 mm; petiole purple or yellowish green, 4–10 mm, white villous; leaf blade oblong or oblong-lanceolate, 25–40 × 5–11 cm, adaxially subglabrous, abaxially appressed villous and glandular spotted, base broadly cuneate, apex acuminated. Inflorescences arising from rhizomes, obovoid or narrowly ovoid, 3–5 × 2–4 cm; peduncle 1–3 cm; bracts greenish white or yellowish white, ovate or oblong, 2.5–3 × 2–3 cm, apex rounded, inner bracts oblongate or lanceolate, 2.5–3.8 × 0.8–1.5 cm, abaxially slightly villous, apex emarginate or acute. Calyx white, 8–10 mm, white villous, apex truncate or undulate. Corolla tube yellowish white, 3–4.2 cm, white villous; central lobe lanceolate,
2.5–2.9 cm × 6–9 mm; lateral lobes narrower than central one, apex 2-cleft. Labellum pale purple with yellowish white base, ca. 2.5 cm, throat glabrous; central lobe ligulelike or narrowly oblanceolate, 1.3–1.6 cm; lateral lobes oblanceolate, 6–8 × 3–5 mm, apex 2-cleft. Anther yellowish white, ca. 1.1 cm; connective appendage purple at apex, ca. 1.5 cm. Ovary densely villous. Capsule purple, oblong, 3–4 × 1.5–2 cm, obtusely 3-angled, slightly villous. Seeds purplish brown, ellipsoid or ovoid. Fl. Aug–Sep, fr. Oct–Nov.

Medicinal.


**柱根姜**

Rhizomes cylindric, aromatic. Pseudostems 60–100 cm × 6–10 mm, base with green sheaths. Ligule 2-lobed, 2–4 mm, pubescent, lobes rounded at apex; petiole ca. 2 mm; leaf blade narrowly lanceolate, 18–25 × 3–4 cm, glabrous except sparsely puberulent along midvein abaxially, base cuneate, apex acuminate or caudate. Inflorescences arising from rhizomes, ellipsoid or narrowly so, 4.5–5 × 2–3 cm; peduncle embedded in ground, 6–12 cm, slender; bracts elliptic or narrowly so, 3–4 × 1–2 cm, glabrous except red pubescent at acute or acuminate apex; bracteoles red with white base, tubular, 2.5–2.8 cm. Calyx 1.4–1.6 cm, apex obscurely 3-toothed. Corolla tube yellow, 4–5 cm; central lobe lanceolate, 2.6–3 × 0.9–1 cm; lateral lobes 2–2.2 cm × 5–7 mm. Labellum yellow at base; lobes purple with yellow stripes, central one obovate, 1.8–2 × 1.1–1.3 cm, apex acuminate, lateral ones auriculate, small. Anther sessile, ca. 1.1 cm; connective appendage yellow proximally, purple distally, ca. 1 cm. Ovary densely white pubescent. Capsule (immature) white with purple or white apex, obovate, ca. 5 × 1.8 cm, 3-angled. Seeds subobovoid, ca. 5 mm; aril white. Fl. Oct.

Forests; ca. 1200 m. SW Yunnan (Menglian Dai-Lahu-Va Zu Zhixian) [N Thailand].


**阳荷**


Rhizomes white, slightly fragrant. Pseudostems 1–1.5 m. Ligule brown striped, 2-lobed, 4–7 mm, membranous; petiole 0.8–1.2 cm; leaf blade lanceolate or elliptic-lanceolate, 25–35 × 3–6 cm, abaxially glabrous or sparsely villous, base attenuate, apex acuminate. Inflorescences arising from rhizomes, subovoid; peduncle 1.5–2 cm or longer, scalelike sheaths 2 or 3; bracts red, broadly ovate or elliptic, 3.5–5 cm. Calyx ca. 5 cm, membranous. Corolla tube white, 4–6 cm; lobes white or yellowish with purplish brown stripes, obovate-lanceolate, 3–3.5 cm. Labellum pale purple, obovate, ca. 3 × 2.6 cm; lateral lobes ca. 5 mm. Filament very short; anther lanceolate, ca. 1.5 cm; connective appendage ca. 1.5 cm. Capsule ca. 3.5 cm, loculicidally dehiscent; pericarp red inside. Seeds black; aril white. Fl. Jul–Oct, fr. Sep–Dec. 2n = 22*.  

Forest floors, streamsides; 300–1900 m. Guangdong, Guangxi, Guizhou, Hainan, Hubei, Hunan, Jiangxi, Sichuan.