52. CYRTOSIA Blume, Bijdr. 396. 1825.

肉果兰属 rou guo lan shu

Chen Xinqi (陈心启 Chen Sing-chi); Phillip J. Cribb

Herbs, mycotrophic. Rhizome stout, with fleshy or sometimes tuberlike roots. Stems erect, often several arising from 1 rhizome, simple or branched, yellowish brown to reddish brown, fleshy, with scales at nodes. Raceme or panicle terminal or lateral, several or many flowered; rachis shortly hairy or mealy-hairy; floral bracts persistent. Flowers not fully opening, medium-sized. Sepals and petals connivent; petals often slightly hairy abaxially. Petals glabrous; lip erect, unlobed, spursless, base connate to column, ± embracing column. Column slightly curved, stout, upper part enlarged, without a foot; anther terminal, incumbent, 2-locular; pollinia 2, granular-farinaceous, without caudicle or viscidium. Fruit fleshy, indehiscent. Seeds with stout testa, wingless or with a narrow surrounding wing.

Five species: tropical Asia to E Asia; three species in China.

1. Cyrtosia javanica Blume, Bijdr. 396. 1825.

肉果兰 rou guo lan

Galeola javanica (Blume) Bentham & J. D. Hooker.

Plants small, ca. 10 cm tall. Tuberlike roots tufted, cylindric or clavate, 5–8 cm, stout, 8–12 mm in diam., thick, fleshy. Stems 1–3 arising from 1 rhizome, erect, 6–8 cm tall, with imbricate scales at nodes; scales alternate, yellowish brown, turning dark brown with age, elliptic-ovate, cymbiform or with bricate scales at nodes; scales alternate, yellowish brown, at apex. Fruit sausage-shaped, ca. 5 cm, indehiscent. Fl. May–Jul, fr. Sep. 2

2. Cyrtosia nana (Blume) Bentham & J. D. Hooker.

矮小肉果兰 ai xiao rou guo lan


Plants small, ± fleshy. Rhizome stout, erect, 6–8 cm tall, with sparse ovate scales. Stems erect, red-brown, 30–170 cm, apical half shortly rusty tomentose. Inflorescence terminal and lateral; raceme 3–7(–10) cm, 4–9-flowered, base with a few ovate-lanceolate sterile bracts 1.5–2.5 cm; floral bracts ovate, 2–3 mm, abaxially with rusty hairs; pedicel and ovary 1.5–2 cm, shortly rusty tomentose. Flowers yellow, ± tinged with red-brown. Sepals elliptic-ovate, ca. 2 cm, abaxially shortly rusty tomentose. Petals similar to sepals, slightly narrower, glabrous; lip ± embracing column, broadly ovate, ca. 1 × 1.2 cm, margin somewhat undulate, disk with a thick longitudinal ridge centrally, adaxially white pilose near apex. Column ca. 6 mm, apex slightly dilated, without conspicuous wing. Fl. Apr–Jun. 2n = 28.

Forests or shaded places along valleys; 500–1400 m. S Guangxi, SW Guizhou [Thailand, N Vietnam].


血红肉果兰 xue hong rou guo lan

Galeola septentrionalis H. G. Reichenbach, Xenia Orchid. 2: 78. 1865.

Plants rather large. Rhizome nearly creeping, stout, 1–2 cm in diam., with sparse ovate scales. Stems erect, red-brown, 30–170 cm, apical half shortly rusty tomentose. Inflorescence terminal and lateral; raceme 3–7(–10) cm, 4–9-flowered, base with a few ovate-lanceolate sterile bracts 1.5–2.5 cm; floral bracts ovate, 2–3 mm, abaxially with rusty hairs; pedicel and ovary 1.5–2 cm, shortly rusty tomentose. Flowers yellow, ± tinged with red-brown. Sepals elliptic-ovate, ca. 2 cm, abaxially shortly rusty tomentose. Petals similar to sepals, slightly narrower, glabrous; lip narrowly ovate, shorter than sepals, adaxially hairy-papillose or occasionally crestless-lamellate along main veins, margin irregularly dentate or erose. Column ca. 7 mm. Fruit blood-red, suboblong, 7–13 × 1.5–2.5 cm, fleshy. Seeds with surrounding wing; wing less than 1 mm wide. Fl. May–Jul, fr. Sep. 2n = 28.

Forests; 1000–1300 m. SW Anhui, W Henan, Hunan, Zhejiang [Japan (Ryukyu Islands)].
