

# Australian Tropical Rainforest Plants - Online edition

## *Coelospermum paniculatum* var. *syncarpum* J.T.Johanss.

### Family:

Rubiaceae

Johansson, J.T. (1988) *Blumea* 33(2): 285, Figs 6, 12c. Type: Hyland 5700, Australia, Queensland, Debutilla between Kuranda and Robson Creeks, 680 m, 23 Nov. 1971 (BRI, holo; K, L).

### Stem

Vine stem diameters to 10 cm recorded. Living bark layer quite thick. Numerous hard, brown or orange-brown granular fibres or lines visible in the blaze.

### Leaves

Stipules about 2-3 mm long overall, fused at the base, sheathing the twigs. Leaf blade about 7-17 x 2.5-8 cm, petioles about 1.2-2.5 cm long. Domatia are crater-like foveoles, often, but not always with a small orifice.

### Flowers

Inflorescence a panicle; partial inflorescence components a capitula of several flowers with connate ovaries; inflorescence branches and pedicels sparsely hairy to nearly glabrous. Flowers about 11-14 mm diam. Pedicel often lacking (flower sessile). Hypanthium about 3 mm long. Calyx tube cupular, about 1.5 mm long, calyx lobes absent. Corolla tube about 3-7 mm long, densely clothed with hairs on the inner surface. Corolla lobes about 5-7.5 mm long. Staminal filaments about 2-4 mm long, attached to the upper half of the corolla tube. Anthers about 3-4.7 mm long. Pollen orange. Style about 2.2-7.5 mm long, apex bifid.

### Fruit

Fruits a drupe or a syncarp, variable in size and shape, globular to variously lobed, usually more than 10 mm long and up to 13-18 mm diam. Surface of the fruits usually marked by one or more circular scars from the original individual flowers. Pyrenes +/- kidney-shaped, quite hard and difficult to cut, each pyrene about 7 mm long. Seeds about 5-6 x 3 mm, one per pyrene. Embryo about 2-4 mm long. Radicle about as long as the cotyledons but not as wide. Radicle broadest towards the base.

### Seedlings

Cotyledons ovate, about 17-24 x 8-12 mm. At the tenth leaf stage: leaf blade about 15 x 4 cm. A few small foveoles with a narrow slit-like orifice visible on the underside. 'Oil dots' elongated. Stipules forming a sheath around the stem and abruptly narrowed to a point at the apex. Seed germination time 105 days.

### Distribution and Ecology

Endemic to Australia, occurs in NEQ, restricted to the Atherton Tablelands area and surrounding mountains. Altitudinal range in NEQ from 400 to 900 m. Grows in upland rain forest.

### RFK Code

2704



Fruit, several views and seed. © W.T. Cooper



Cotyledon stage, epigeal germination. © CSIRO



10th leaf stage. © CSIRO

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