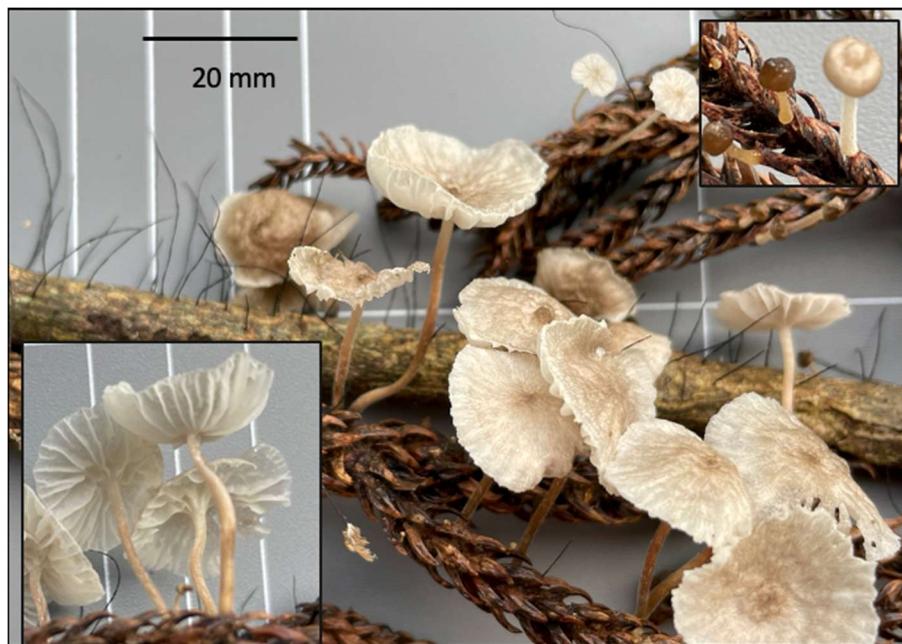


## *Marasmiellus* sp 'hoop pine'



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**Cap:** 8–15 mm diam., greyish-buff, off-white, with brown-beige flattened to slightly depressed central disc, broadly convex to applanate, rugulose, margin crenulate; juvenile smooth brown with central umbo, incurved margin (see upper inset).

**Stipe:** 15–25 × 2 mm, pinkish-brown, paler at apex, central, cylindric, pubescent, insititious.

**Gills:** narrow, distant, 12–16, with 3–4 tiers lamellulae, adnexed-adnate to sub-decurrent, white with occasional low cross-venation and bifurcating gills.

**Flesh:** thin, white.

**Rhizomorphs:** multiple short, black, glossy rhizomorphs arising from substrate.

**Spores:** smooth, clavate,  $12.3–15.4 \times 4.1–5.4 \mu\text{m}$ , mean  $14.1 \times 4.6 \mu\text{m}$ , 20 spores.

**Basidia:** many 4-spored basidia present with immature spores (may have affected spore measurements);  $21–24 \times 5.5–7 \mu\text{m}$ .

**Cheilocystidia:** not found.

**Pleurocystidia:** not found.

**Pileipellis:** broad and narrow hyphae in a cutis.

**Caulocystidia:** scattered, smooth, cylindric cystidia with bulbous bases,  $78–145 \times 3–5 \mu\text{m}$ , with bases up to  $11 \mu\text{m}$  diam., inamyloid.

**Habitat:** *Araucaria cunninghamiana* (hoop pine) forest; substrate: pine needles and twigs on the forest floor.

**Notes:** gregarious in pine needle litter, with rhizomorphs binding litter. This is a very common fungus in hoop pine forest and gardens with hoop pine trees. It has been observed from Cairns Botanic Gardens to Numinbah valley in SEQ. DNA shows it is a *Marasmiellus* species in *Omphalotaceae*, its close sister being *Marasmiellus rhizomorphogenus* Antonin et al. 2010, from S. Korea.

**Collections examined:** Maleny, Dilkusha, 12 Mar 2025, *FE Guard*, F2025007 [F329], BRI AQ1054055; Numinbah NP, Natural Bridge, 24 Mar 2023, *J. Hewett & F.E. Guard*, F2023056 [F262], envt.