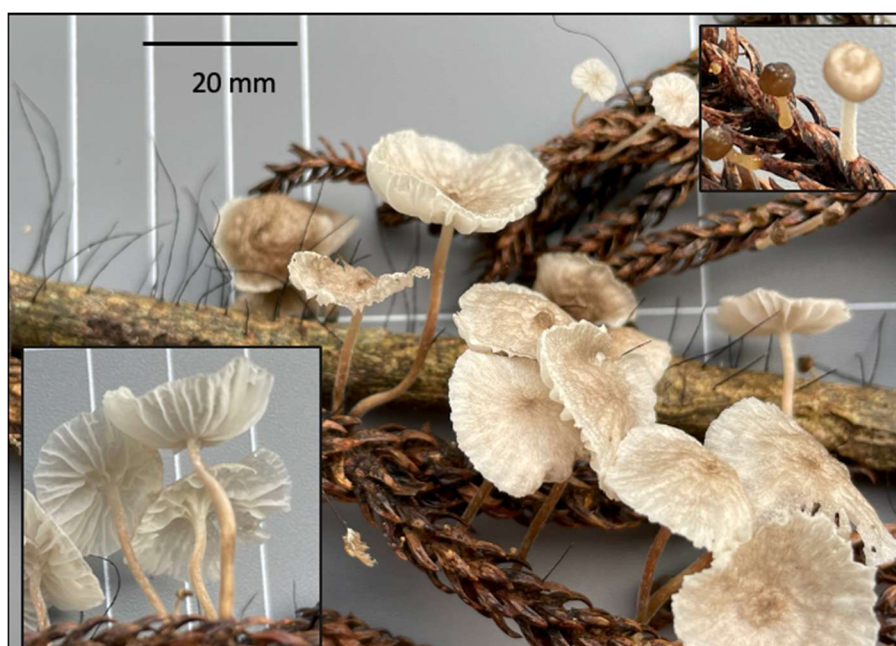


Marasmiellus sp 'hoop pine'



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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 × 4.1–5.4 µm, mean 14.1 × 4.6 µm, 20 spores.

Basidia: many 4-spored basidia present with immature spores (may have affected spore measurements); 21–24 × 5.5–7 µm.

Cheilocystidia: not found.

Pleurocystidia: not found.

Pileipellis: broad and narrow hyphae in a cutis.

Caulocystidia: scattered, smooth, cylindric cystidia with bulbous bases, 78–145 × 3–5 µm, with bases up to 11 µm 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.