

№ 161

Tomentella carbonaria

M.J. Larsen

Figures 1–7

Tomentella carbonaria M.J. Larsen 1975 [1 : 172] CFMR!

Basidiome effused, discontinuous to continuous, up to 0.3 (0.5) mm thick, adherent, relatively compact.

Hymenophore granulose to smooth or colliculose, mostly continuous, partly very finely cracking, brown (10YR 5–4/3–4), eventually with a very faint reddish hue.

Subhymenium compact, slightly thickening, concolorous with the fertile area.

Subiculum indistinct, poorly developed, made of very few hyphae next to the substrate soon vertically oriented.

Margin almost abrupt and fertile throughout or distinct, narrow, shortly thinning out, pruinose, discolour, cream to yellowish.

Rhizomorphs absent.

Hyphal system monomitric; all hyphae with fibulate primary septa; adventitious simple septa frequent on basal hyphae.

Subicular hyphae regular, often long-celled, sometimes becoming sinuous with some elbow-like bends with localized wall thickenings, 5–6.5 (7) μm wide, thick-walled, subhyaline, the wall 1–2 μm thick and pale yellow to very pale brown.

Subhymenial hyphae regular or almost so, (3) 4–6 μm wide, branching from clamps, thin-walled, hyaline.

Cystidia absent.

Basidia clavate to narrowly clavate, sinuous, rarely slightly utriform, 40–60×8–11 μm , secondary septa absent or rare, hyaline; 4 sterigmata up to 8 (10) μm long and 1.5–2.5 (3) μm wide at the base.

Basidiospores with irregular to lobed or multilobed outline; lateral face irregularly ellipsoid to slightly 3-lobed, adaxial side flattening; frontal face irregular to 3-5-lobed; polar face irregularly globose to 3-lobed, (8) 8.5–10

(10.5)×6.5–7.5 (8)×(7.5) 8–9.5 μm , $Q^1 = (1.15) 1.2\text{--}1.35 (1.4)$, $Q^2 = (1) 1.05\text{--}1.2 (1.25)$; primary lobes indistinct to distinct, normally verrucose and echinulate, often with a large indistinct guttula, brownish yellow to yellowish brown; aculei short and blunt, up to 0.5 (0.8) μm long and 0.3–0.6 (0.8) μm wide, single or paired at the base or in groups over a small wart in rosette-like outgrows. Macrospores rare, 11–13 μm across.

Incrustation: a lot of yellowish brown to dark brown matter evident in water mounts and obscuring all elements that completely dissolve in KOH leaving only a light yellowish brown halo.

Chemical reactions: KOH—. IKI—. CB: spores with both cyanophilous and acyanophilous walls; all other elements with acyanophilous walls.

Specimens examined

USA — **New Mexico** – Bandelier National Monument, on burnt wood of *Pinus contorta*, leg. M.J. Larsen, 20.VIII.1968, holotype of *Tomentella carbonaria* M.J. Larsen (CFMR: MJL 2815) – *ibid.*, on decayed burnt wood of *Pinus contorta*, leg. M.J. Larsen, 20.VIII.1968 (CFMR MJL-2818-a) – *ibid.*, on rather hard burnt wood of *Pinus contorta*, leg. M.J. Larsen, 20.VIII.1968 (CFMR MJL-2817)

Materials and methods

Specimens sampling and methodological details are described separately in this issue:

Excerpts from *Crusts & Fells*, n° 0

References

- [1] LARSEN, M.J. (1975). 'Some new North American species of *Tomentella*'. *Nova Hedwigia. Beiheft*, 51: 171–175

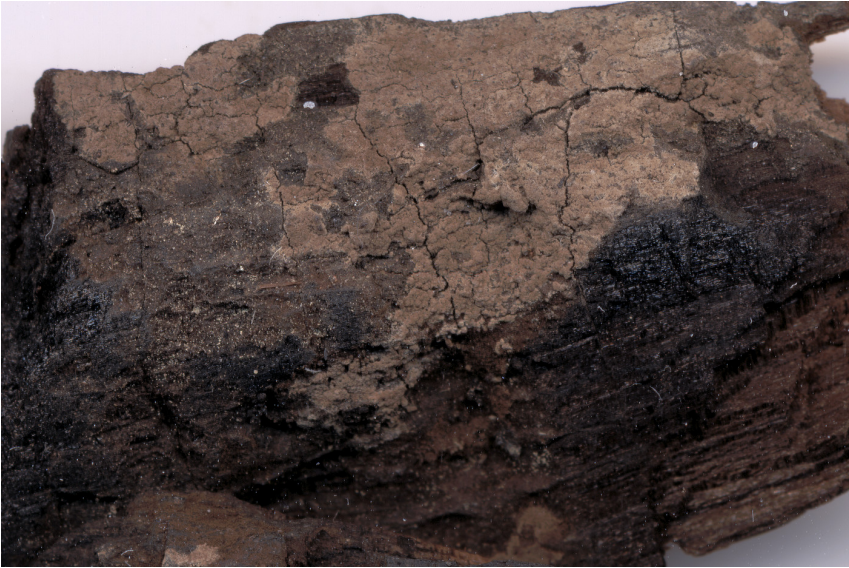


Fig. 1: Dried basidiome [CFMR MJL-2817]



Fig. 2: Detail of the hymenophore (dry). Image width = 9 mm [CFMR MJL-2818-a]

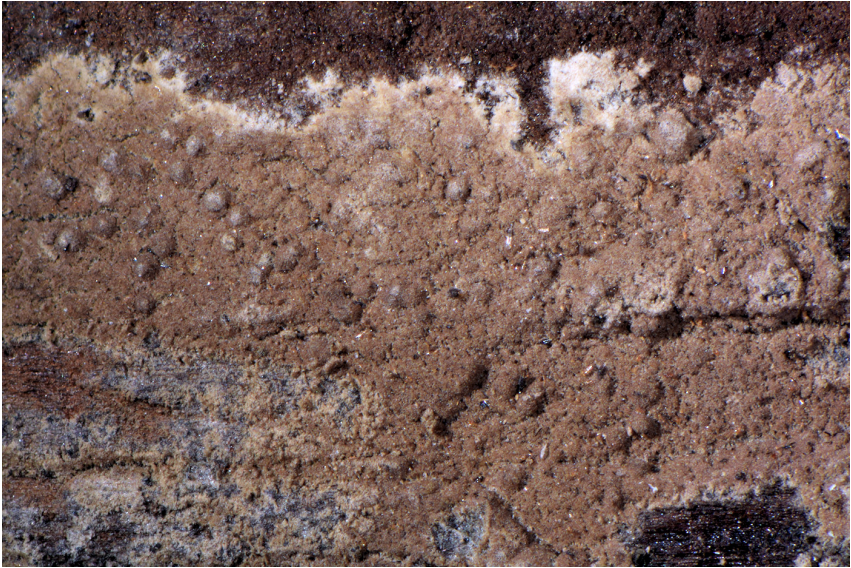


Fig. 3: Detail of the hymenophore (dry). Image width = 9 mm [CFMR MJL-2818-a]

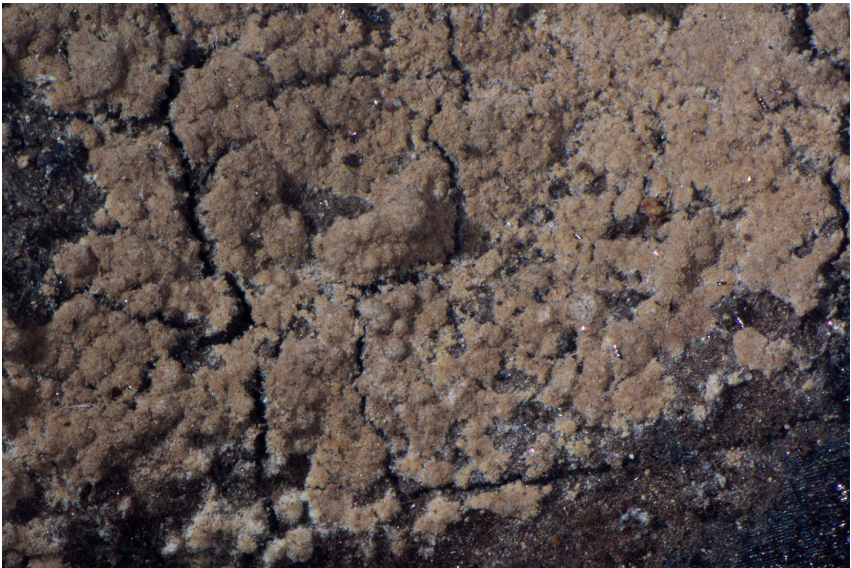


Fig. 4: Detail of the hymenophore (dry). Image width = 9 mm [CFMR MJL-2817]

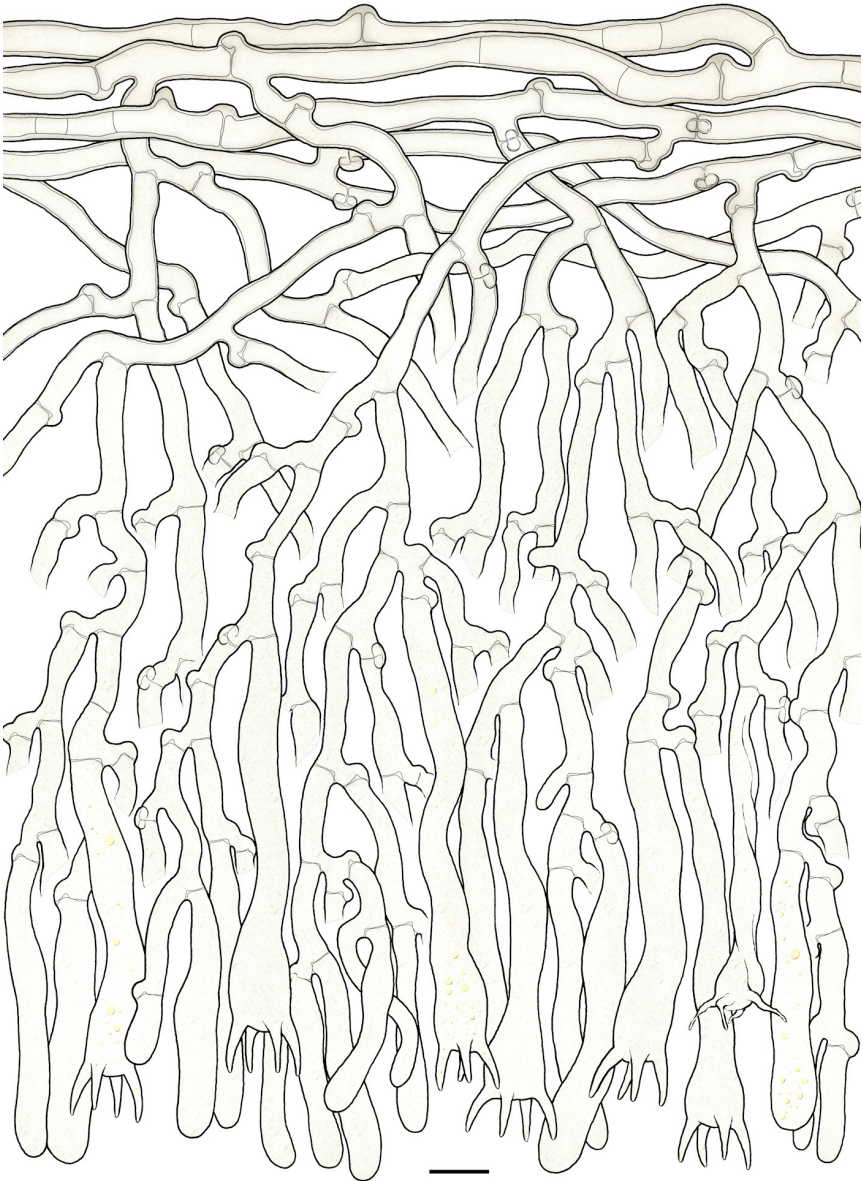


Fig. 5: Simplified vertical section through the basidiome. Bar = 10 μm [CFMR MJL-2817]

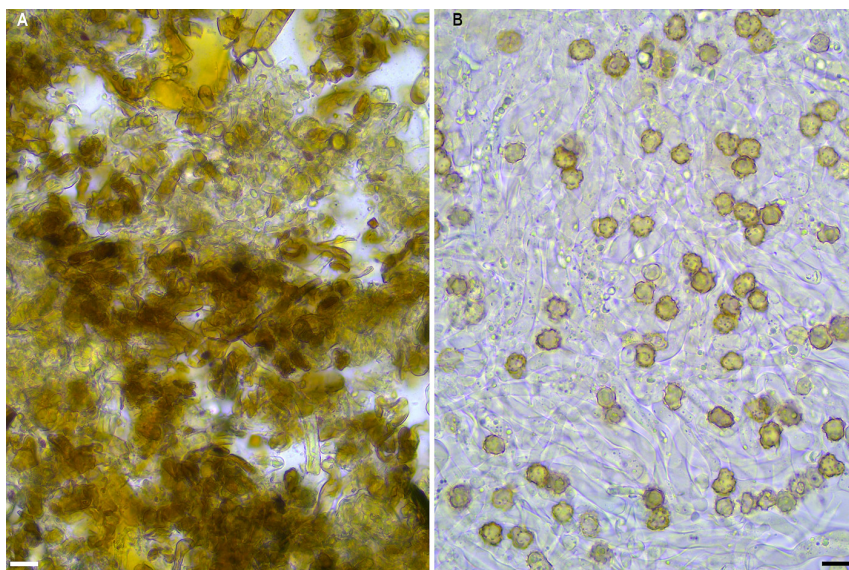


Fig. 6: Comparison of squash mounts: A) in water; B) in KOH. Bar = 10 μ m [CFMR MJL-2817]

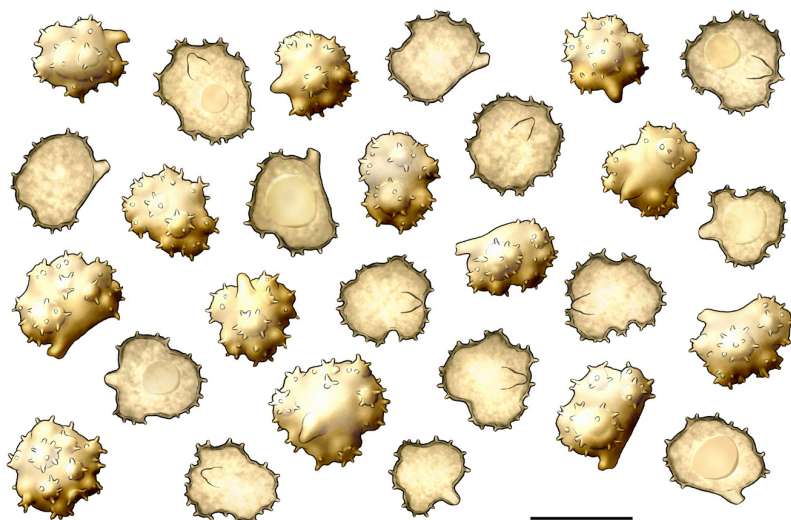


Fig. 7: Basidiospores. Bar = 10 μ m [CFMR MJL-2817]



Excerpts from *Crusts & Tells*

Descriptions and reports of resupinate Aphyllophorales and Heterobasidiomycetes

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