

ANTONIO ALBANESE, ELISEO BATTISTIN, CLAUDIO BERNA, MARCELLO BORAGINE,
ENRICO ERCOLE, ALFREDO VIZZINI

NOMENCLATURAL NOVELTIES

Arrhenia monsducalis Albanese, Battistin, Berna, Boragine, Ercole & Vizzini, sp. nov.

MycoBank: MB840168

Etymology: the specific epithet refers to Monte Ducale street, the collection site of the holotype.

Holotype: TOHG3573. Italy, Lazio, Minturno (LT), Monte Ducale street, 41°15.846' N, 013°44.548' E, 100 m a.s.l., among mosses, in Mediterranean vegetation with the presence of *Quercus suber* L., *Q. virgiliana* (Ten.) Ten., *Erica arborea* L., and *Myrtus communis* L., 08 Nov. 2020, leg. A. Albanese; GeneBank MW981352 (ITS), MW981348 (28S).

Pileus 10–19 mm diam., convex, with deeply depressed centre, omphaloid-funnel-shaped; margin sometimes sinuous and wavy, slightly involuted, translucently striate; surface smooth, hygrophanous, dark grey to brown, paler towards the margin. Lamellae decurrent, spaced (distant), intercalated with numerous second and third order lamellae (lamellulae), light grey with bluish hues, sometimes changing to purple, with straight smooth concolorous edge. Stipe 10–16 mm × 2–3.5 mm, central, terete, conical at insertion with the pileus, grooved, smooth, light grey at apex, grey brown towards the base; presence of a white basal mycelium. Context scarce, elastic, dirty-white; odour strongly Pelargonium-like, taste not tested. Spore-print white. Spores (5.7–) 5.9–7.2 (–7.8) × (3.0) 3.2–3.9 (–4.2) µm, on average 6.5 × 3.5 µm, Q = (1.5–) 1.6–2 (–2.4), Q_m = 1.9, ellipsoid to ovoid, smooth, hyaline, thin-walled, with small intracellular granulation, without a germ pore and with a prominent hilar appendix, inamyloid, non-dextrinoid. Basidia (21.1–) 28.6–36.0 (–42.6) × (4.6–) 5.1–6.8 (–8.6) µm, cylindrical-claviform, tetrasporic or bisporic, with 4.0–6.0 µm long sterigmata. Hymenophoral trama subregular to irregular, consisting of intertwined, 1.5–3.5 µm wide hyphae. Hymenial cystidia absent. Pileipellis an ixocutis of parallel, thin-walled and cylindrical 2–6 µm wide hyphae, immersed in a gelified matrix, with brownish extracellular and encrusting parietal granulations. Stipitipellis composed of hyaline, thin-walled, parallel, cylindrical, 2.5–3.5 µm wide hyphae, some of these thicker, caulocystidioid, ascending and with rounded apex. Clamp-connections absent in all parts of the basidiome.

Habitat and distribution: gregarious, terricolous, among mosses, in Mediterranean areas. So far known only from the type locality.

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