

Phanerochaete martelliana

Figures 1–8

Corticium martellianum Bres. 1890 [4 : 258] ≡ *Peniophora martelliana* (Bres.) Sacc. 1891 [10 : 239] ≡ *Phanerochaete martelliana* (Bres.) J. Erikss. & Ryvarden 1978 [8 : 1011] ≡ *Grandiniella martelliana* (Bres.) Zmitr. & Spirin 2006 [12 : 37]

= *Peniophora macrospora* Bres. 1913 [2 : 396] teste Eriksson et al. [8], Burdsall [6], Duhem [7] ≡ *Phanerochaete macrospora* (Bres.) Parmasto 1968 [9 : 84] ≡ *Grandiniella macrospora* (Bres.) Burds. 1977 [5 : 329]

= *Corticium auratum* Bourdot & Galzin 1928 [3 : 190] teste Duhem [7] ≡ *Phanerochaete aurata* (Bourdot & Galzin) Burds. 1985 [6 : 39] ≡ *Efibula aurata* (Bourdot & Galzin) Zmitr. & Spirin 2006 [12 : 32] ≡ *Byssomerulius auratus* (Bourdot & Galzin) Tura, Zmitr., Wasser & Spirin 2011 [11 : 465]

Basidiome effused, adherent, up to 0.5 mm thick.

Hymenophore smooth, membranaceous, slightly ceraceous, continuous, minutely, coarsely or strongly cracked and exposing the subiculum, cream to light yellowish brown, yellowish, ochraceous, sometimes yellow to orange, some small parts may become dark yellowish brown.

Subhymenium thickening, compact, concolorous with the fertile surface, up to 0.2 mm thick.

Subiculum loose, normally distinctly paler than the fertile surface, as a rule cream to very pale yellowish brown or light yellow.

Margin abrupt and concolorous with the hymenial surface or shortly thinning out, farinose to narrowly byssoid, becoming concolorous with the subiculum.

Hyphal system monomitic. Hyphae mostly with simple septa, quite a few in subiculum with clamped septa; subicular hyphae regular, often branched at right angles, (3.5) 4–8 µm, with thickening walls, hyaline; subhymenial hyphae regular, 3–5 µm, thin-walled, hyaline.

Cystidia subulate, 40–100×4–7 µm, with rather thin or thickening wall except at the top, smooth or sometimes coarsely encrusted, enclosed to projecting about half length, rarely bi- or trifurcated at top, sometimes with 1–3 thin septa along their length.

Basidia narrowly clavate, 35–65×6–8 (9) µm, hyaline; 4 sterigmata up to 5 (8) µm long.

Basidiospores ellipsoid, from 5.5–9×3.5–5.5 [em-3981] to (7.5) 8–12 (13) ×(4.8) 5–7 (7.5) µm [em-1634], smooth, with thin or thickening walls (0.3 µm), hyaline, spore print light pink to very pale yellowish brown.

Chemical reactions: IKI–; CB–

Incrustation: hyaline to yellowish granular or irregular crystals or resinous matter in subhymenium, sometimes also coarsely encrusting some subicular hyphae and cystidia.

Voucher specimens

FRANCE — **Pyrénées-Orientales** – Bouleternère, St.Nazaire, on wood of a lying, rather hard branch of a deciduous tree, leg. E. & F. Martini, 29.X.1995 (em-4061) – Sorède, La Farguse, on bark of a lying, rather hard twig of a deciduous tree, leg. E. Martini, 2.XI.2008 (em-10623)

SWITZERLAND — **Ticino** – Ascona, Brumo, on bark of a standing, hard trunk of *Quercus sp.*, leg. E. Zenone, 2.III.1988 (em-1617) – Ascona, Gratena, on wood and bark of a lying, hard branch of *Quercus sp.*, leg. E. Zenone, 7.I.1988 (em-1653) – Ascona, Monte Verità, on wood of a standing, strongly decayed stump of *Pinus strobus*, leg. E. Zenone (em-1623) – Auressio, on wood of a hanging, hard trunk of *Castanea sativa*, leg. E. Zenone, 24.I.1988 (em-1609) – Aurigeno, on wood of a standing, hard trunk of a deciduous tree, leg. E. Zenone, 9.II.1988 (em-1655) – Berzona, on bark of a hanging, rather hard twig of *Corylus avellana*, leg. E. Zenone, 21.XII.1995 (em-4286) – Bignasco, Cornöv, on bark of a lying, rather hard twig of *Rubus sp.*, leg. E. Martini, 17.IX.1995 (em-4015) – Bolle di Magadino, on bark of a lying, hard twig of a deciduous tree, leg. E. Zenone, 12.III.1986 (em-1344) – Caslano, Monte di Caslano, on wood of a lying, hard trunk of *Castanea sativa*, leg. E. Zenone, 22.IV.1988 (em-2245) – Caverigno, Ravör, on bark of a lying branch of a deciduous tree, leg. E. Martini, 23.II.1985 (em-150) – Cavigliano, on bark of a standing, hard trunk of *Frangula alnus*, leg. E. Zenone, 1.II.1988 (em-1640) – *ibid.*, on wood of a hanging, hard branch of *Castanea sativa*, leg. E. Zenone, 1.II.1988 (em-1641) – *ibid.*, on wood of a lying branch of *Castanea sativa*, leg. E. Zenone, 1.II.1988 (em-1632) – Cavigliano, Cresimino, on wood of a hanging, hard trunk of *Populus tremula*, leg. E. Zenone, 19.I.1988 (em-1635) – *ibid.*, on bark of a standing, hard trunk of *Castanea sativa*, leg. E. Zenone, 19.I.1988 (em-1626) – Cavigliano, Pianezzù, on wood and bark of a standing trunk of *Betula pendula*, leg. E. Zenone, 21.II.1985 (em-1656) – Croglio, Ronco, on bark of a rather hard twig of a deciduous tree, leg. E. Martini, 31.X.1994 (em-3907) – *ibid.*, on lying, rather hard stems of bamboo, leg. E. Martini, 31.X.1994 (em-3912) – Losone, on bark of a lying, decayed branch of *Pinus strobus*, leg. E. Zenone, 24.XI.1984 (em-1638) – Losone, Maia, on bark of a hanging, hard branch of *Sarothamnus scoparius*, leg. E. Zenone, 5.I.1988 (em-1651) – *ibid.*, on wood of a hanging, hard trunk of *Salix sp.*, leg. E. Zenone, 2.II.1988 (em-1612) – *ibid.*, on bark of a lying, rather hard branch of *Rubus sp.*, leg. E. Zenone, 1.V.1995 (em-3981) – Mondada, Gramusèd (Valle Bavona), on wood of a lying, rather hard branch of *Fagus sylvatica*, leg. E. Martini, 20.VIII.1989 (em-2369) – Monte, Valle del Prato della Ca, on wood and bark of a lying, decayed branch of a



Fig. 1: Dried basidiome. Image width = 36 mm [em-1638]

deciduous tree, leg. F. Delmenico, 1.V.2007 (em-9991) – Novazzano, Valle della Motta, on bark of a standing, hard branch of a deciduous tree, leg. E. Zenone, 11.III.1991 (em-2960) – *ibid.*, on bark of a lying, decayed branch of *Clematis vitalba*, leg. E. Zenone, 13.IV.1991 (em-2955) – Rivera, on wood of a lying, decayed twig of *Frangula alnus*, leg. E. Zenone, 29.XI.1993 (em-3666) – Ronco s/Ascona, Prato Cortella, on bark of a standing, hard trunk of *Quercus sp.*, leg. E. Zenone, 2.III.1988 (em-1647) – *ibid.*, on bark of a standing, hard trunk of *Castanea sativa*, leg. E. Zenone, 2.III.1988 (em-1631) – Sagno, Cavalorgna, on bark of a lying, decayed branch of *Castanea sativa*, leg. F. Delmenico, 9.III.2004 (em-12438) – Solduno, on a lying branch of *Robinia pseudoacacia*, leg. E. Zenone, 29.XII.1984 (em-1634) – Someo, on wood of a lying trunk of *Pinus sylvestris*, leg. E. Zenone, 18.XI.1985 (em-1613) – Someo, Da l'Ovi, on bark of a lying, hard twig of a deciduous tree, leg. E. Martini, 6.IX.1987 (em-1163)



Fig. 2: Dried basidiome. Image width = 40 mm [em-1641]

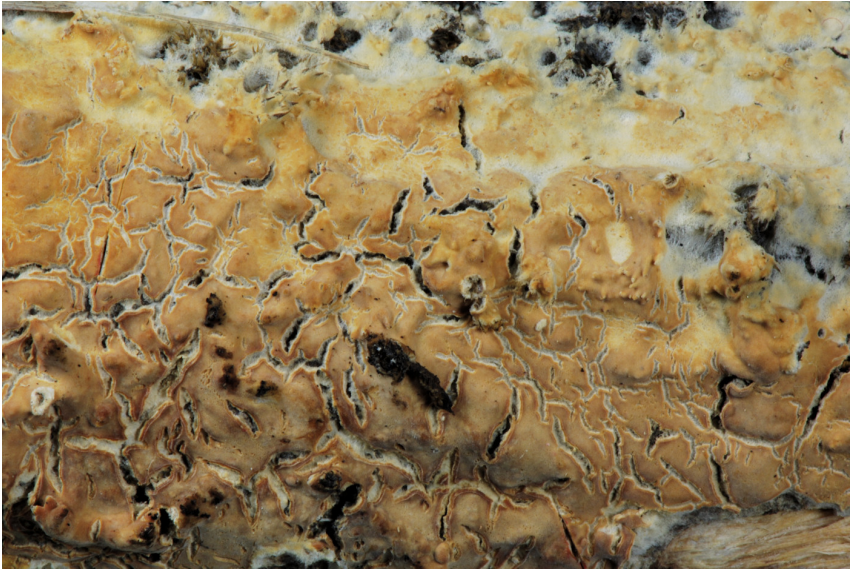


Fig. 3: Dried basidiome. Image width = 37 mm [em-150]



Fig. 4: Dried basidiome. Image width = 36 mm [em-1617]



Fig. 5: Dried basidiome. Image width = 22 mm [em-1613]

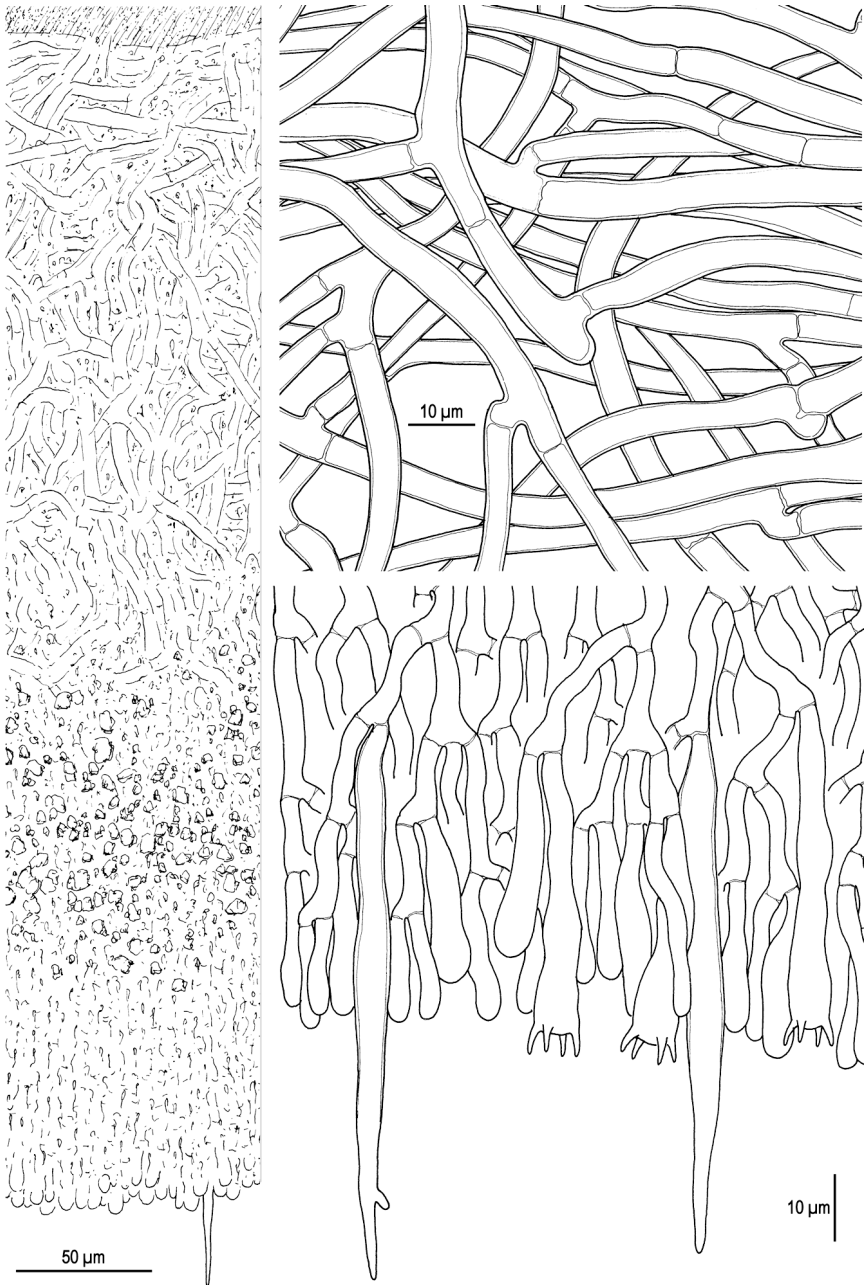


Fig. 6: a) Section through the basidiome. b) cystidia, basidia, subhymenial hyphae. c) subicular hyphae. [em-3981]

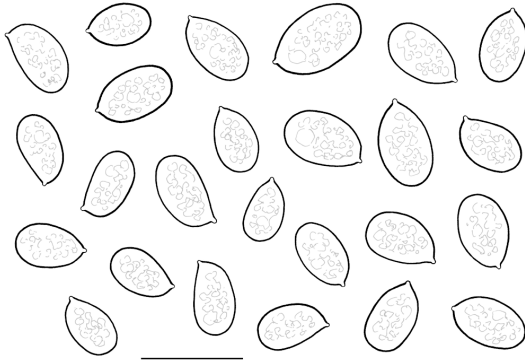


Fig. 7: Basidiospores. Bar = 10 μm [em-3981]

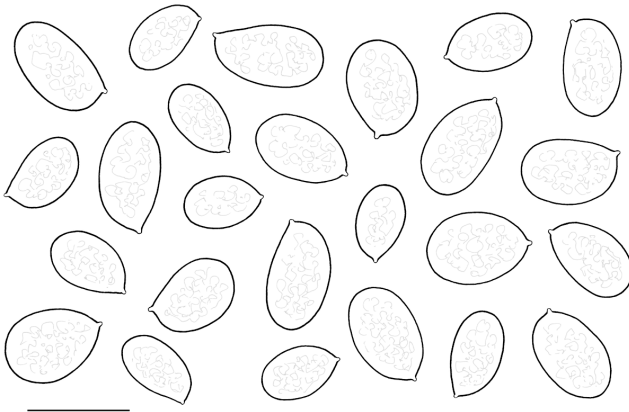


Fig. 8: Basidiospores. Bar = 10 μm [em-1632]

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