

## № 117

*Tomentella punicea*  
(Alb. & Schwein.) J. Schröt.

Figures 1–8

*Thelephora punicea* Alb. & Schwein. 1805 [1 : 278] FH!  $\equiv$  *Corticium puniceum* (Alb. & Schwein.) Fr. 1874 [9 : 661]  $\equiv$  *Tomentella punicea* (Alb. & Schwein.) J. Schröt. 1888 [19 : vol. 1: 420]  $\equiv$  *Hypochnus puniceus* (Alb. & Schwein.) Sacc. 1888 [18 : 661]

= *Hydnum epiphyllum* Schwein. 1832 [20 : 163] teste Larsen [12]  $\equiv$  *Hypochnus epiphyllus* (Schwein.) Burt 1926 [6 : 320]  $\equiv$  *Tomentella epiphylla* (Schwein.) Litsch. 1939 [15 : 131]

= *Zygodesmus granulosus* Peck 1881 [17 : 277] teste Larsen [12]  $\equiv$  *Hypochnus granulosus* (Peck) Burt 1916 [5 : 218]  $\equiv$  *Tomentella granulosa* (Peck) Bourdot & Galzin 1924 [2 : 158]

= *Hypochnus elaeodes* Bres. 1897 [4 : 115] S!, also teste Larsen [14], Bourdot and Galzin [3] pro syn.  $\equiv$  *Tomentella elaeodes* (Bres.) Höhn. & Litsch. 1907 [10 : 761, 840]

= *Tomentella granulosa* var. *fuliginosa* Bourdot & Galzin 1924 [2 : 158] teste Larsen [14]

= *Tomentella liasicola* Bourdot & Galzin 1924 [2 : 157] PC!, also teste Larsen [13]  $\equiv$  *Tomentella rubiginosa* subsp. *liasicola* (Bourdot & Galzin) Bourdot & Galzin 1928 [3 : 508]

= *Zygodesmus chlorochaetes* Ellis 1881 [8 : no. 423] NYS!, also teste Larsen [12]

**Basidiome** effused, adherent to separable, at first araneose then hypoch-noid to pellicular, soft to membranaceous; up to 0.5 (1) mm thick.

**Hymenophore** granulose to finely colliculose, smoother toward the margin, becoming partly crustose when old; with small dark reddish brown droplets on surface when actively growing.

**Colliculi** (when developed) 3–8/mm, 0.1–0.2 mm across, more or less easily peeled off from the subiculum, single to crowded.

**Hymenial surface** soon continuous, yellowish brown (10YR 5–4/4–6), ferruginous brown (5YR 4(3)/4–6), frequently with an olivaceous hue (2.5–5Y 5–4/4–6); sometimes with very dark brown spots.

**Subiculum** thin to well developed, hypochnoid to fibrous, yellowish-brown to brown or strong brown (10YR 5–4/4–8).

**Margin** indistinct or narrow, shortly or widely thinning out, araneose, byssoid to fimbriate, sometimes fan-shaped, yellowish-brown to brown, paler to concolorous with the subiculum.

**Rhizomorphs** present, sometimes obscure, common at the margin, in subiculum and in cracks of the substrate, up to 0.1 (0.2) mm thick, compact, becoming hard and rigid, with almost smooth surface, brownish to very dark brown or almost blackish.

**Hyphal system** dimitic with branched skeletal hyphae (binding-like) associated with rhizomorphs.

**Subhymenial hyphae** regular, fibulate, (2) 3–4 (5)  $\mu\text{m}$  wide, thin-walled, hyaline to pale yellowish, sometimes with articles with homogeneous yellowish-ochraceous content.

**Subicular hyphae** regular, mostly fibulate, sometimes with simple septa and repetitive adventitious septa, mostly with thin or slightly thickening wall, 2–4 (5)  $\mu\text{m}$  in diam., subhyaline to light yellowish brown.

**Rhizomorphs** starting as thin strands of generative hyphae like the subicular ones showing soon slightly thicker walls and alternating clamped and simple septa, then developing in the core of the rhizomorph slightly wider hyphae up to 8  $\mu\text{m}$  in diam., often with repetitive secondary septa, and in surface thinner skeletoid hyphae (1) 1.5–2.5 (3)  $\mu\text{m}$  diam., irregular, sinuous, often with elbow-like bends that become randomly branched, ochre-brown, never forming a labyrinthic and compact structure.

**Cystidia** absent.

**Basidia** narrowly clavate to subcylindrical, somewhat sinuous, (35) 40–50 (60)  $\times$  6–8  $\mu\text{m}$ , sometimes or often with a transverse septum, fibulate at the basal septum, subhyaline to pale yellowish, sometimes with homogeneous light ochraceous content, often with distinct yellowish oily drops; 4 sterigmata up to 5  $\mu\text{m}$  long and 1–1.5  $\mu\text{m}$  wide at the base.

**Basidiospores** with irregular to lobed outline; in frontal view normally 3-lobed, in lateral view mostly 2-lobed and often broader toward the base, in polar view subglobose with irregular or slightly lobed outline, (6) 6.5–8.5 (9)  $\times$  (4.5) 5–6.5 (7)  $\times$  (6) 6.5–7.5 (8)  $\mu\text{m}$ ,  $Q^1 = 1.2\text{--}1.4$  (1.5),  $Q^2 = 0.95\text{--}1.2$ , echinulate, thick-walled, yellowish to yellowish-brown; aculei up to 1 (1.2)  $\mu\text{m}$  long, blunt to tapering, sometimes disposed in crowns over secondary lobes; apiculus prominent.

**Chlamydospores** absent.

**Chemical reactions:** IKI –. CB: young basidiospores slightly cyanophilous. KOH: faint pH-related color change of tissues that loss some yellow hue becoming slightly more olivaceous brown; rhizomorphs becoming oli-

vaceous or greenish, typically with more or less indefinite dark to very dark greenish areas or spots.

**Incrustation:** with a lot of yellow to yellowish-brown, rarely brown resinous material that almost completely dissolve in KOH-mounts producing a yellowish or yellowish brown diffusate.

## Voucher specimens

FRANCE — **Ain** – Pizay, on bark of *Betula sp.*, leg. J. Boidin, 3.X.1957 (LY 2766) — **Alpes-Maritimes** – Estérel, Parc Barbossi, on inner side of bark of a rather hard trunk of *Quercus sp.*, leg. R. Hentic, 9.X.1996 (rh-9640, em-7276) — **Aveyron** – Camarès, on bark of a lying, decayed twig of *Pinus sp.*, leg. E. Martini, 29.X.2004 (em-8435) — **Rayssac**, on bark of a lying, rather hard trunk of a deciduous tree, leg. E. Martini, 26.X.2004 (em-8522) — **Sainte-Eulalie-de-Cernon**, on bark of a lying, decayed branch of *Quercus sp.*, leg. E. Martini, 29.X.2001 (em-7808) — **Saint-Félix-de-Sorgues**, on bark of a lying, decayed trunk of *Quercus sp.*, leg. B. Rivoire, 26.X.2004 (em-8511) — **Trou d'Enfer**, pr. Millau, on stones, leg. A. Galzin, XI.1919, lectotype of *Tomentella liasicola* Bourdot & Galzin (PC: Bourdot 28761) — **Basses-Alpes** – Les Thuiles, La Fère Basse, on bark of a lying, rather hard branch of *Pinus sylvestris*, leg. E. Martini, 29.IX.2016 (em-12955) — **Hautes-Pyrénées** – Arras en Lavedan, on wood of a strongly decayed stump of *Fagus sylvatica*, leg. E. Martini, 2.X.2017 (em-13219) — **Jura** – Bonlieu, lac de Bonlieu, on bark of a lying, strongly decayed branch of *Picea abies*, leg. F. Dämmrich, 15.IX.2012 (em-11837) — **Prénoval**, Bois de la Joux Derrière, Route de la Faïcle, on bark of a lying, rather hard branch of *Abies alba*, leg. E. Martini, 10.IX.2012 (em-11853) — **Pyrénées-Orientales** – Casteil, Col de Jou, on bark of a rather hard twig of a deciduous tree, leg. J. Boidin, 30.X.1995 (em-7249) — **La Preste**, on rather hard wood of *Populus sp.*, leg. G. Gilles, 1984 (em-7382) — **Seine-et-Marne** – Forêt de Fontainebleau, Gorge aux Loups, parcelle 527, on wood of a lying, decayed trunk of *Pinus sp.*, leg. E. Martini, 31.X.2006 (em-9355) — **Forêt de Fontainebleau**, La Solle, parcelle 253, on wood and bark of a lying, decayed branch of a deciduous tree, leg. E. Martini, 30.X.2006 (em-9354) — **Forêt de Fontainebleau**, La Tillaie, parcelle 270, on wood and bark of a lying, decayed branch of *Fagus sylvatica*, leg. E. Martini, 1.XI.2006 (em-9356) — **Seine-St.-Denis** – Villepinte, parc du Sausset, on bark of a lying branch of *Pinus sp.*, leg. G. Eyssartier, 20.XI.2005 (em-8745) — **Var** – Brignoles, Camps La Source, on wood of a lying, rather hard branch of a broadleaved tree, leg. E. Martini, 14.XI.2013 (em-12073) — **Brignoles**, Forêt de la Ste. Baume, on wood of a lying, strongly decayed branch of a broadleaved tree, leg. E. Martini, 12.XI.2013 (em-12014.2) — **Presqu'île de Giens**, La Mandrague, on wood of a lying, decayed branch of a broadleaved tree, leg. E. Martini, 10.XI.2013 (em-12031) — **Vendée** – Longeville, Les Conches, on wood of a lying, strongly decayed trunk of *Pinus sp.*, leg. E. Martini, 30.X.1998 (em-6811) — **Yvelines** – Forêt de Rambouillet, on bark of a lying, decayed trunk of *Quercus sp.*, leg. R. Hentic et G. Fiévet, 13.VII.2007 (em-9996.1)

GERMANY — **Thüringen** – Hainich, on wood and bark of a lying, decayed trunk of *Fagus sylvatica*, leg. S. Blaser, X.2008 (em-10835)

ITALY — **Piemonte** – Albano Vercelese, on wood and bark of a lying, decayed branch of a deciduous tree, leg. E. Martini, 3.V.1987 (em-973) – **Pombia**, Parco de Ticino, on bark of a trunk of *Robinia pseudoacacia*, leg. E. Zenone, 2.XI.1988 (em-2234)

LUXEMBOURG – Müllerthal, Schellert, on wood, leg. B. Schultheis, 20.XI.1996 (em-6458)

SLOVAKIA – Prenčöv, on lying, decayed bark of *Betula sp.*, leg. A. Kmet, 11.VIII.1891, lectotype of *Hypochnus elaeodes* Bres. (S: F14898) – *ibid.*, on lying, strongly decayed

wood of an angiosperm, leg. A. Kmet, 21.IX.1891, original material of *Hypochnus elaeodes* Bres. (S: F14899)

SWITZERLAND — **Aargau** – Bütberg, Mönthal, on bark of a lying, decayed trunk of a broadleaved tree, leg. J. Duc, 27.VIII.2008 (em-10579) – Möriken, Chameren, Geissberg, on bark of a lying, decayed trunk of *Abies alba*, leg. J. Duc, 18.VIII.2009 (em-10915) — **Bern** – Hofstetten, Stipfi Eywald, on bark of a lying, decayed branch of a deciduous tree, leg. E. Martini, 16.X.1999 (em-7088) — **Solothurn** – Biberist, Chrizweier, on bark of a lying, decayed branch, leg. E. Martini, 28.IX.2001 (em-7678) — **St. Gallen** – Kengelbach, Brugglis, on bark of a lying, decayed trunk of *Fagus sylvatica*, leg. E. Martini, 29.IX.2010 (em-11413) — **Thurgau** – Berlingen, Wildbach, on bark of a lying, decayed branch of a deciduous tree, leg. E. Martini, 5.X.2006 (em-9166) – Tägerwilen, Tägerwilerwald, on bark of a lying, strongly decayed trunk of a coniferous tree, leg. E. Martini, 6.X.2006 (em-9154) — **Ticino** – Arzo, Perfetta, on wood and bark of a lying, decayed branch of a deciduous tree, leg. E. Martini, 13.X.1994 (em-3863.1) – Ascona, Gratena, on bark of a lying, rather hard branch of *Prunus avium*, leg. E. Martini, 9.XI.2015 (em-12821) – Bignasco, on wood of a lying, decayed branch of a deciduous tree, leg. E. Martini, 14.XII.1985 (em-560) – Bignasco, Besso, on wood of a lying, decayed branch of *Corylus avellana*, leg. E. Martini, 29.VIII.1993 (em-3646) – Bignasco, Ganne, on lying wood of a deciduous tree, leg. E. Martini, 23.VIII.1987 (em-1110) – *ibid.*, on stones, leg. E. Martini, 5.VIII.2014 (em-12216) – Bignasco, Rannee, on bark of a decayed branch of a deciduous tree, leg. E. Martini, 11.VIII.1996 (em-4274) – Bolle di Magadino, on wood of a branch of a deciduous tree, leg. E. Zenone, 20.VII.1986 (em-1102) – Brontallo, Bosco della Fiora, on bark of a lying, decayed branch of *Tilia cordata*, leg. E. Martini, 4.VIII.2014 (em-12217) – Casima, Ponte Breggia, on lying, strongly decayed wood of *Fraxinus excelsior*, leg. F. Delmenico, 28.X.2006 (em-9627) – Cerentino, Corzora, on bark of a lying, rather hard branch of a coniferous tree, leg. E. Martini, 20.VIII.1994 (em-3754.1) – Cerentino, Costina, on bark of a lying, decayed branch of a deciduous tree, leg. E. Martini, 25.IX.1988 (em-2147) – Cevio, Consorzio, on bark of a lying, rather hard trunk of a coniferous tree, leg. E. Martini, 12.IX.1999 (em-7012) – *ibid.*, on wood of a lying, rather hard twig of a coniferous tree, leg. E. Martini, 12.IX.1999 (em-7009) – Cugnasco, Ciossa Antognini, on bark of a lying, strongly decayed branch of a deciduous tree, leg. E. Martini, 9.V.1987 (em-1094) – Faedo, Rivèra (Valle Bavona), on wood of a lying, decayed branch of *Betula pendula*, leg. E. Martini, 6.IX.2017 (em-13194) – Fontanellata (Valle Bavona), on wood of a lying, strongly decayed branch of *Corylus avellana*, leg. E. Martini, 4.VIII.2009 (em-10857) – Gordevio, Saleggio, on bark of a lying, decayed twig of a coniferous tree, leg. E. Martini, 2.IX.1985 (em-548) – *ibid.*, on wood of a lying, decayed trunk of *Corylus avellana*, leg. E. Zenone, 7.X.2005 (em-8727) – Gordevio, Villa, on bark of a lying, decayed twig of a deciduous tree, leg. E. Martini, 6.XI.1985 (em-556) – Lodano, Saligin, on bark of a lying, decayed branch of *Quercus sp.*, leg. E. Zenone, 17.X.2005 (em-8713) – Maggia, Saligin, on lying, decayed inner side of bark of *Pinus sp.*, leg. E. Martini, 28.VIII.2011 (em-11625) – Maggia, Valle del Salto, on wood of a lying, strongly decayed branch of a deciduous tree, leg. E. Martini, 26.IX.2014 (em-12375) – Meride, Bolle, on bark of a lying, rather hard trunk of a deciduous tree, leg. E. Martini, 21.X.2006 (em-9236.2) – Meride, Cassina, on wood of a lying, decayed branch of *Fagus sylvatica*, leg. E. Martini, 20.VIII.2006 (em-8810) – Meride, Crocifisso, on wood of a lying, strongly decayed trunk of a deciduous tree, leg. E. Martini, 17.IX.2006 (em-8905) – Meride, Fornace, on wood of a lying, strongly decayed branch of *Carpinus betulus*, leg. E. Martini, 30.VI.2007 (em-9979) – Meride, Meriggio, on bark of a lying, decayed trunk of *Fraxinus excelsior*, leg. E. Martini, 14.X.2006 (em-9227) – Meride, Premoran, on wood of a lying, strongly decayed trunk of a deciduous tree, leg. E. Martini, 20.VIII.2006 (em-8815) – Meride, Serpiano, on a lying branch of *Castanea sativa*, leg. E. Martini, 14.X.1994 (em-5607) – Meride, Veschee, on wood of a lying, decayed trunk of *Fagus sylvatica*, leg. E. Martini, 22.IX.2007 (em-10081) – Mondada, Gramusèd (Valle Bavona), on wood of a lying, decayed branch of an angiosperm, leg. E. Martini, 27.VII.2002 (em-8052) – Mondada, Mulini (Valle Bavona), on bark of a

lying, decayed trunk of a deciduous tree, leg. E. Martini, 25.VIII.2012 (em-11789) – Monte, Campora, Chignö, on lying, strongly decayed wood of a broadleaved tree, leg. F. Delmenico (em-10998) – Monte, Craol, on lying, strongly decayed wood of *Tilia sp.*, leg. F. Delmenico, 4.XII.2004 (em-8642) – Monte, Prato dell'Alpe, on lying, decayed wood of *Ostrya carpinifolia*, leg. F. Delmenico, 4.XI.2007 (em-10402) – Monte, Roncaia (Valle di Mugello), on lying, strongly decayed wood of *Castanea sativa*, leg. F. Delmenico, 4.X.2005 (em-11703) – Novazzano, Valle della Motta, on wood of a lying, decayed branch of *Frazinus excelsior*, leg. E. Zenone, 13.II.1992 (em-3116) – Ritorto, Dréom (Valle Bavona), on wood and bark of a lying, decayed trunk of a deciduous tree, leg. E. Martini, 11.IX.1999 (em-6982) – *ibid.*, on wood of a lying, decayed branch of *Tilia cordata*, leg. E. Martini, 22.IX.2001 (em-7608) – Roseto (Valle Bavona), on bark of a lying, decayed trunk of a deciduous tree, leg. E. Martini, 18.VIII.2012 (em-11781) – Roveredo, Oggi (Valcolla), on bark of a lying, decayed branch of a deciduous tree, leg. E. Martini, 14.IX.1988 (em-1932) – Sabbione, Caslitt (Valle Bavona), on wood of a lying, decayed twig of *Tilia cordata*, leg. E. Martini, 13.VIII.1994 (em-3915) – Sabbione, Splüeti (Valle Bavona), on bark of a lying, decayed branch of *Corylus avelana*, leg. E. Martini, 7.VIII.2017 (em-13099) – Sagno, Cavalorgna, on wood of a lying, decayed trunk of a deciduous tree (*Fagus sylvatica?*), leg. F. Delmenico, 20.XII.2013 (em-12100) – Sementina, Boschetti, on bark of a lying, decayed trunk of *Alnus incana*, leg. E. Zenone, 5.IV.2000 (em-7883) – Someo, on wood of a lying, decayed branch of a coniferous tree, leg. E. Martini, 27.VIII.2005 (em-8617) – *ibid.*, on wood of a lying, strongly decayed trunk of a coniferous tree, leg. E. Martini, 27.VIII.2005 (em-8616) – Someo, Da l'Ovi, on wood of a lying, decayed branch of a deciduous tree, leg. E. Martini, 6.IX.1987 (em-1161) – Torre, Grumascio, on wood of a lying, rather hard trunk of *Tilia cordata*, leg. E. Zenone, 22.IV.1998 (em-6918) – Vaud – Coinsins, on lying, strongly decayed wood, leg. A. Guerry, 31.VIII.1996 (em-5976)

USA — **Kentucky** – Crittenden, on wood, leg. C.G. Lloyd, 15.IX.1914 (BPI 332067) – *ibid.*, on wood of a deciduous tree, leg. C.G. Lloyd, 26.IX.1920 (BPI 332066) — **New Jersey** – [Unknown locality], on decayed stems of *Zea mays*, leg. Ellis, XII.1878, isotype of *Zygodesmus chlorochaetes* Ellis (NYS) — **Pennsylvania** – Bethlehem, on wood of a deciduous tree, leg. L.D. Schweinitz, isoneotype of *Thelephora punicea* Alb. & Schwein. (FH: Curtis herb., fldr. 107-108)

## Materials and methods

Specimens sampling and methodological details are described separately in this issue:  
Excerpts from *Crusts & Fells*, n° 0

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Fig. 1: Basidiome in situ [em-7808]

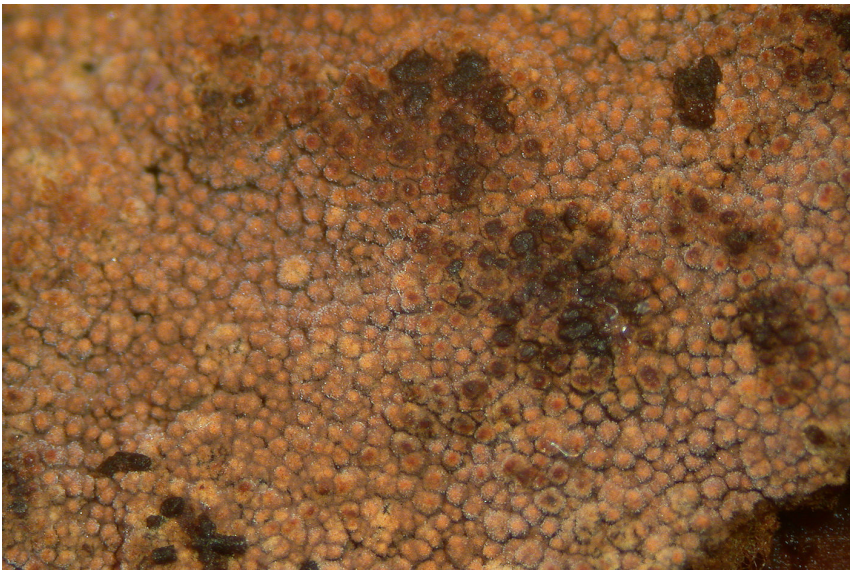


Fig. 2: Detail of the hymenophore. Image width = 9 mm [em-8617]

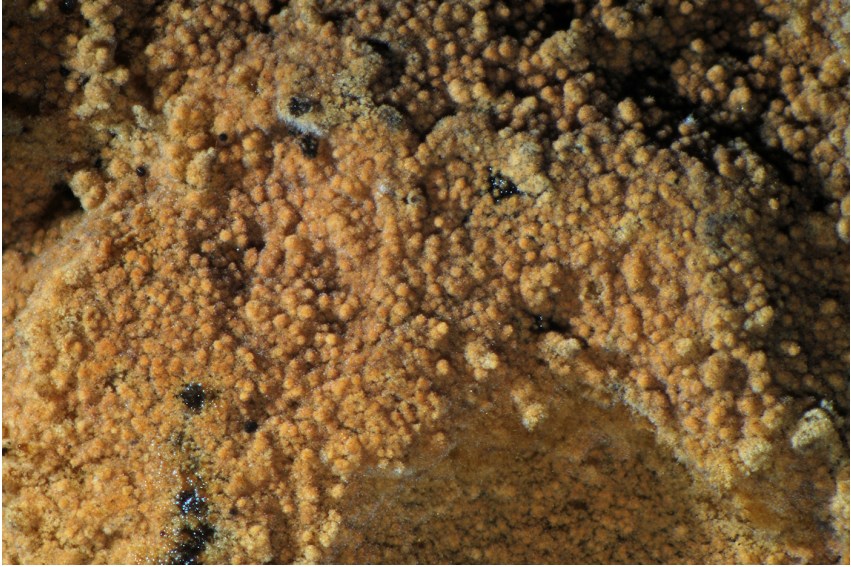


Fig. 3: Hymenophore. Image width = 9 mm [em-11789]

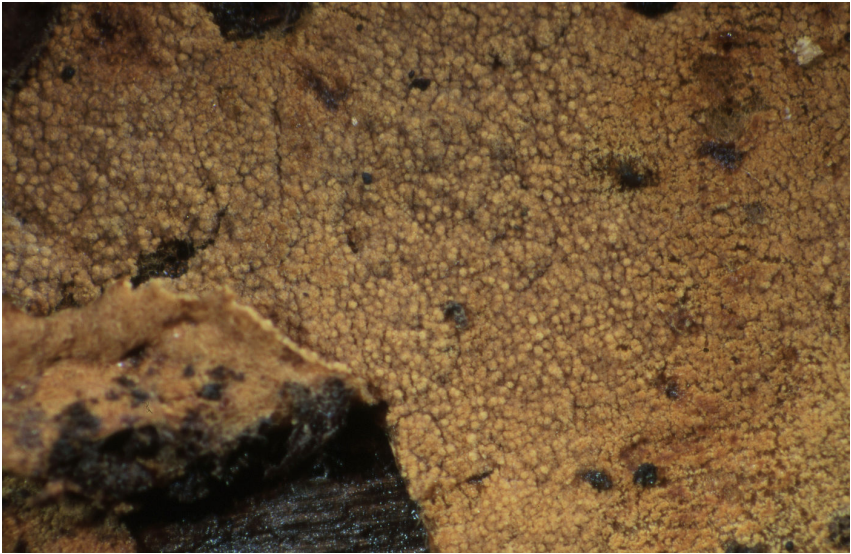


Fig. 4: Basidiome with an upside down part that shows the subiculum. Image width = 9 mm [em-7608]



Fig. 5: Rhizomorphs as mounted in KOH, ex isoneotype of *Thelephora punicea* Alb. & Schwein. Bar = 10  $\mu$ m [FH: Curtis herb., fldr. 107-108]

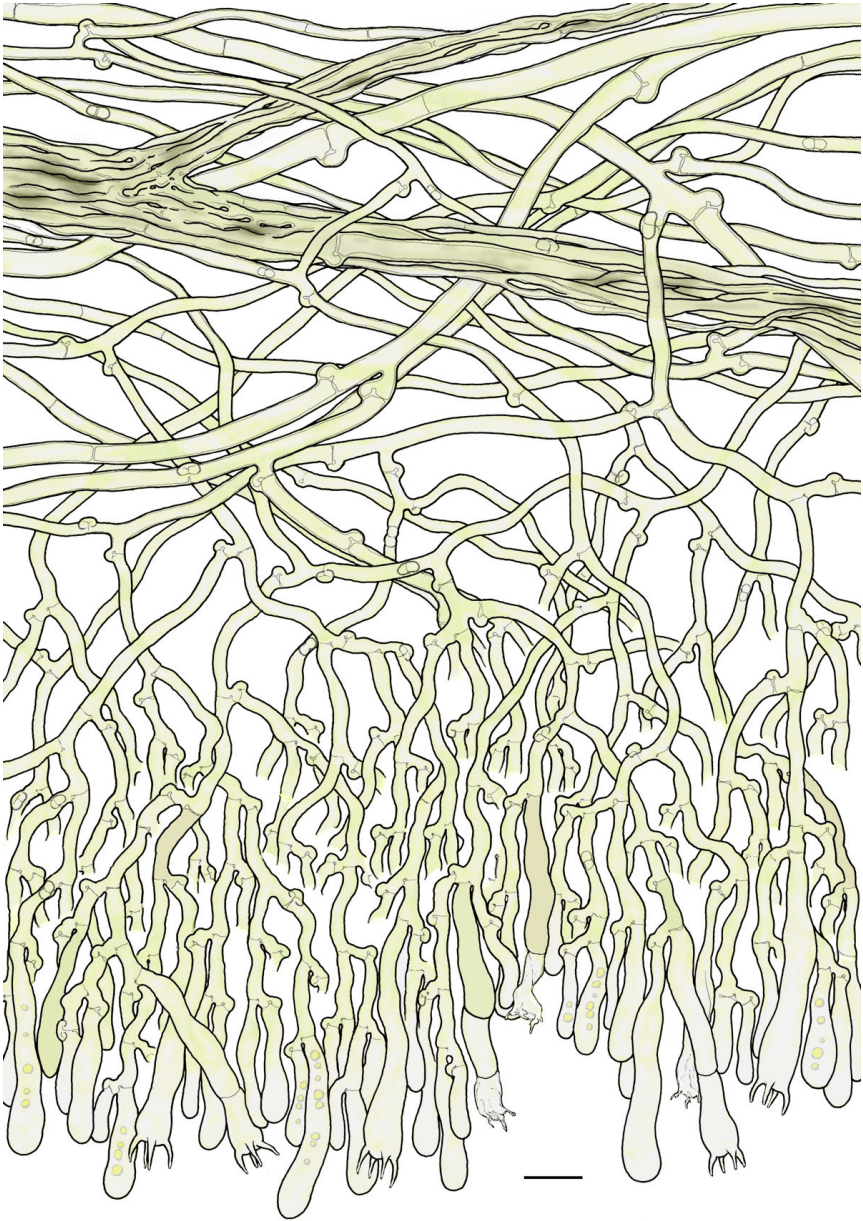


Fig. 6: Simplified vertical section through the basidiome, as mounted in KOH. Bar = 10  $\mu\text{m}$  [em-4274]

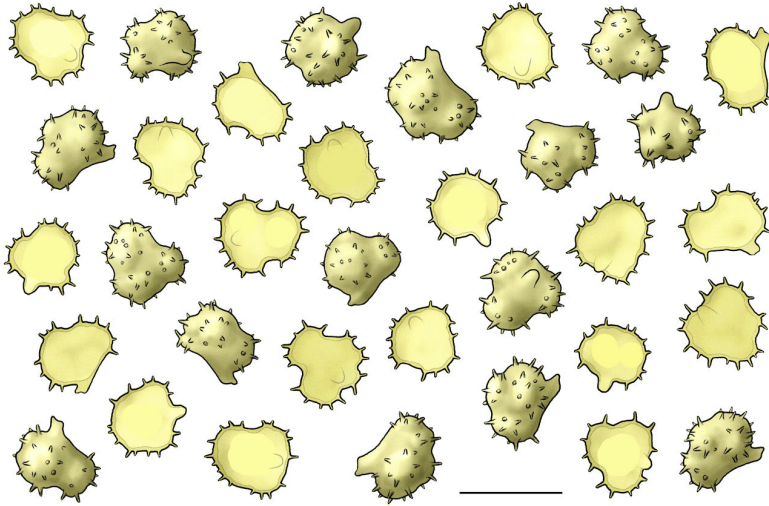


Fig. 7: Basidiospores. Bar = 10  $\mu$ m [em-9154]

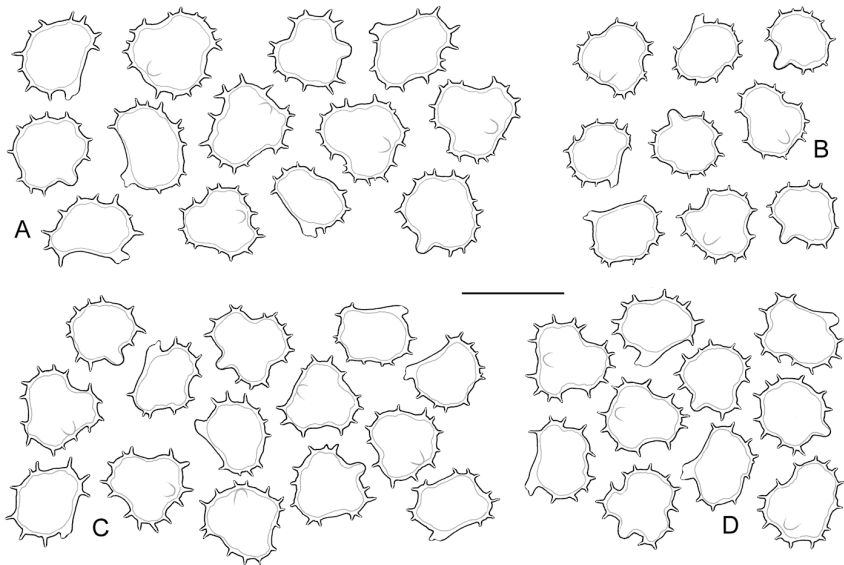


Fig. 8: A) ex isoneotype of *Thelephora punicea* Alb. & Schwein. - B) ex lectotype of *Tomentella rubiginosa* subsp. *liasicola* Bourdot & Galzin. - C) ex isotype of *Zygodermus chlorochaetes* Ellis. - D) ex (lecto)type of *Hypochnus elaeodes* Bres. Bar = 10  $\mu$ m



# Excerpts from *Crusts & Jells*

Descriptions and reports of resupinate Aphyllophorales and Heterobasidiomycetes

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