

***Psathyrella olympiana* A. H. Sm. 1941** in Contr. Univ. Mich. Herb. 5: 36

Daniel Deschuyteneer

**MycoBank:** 290052

**Basionym:** *Psathyrella olympiana* A. H. Sm. 1941 l. c.

**Original diagnosis:**

"Pileus 1-4 cm. latus, obtuse conicus vel convexus, demum subplanus vel umbonatus, glaber, striatulatus, rufoferruginus, hygrophanus, demum sordide subochraceus; lamellae adnatae, confertae, latae, pallide brunneae demum lividae; stipes 3-5 cm. longus, 2-5 mm. crassus, aequalis, fragilis, albidus, deorsum fibrillosus; sporae 7-9 (10) x 4-5 ; cheilocystidia et pleurocystidia 38-65 x 9-14  $\mu$ . Specimen typicum legit prope Jackson Guard Station, Olympic National Park, Washington, June 6, 1939, A. H. Smith, n. 14118, in Herb. Univ. Michigan conservatum."

**Type:** USA, Olympic National Park, Jackson Guard Station, 6 June 1939, Smith 14118 (MICH 11991)

**Synonyms**

*Drosophila olympiana* (A. H. Sm.) Kühn. & Romagn. 1953 in Fl. anal. Champ. sup.: 369 (not val. publ basionym not mentioned )

*Psathyrella olympiana* f. *amstelodamensis* (Kits van Wav.) Kits van Wav. 1985 in Persoonia, Suppl. 2: 169

*Psathyrella olympiana* f. *caespitosa* Kits van Wav. 1985 in Persoonia Suppl. 2: 170

*Psathyrella cloverae* A. H. Sm. 1972 in Mem. N. Y. bot. Gdn. 24: 248

*Psathyrella ferrugipes* A. H. Sm. 1972 in Mem. N. Y. bot. Gdn. 24: 129

*Psathyrella solitaria* A. H. Sm. 1972 in Mem. N. Y. bot. Gdn. 24: 256 & 257



[https://commons.wikimedia.org/wiki/File:Psathyrella\\_olympiana\\_\(21620427462\).jpg](https://commons.wikimedia.org/wiki/File:Psathyrella_olympiana_(21620427462).jpg)

Photo in situ **Andrey Gaverdovsky**, CC BY 2.0 <<https://creativecommons.org/licenses/by/2.0/>>, via Wikimedia Commons - 20/09/2015





Photo in situ Guillaume Eyssartier –





Photo in situ de Pascal Derboven, le 30-082019 ; Tontelange (B.)  
Sur tronc pourrissant de feuillus.  
Micro examinée par D. Deschuyteneer.





Photo in situ : Giuliano Ferisin.  
Sur un chemin dans une forêt de pins et feuillus le 04-11-2018.  
Micro examinée par D. Deschuyteneer.

## Macrocharacters:

**Cap** 10-45(70) mm broad, at first paraboloid with slightly incurved margin becoming flat convex, at times slightly umbonate, young dark reddish brown, older pale brown with light brown to ochraceous center, not striated except in mature stage translucently striate, when young covered with a thin layer of volatile radially arranged white fibrils or squamules from an outer veil or glabrous with at the margin a denser fibrils net and also sometimes triangular fragments of the partial veil that have remained appendiculated. Hygrophanous fading to sordid “pinkish buff” or dull dingy tan, the surface somewhat rugulose or strongly radially rugulose in old specimens when faded.

**Gills** relatively close, broad (about 3 mm), slightly ventricose, adnate, young grey brown, later dark grey brown, edge fimbriate white.

**Stipe** 20-60 x 2-7 mm, cylindric, hollow, white to pale brownish, fibrillose in the lower part, pruinose at top. **Flesh** of cap moderately thick (1-3mm), brown when moist, pallid when faded.

**Odor and taste** not distinctive but according to Örstadius gills when rubbed, smell like tomato or *Pelargonium* leaves.

**Habitat:** growing solitary, gregarious or caespitose on decaying trunks or stumps in deciduous forests, rarely with *Picea*. According to Legon and Henrici (2005) also growing on buried wood.

**Microcharacters:**

**Spores** 7,7-11,7 x 4-6 (-6,5)  $\mu\text{m}$ , Sp. av. 8,3-9,3 x 4,5-5  $\mu\text{m}$ ,  $Q_{\text{av}}=1,60-1,9$ , often irregular in outline, oblong, ellipsoid to ovoid in face view, often slightly phaseoliform in profile, germ pore central, small but distinct. In water and ammonia orange brown, in KOH dirty grey brown, not opaque.

**Basidia** 12-30 x 8-11  $\mu\text{m}$ , 4-spored, narrowly clavate.

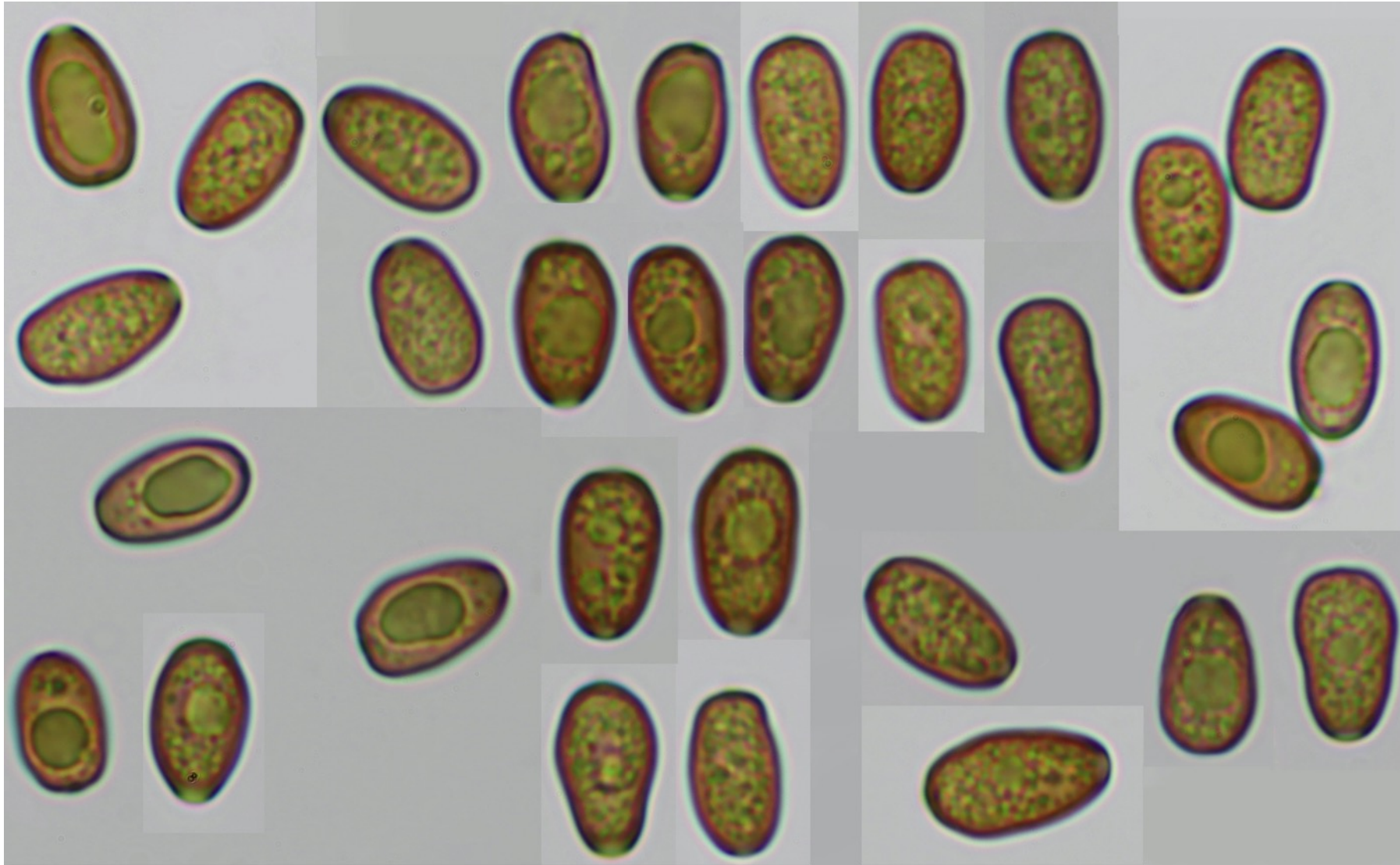
**Cheilocystidia** 27-45(60) x 8-20  $\mu\text{m}$ , very numerous and densely packed, mainly broadly versiform, usually not very clearly with thickened wall and crystals, often only with non-crystalline deposits. Undermixed with a few clavate and sphaeropedunculate paracystidia, 12,5-35 x 7,5-20  $\mu\text{m}$ .

**Pleurocystidia** (27-) 35,5-75 x 10-22  $\mu\text{m}$ , fairly numerous, versiform to broadly versiform, sub-utriform, pedicellate with obtuse apex, often with slightly to distinctly yellowish thick-wall (0,6-2,5  $\mu\text{m}$ ) along entire length, distinctly pale pinkish brown in  $\text{NH}_4\text{OH}$ , apex of most cells encrusted with a cap of crystals and/or crystalline granular material both dissolving in KOH 5% but not in  $\text{NH}_4\text{OH}$ .

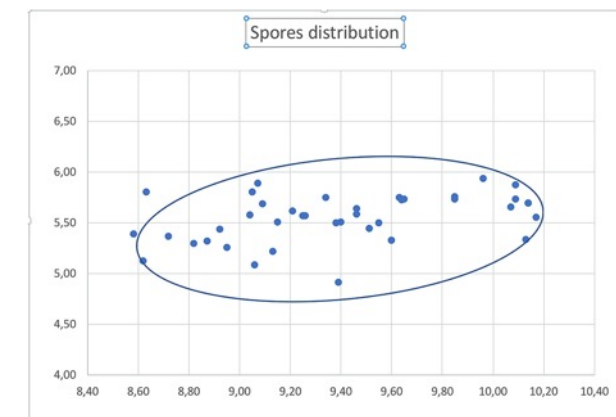
**Clamp** connections present.



# Spores from a collection of Andreas Melzer

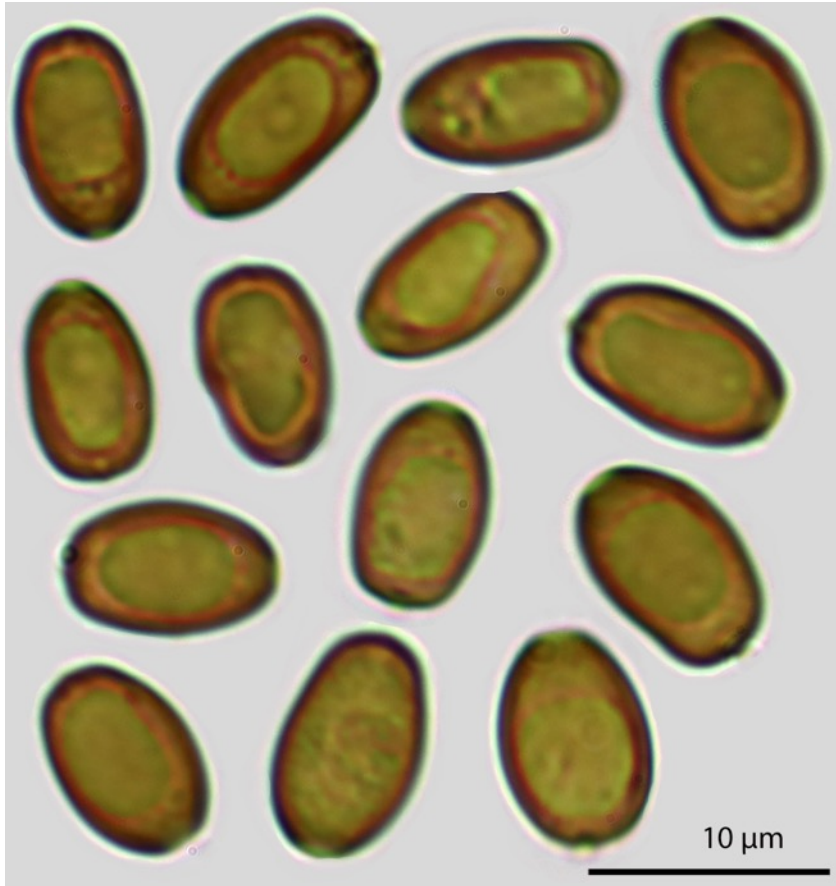


Basidia : 4-spored



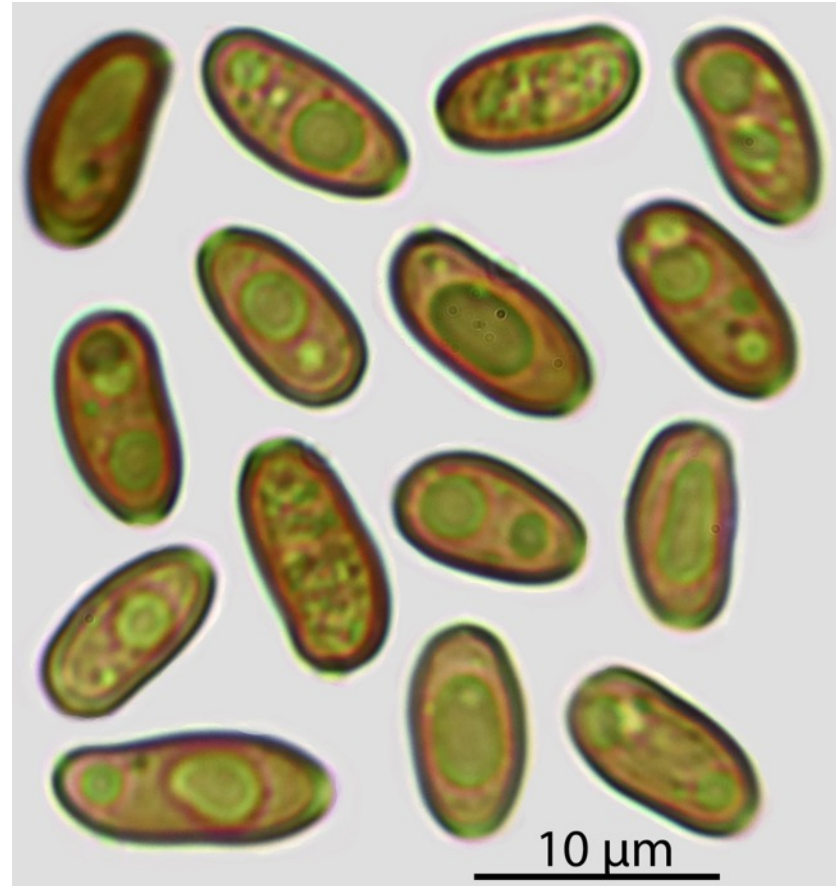


Spores G. Ferisin collection



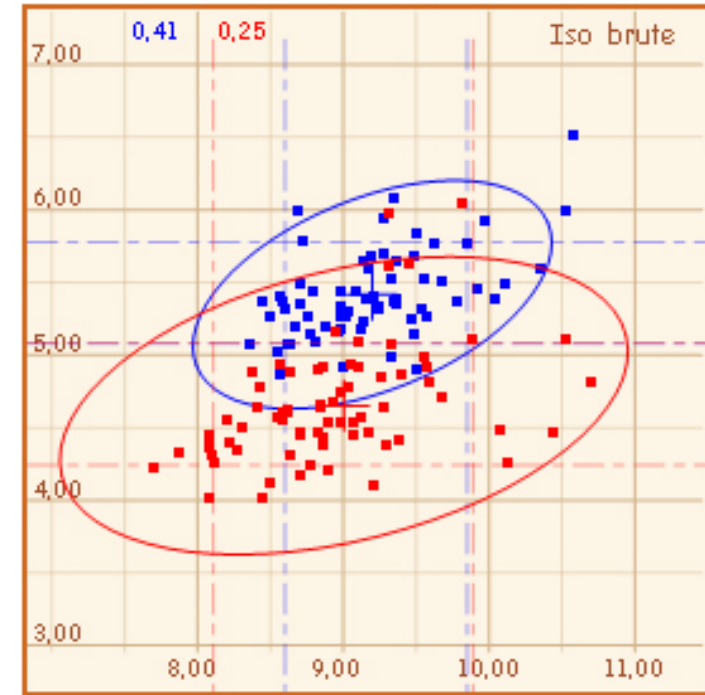
Piximètre : N = 70  
 (8,4) 8,6 - 9,8 (10,6) × (4,9) 5,1 - 5,9 (6,5) μm  
 Me = 9,2 × 5,4 μm  
 Q = (1,4) 1,6 - 1,8 (1,9) ; Qe = 1,7

Spores P. Derboven collection

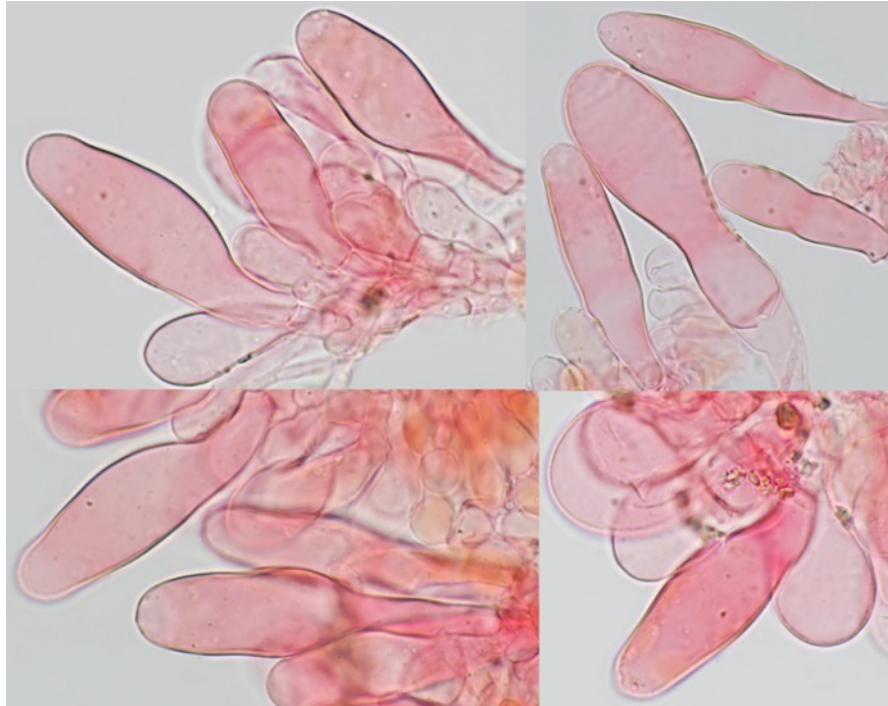
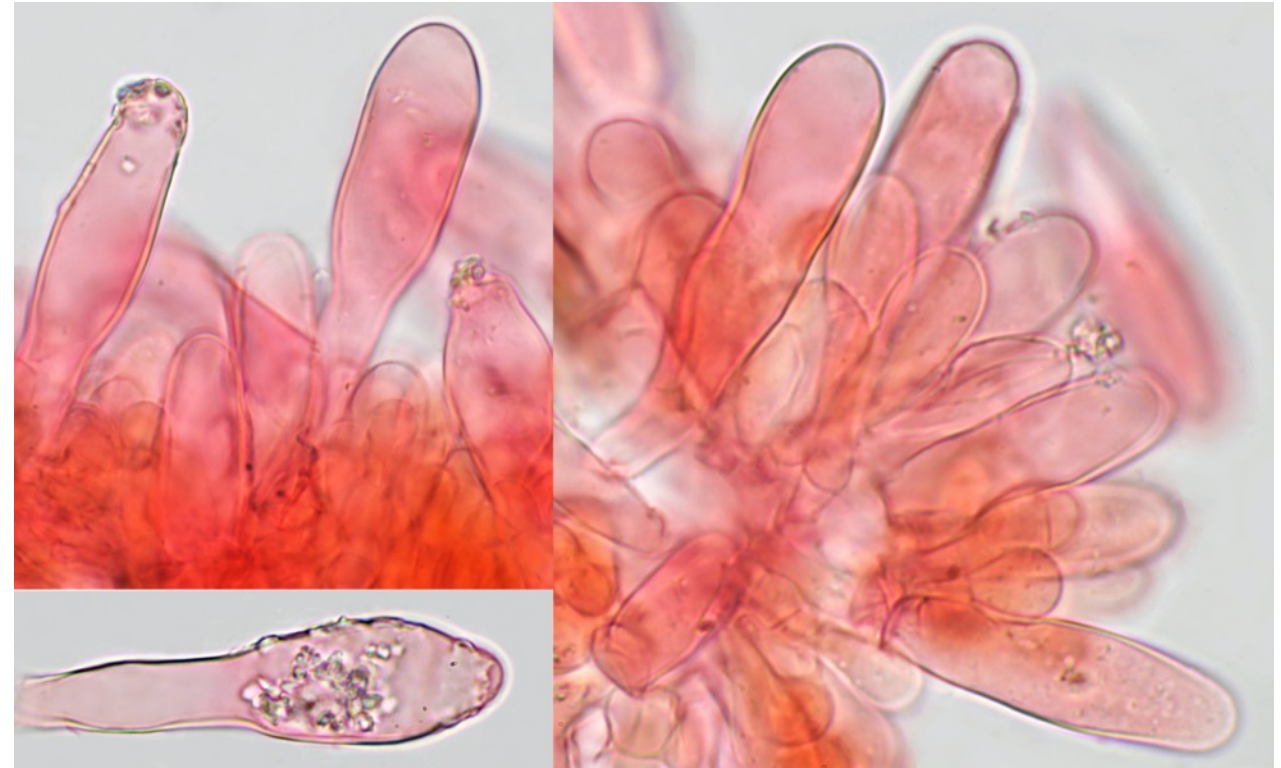
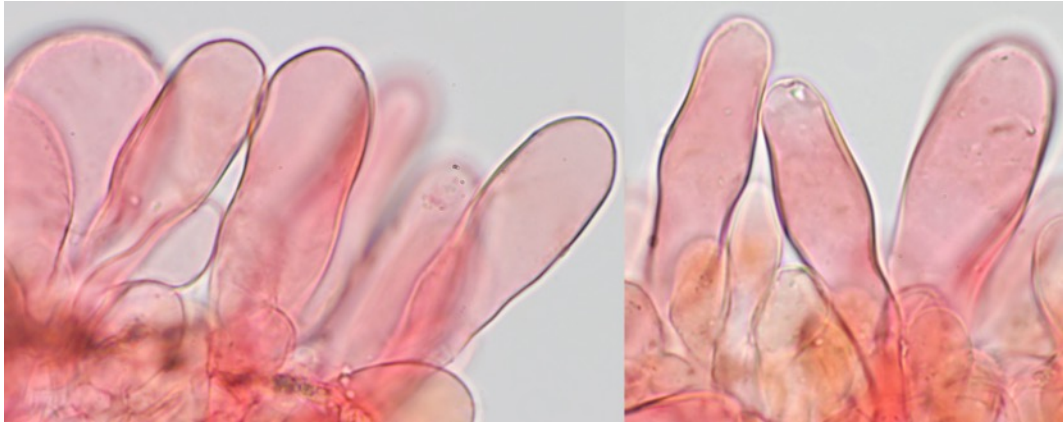


Piximètre : N = 74  
 (7,7) 8,1 - 9,9 (11,7) × (4) 4,2 - 5,1 (6) μm  
 Me = 9 × 4,7 μm ;  
 Q = (1,6) 1,8 - 2,1 (2,5) ; Qe = 1,9

Spores distribution diagram  
 Blue = Ferisin collection  
 Red = Derboven collection

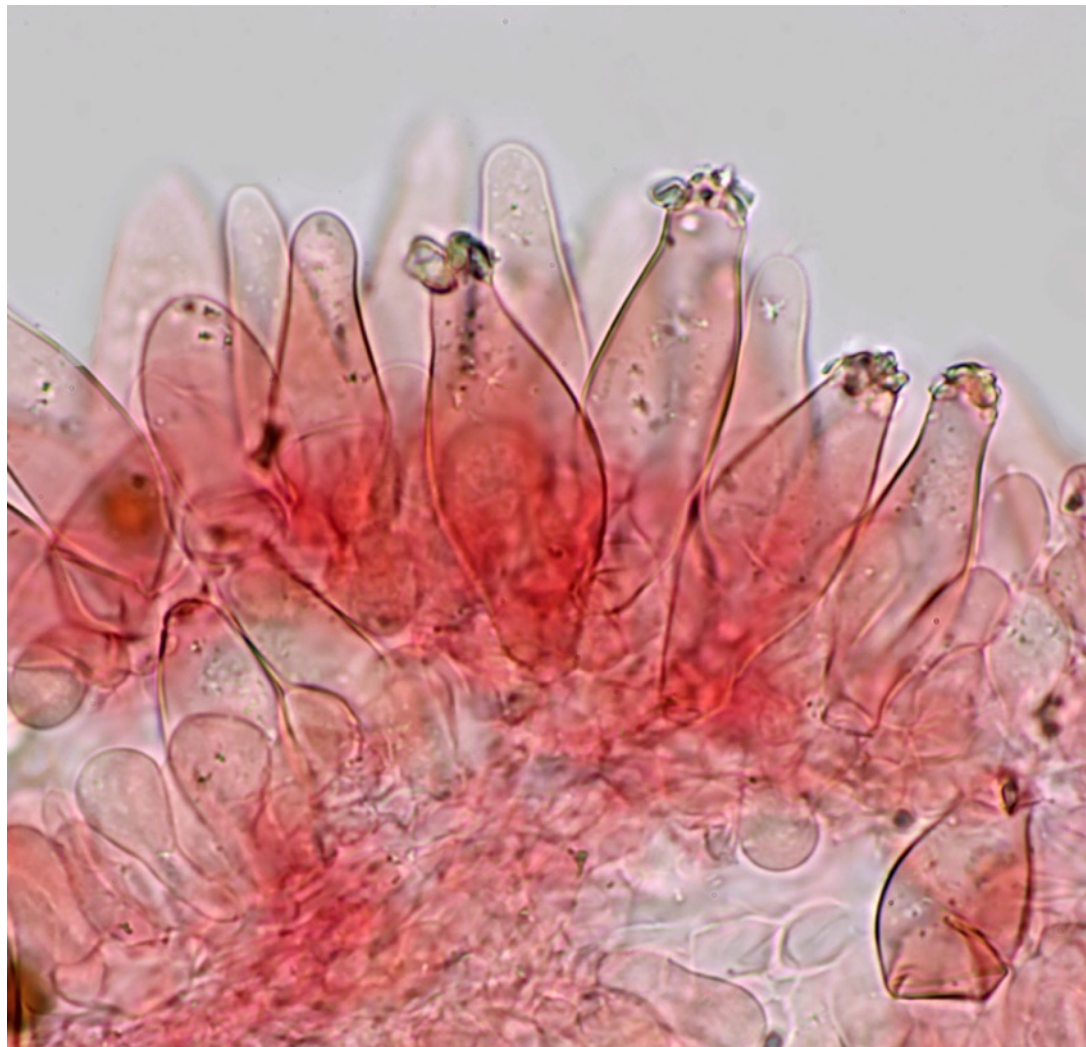


Cheilocystidia Melzer collection

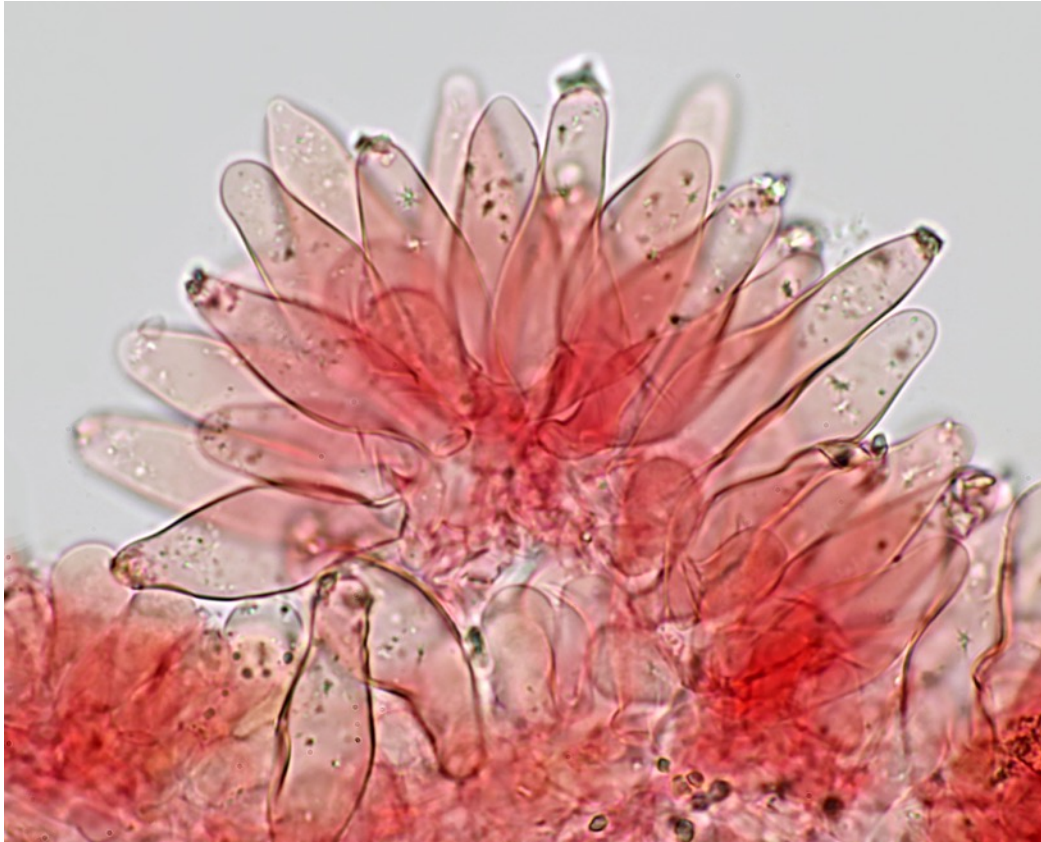




Cheilocystidia Ferisin collection

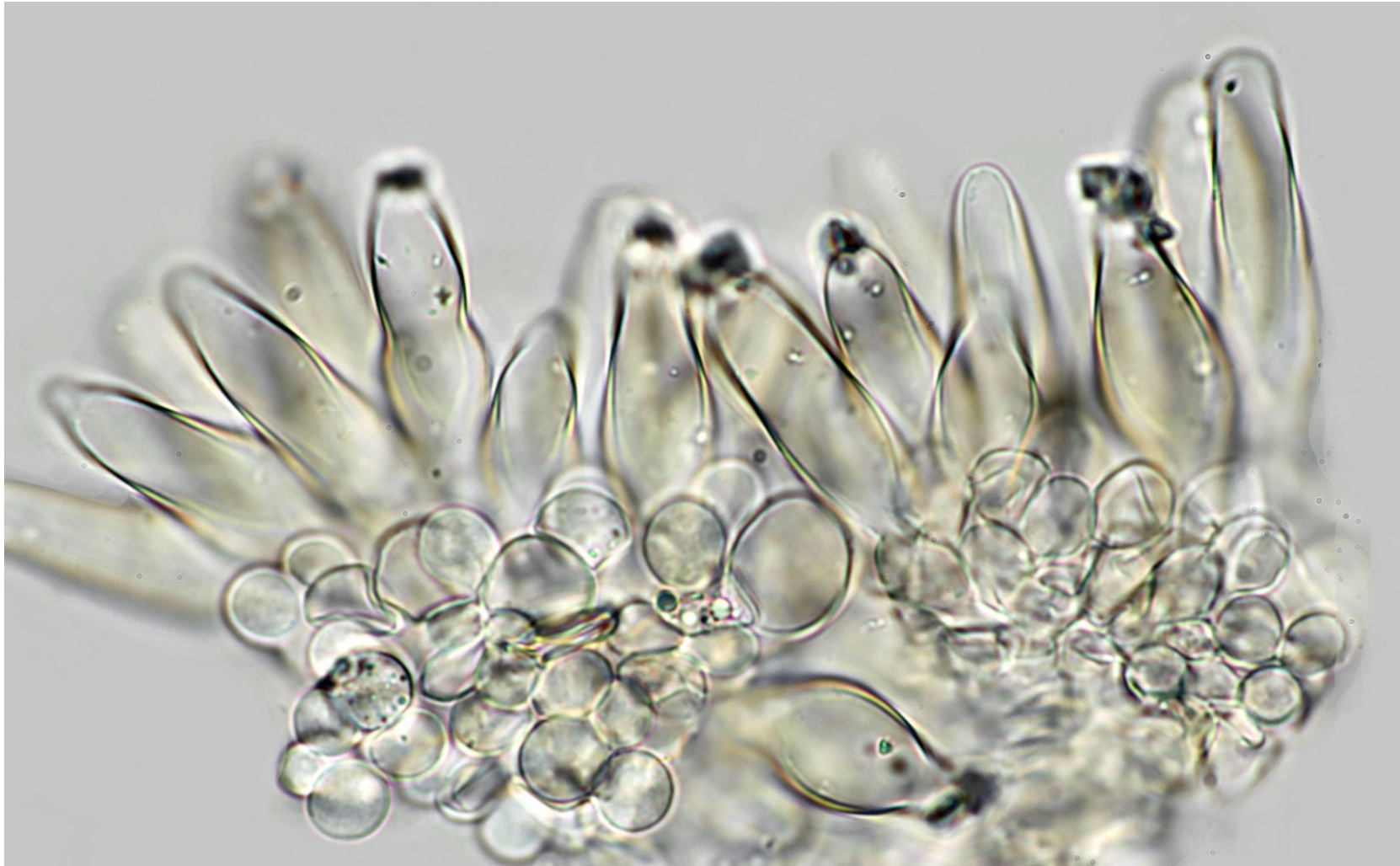


Cheilocystidia Ferisin collection

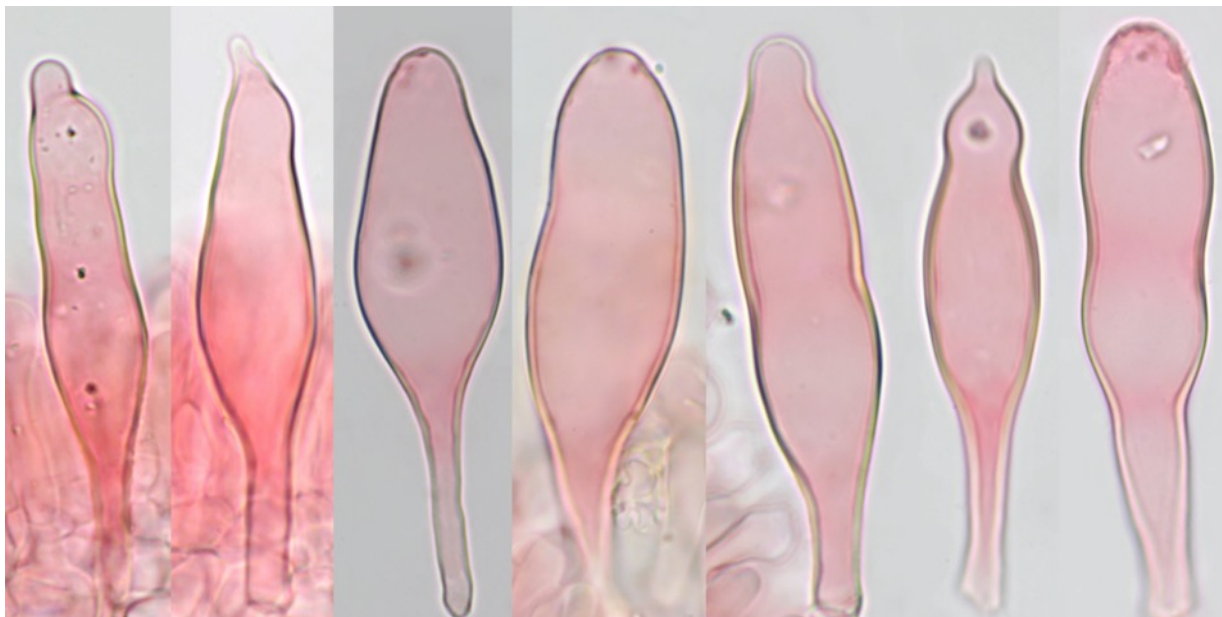
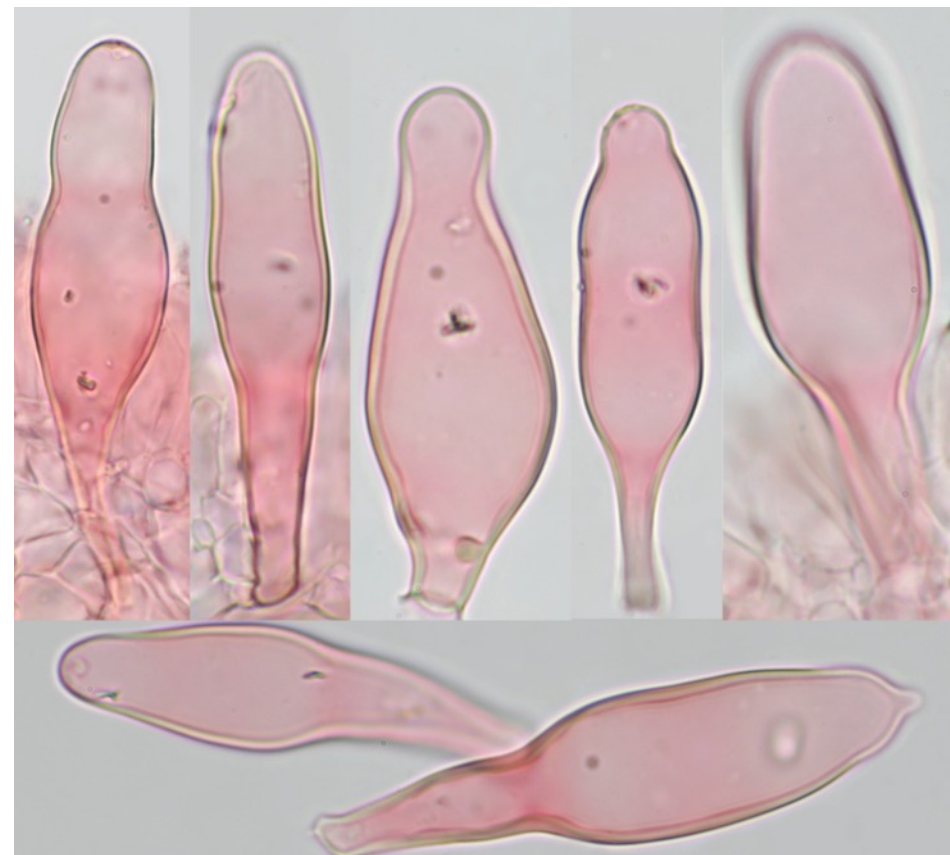
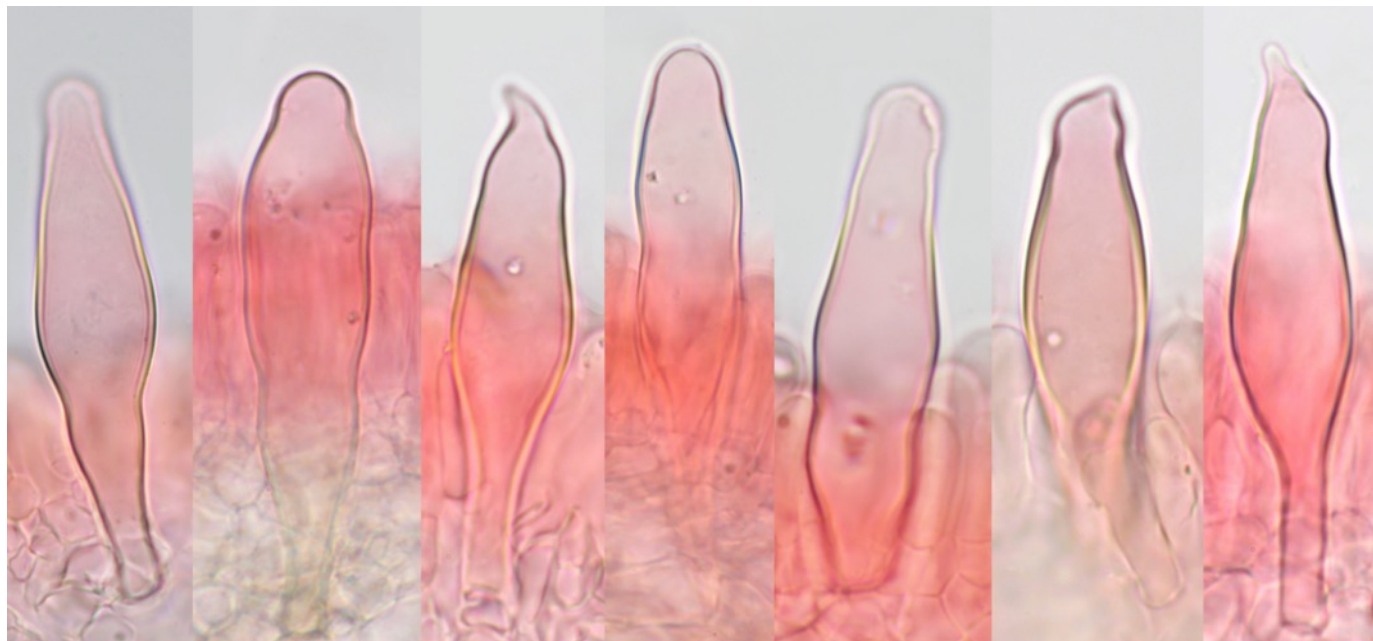




Cheilocystidia and paracystidia thick walled and slightly colored light brown in NH40H 10 %. The pinkish hue was missing Ferisin collection

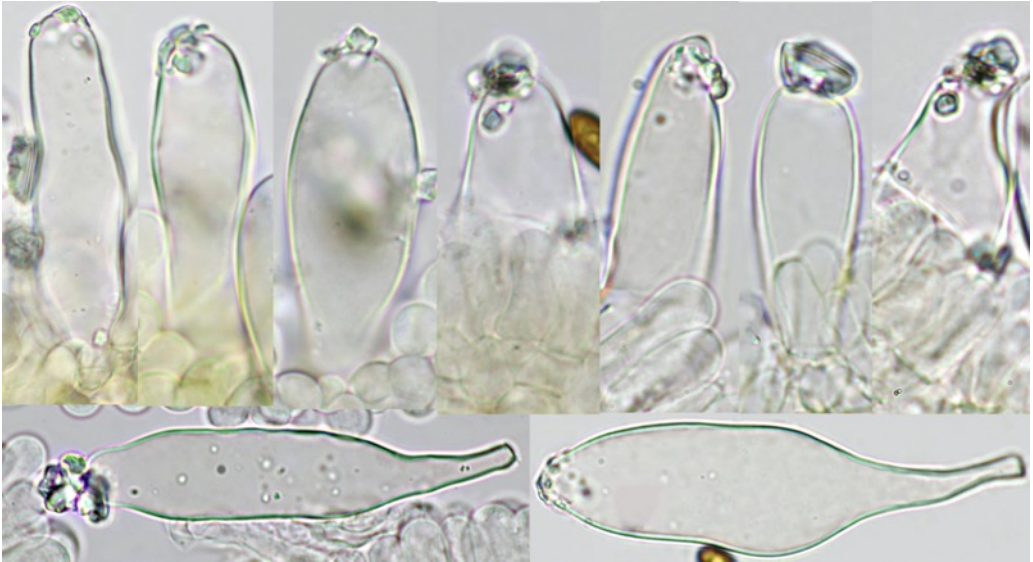
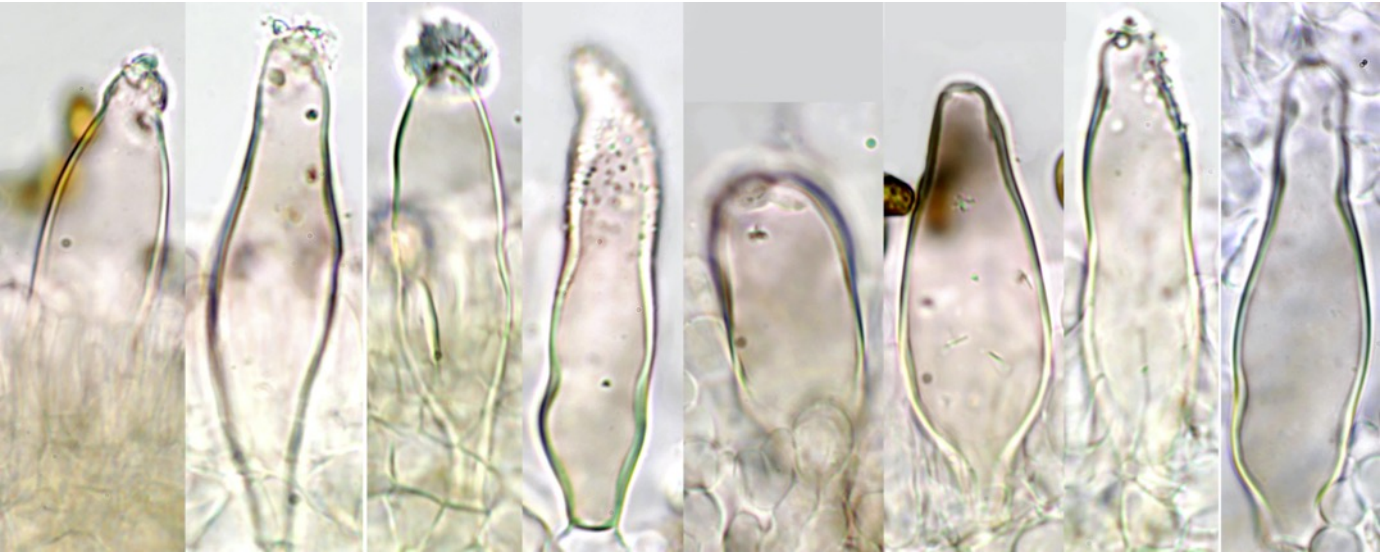


# Pleurocystidia Melzer collection

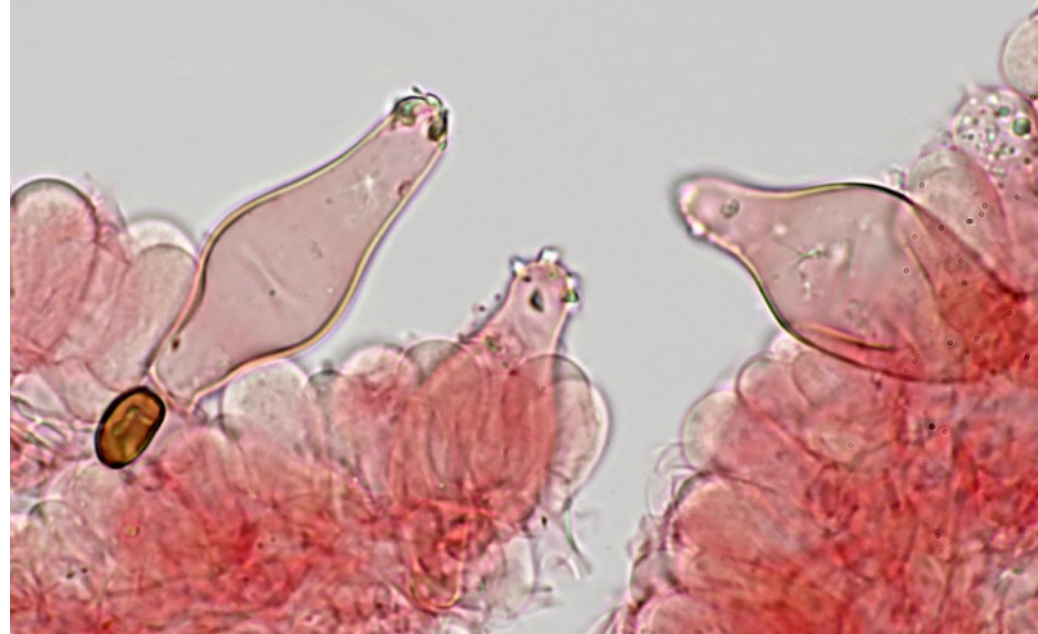
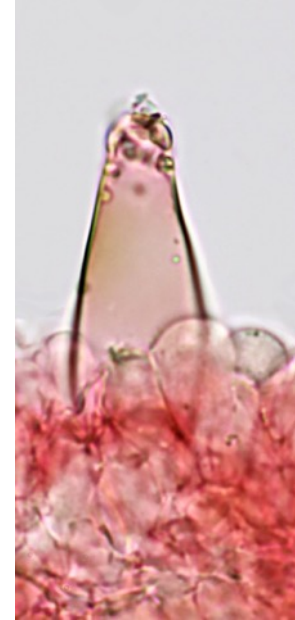




Pleurocystidia thick walled and slightly light brown colored in NH4OH 10 %, some with a pinkish hue. Melzer collection

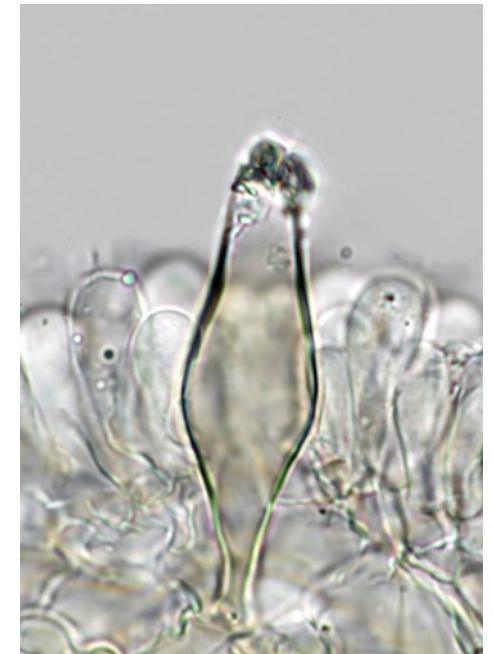
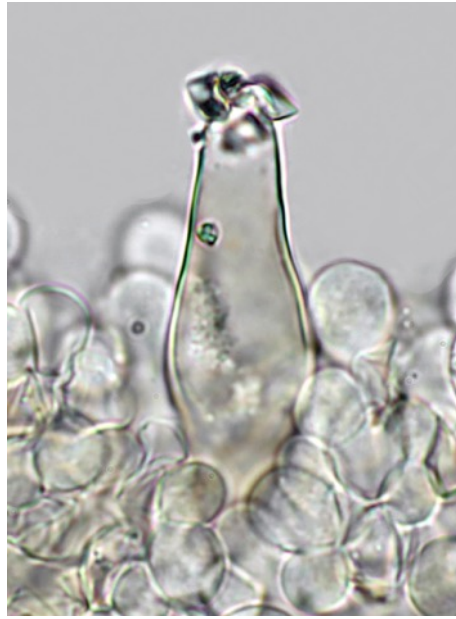


Pleurocystidia Ferisin collection





Pleurocystidia thick walled and slightly light brown colored in NH<sub>4</sub>OH 10 %. The pinkish hue was missing. Ferisin collection.



**Acknowledgements** to Derboven P., Eyssartier G., Ferisin G., Gaverdovsky A. & Melzer A., for the leg of their photos and/or exsiccata.

## **Literature**

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**Ørstadius & Knudsen**, 2008 – Funga Nordica : 600

**Smith**, 1972 - in Mem. N. Y. bot. Gdn : 36, 1972 - : 129 (as *P. ferrugipes*), : 248 (as *P. cloverae*), : 256 & 257 (as *P. solitaria*),

**Tassi**, 1997 - Bull. Soc. Mycol. France 113 : 329.

**Vasutová**, 2008 - Czech Mycol 60(2) : 154-156