

## Some interesting *Agaricales* fungi from Bosnia and Herzegovina

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### Parole chiave:

*Basidiomycota*

*Agaricomycetes*

*Strophariaceae*

*Psathyrellaceae*

Banja Luka, Prijedor

**Abstract:** Some interesting and rare basidiomycetes are described from collections from Bosnia and Herzegovina: *Pholiota pityrodes*, *Psathyrella ephemera* and *Psathyrella perpusilla*. Colour images of the fruitbodies and their main micro characters illustrate the species. Due to restrictions imposed by this non-EU country, the vouchers could not be sent to a laboratory for sequencing.

## INTRODUCTION

The first author, Trivič, is a passionate long-time student of the mushrooms of his region, Banja Luka, in Bosnia and Herzegovina. His mycological forays revolve mainly around the town of Prijedor and mount Kozara.

Recently, in collaboration with the second author, Voto, whom he met through the online forum of the journal Mycological Observations, Trivič could get to the identification of some of his critical findings. Due to connection difficulties between EU countries and Bosnia and Herzegovina, the material could not be sent to Voto for morphological study and molecular analysis.

Fresh basidiomes were photographed in situ; all data and images of microcharacters were obtained by D. Trivič from observations on fresh material. All collections are in D. Trivič personal herbarium.

***Pholiota pityrodes*** (F. Briganti) Holec

*Libri Botanici* 20: 84 (2001)





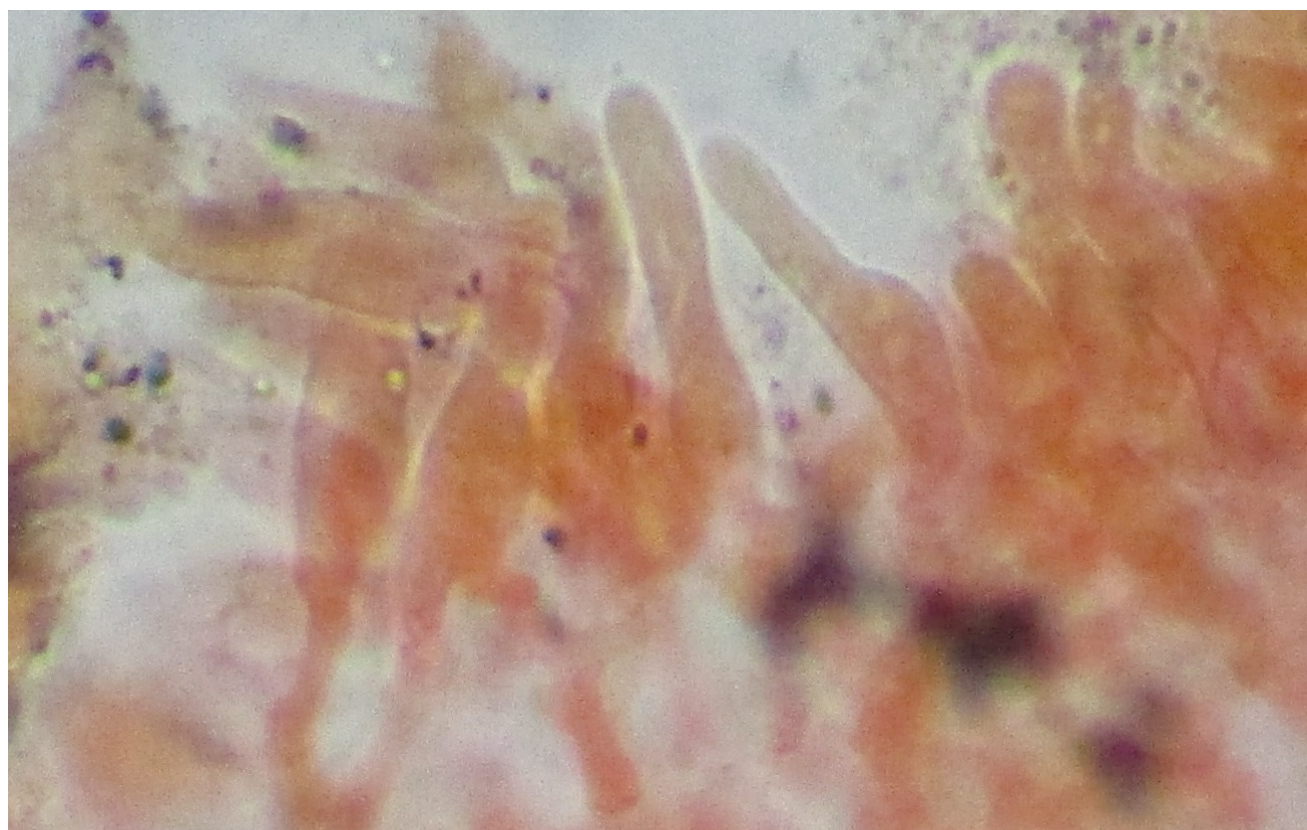
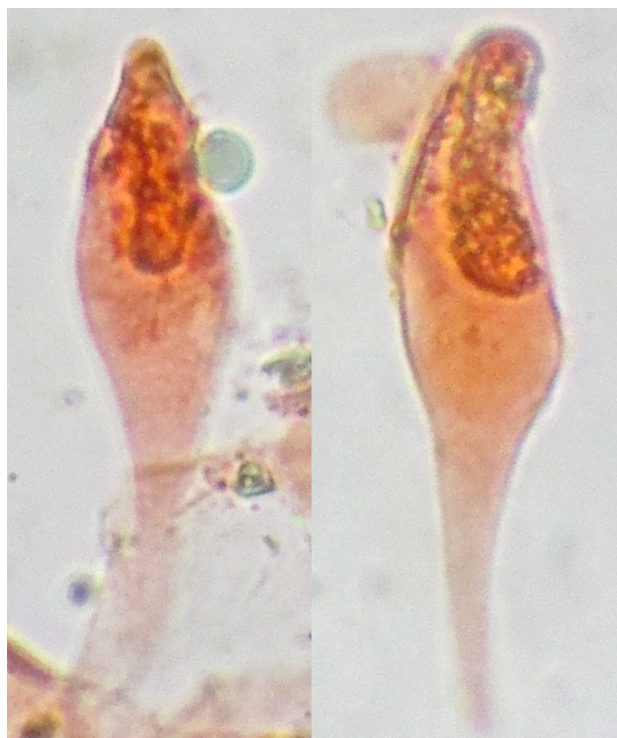




## BRIEF DESCRIPTION

Pileus 15 mm broad, subglutinous, convex, ochraceous brownish at center, more yellowish in periphery, with minute fibrillose scales. Stipe approx. 35 × 3 mm, subconcolorous, pale towards apex, with minute scales, strigose at base. Gills adnate to broadly adnate, at start whitish-greyish then yellowish.

Spores 6 – 7 × 2.8 – 3.2 μm, oblong in front view, subphaseoliform in side view, pale; germ pore present, central. Pleurocystidia utriform to fusiform, with long pedicel, with refractive inclusions (chrysocystidia). Cheilocystidia slenderly lageniform to subcylindrical, apex cylindric to slenderly swollen, not refractive. Collection examined: gregarious on culms of *Juncus* in a very moist meadow with abundance of *Juncus effusus* and *Carex* sp., Prijedor, 22.IX.2022. Reference consulted: Holec (2001).



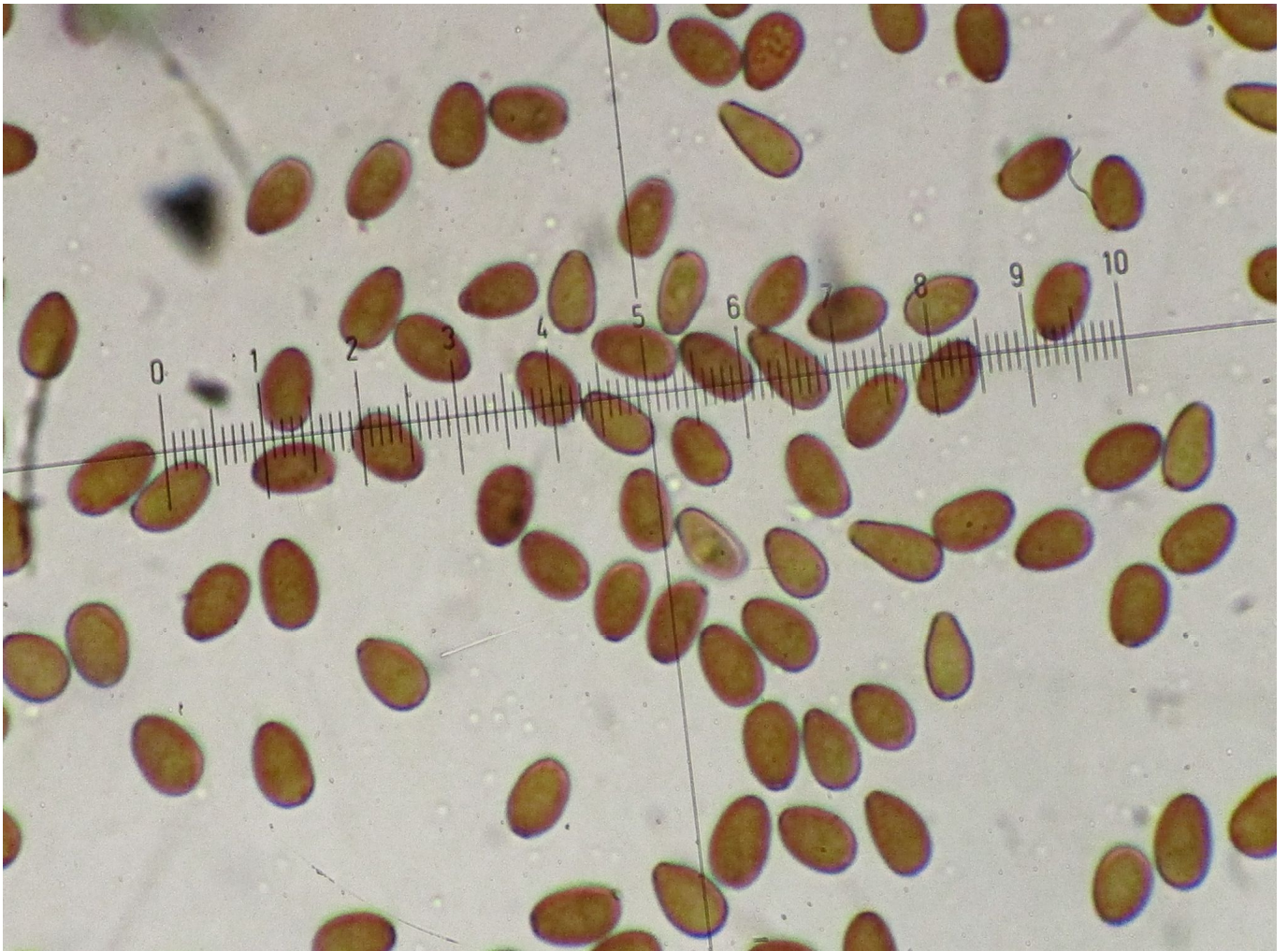
Above left: spores; above right: pleurocystidia; below: cheilocystidia



***Psathyrella ephemera*** A.H. Sm.  
*Memoirs of the New York Botanical Garden* 24: 358 (1972)







Above: spores; below: cheilocystidia



**BRIEF DESCRIPTION**

Pileus 25 – 30 mm, mostly hemispherical, brown quickly discoloring to orangish brown, hygrophanous, with fugacious remains of white general veil; margin appendiculate with distinct remains of white partial veil. Stem approx. up to 65 × 3 mm, white, with remains of a distinct white annular zone.

Spores 8.0 – 10.0 × 4.7 – 5.5 μm, oval to sometimes subangular in front view, adaxially flattened in side view, brown; germ pore central. Pleurocystidia utriform. Cheilocystidia utriform to sometimes lageniform, numerous, dominating; paracystidia inconspicuous. Clamp connections present.

Collection examined: gregarious on a stump of *Salix* sp. in a flooded area, Prijedor, 29.IX.2022.

Reference consulted: Voto (2023).



Pleurocystidium

***Psathyrella perpusilla*** Kits van Wav.

*Persoonia* 13(3): 354 (1987)



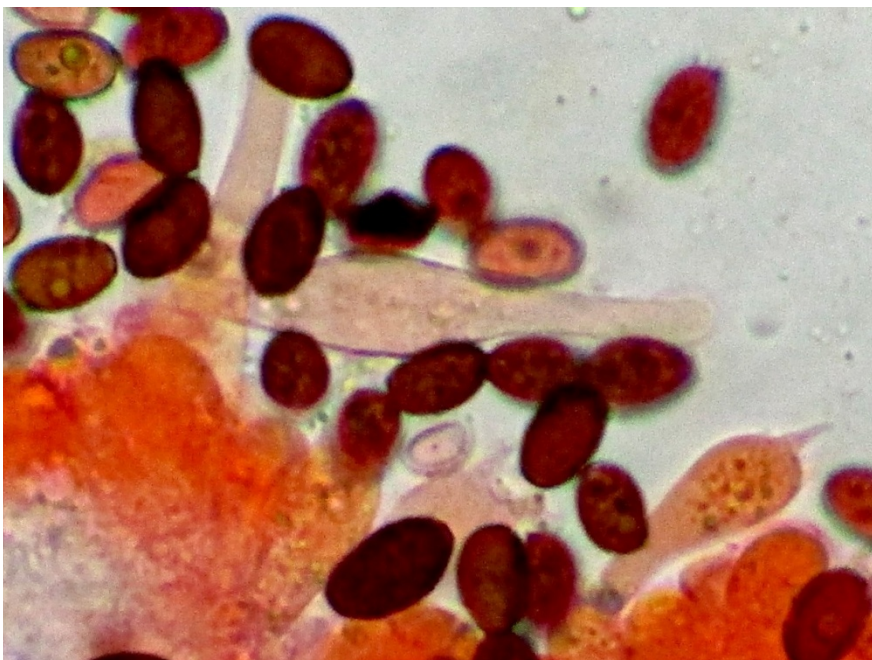




#### BRIEF DESCRIPTION

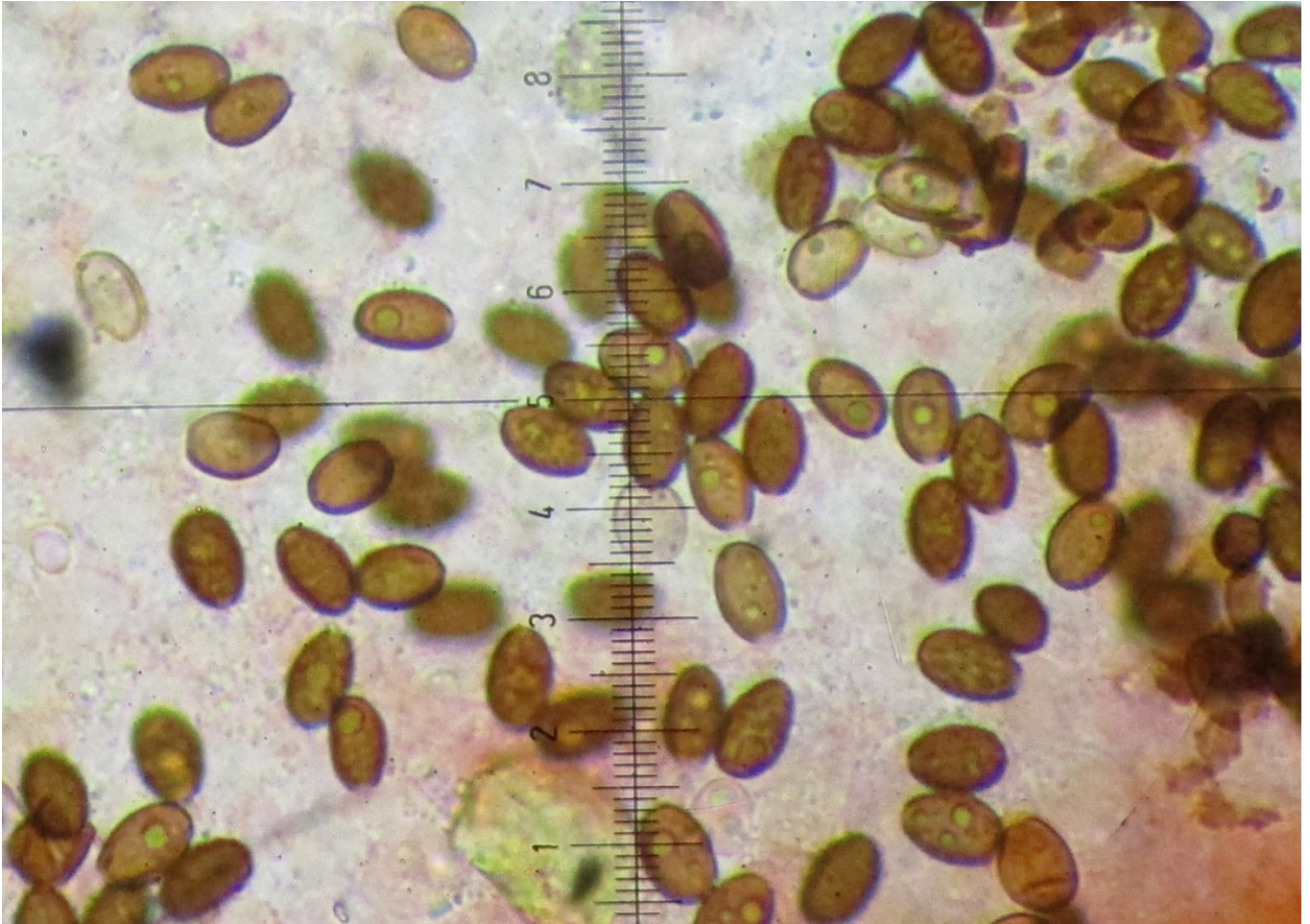
Pileus 4 – 7 mm broad, convex, margin becoming sulcate-striate, grey-brown with a more greyish peripheral half, hygrophanous; veil of scattered, minute remains. Gills adnate, distant, pale then dark brown. Stipe 9 – 31 × 0.7 – 1.3 mm, cylindraceous with a swollen base, white in upper half, dirty white in lower half.

Spores 8 – 9 × 5.5 – 6.5 μm, elliptic to oval in front view, elliptic to adaxially flattened in side view, brown; germ pore broad, central. Basidia 2-spored. Pleurocystidia 33 – 60 × 7.5 – 12.5 μm, lageniform. Cheilocystidia 22 – 35 × 7.5 – 12 μm, lageniform. Collection examined: gregarious on sticks and leaves of *Populus* in an alluvial area, Prijedor, 27.IX.2022. Reference consulted: Voto (2023).



Left: basidia and pleurocystidia; right: pleurocystidium





Spores

## REFERENCES

- Holec J (2001) The genus *Pholiota* in central and western Europe. *Libri Botanici* **20**:1–220
- Voto P (2023). Key to *Psathyrellaceae*. A.M.E.R. Onlus, *Associazione Micologica Ecologica Romana*.  
[https://www.ameronlus.it/documenti/Key\\_to\\_Psathyrellaceae.xlsx](https://www.ameronlus.it/documenti/Key_to_Psathyrellaceae.xlsx) (last accessed on January 5, 2022)