

LENTINUS CLITOCYBOIDES HENNINGS IS A RUSSULA

Annemieke VERBEKEN, Bart BUYCK (*), Ruben WALLEYN (**)

Vakgroep Morf., Syst. & Ecol., Groep Plantkunde,
Universiteit Gent, Ledeganckstraat 35, B-9000 Gent, BELGIUM
(*) Laboratoire de Cryptogamie, Muséum National d'Histoire naturelle,
12 Rue Buffon, F-75005 Paris, FRANCE
(**) National Botanic Garden Belgium, Domein van Bouchout
B-1860 Meise, BELGIUM

SUMMARY — *Lentinus clitocyboides* Henn. is found to be conspecific with *Russula subfistulosa* var. *apsila*. The new combination *Russula clitocyboides* (Henn.) Verbeken & Buyck comb. nov. is proposed.

RÉSUMÉ — *LENTINUS CLITOCYBOIDES* HENNINGS EST UNE RUSSULE. Il est établi que *Lentinus clitocyboides* Henn. et *Russula subfistulosa* var. *apsila* sont conspécifiques. La nouvelle combinaison *Russula clitocyboides* (Henn.) Verbeken & Buyck comb. nov. est proposée.

INTRODUCTION

Hennings (1902) described *Lentinus clitocyboides* as a lignicolous agaricoid fungus with a macroscopical resemblance to *Clitocybe sessilis* Fr.. The holotype with the accompanying water colour of *Lentinus clitocyboides*, deposited at B, was later examined by Pilát (1936: 112) who provided a revised description. Pilát suggested that *Pleurotus* might be a more appropriate genus for this species because of the thin-walled hyphae and the entire edge of the lamellae. The holotype is now lost, probably destroyed by the fire of 1943 at B, and Pegler (1983: 229) studied the isotype collections deposited at PC and K for his world monograph of the genus *Lentinus*. He suggested that the material probably represents a *Lactarius* because of the typical amyloid spore ornamentation.

RESULTS

Our study of both isotypes confirms that the material represents a member of the *Russulaceae*, but since no pseudocystidia (sensu Buyck, 1991) are present in the hymenium *Lentinus clitocyboides* belongs obviously to *Russula* (Fig.1). It is identical to *Russula subfistulosa* var. *apsila* described by Buyck (1990) in his revision of the genus *Russula* in tropical Africa. The following new combination is thus proposed:

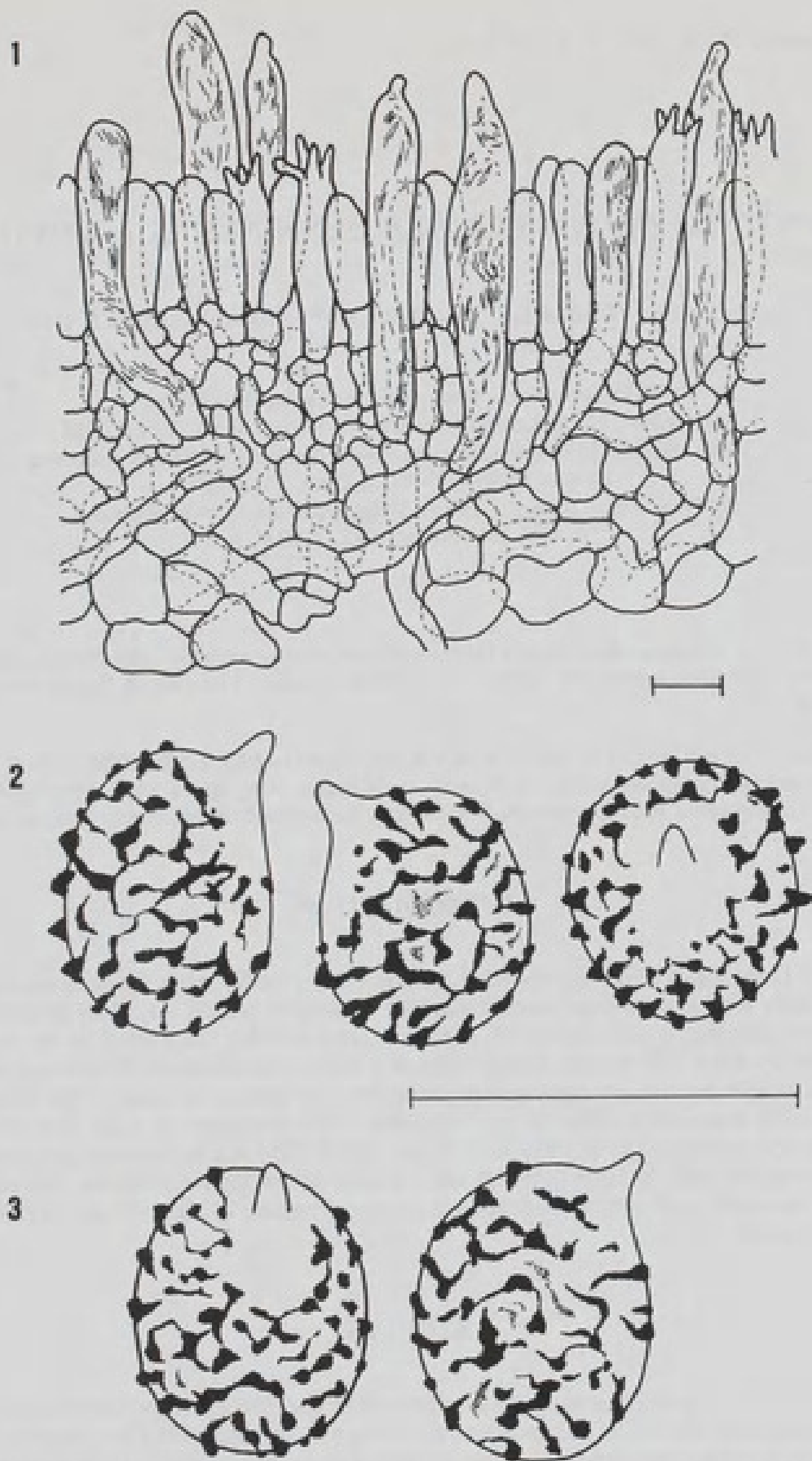


Fig. 1-3: *Russula clitocyboides*: 1. Hymenium, subhymenium and trama (Watling 24176); 2. spores (Zenker 1899); 3. spores (Watling 24176); bar = 10 μ

Russula clitocyboides (Henn.) Verbeken & Buyck comb. nov. — fig. 1-3.
 basionym: *Lentinus clitocyboides* Henn., Bot. Jahrb. Syst. 30: 45 (1902).
 syn.: *Russula subfistulosa* Buyck var. *apsila* Buyck, Bull. Jard. Bot. Belg. 60: 193 (1990).
 illustr.: Buyck 1993: 385, fig. 242, plate 60.2, as *R. subfistulosa* var. *apsila*; scale of water colours = "x 2", not "x 1" as indicated)

Revised description

Pileus 4-6 cm diam., firm, depressed to almost applanate, sometimes umbilicate; pellis mat, humid but never viscid, non-hygrophanous, sometimes slightly squamulose, brownish grey to dark snuff brown, darkening towards margin, becoming milky coffee-coloured when older. *Stipe* 3-5 x 0.5-1 cm, solid, becoming more or less fistulous when older, cylindric, finely felty, greyish brown, dull pale snuff brown. *Lamellae* slightly decurrent, narrow (1 mm), pale cream-colour to pale greyish or yellowish grey; edge entire. *Context* white, slowly and slightly reddish just underneath the stipitipellis. Spore print colour unknown.

Spores ellipsoid, ornamentation of obtuse warts usually aligned in short ridges or connected by fine lines into a very partial to almost complete reticulum, 5.9-6.8-7.3-8.1 x 5.0-5.7-6.2-6.7 μ m (Q = 1.11-1.17-1.19-1.23 (1.32)); suprahilar plate distinct, not amyloid. For other microscopic features see Buyck (1993).

Distribution

Cameroon: CENTRAL SOUTHERN PROV., Bipindi, on rotten wood, Sept. 1898, Zenker 1899 (isotypi K, PC); SOUTH WESTERN PROV., Korup Nat. Park, near Mundema, rainforest, transect P, 33-50 m alt., March 1991, Watling 24176 (E, as *Lactarius pellucidus*); ibid., transect P from river Mara, March 1991, Watling 24208 (E, as *Lactarius phlebonemus* f. *brunneus*).

Zaire: EQUATOR PROV., Binga, 300 m alt., drier rainforest with *Gilbertiodendron deweyrei*, Sept. 1938, Goossens-Fontana 2099c et icon. (holotypus *Russula subfistulosa* var. *apsila*, BR); UPPER KATANGA PROV., Kipopo, between debris on soil in dry evergreen forest ('Muhulu'), March 1959, Schmitz-Levecq 123 (BR, as *Lactarius* sp.).

DISCUSSION

1. The short diagnoses published by Hennings and Buyck for this taxon are here supplemented with field data from Watling. The description of *Russula subfistulosa* var. *apsila* was based on an aquarel not accompanied by field notes.

As the specific epithet suggests, the habit of *Russula clitocyboides* reminds one of *Clitocybe*-like agarics because of the strongly depressed cap and the numerous, decurrent lamellae. More specifically, *Russula clitocyboides* resembles *Pseudoclitocybe*

cyathiformis (Bull.: Fr.) Singer according to Watling's field notes or *Clitocybe sessilis* according to Hennings. This clitocyboid habit combined with the brittle nature, so typical of the heteromerous context of Russulales, explains why this *Russula* is often taken in the field for a *Lactarius*, in spite of the absence of latex.

2. *Russula clitocyboides* belongs to section *Fistulosae* subsection *Fistulosinae* R. Heim ex Singer. The species especially differs from *R. subfistulosa* Buyck in the much darker basidiomata with a strongly depressed cap and decurrent lamellae. Also the ecology of both species is very different: *Russula clitocyboides* occurs in the dryer parts of the *Gilbertiodendron dewevrei* rain forest and in dry evergreen forest ('muhulu'), whereas *R. subfistulosa* is only known from *Brachystegia* woodland ('miombo').

collection	length x width (µm)	length/width ratio
Zenker 1899	6.0-6.9-7.8 x 5.2-5.8-6.7	1.11-1.17-1.25
Watling 24208	(6.3)6.5-7.3-8.1 x 5.6-6.2-6.7	1.08-1.18-1.32
Watling 24176	5.9-6.8-7.8 x 5.0-5.7-6.5	1.11-1.18-1.30
Goos.-Font. 2099c	6.6-7.1-7.8 x 5.5-5.9-6.5	1.12-1.19-1.23
total (n=80)	6.2-7.0-7.9 x 5.3-5.9-6.6	1.10-1.18-1.28

Table 1. Comparison of spore measurements for individual collections (based on 20 spores/specimen, Q = length/width ratio).

Table 1. Comparison of spore measurements for individual collections (based on 20 spores/specimen, Q = length/width ratio).

ACKNOWLEDGEMENTS — We express our sincere gratitude to the directors and curators of the Herbaria of Edinburgh (E), Kew (K), Meise (BR) and Paris (PC) for the loan of the specimens. The National Foundation for Scientific Research (N.F.W.O., Belgium) is acknowledged for funding the research of A. Verbeke.

REFERENCES

- BUYCK B., 1990 — Nouveaux taxons infragénériques dans le genre *Russula* Persoon en Afrique centrale. *Bulletin du Jardin Botanique National de Belgique* 60: 191-211.
- BUYCK B., 1991 — The study of microscopic features in *Russula*. 2. Sterile elements of the hymenium. *Russulales News* 1: 62-85.
- BUYCK B., 1993 — *Russula* I (Russulaceae). IN: J. RAMMELOO & P. HEINEMANN (Eds.), *Fl. III. Champignons Afrique Centr.* 15: 335-408, pl. 55-68.
- HENNINGS P., 1902 — Fungi camerunenses novi III. *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 30: 39-57.
- PEGLER D. N., 1983 — the genus *Lentinus*, a world monograph. *Kew Bulletin. Additional series* 10: 1-281.
- PILAT A., 1936 — Revision der tropischen *Lentinus*-Arten aus dem Herbar des Botanischen Museums in Berlin-Dahlem. *Annales mycologici* 34: 108-140.



Verbeken, A, Buyck, B, and Walley, R. 1996. "Lentinus clitocyboides Hennings is a Russula." *Cryptogamie. Mycologie* 17(1), 7–10.

View This Item Online: <https://www.biodiversitylibrary.org/item/290172>

Permalink: <https://www.biodiversitylibrary.org/partpdf/354439>

Holding Institution

Muséum national d'Histoire naturelle

Sponsored by

Muséum national d'Histoire naturelle

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: Muséum national d'Histoire naturelle

License: <http://creativecommons.org/licenses/by-nc-sa/4.0/>

Rights: <http://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.