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THE MYCOLOGICAL FLORA OF THE NATURE RESERVE "BOSCO ROCCONI"  
(ITALY, SOUTHERN TUSCANY):

A CONTRIBUTION. 9<sup>TH</sup> PART. ADDENDA ET CORRIGENDA

**Abstract**

Here we report the list of species from Bosco Rocconi, collected and identified in the last few years. In addition, some taxonomic corrections are also reported for previously published taxa. Among the most interesting species, *Tephroderma fuscopallens*, a newly described tricholomatoid species, so far reported only from France and Turkey, was found in the reserve. A total of 465 species of Agaricomycetes was collected in the reserve.

**Riassunto**

Negli ultimi cinque anni, ulteriori indagini ci hanno consentito di reperire varie nuove specie a "Bosco Rocconi" (GR). Inoltre è presentata una serie di correzioni delle determinazioni riportate negli articoli precedenti. Tra le specie più interessanti, abbiamo il ritrovamento di *Tephroderma fuscopallens*, una specie del clade tricolomatoide nuova per l'Italia, finora trovata solo in Francia e in Turchia. Il totale delle specie determinate sale così a 465 taxa.

8<sup>th</sup> part: (CLERICUZIO, 2019).

**CORRIGENDA**

1. *Cantharellus cibarius* Fr. becomes *Cantharellus pallens* Pilát (= *C. subpruinus* Eyssart. & Buyck)

Common and widespread *C. cibarius* turned out to be a collective species (EYSSARTIER & BUYCK, 2000). The binomial *C. cibarius* should be maintained only for a species growing in boreal habitats, as montane *Fagus* or *Picea* forests.

62. *Hohenbuehelia auriscalpium* (Maire) Singer

This entry should be deleted: our finding at Rocconi was very likely only a form of the more common *H. geogenia* (DC.) Singer [number 63, present name: *Hohenbuehelia petaloides* (Bull.) Schulz.].

113. *Hemimycena delectabilis* (Peck) Singer becomes *Hemimycena crispata* (Kühner) Singer

A successive finding of true *H. delectabilis* in a different site of the province (Follonica, Poggio tre cancelli), has convinced us that this determination was incorrect. N. 113 corresponds to *H. crispata*, a not rare species in Central Italy.

154. *Pseudoclitocybe obbata* (Fr.) Singer becomes *Pseudoclitocybe cyathiformis* (Bull.) Singer

Molecular studies have demonstrated that this collection belongs to more common *P. cyathiformis* (VIZZINI ET AL., 2011). *P. obbata* was found by ourselves in another site of the Grosseto province (Scansano).

171. *Tricholoma ustale* (Fr.) P. Kumm.

This species should be deleted from the list: the Rocconi findings must all be assigned to *Tricholoma quercetorum* Contu (n. 165).

206. *Agaricus stramineus* Schäff. & Möller becomes *Agaricus crocodilinus* Murrill

Spanish mycologist PARRA SÁNCHEZ (2013) definitely demonstrated that *A. stramineus* is only a form of *A. urinascens* (Schäff. & Möller) Singer (present name: *A. crocodilinus*).

269. *Hebeloma collarium* Bruchet becomes *Hebeloma dunense* Corb. & Heim

After the monumental work by BEKER ET AL. (2016), a great clarity could be achieved for the European species of this difficult genus. In particular, *H. dunense* is the correct name for both *H. collarium* and *H. subcaespitosum* Bon.

274. *Hebeloma* cfr. *perpallidum* Moser becomes *Hebeloma eburneum* Malençon

*H. eburneum* is the correct name for *H. perpallidum* (BEKER ET AL., 2016).

328. *Cortinarius platypus* M.M. Moser (M.M. Moser) becomes *Cortinarius lilacinovelatus* Reumaux & Ramm

The Rocconi specimens were assigned to *C. lilacinovelatus*, after a more thorough study. In addition, the morphological identity of the taxon *C. platypus* has gone through a marked change, after recent molecular studies (LIIMATAINEN ET AL., 2014).

313. *Cortinarius basiroseus* Pears. ex Orton becomes *Cortinarius griseovioleipes* Moënné-Loec. & Reumaux

A color photo and description appeared on *Cortinarius ibero-insulares* (GRUPO IBERO-INSULAR DE CORTINARIOLOGOS, 2007) has convinced us to accept this binomial for the Rocconi finding, also owing to the similar thermophilous habitat.

350. *Cortinarius subattenuatus* Carteret & Eyssart. becomes *Cortinarius geraniolens* Bidaud.

## ADDENDA

### ***Cantharellales, Cantharellaceae***

416. *Pseudocraterellus sinuosus* (Fr.) Corner [= *P. undulatus* (Pers.) Rauschert]

Frequency: uncommon

Distribution: T

### ***Clavulinaceae***

417. *Clavulina rugosa* (Bull.) J. Schröt.

Frequency: 1 collection

Distribution: T

### ***Hymenochaetales, Hymenochetaceae***

418. *Hymenochaete rubiginosa* (Dicks.) Lév.

Frequency: occasional

Distribution: T

### ***Schizoporaceae***

419. *Schizopora paradoxa* (Schrad.) Donk

Frequency: fairly frequent

Distribution: T

420. *Lagarobasidium detriticum* (Bourdot) Jülich

Frequency: 1 collection (Querciolaie)

Distribution: T

421. *Xylodon pruni* (Lasch) Hjortstam & Ryvarden

Frequency: uncommon

Distribution: T

### ***Polyporales, Polyporaceae***

422. *Perenniporia ochroleuca* (Berk.) Ryvarden

Frequency: occasional

Distribution: T-M

423. *Skeletocutis percandida* (Malençon & Bertault) Jean Keller

Frequency: rare

Distribution: T-M

### **Phanerochetaceae**

424. *Porostereum spadiceum* (Pers.) Hjortstam & Ryvarden

Frequency: 1 collection (Querciolaie)

Distribution: T

### **Meruliaceae**

425. *Steccherinum ochraceum* (Pers.) Gray

Frequency: fairly frequent

Distribution: T

### **Boletales, Boletaceae**

426. *Rubroboletus lupinus* (Fr.) Costanzo, Gelardi, Simonini & Vizzini (= *Boletus lupinus* Fr.)

Frequency: 1 collection (Rocchette di Fazio)

Distribution: M

### **Suillaceae**

427. *Suillus collinitus* (Fr.) Kuntze

Frequency: 1 collection (Rocchette di Fazio)

Distribution: M

### **Agaricales, Hygrophoraceae**

428. *Hygrocybe subglobispora* (P.D. Orton) Moser

Frequency: 1 collection

Distribution: T

429. *Hygrophorus lindtneri* Moser (incl.: *H. carpini* Gröger; *H. unicolor* Gröger)

Frequency: 1 collection (Rocchette di Fazio)

Distribution: T

### **Pterulaceae**

430. *Radulomyces molaris* (Chaillet) M.P. Christ.

Frequency: occasional

Distribution: T

### **Stephanosporaceae**

431. *Cristinia helvetica* (Pers.) Parmasto

Frequency: 1 collection (Querciolaie)

Distribution: T

**Notes:** An uncommon, interesting corticioid species, characterized by the grandinoid basidiome, and the rounded, cyanophilic spores. The present determination was confirmed by analysis of the ITS sequences (Alvalab, Spain).

### **Marasmiaceae s.l.**

432. *Hydropus atramentosus* (Kalchbr.) Kotl. & Pouzar

Frequency: 1 collection

Distribution: T

### **Tricholomataceae s.l.**

433. *Arrhenia rickenii* (Bres.) J.D. Arnold

Frequency: rare (Querciolaie)

Distribution: T-M

**Notes:** a rare and interesting species, little known to the mycological community.

434. *Omphalina pyxidata* (Bull.) Quél.

Frequency: 1 collection (Rocchette di Fazio)

Distribution: T

435. *Collybia cookei* (Bres.) J.D. Arnold

Frequency: uncommon

Distribution: T

436. *Hemimycena rickenii* (A.H. Sm.) Singer

Frequency: 1 collection (Rocchette di Fazio)

Distribution: T

437. *Mycena metata* (Secr. ex Fr.) P. Kumm.

Frequency: occasional

Distribution: T

**Notes:** In the 3<sup>rd</sup> part (CLERICUZIO, 2011), we wrote that this species was probably present in the reserve, but it was uneasy to tell apart, within the intricate group of *M. filopes* (Pers.) Singer. New findings have allowed us to recognize its presence with safety.

438. *Tephroderma fuscopallens* Musumeci & Contu

Frequency: 1 collection (Querciolaie)

Distribution: T

Description of our finding

**Cap** 1.5-2.5 cm, plane convex, strongly umbilicate, not striated for transparency when wet. Color dark sepia-brown, darker at centre, on drying fading to grey-brown.

**Gills** spaced, partly interwoven, strongly decurrent. Color light grey.

**Stem** 3-5 × 0.3-0.6 cm, cylindrical, slightly enlarged at the base; often compressed, concolorous with cap, brownish; covered by a white pruina, and with cottony mycelium residues at the base.

**Flesh** thin, ochraceous, smell weak, slightly herbaceous, taste mild.

**Spores** elliptical to sub-cylindrical, smooth, inamyloid, 5-7.5 × 3.2-4.5 μm, Q = 1.35-1.65.

**Lamellar edge** with scattered to abundant marginal hairs, claviform to sublageniform, thin-walled, of the same size of unripen basidia.

**Cuticle** a cutis of smooth hyphae, typically 3-5 μm wide, becoming broader in deeper layers. Pigment mainly membranaceous, sometimes slightly encrusting. Clamps present at most septa.

**Habitat** on a rotting *Quercus* trunk, at Querciolaie, 10/16/2016.

A species described a few years ago by MUSUMECI & CONTU (2014), following a collection from Northern France (Alsace). Successively, it has been reported from the Black Sea coast of Turkey (SESLI & TOPCU SESLI, 2016). The present finding from Rocconi is the first one from Italy. The habitat of our collection is noteworthy, as it was lignicolous, directly on a large oak trunk. The French original finding was in a broad-leaved wood (*Quercus* sp., *Carpinus* sp., *Fagus* sp.), and that from Turkey in a conifer wood (*Pinus* sp.), but in both cases the mushrooms were growing on the ground. The determination of our samples was possible thanks to the analysis of the ITS sequence, performed at Alvalab (Spain).

I agree with Musumeci and Contu in that *T. fuscopallens* might correspond to *Gerronema umbilicatum* (Fr.) Singer, in one of its many interpretations [not *Clitocybe umbilicata* (Schaeff.) P. Kumm. = *C. subspadicea* (J.E. Lange.) Bon & Chevassut]. The recent phylogenetic study of the tricholomatoid clade (= suborder *Tricholomatineae* Aime, Dentinger & Gaya) by ALVARADO ET AL. (2018), places genus *Tephroderma* in a (sub)-clade positioned close to *Lyophyllaceae*, but outside the family core: the exact position of this clade, comprising also *Clitolyophyllum* and *Leucocybe*, is still to be found.

439. *Tephrocycbe rancida* (Fr.) Donk

Frequency: 1 collection

Distribution: T

### **Entolomataceae**

440. *Entoloma dichroum* (Pers.) P. Kumm.  
Frequency: 1 collection (Rocchette di Fazio)  
Distribution: T

441. *Entoloma hirtum* (Velen.) Noordel.  
Frequency: rare  
Distribution: T

442. *Entoloma sericeoides* (J.E. Lange) Noordel.  
Frequency: uncommon (Rocchette di Fazio)  
Distribution: T

443. *Entoloma sericellum* (Fr.) P. Kumm.  
Frequency: rather rare  
Distribution: T

444. *Rhodocybe melleopallens* P.D. Orton  
Frequency: 1 collection  
Distribution: T

### **Amanitaceae**

445. *Amanita battarrae* (Boud.) Bon  
Frequency: uncommon  
Distribution: T-M

446. *Limacella glioderma* (Fr.) Maire  
Frequency: 1 collection (Rocchette di Fazio)  
Distribution: T

### **Pluteaceae**

447. *Volvariella murinella* (Quél.) M.M. Moser ex Dennis, P.D. Orton & Hora  
Frequency: 1 collection (Rocchette di Fazio)  
Distribution: T

### **Agaricaceae**

448. *Lepiota pseudohelveola* Kühner ex Hora  
Frequency: rather rare  
Distribution: T

449. *Macrolepiota subsquarrosa* (Locq.) Bon  
Frequency: 1 collection  
Distribution: T

**Notes:** A rather rare species, characterized, among the others, by its almost flattened cap, without any umbo, and by the pale colors. Unfortunately, the sole ITS marker is little informative in *Macrolepiota*.

450. *Tulostoma brumale* Pers.  
Frequency: occasional  
Distribution: T

### **Psathyrellaceae**

451. *Coprinellus domesticus* (Bolton) Vilgalys, Hopple & Johnson  
Frequency: 1 collection (Querciolaie)  
Distribution: T

452. *Psathyrella dicrani* (A.E. Jansen) Kits van Wav.  
Frequency: 1 collection  
Distribution: T

### **Strophariaceae**

453. *Pholiota lucifera* (Lasch.) Quél.

Frequency: 1 collection Rocchette di Fazio (River Albegna)

Distribution: T

### **Hymenogastraceae**

454. *Gymnopilus decipiens* (Sacc.) P.D. Orton

Frequency: 1 collection

Distribution: T

**Notes:** An interesting and rather rare species, of which we have two more collections in the Grosseto province. Compared to the other two findings, the one from Rocconi was remarkable for the tiny size of the basidiomes (cap up to 1 cm), and the less bright colours. On the other hand, the microscopic traits were typical, in particular as concerns the cheilocystidia shape, which were strongly capitate in a significant number. In all three collections from Tuscany, the mushrooms were growing associated to *Erica arborea* L., on woody debris or sometimes apparently on the ground, but probably on buried wood instead.

### **Crepidotaceae**

455. *Flammulaster muricatus* (Fr.) Watling

Frequency: 1 collection (Rocchette di Fazio)

Distribution: T

456. *Flammulaster subincarnatus* (Joss. & Kühner) Watling

Frequency: occasional

Distribution: T

457. *Inocybe agardhii* (N. Lund) P.D. Orton

Frequency: 1 collection Rocchette di Fazio (River Albegna)

Distribution: T

**Notes:** one of the few truly hygrophilous taxa of the reserve, associated with *Populus* sp. and *Salix* sp., found on the banks of the Albegna river. It was collected in the same place as *Hebeloma dunense* L. Corb. & R. Heim and *Pholiota lucifera* (Lasch) Quél.

### **Cortinariaceae**

458. *Cortinarius majusculus* Kühner (= *C. alcalinophilus* Rob. Henry.)

Frequency: rather rare

Distribution: T

**Notes:** we prefer to use Kühner's binomial instead of *C. alcalinophilus*, as employed by the Scandinavian school. In fact, Henry's description refers to a species provided with much larger spores.

459. *Cortinarius flavoaurantians* Boccardo, Cleric. & Vizzini

Frequency: 1 collection Rocchette di Fazio

Distribution: T-M

**Notes:** The occurrence of this species at Rocconi has already been reported by ourselves (CLERICUZIO, 2017). In these last few years, at least two more growing sites have been found by ourselves in the Grosseto province. In addition, F. Boccardo found it in several more places in Liguria. This means that *C. flavoaurantians* is definitely not rare in Italy, as far as the right habitat is provided (thermophilous oaks).

460. *Cortinarius molochinus* Bidaud & Ramm

Frequency: rare (Rocchette di Fazio)

Distribution: M



Fig. 1. *Tephroderma fuscopallens*. Basidiomes.

Photo by Marco Clericuzio

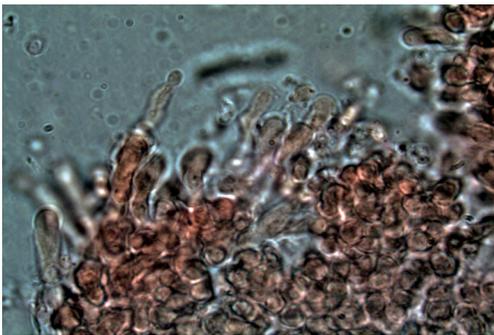


Fig. 2. *T. fuscopallens*. Marginal hairs of our collection.

Photo by Marco Clericuzio

461. *Cortinarius ochraceopallescens* Moënne-Locc. & Reumaux

Frequency: uncommon

Distribution: T

462. *Cortinarius sublilacinopes* Bidaud, Moënne-Locc. & Reumaux

Frequency: 1 collection Rocchette di Fazio

Distribution: T

463. *Cortinarius assiduus* Mahiques, Ortega & Bidaud

Frequency: 1 collection (Querciolaie)

Distribution: M

464. *Cortinarius cinereobrunneolus* Chevassut & Henry

Frequency: 1 collection (Querciolaie)

Distribution: T

465. *Cortinarius (Telamonia) sp. sect. Bovini?*

Frequency: 1 collection

Distribution: ?

**Notes:** This collection belongs to non-hygrophanous *Telamonia*, and in particular to the group of the reddish-brown ones (*Biveli-Bulbosi*, *Subferruginei*, etc.). We could obtain the ITS sequences of this sample, and preliminary phylogenetic analysis places it near sect. *Bovini*.

As concluding remark of genus *Cortinarius*, we could confirm the identity of *Cortinarius chailluzi* Frøslev & T.S. Jeppesen (n. 322), by analysis of the ITS sequences. This is probably the first report of this rare species in Italy.

**Russulales, Stereaceae**

466. *Aleurodiscus disciformis* (DC.) Pat.

Frequency: 1 collection

Distribution: T-M

**Notes:** This species is not rare in thermophilous oak woods, where it grows preferentially on old trees, sometimes on dead ones. Anyway, it is easily overlooked, as it often grows high on the tree.



**Fig. 3.** *Aleurodiscus disciformis*. Specimens of the Rocconi collection. This fungus belongs to order *Russulales*, family *Stereaceae*.  
Photo by Marco Clericuzio



**Fig. 4a.** *A. disciformis*. The characteristic large, broadly ellipsoid, ornamented spore. Photo by Marco Clericuzio



**Fig. 4b.** *A. disciformis*. A pluri-strangled gloeocystidium. Photo by Marco Clericuzio

## FINAL LIST

Here is the final list. A capital **P** letter is added at the end of those species which are considered rare or localized. For these taxa, we propose protection, at least after inclusion in the regional red list (TRL, Tuscany red list of fungi).

### CANTHARELLALES

#### **Cantharellaceae**

- Cantharellus cinereus* (Pers.) Fr.  
*Cantharellus ferruginascens* P.D. Orton  
*Cantharellus pallens* Pilát  
*Craterellus cornucopioides* Pers.  
*Pseudocraterellus sinuosus* (Fr.) Corner

#### **Clavulinaceae**

- Clavulina coralloides* (L.) Schröt.  
[= *C. cristata* (Fr.) Schröt.]  
*Clavulina rugosa* (Bull.) Schröt.

#### **Hydnaceae**

- Hydnum rufescens* Fr.

### GOMPHALES

#### **Clavariadelphaceae**

- Clavariadelphus pistillaris* (Fr.) Donk

#### **Gomphaceae**

- Ramaria flava* (Schff.) Quél.  
*Ramaria formosa* (Fr.) Quél.  
*Ramaria fumigata* (Peck) Corner **P**

#### **Phallaceae**

- Clathrus ruber* P. Micheli ex Pers.  
*Mutinus caninus* (Huds.) Fr.  
*Phallus impudicus* L.

### HYMENOCHAETALES

#### **Hymenochaetaceae**

- Phellinus torulosus* (Pers.) Bourdot & Galzin  
*Hymenochaete rubiginosa* (Dicks.) Lév.

#### **Schizoporaceae**

- Schizopora paradoxa* (Schrad.) Donk  
*Lagarobasidium detriticum* (Bourdot) Jülich  
*Xylodon pruni* (Lasch) Hjortstam & Ryvarden

#### **Repetobasidiaceae**

- Rickenella fibula* (Bull.) Raith.

### THELEPHORALES

#### **Bankeraceae**

- Hydnellum conrescens* (Pers. ex Schw.) Bank.

### POLYPORALES

#### **Fomitopsidaceae**

- Daedalea quercina* (L.) Pers.

#### **Polyporaceae**

- Dichomitus campestris* (Quél.) Domański & Orlicz  
*Hapalopilus rutilans* (Pers.) Murrill  
*Perenniporia ochroleuca* (Berk.) Ryvarden  
*Polyporus arcularius* (Batsch) Fr.  
*Polyporus ciliatus* Fr.  
*Polyporus tuberaster* (Jacq. ex Pers.) Fr.  
*Trametes versicolor* (L.) Pilát

#### **Meruliaceae**

- Abortiporus biennis* (Bull.) Singer  
*Byssomerulius corium* (Pers.) Parmasto  
[= *Meruliopsis corium* (Pers.) Ginns]  
*Gloeoporus dichrous* (Fr.) Bres.  
*Steccherinum ochraceum* (Pers.) Gray

#### **Ganodermataceae**

- Ganoderma applanatum* (Pers.) Pat.  
*Ganoderma lucidum* (Fr.) Karst.

#### **Phanerochaetaceae**

- Porostereum spadiceum* (Pers.) Hjortstam & Ryvarden

### RUSSULALES

#### **Russulaceae**

- Lactarius acerrimus* Britzel.  
*Lactarius azonites* (Bull.) Fr.  
*Lactarius chrysorrheus* Fr.  
*Lactarius decipiens* Quél.  
*Lactarius fulvissimus* Romagn.  
*Lactarius luridus* (Pers.) Gray  
*Lactarius quietus* (Fr.) Fr.  
*Lactarius quieticolor* Romagn. **P**  
*Lactarius subumbonatus* Lindgr.  
*Lactarius zonarius* (Bull.) Fr.  
*Lactifluus piperatus* (L.) Roussel  
*Lactifluus vellereus* (Fr.) Kuntze  
*Lactifluus volemus* (Fr.) Kuntze s.l.  
*Russula acrifolia* Romagn.  
*Russula albonigra* (Krombh.) Fr. var. *pseudonigricans* (Romagn.) Bon  
*Russula amoenicolor* Romagn.  
*Russula anatina* Romagn. **P**  
*Russula atropurpurea* (Krombh.) Britzelm.  
*Russula aurea* Pers.  
*Russula aurora* Bres.  
*Russula carminipes* Romagn.  
*Russula carpini* Girard & Heinem.  
*Russula conivialis* Sarnari  
*Russula cuprea* J.E. Lange  
*Russula cyanoxantha* (Schäff.) Fr.  
*Russula decipiens* (Singer) Kühner & Romagn.  
*Russula delica* Fr. s.l.  
*Russula fragilis* Fr.  
*Russula galochroides* Sarnari  
*Russula globispora* (Blum) Bon  
*Russula graveolens* Romell  
*Russula grisea* Fr.  
*Russula heterophylla* (Fr.) Fr.  
*Russula ilicis* Romagn., Chevassut & Privat  
*Russula laeta* Jul. Schäff.  
*Russula lepida* Fr.  
*Russula lividopallescens* Sarnari **P**

*Russula lutensis* Romagn.  
*Russula luteotacta* (Fr.) Fr.  
*Russula maculata* Quéf.  
*Russula melliolens* (Fr.) Fr.  
*Russula minutula* Velen.  
*Russula nigricans* Fr.  
*Russula odorata* Romagn.  
*Russula parodorata* Sarnari  
*Russula pelargonica* Nioffe  
*Russula persicina* Krombh.  
*Russula persicina* f. *alboflavella* Chiarello & Battistin  
*Russula praetervisita* Sarnari  
*Russula pseudoaeruginea* (Romagn.) Kuyper & Vuure  
*Russula purpurata* (Crawshay) Romagn.  
*Russula risigallina* (Batsch) Sacc.  
*Russula rubra* (Fr.) Fr.  
*Russula rubroalba* (Singer) Romagn.  
*Russula rutila* Romagn.  
*Russula seperina* Dupain  
*Russula sororia* Fr.  
*Russula subfoetens* W.G. Sm.  
*Russula sublevispora* (Romagn.) Kühner & Romagn. P  
*Russula vesca* Fr.  
*Russula vinosobrunnea* (Bres.) Romagn.  
*Russula violeipes* Quéf.  
*Russula virescens* (Schaeff.) Fr.  
*Russula zvarae* Velen.  
**Auriscalpiaceae**  
*Lentinellus ursinus* (Fr.) Kühner  
**Stereaceae**  
*Aleurodiscus disciformis* (DC.) Pat.  
*Stereum hirsutum* (Willd. ex Fr.) Gray  
**AGARICALES**  
**Hygrophoraceae**  
*Cuphophyllus colemannianus* (Bloxam) Bon  
[= *Hygrocybe colemanniana* (Bloxam) Orton & Watling] P  
*Cuphophyllus virgineus* (Wulfen) Kovalenko  
[= *Hygrocybe virginea* (Wulfen) Orton & Watling]  
*Gliophorus psittacinus* (Schaeff.) Herink  
[= *Hygrocybe psittacina* (Schaeff.) P. Kumm.]  
*Gliophorus irrigatus* (Pers.) A.M. Ainsw. & P.M. Kirk  
[= *Hygrocybe irrigata* (Pers.) Bon] P  
*Hygrocybe acutoconica* (Clemençon) Singer  
[= *H. persistens* (Britz.) Singer]  
*Hygrocybe conica* (Schaeff.) P. Kumm.  
*Hygrocybe quieta* (Kühner) Singer  
*Hygrocybe subglobispora* (P.D. Orton) M.M. Moser  
*Hygrophorus arbustivus* (Fr.) Fr.  
*Hygrophorus lindtneri* M.M. Moser  
*Hygrophorus cossus* (Sow.) Fr.  
*Hygrophorus discoxanthus* (Fr.) Rea  
*Hygrophorus leucophaeolicis* Bon & Chevassut  
*Hygrophorus penarioides* Jacobsson & Larss.

*Hygrophorus persoonii* Arnolds  
*Hygrophorus roseodiscoideus* Bon & Chevassut  
*Hygrophorus russula* (Schaeff.) Kauffman  
**Pleurotaceae**  
*Hohenbuehelia petaloides* (Bull.) Schulzer  
[= *H. geogenia* (DC.) Singer]  
*Pleurotus ostreatus* (Jacq.) P. Kumm.  
**Typhulaceae**  
*Macrotyphula juncea* (Alb. & Schwein.) Berthier  
*Radulomyces molaris* (Chaillat ex Fr.) M.P. Christ.  
**Stephanosporaceae**  
*Cristinia helvetica* (Pers.) Parmasto  
**Marasmiaceae** sl.  
*Collybia cookei* (Bres.) J.D. Arnold  
*Crinipellis scabella* (Alb. & Schwein.) Murrill  
*Crinipellis tomentosa* (Quéf.) Singer  
[= *C. subtomentosa* (Peck) Singer ss. Antonin & Noordel.]  
*Gymnopus dryophilus* (Bull.) Murrill  
*Gymnopus erythropus* (Pers.) Antonin, Halling & Noordel.  
*Gymnopus foetidus* (Sowerby) J.L. Mata & R.H. Petersen  
*Gymnopus fusipes* (Bull.) Gray  
*Gymnopus inodorus* (Pat.) Antonin & Noordel.  
*Gymnopus peronatus* (Bolton) Antonin, Halling & Noordel.  
*Hydropus atramentosus* (Kalchbr.) Kotl. & Pouzar P  
*Hydropus floccipes* (Fr.) Singer  
*Hydropus subalpinus* (Höhn.) Singer  
*Marasmiellus candidus* (Bolton) Singer  
*Marasmiellus omphaliformis* (Kühner) Noordel.  
*Marasmiellus ramealis* (Bull.) Singer  
*Marasmiellus vaillantii* (Pers.) Singer  
*Marasmius bulliardi* Quéf.  
*Marasmius epiphyllus* (Pers.) Fr.  
*Marasmius oreades* (Pers.) Fr.  
*Marasmius quercophilus* Pouzar  
*Marasmius rotula* (Scop.) Fr.  
*Marasmius torquescens* Quéf.  
*Omphalotus olearius* (DC.) Singer  
*Oudemansiella radicata* (Rehlan) Singer  
*Rhodocollybia butyracea* (Bull.) Lennox  
*Schizophyllum commune* Fr.  
**Physalacriaceae**  
*Armillaria mellea* (Vahl.) P. Kumm.  
*Armillaria tabescens* (Vahl.) P. Kumm.  
*Cylindrobasidium evolvens* (Fr.) Jülich  
*Xerula pudens* (Pers.) Singer  
**Fistulinaceae**  
*Fistulina hepatica* (Schaeff.) With.  
**Tricholomataceae** sl.  
*Arrhenia rickenii* (Bres.) J.D. Arnold  
*Arrhenia spathulata* (Fr.) Redhead  
*Arrhenia velutipes* (P.D. Orton) Redhead, Lutzoni, Moncalvo & Vilgalys

- Calocybe persicolor* (Fr.) Singer  
*Cheimonophyllum candidissimum* (Berk. & M.A. Curtis) Singer **P**  
*Clitocybe fragrans* (With.) P. Kumm.  
*Clitocybe houghtoni* (W. Phillips) Dennis **P**  
*Clitocybe marginella* Harmaja  
*Clitocybe nebularis* (Batsch) P. Kumm.  
*Clitocybe odora* (Bull.) P. Kumm.  
*Clitocybe phaeophthalma* (Pers.) Kuyper  
*Clitocybe phyllophila* (Fr.) Quél.  
*Clitocybe rivulosa* (Pers.) P. Kumm.  
*Clitocybe squamulosa* (Pers.) P. Kumm.  
*Clitocybe subbulbipes* Murrill  
*Hemimycena cephalotricha* (Joss.) Singer  
*Hemimycena cucullata* (Pers.) Singer  
*Hemimycena crispata* (Kühner) Singer  
*Hemimycena rickenii* (Smith) Singer **P**  
*Infudibulicybe geotropae* (Bull.) Harmaja  
*Infudibulicybe gibba* (Bull.) Quél.  
*Infundibulicybe mediterranea* Vizzini, Contu & Musumeci  
*Lepista nuda* (Bull.) Cooke  
*Lepista panaeolus* (Fr.) P. Karst.  
*Leucopaxillus gentianeus* (Quél.) Kotl.  
*Lyophyllum boudieri* Kühner & Romagn.  
*Lyophyllum infumatum* (Bres.) Kühner  
*Lyophyllum paelochroum* Cléménçon  
*Lyophyllum rhopalopodium* Cléménçon  
*Megacollybia platyphylla* (Pers.) Kotl. & Pouzar  
*Mycena abramsii* Murrill  
*Mycena acicula* (Schaeff.) P. Kumm.  
*Mycena aetites* (Fr.) Quél.  
*Mycena alba* (Bres.) Kühner  
*Mycena albidolilacea* Kühner & Maire  
*Mycena arcangeliana* Bres.  
*Mycena erubescens* Höhn.  
*Mycena filopes* (Pers.) Singer  
*Mycena flavoalba* (Fr.) Quél.  
*Mycena galericulata* (Scop.) Gray  
*Mycena galopus* (Pers.) P. Kumm.  
*Mycena haematopus* (Pers.) P. Kumm.  
*Mycena hiemalis* (Osbeck) Quél.  
*Mycena inclinata* (Fr.) Quél.  
*Mycena maculata* P. Karst.  
*Mycena meliigena* (Berk. & Cooke) Sacc.  
*Mycena metata* (Secr. ex Fr.) P. Kumm.  
*Mycena mirata* (Peck) Sacc.  
*Mycena pelianthina* (Fr.) Quél.  
*Mycena polyadelpha* (Lasch.) Kühner  
*Mycena polygramma* (Bull.) S.F. Gray  
*Mycena pura* (Pers.) P. Kumm.  
*Mycena renati* Quél.  
*Mycena rosea* (Schumach.) Gramberg  
*Mycena sanguinolenta* (Alb. & Schwein.) P. Kumm.  
*Mycena speirea* (Fr.) Quél.  
*Mycena stylobates* (Pers.) P. Kumm.  
*Mycena vitilis* (Fr.) Quél.  
*Mycenella bryophila* (Vogolino) Singer  
*Omphalina pyxidata* (Bull.) Quél.  
*Paralepista flaccida* (Sowerby) Vizzini  
[= *Lepista flaccida* (Sowerby) Pat.]  
*Pseudoclitocybe cyathiformis* (Bull.) Singer  
*Ripartites tricholoma* Huijsm.  
*Roridomyces roridus* (Scop.) Rexer  
*Tephroclybe rancida* (Fr.) Donk  
*Tephroderma fuscopallens* Musumeci & Contu **P**  
*Tricholoma acerbum* (Bull.) Vent.  
*Tricholoma album* (Schaeff.) P. Kumm.  
*Tricholoma atosquamosum* (Chev.) Sacc.  
*Tricholoma basirubens* (Bon) Riva & Bon  
*Tricholoma bresadolanium* Cléménçon  
*Tricholoma columbetta* (Fr.) P. Kumm.  
*Tricholoma coryphaeum* (Fr.) Gillet **P**  
*Tricholoma gausapatum* (Fr.) Quél.  
*Tricholoma orirubens* Quél.  
*Tricholoma quercetorum* Contu  
*Tricholoma saponaceum* (Fr.) P. Kumm.  
*Tricholoma scalpturatum* (Fr.) Quél.  
*Tricholoma sejunctum* (Sow.) Quél.  
*Tricholoma squarrulosum* Bres.  
*Tricholoma sulphureum* (Bull.) P. Kumm.  
*Tricholoma ustaloides* Romagn.  
**Entolomataceae**  
*Clitopilus prunulus* (Scop.) P. Kumm.  
*Entoloma dichroum* (Pers.) P. Kumm. **P**  
*Entoloma lividoalbum* (Kühner & Romagn.) Kubicka  
*Entoloma rhodopolium* (Fr.) P. Kumm. var. *nidorosum* (Fr.) Krieglst.  
*Entoloma sericellum* (Fr.) P. Kumm.  
*Entoloma sericeoides* (Lange) Noordel.  
*Entoloma sinuatum* (Bull.) P. Kumm.  
*Entoloma hebes* (Romagn.) Trimbach  
*Entoloma hirtum* (Velen.) Noordel.  
*Entoloma lucidum* (Orton) M.M. Moser  
*Entoloma nitens* (Velen.) Noordel.  
*Entoloma chalybeum* (Pers.) Noordel.  
*Entoloma incanum* (Fr.) Hesler  
*Entoloma longistriatum* Noordel. var. *microsporum* (Noordel.) Noordel.  
*Entoloma ochromicaceum* Noordel. & Liiv  
*Entoloma pseudocoelstinum* Arnolds  
*Entoloma byssisedum* (Pers.) Donk var. *microsporum* Noordel. **P**  
*Rhodocybe gemina* (Paulet) Kuyper & Noordel.  
[= *Clitopilus gemina* (Paulet) Noordel. & Co-David]  
*Rhodocybe melleopallens* P.D. Orton  
*Rhodocybe nitellina* (Fr.) Singer  
[= *Clitopilus nitellina* (Fr.) Noordel. & Co-David]  
**Amanitaceae**  
*Amanita battarrae* (Boud.) Bon  
*Amanita caesarea* (Scop.) Pers.  
*Amanita citrina* (Pers.) Pers.

*Amanita franchetii* (Boud.) Fayod  
*Amanita ovoidea* (Bull.) Quél.  
*Amanita pantherina* (DC) Krombh.  
*Amanita phalloides* (Vaill. ex Fr.) Link  
*Amanita rubescens* (Pers.) Gray  
*Amanita dryophila* Consiglio & Contu  
*Amanita fulva* Fr.  
*Amanita strobiliformis* (Paulet) Bertill.  
*Amanita vaginata* (Bull) Vittad.  
*Limacella glioderma* (Fr.) Maire  
**Agaricaceae**  
*Agaricus campestris* L.  
*Agaricus comtulus* Fr.  
*Agaricus essettei* Bon  
*Agaricus porphyryhizon* P.D. Orton  
*Agaricus semotus* Fr.  
*Agaricus stramineus* (F.H. Møller) F.H. Møller  
*Agaricus xanthoderma* Genev.  
*Bovista aestivalis* (Bonord.) Demoulin  
*Bovista nigrescens* Pers.  
*Bovista plumbea* Pers.  
*Crucibulum laeve* (Huds.) Kambly  
*Cyathus striatus* (Huds.) Willd.  
*Cystolepiota sistrata* (Fr.) Singer  
*Lepiota castanea* Quél.  
*Lepiota clypeolaria* (Bull.) P. Kumm.  
*Lepiota cristata* (Bolton) P. Kumm.  
*Lepiota forquignonii* Quél.  
*Lepiota pseudohelveola* Kühner ex Hora  
*Lepiota rhodorhiza* Romagn. & Locq.  
(= *L. setulosa* J.E. Lange)  
*Leucoagaricus leucothites* (Vitt.) Wasser  
*Leucoagaricus serenus* (Fr.) Singer  
*Lycoperdon echinatum* Pers.  
*Lycoperdon molle* Pers.  
*Lycoperdon perlatum* Pers.  
*Macrolepiota konradii* (Huijism. ex P.D. Orton) M.M. Moser  
*Macrolepiota mastoidea* (Fr.) Singer  
*Macrolepiota procera* (Scop.) Singer f. *permixta* (Barla) Vizzini & Contu  
*Macrolepiota subsquarrosa* (Locq.) Bon P  
*Tulostoma brumale* Pers.  
*Tulostoma fimbriatum* Fr.  
*Tulostoma melanocyclus* Bres.  
**Pluteaceae**  
*Melanoleuca grammopodia* (Bull.) Pat.  
*Melanoleuca excissa* (Fr.) Singer  
*Melanoleuca melaleuca* (Pers.) Murrill  
*Melanoleuca substrictipes* Kühner  
*Pluteus cervinus* (Batsch.) Fayod  
*Pluteus cinereofuscus* Lange  
*Pluteus nanus* (Pers.) P. Kumm.  
*Pluteus plautus* (Weinm.) Gillet  
*Pluteus romelli* (Britz.) Sacc.  
*Pluteus semibulbosus* (Lasch. ap. Fr.) Gillet

*Volvariella murinella* (Quél.) M.M. Moser ex Dennis, P.D. Orton & Hora  
*Volvopluteus glojoccephalus* (DC.) Vizzini, Contu & Justo  
**Psathyrellaceae**  
*Coprinellus disseminatus* (Pers.) J.E. Lange  
*Coprinellus domesticus* (Bolton) Vilgalys, Hopple & Johnson  
*Coprinellus truncorum* (Scop.) Redhead, Vilgalys & Moncalvo  
*Coprinopsis cortinata* (J.E. Lange) Redhead, Vilgalys & Moncalvo  
*Coprinopsis insignis* (Peck) Redhead, Vilgalys & Moncalvo  
*Coprinopsis lagopus* (Fr.) Redhead, Vilgalys & Moncalvo  
*Coprinopsis picacea* (Bull.) Redhead, Vilgalys & Moncalvo  
*Parasola conopila* (Fr.) Örstadius & E. Larss.  
*Parasola leioccephala* (Orton) Redhead, Vilgalys & Hopple  
*Psathyrella candolleana* (Fr.) Maire  
*Psathyrella dicrani* (A.E. Jansen) Kits van Wav.  
*Psathyrella obtusata* (Fr.) A.H. Sm.  
*Psathyrella ochracea* (Romagn.) Kits van Wav. P  
*Psathyrella prona* (Fr.) Gillet  
*Psathyrella spadiceogrisea* (Fr.) Maire  
*Psathyrella tephrophylla* (Romagn.) Bon  
**Bolbitiaceae**  
*Agrocybe praecox* (Pers.) Fayod  
*Bolbitius vitellinus* (Pers.) Fr.  
*Conocybe brunneola* (Kühn.) ex Kühner & Watling  
*Conocybe dumetorum* (Vel.) Svrcek  
*Conocybe brunnea* J.E. Lange. ex Kühner & Watling  
**Hydnangiaceae**  
*Laccaria affinis* (Sing.) Bon  
**Strophariaceae**  
*Deconica crobula* (Fr.) Romagn.  
*Hypholoma fasciculare* (Huds.) P. Kumm.  
*Pholiota gummosa* (Lasch.) Singer  
*Pholiota lucifera* (Lasch.) Quél.  
*Pholiota tuberculosa* (Schäff.) P. Kumm.  
*Stropharia coronilla* (Bull.) Quél.  
**Hymenogastraceae**  
*Galerina graminea* Velen.  
*Galerina marginata* (Batch) Kühner  
*Galerina perplexa* A.H. Sm.  
*Gymnopilus decipiens* (Sacc.) P.D. Orton P  
*Hebeloma bulbiferum* Maire  
*Hebeloma cavipes* Huijism.  
*Hebeloma dunense* Corb. & Heim P  
*Hebeloma hiemale* Bres.  
*Hebeloma laterinum* (Batsch) Vesterh.  
*Hebeloma pallidoluctuosum* Gröger  
*Hebeloma quercetorum* Quadr.  
*Hebeloma sinapizans* (Paul.) Gillet

*Hebeloma theobrominum* Quadr.  
*Hebeloma velutipes* Bruchet  
 (= *H. exiguifolium* Murrill)  
**Crepidotaceae**  
*Crepidotus autochtonus* J.E. Lange **P**  
*Crepidotus cesatii* (Rabenh.) Sacc.  
*Crepidotus epibryus* (Fr.) Quél.  
*Crepidotus mollis* (Schaeff.) Staude  
*Crepidotus subverrucisporus* Pilát  
*Flammulaster ferrugineus* Maire ex Watling **P**  
*Flammulaster muricatus* (Fr.) Watling  
*Flammulaster rhombosporus* (G.F. Atk.) Watling  
*Flammulaster subincarnatus* (Joss. & Kühner) Watling  
*Inocybe adaequata* (Britzelm.) Sacc.  
*Inocybe agardhii* (N. Lund) P.D. Orton  
*Inocybe asterospora* Quél.  
*Inocybe bongardi* (Weinm.) Quél.  
*Inocybe calida* Velen.  
*Inocybe cervicolor* (Pers.) Quél.  
*Inocybe cincinnata* (Fr.) Quél.  
*Inocybe cookei* Bres.  
*Inocybe dulcamara* (Pers.) P. Kumm.  
*Inocybe flocculosa* Sacc.  
*Inocybe fraudans* (Britzelm.) Sacc.  
*Inocybe geophylla* (Fr.) P. Kumm.  
*Inocybe glabripes* Ricken  
*Inocybe griseoilacina* J.E. Lange  
*Inocybe hirtella* Bres.  
*Inocybe maculata* Boud.  
*Inocybe phaeodisca* Kühner  
*Inocybe praetervisa* Quél.  
*Inocybe rimosa* (Bull.) P. Kumm.  
*Inocybe tenebrosa* Quél.  
*Inocybe tjallingiorum* Kuyper  
*Simocybe centunculus* (Fr.) P. Karst.  
*Tubaria hiemalis* Romagn. ex Bon  
*Tubaria* cfr. *romagnesiana* Arnolds  
**Cortinariaceae**  
*Cortinarius acetosus* (Velen.) Melot  
*Cortinarius albertii* Dima, Frøslev & T.S. Jeppesen  
*Cortinarius aleuriosmus* Maire.  
*Cortinarius anomalus* (Fr.) Fr.  
*Cortinarius aprinus* Melot  
*Cortinarius assiduus* Mahiques, Ortega & Bidaud  
*Cortinarius atrovirens* Kalchbr. subsp. *ionochlorus*  
 Maire.  
*Cortinarius bergeronii* (Melot) Melot  
 (= *C. cedretorum* Maire)  
*Cortinarius boudieri* Rob. Henry.  
*Cortinarius bulliardi* (Fr.) Fr.  
*Cortinarius camptoros* Brandr. & Melot **P**  
*Cortinarius caroviolaceus* Orton  
*Cortinarius catharinae* Consiglio  
*Cortinarius chailluzi* Frøsl. & Jepps. **P**  
*Cortinarius chevassuti* Hry.  
*Cortinarius cinereobrunneolus* Chevassut & Rob. Henry

*Cortinarius conicus* Rob. Henry  
*Cortinarius cotoneus* Fr.  
*Cortinarius decipiens* Fr.  
*Cortinarius diosmus* Kühner  
*Cortinarius duracinus* Fr. s.l.  
*Cortinarius dyonisiae* Rob. Henry  
*Cortinarius flavoaurantians* Boccardo, Cleric. & Vizzini  
*Cortinarius geraniolens* Bidaud  
*Cortinarius glaucopus* (Schff.) Fr. var. *olivaceus* M.M.  
 Moser (= *C. magicus* Eichhorn)  
*Cortinarius griseovioleipes* Moëgne-Locc. & Reumaux  
*Cortinarius himnuleus* Fr.  
*Cortinarius humolens* Brandrud  
*Cortinarius infractus* Fr.  
*Cortinarius leproleptopus* Chevas. & Rob. Henry  
*Cortinarius lilacinovelatus* Reumaux & Ramm  
*Cortinarius lividochraceus* (Berk.) Berk.  
*Cortinarius majusculus* Kühner  
*Cortinarius molochinus* Bidaud & Ramm  
*Cortinarius obtusus* Fr.  
*Cortinarius ochraceopallescens* Moëgne-Locc. & Reumaux  
*Cortinarius ochropallidus* Rob. Henry.  
*Cortinarius prasinus* (Schaeff.) Fr. **P**  
*Cortinarius pruinatus* Bidaud, Moëgne-Locc. &  
 Reumaux  
*Cortinarius rigens* Fr.  
*Cortinarius rufo-olivaceus* (Pers.) Fr.  
*Cortinarius sodagnitus* Rob. Henry  
*Cortinarius suaveolens* Bat. & Joachim  
*Cortinarius sublilacinopes* Bidaud, Moëgne-Locc. &  
 Reumaux  
*Cortinarius terpsichores* Melot  
*Cortinarius torvus* (Fr.) Fr.  
*Cortinarius trivialis* J.E. Lange.  
*Cortinarius vesterholti* Frøslev & T.S. Jeppesen **P**  
*Cortinarius xanthochlorus* Rob. Henry  
*Cortinarius (Telamonia) sp. sect. Bovini*

#### BOLETALES

##### **Boletaceae**

*Aureoboletus gentilis* (Quél.) Pouzar  
*Aureoboletus moravicus* (Vaček) Klofac [= *Xerocomus moravicus* (Vaček) Herink]  
*Boletus aereus* Bull.  
*Butyriboletus appendiculatus* (Schaeff.) Arora &  
 Frank (= *Boletus appendiculatus* Schaeff.)  
*Butyriboletus pseudoregius* (Huber) Arora & Frank  
 [= *Boletus pseudoregius* (Huber) Estades]  
*Caloboletus radicans* (Pers.) Vizzini (= *Boletus albidus*  
 Roques)  
*Hemileccinum depilatum* (Redeuilh) Šutara  
 [= *Xerocomus depilatum* (Redeuilh) Manfred  
 Binder & Besl]  
*Hemileccinum impolatum* (Fr.) Šutara [= *Xerocomus*  
*impolatum* (Fr.) Quél.]  
*Hortiboletus rubellus* (Krombh.) Simonini, Vizzini &  
 Gelardi [= *Xerocomus rubellus* (Krombh.) Quél.]

*Leccinellum crocipodium* (Letell.) Della Maggiora & Trassin. [= *Leccinum crocipodium* (Letell.) Watling]  
*Leccinellum lepidum* (Bouchet ex Essette) Bresinsky & Binder [= *Leccinum lepidum* (Bouchet ex Essette) Bon & Contu]  
*Leccinum carpini* (R. Schulz) M.M. Moser ex Reid  
*Rubroboletus lupinus* (Fr.) Costanzo, Gelardi, Simonini & Vizzini  
*Rubroboletus satanas* (Lenz) Kuan Zhao & Zhu L. Yang (= *Boletus satanas* Lenz)  
*Suillellus luridus* (Schaeff.) Murrill (= *Boletus luridus* Schaeff.)  
*Suillellus queletii* (Schulzer) Vizzini, Simonini & Gelardi (= *Boletus queletii* Schulzer)

*Xerocomellus cisalpinus* (Simonini, H. Ladurner & Peintner) Klofac (= *Xerocomus cisalpinus* Simonini, H. Ladurner & Peintner)  
*Xerocomus subtomentosus* (L.) Quél.  
**Suillaceae**  
*Suillus collinitus* (Fr.) Kuntze  
**Gyroporaceae**  
*Gyroporus castaneus* (Bull.) Quél.  
**Paxillaceae**  
*Paxillus rubicundulus* P.D. Orton  
**Sclerodermataceae**  
*Astraeus hygrometricus* (Pers.) Morgan  
*Scleroderma verrucosum* Bull.  
*Pisolithus arhizus* (Pers.) Rauschert

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