

CHECKLIST OF THE MACROMYCETES OF CENTRAL BALKAN MOUNTAIN (BULGARIA)

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In the present checklist of the Central Balkan macromycetes 369 species are reported. Eight myxomycetes, 42 ascomycetes and 319 basidiomycetes are listed following the arrangement in the Ainsworth & Bisby's Dictionary of the Fungi (Hawksworth et al., 1995). Among them 41 species are newly recorded for Central Balkan Mt. New localities of 45 species are added. The current status of threatened macromycetes from this region is presented, too.

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In the present article all published data together with 86 unpublished records of the macromycetes of Central Balkan Mt. are reported. There are among the unpublished records 41 newly recorded species for Central Balkan Mt. and new localities of 45 species. In the checklist total 29 orders, 68 families, 164 genera and 369 species are listed (Tabl. 1).

Table 1. Diversity of the macromycetous taxa in Central Balkan Mt.

Phyla	Orders	Families	Genera	Species	Forms
<i>Maxomycota</i>	4	4	7	8	0
<i>Ascomycota</i>	6	13	32	42	0
<i>Basidiomycota</i>	19	51	125	319	1
Total	29	68	164	369	1

The families and orders of macromycetes are in accordance with the Ainsworth & Bisby's Dictionary of the Fungi (Hawksworth et al., 1995).

The collecting sites (Fig. 1) are abbreviated in the list as following: 1 – village of Ribaritsa; 2 – Benkovski Chalet; 3 – Tsarichina Reserve; 4 – Vasilyov Chalet; 5 – Kozyata Stena Reserve; 6 – above the town of Troyan; 7 – village of Oreshak; 8 – Troyan Monastery; 9 – River Grebeshnitsa; 10 – Steneto Reserve; 11 – Ambaritsa Chalet; 12 – above the town of Sopot; 13 – Komsomol Chalet; 14 – above the town of Karlovo; 15 – Stara Reka Reserve; 16 – Severen Dzhendem Reserve; 17 – Dzhendema Reserve; 18 – Mazalat Chalet; 19 – Partizanska Chalet; 20 – Uzana Locality; 21 – above the Chalet Yavorova Luka; 22 – above the village of Shipkovo; 23 – village of Stomanetsite; 24 – around Gabrovo Monastery; 25 – above the town of Gabrovo; 26 – village of Bozhentsi; 27 – above the town of Elena.

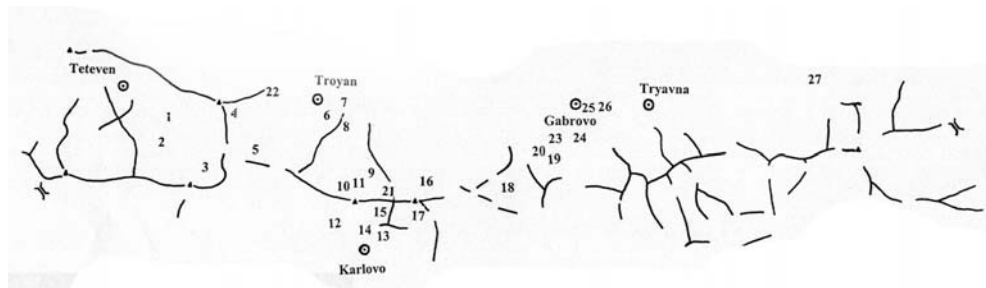


Figure 1. Collecting sites (see the text)

In the list the following numbers and abbreviations are used throughout for the authors of the contributions to the macromycetes of Central Balkan Mt.: 0 – Burzakov (1926); 1 – Fakirova, Dimitrova (1999); 2 – Fakirova et al. (2000); 3 – Hinkova (1961); 4 – Hinkova (1965); 5 – Hinkova, Draganov (1965); 7 – Stoichev (1981); 8 – Stoichev (1982); 9 – Stoichev (1983); 10 – Stoichev (1987); 11 – Stoichev (1995); 12 – Stoichev (1995a); 13 – Stoichev, Dimcheva (1982); 14 – Stoichev, Dimcheva (1984); 15 – Stoichev, Dimcheva (1987); 16 – Vanev, Reid (1986); unpubl. – unpublished records of the Central Balkan macromycetes. These numbers and abbreviation are put between parentheses.

The current status of the threatened macromycetes is presented. The threat categories of fungi are given according to the Red List of Bulgarian Threatened Macromycetes (Gyosheva et al., in press) and/or Red List of Fungi in Central Balkan National Park (Fakirova et al., 2000). The threat categories in *italic* are in accordance with Fakirova et al. (op.c.) The following abbreviations are used in the checklist: E – endangered species, V – vulnerable species, R – rare species.

In the present article the borders of Central Balkan Mt. are treated as a floristic subregion in accordance with Jordanov (Ed., 1966).

CHECKLIST OF THE CENTRAL BALKAN MACROMYCETES**MYXOMYCOTA****LYCEALES****Lycogalaceae**

- Enteridium lycoperdon* (Bull.) Farr. – 3 [unpubl.]
Lycogala epidendrum (L.) Fr. – 10, 15, 16, 17 [2, 5]

PHYSARALES**Physaraceae**

- Fuligo septica* (L.) F. H. Wigg. – 15, 16 [2]
Leocarpus fragilis (Dicks.) Rost. – 3 [unpubl.]
Physarum cinnereum (Batsch) Pers. – 15 [unpubl.]

STEMONITALES**Stemonitidaceae**

- Comatricha tiphoides* Rost. – 1 [16]

TRICHIALES**Trichiaceae**

- Trichia varia* (Pers.) Pers. – 15 [unpubl.]
T. verrucosa Berk. – 14 [5]

ASCOMYCOTA**DIATRYPALES****Diatrypaceae**

- Diatrype disciformis* (Hoffm.) Fr. – 3, 5, 11, 16 [2, unpubl.]

HYPOCREALES**Hypocreaceae**

- Nectria cinnabarina* (Tode : Fr.) Fr. – 1 [16]

LEOTIALES**Dermateaceae**

- Chlorosplenium aeruginascens* (Nyl.) P. Karst. – 16 [2]
Dermea cerasi (Pers. : Fr.) Fr. – 16 [1]
Mollisia atrata (Pers.) P. Karsten – 15 [1]

Geoglossaceae

- Spathularia flavida* Pers.: Fr. – 5 [unpubl.], R

Hyaloscyphaceae

- Lachnum bicolor* (Bull. : Fr.) P. Karst. var. *rubi* (Bres.) Dennis – 3 [16]

Leotiaceae

- Bisporella citrina* (Batsch : Fr.) Korf & S. E. Carp. – 1, 16 [1, 16]
Cudonia circinans (Pers.) Fr. – 3 [1]
Cudoniella rubicolum Velen. – 3 [16]
Hymenoscyphus fructigenum (Bull.) Gray – 16 [2]
H. sutulus (Pers. : Fr.) W. Phillips – 1 [16]
Leotia lubrica (Scop.) Pers. : Fr. – 5 [2], R
Neobulgaria pura (Fr.) Petrak – 16 [2]

Orbiliaceae

- Orbilia auricolor* Blox – 3 [16]

Sclerotiniaceae*Mitruła abietis* Fr. – 3 [16]*Rutstroemia elatina* (Alb. & Schwein. : Fr.) Rehm – 3 [16]**PEZIZALES****Helvellaceae***Helvella crispa* Fr. – 15 [1]*H. lacunosa* Afzel. – 15 [2]*H. elastica* (Bull. : Fr.) Boud. – 3 [1, 2]*Paxina acetabulum* (L.) Kuntze – 5 [2]**Otideaceae***Cheilymenia crucipila* (Cooke & W. Phillips) Le Gal – 15 [1]*Humaria hemisphaerica* (Wigg.) Fuckel – 16 [1, 2]*Neottiella rutilans* (Fr.) Dennis – 16 [1, 2]*Otidea alutacea* (Pers.) Masee – 5 [1]*Scutellinia scutellata* (L.) Lambotte – 1, 17, 21 [2, 16, unpubl.]*S. stenosperma* Le Gal – 1 [16]*Tricharina gilva* (Boud.) Eckblad – 15 [1]**Pezizaceae***Aleuria aurantia* (Pers.) Fuckel – 1 [4]*Peziza echinospora* P. Karsten – 15, 16 [1]*P. macropus* Pers. – 5, 16 [2]*P. repanda* Pers. – 1 [16]*P. vesiculosa* Bull. – 16 [2]*Sarcosphaera coronaria* (Jacq.) J. Schröt. – 15 [2], **V, R****SORDARIALES****Lasiosphaeriaceae***Lasiosphaeria ovina* (Pers.) Ces. – 3 [16]**XYLARIALES****Xylariaceae***Daldinia concentrica* (Bolton) Ces. & De Not. – 15, 16 [2]*Hypoxylon fragiforme* (Scop.) Kickx – 2, 3, 16 [2, unpubl.]*H. nummularium* Bull. – 16 [2]*H. serpens* (Pers. : Fr.) Fr. – 2, 3 [unpubl.]*Ustulina deusta* (Hoffm. : Fr.) Lind. – 2, 3, 16, 21 [2, unpubl.]*Xylaria hypoxylon* (L.) Grev. – 3, 11, 16, 20 [2, 14, unpubl.]*X. polymorpha* (Pers.) Grev. – 2, 16 [2, unpubl.]**BASIDIOMYCOTA****AGARICALES****Agaricaceae***Agaricus campestris* L. – 16 [2]*A. macrosporus* (Moell. & J. Schaeff.) Moell. – 12, 16 [2, 12], **R***A. silvicola* (Vitt.) Sacc. – 15 [2]*Cystoderma amiantinum* (Scop. : Fr.) Fayod – 10 [2]*C. carcharias* (Pers.) Fayod – 3, 10 [2]*C. granulorum* (Batsch : Fr.) Fayod – 10 [2]*Lepiota aspera* (Pers. : Fr.) Quéf. – 12, 16 [2, 15]

- L. brunneoincarnata* Chodat & Martin – 5, 6 [2, 4]
L. cristata (Bolt. : Fr.) P. Kumm.– 5 [2]
L. subincarnata Lge. – 16 [2]
Macrolepiota procera (Scop. : Fr.) Singer – 16 [2]
M. rhacodes (Vitt.) Singer – 2, 3, 21 [2, unpubl.]

Amanitaceae

- Amanita battarrae* Boud. – 1 [16], **I**
A. muscaria (L.) Pers. – 3, 5, 16, 17 [2]
A. pantherina (DC. : Fr.) Krombh. – 3, 15, 16 [2]
A. phalloides (Fr.) Link – 3, 15, 16 [2]
A. rubescens Pers. : Fr. – 3, 5, 15, 16 [2]
A. spissa (Fr.) P. Kumm.– 3 [16]
A. vaginata (Bull. : Fr.) Vitt. – 2, 3, 4, 15, 16, 21 [2, unpubl.]
A. virosa (Fr.) Bertillon – 16 [2]
Limacella guttata (Pers. : Fr.) Konr. & Maubl. – 3 [2, 16]

Bolbitiaceae

- Agrocybe erebia* (Fr.) Kühner – 1 [16]
A. praecox (Pers. : Fr.) Fay – 9 [4]
Bolbitius vitellinus (Pers. : Fr.) Fr. – 1 [16]

Coprinaceae

- Coprinus angulatus* Peck – 1 [16]
C. atramentarius (Bull. : Fr.) Fr. – 4 [unpubl.]
C. impatiens (Fr.) Quéł. – 3, 4 [unpubl.]
C. micaceus (Bull. : Fr.) Fr. – 3, 4, 16, 17 [2, unpubl.]
C. niveus (Pers. : Fr.) Fr. – 15 [2]
C. plicatilis (Curt. : Fr.) Fr. – 3, 21 [unpubl.]
Panaeolus semiovatus (Sow. : Fr.) Lund – 16 [2]
P. sphinctrinus (Fr.) Quéł. – 16 [2]
P. subbalteatus (Berk. & Br.) Sacc. – 16 [2]
Psatyrella candolleana (Fr.) Maire – 1, 15, 16, 17 [16, unpubl.]

Entolomataceae

- Clitopilus prunulus* (Scop. : Fr.) P. Kumm. – 5, 23 [2, 14]
Entoloma incanum (Fr.) Hesler – 5 [2]

Hygrophoraceae

- Camarophyllus pratensis* (Pers. : Fr.) P. Kumm.– 3, 10, 16, 17 [2]
Hygrocybe acutoconica (Clements) Singer – 16 [2]
H. cantharellus (Schwein.) Murrill – 16 [2]
H. coccinea (Schaeff. : Fr.) P. Kumm.– 16 [2], **R**
H. langei Kühner – 16 [unpubl.]
H. nigrescens (Quéł.) Kühner – 15, 16 [2]
H. punicea (Fr.) P. Kumm.– 3, 17 [2], **R**
H. subglobispora (Orton) Moser – 17 [2]
Hygrophorus agathosmus (Fr.) Fr. – 10 [2]
H. chrysodon (Batsch : Fr.) Fr. – 5 [2]
H. cossus (Sow. : Fr.) Fr. – 5 [2]

H. eburneus (Bull. : Fr.) Fr. – 3, 5 11 [2, unpubl.]

H. hypothejus (Fr. : Fr.) Fr. – 10 [2]

H. marzuolus (Fr.) Bres. – 16 [2]

Pluteaceae

Pluteus atricapillus (Batsch) Fayod – 2, 3, 5, 10, 15 [2, unpubl.]

P. depauperatus Romagn. – 5, 16 [2]

P. leoninus (Schaeff. : Fr.) P. Kumm.– 22 [3]

P. pallescens P.D. Orton – 1 [16]

P. phlebophorus (Ditmar : Fr.) P. Kumm.– 1 [16]

P. umbrosus (Pers. : Fr.) P. Kumm.– 16 [2]

Strophariaceae

Hypholoma capnoides (Fr. : Fr.) P. Kumm.– 3, 16 [2, 16]

H. fasciculare (Huds. : Fr.) P. Kumm.– 3, 5, 10, 15, 17 [2]

H. sublateralitium (Fr.) Quél. – 1, 3, 11, 16 [2, 16, unpubl.]

Kuehneromyces mutabilis (Schaeff. : Fr.) Singer & Smith – 5, 15, 16 [2]

Pholiota adiposa (Batsch : Fr.) P. Kumm.– 3, 5 [2]

Ph. flammans (Batsch : Fr.) P. Kumm.– 3 [15, 16]

Ph. squarrosa (Müll. & Fr.) P. Kumm.– 3 [2]

Psilocybe semilanceata (Fr.) P. Kumm.– 16 [2]

Stropharia aeruginosa (Curt. : Fr.) Quél. – 2, 16 [2, unpubl.]

S. semiglobata (Batsch : Fr.) Quél. – 15, 16 [2]

Tricholomataceae

Armillaria mellea (Vahl. : Fr.) P. Kumm.– 16, 17 [2]

Clitocybe clavipes (Pers. : Fr.) P. Kumm.– 3, 15

C. dealbata (Sow. : Fr.) P. Kumm.– 10 [2]

C. fragrans (With. : Fr.) P. Kumm.– 3, 11 [unpubl.]

C. gibba (Pers. : Fr.) P. Kumm.– 3, 4, 5, 11, 15, 16

C. metachroa (Fr.) P. Kumm.– 16 [2]

C. odora (Bull. : Fr.) P. Kumm.– 5 [2]

C. tornata (Fr.) P. Kumm.– 17 [2]

Collybia acervata (Fr.) P. Kumm.– 15, 16 [2]

C. asema Fr. – 2, 3, 21 [unpubl.]

C. butyracea (Bull. : Fr.) P. Kumm.– 10, 16 [2]

C. confluens (Pers. : Fr.) P. Kumm.– 5, 16 [2]

C. dryophyla (Bull. : Fr.) P. Kumm.– 3, 4, 16, 21 [2, 16, unpubl.]

C. hariolorum (DC. : Fr.) Quél. – 2, 3, 11 [unpubl.]

C. maculata (Alb. & Schwein. : Fr.) P. Kumm.– 3 [2]

C. marasmioides (Britzelm.) Bresinsky & Stangl – 3, 15 [unpubl.]

C. peronata (Bolt. : Fr.) P. Kumm.– 2, 3, 11, 16 [2, unpubl.]

Crinipellis stipitaria (Fr.) Pat. – 17 [2]

Gerronema chrysophyllum (Fr.) Singer – 3 [16]

Laccaria amethystina (Bull.) Murr. – 2, 3, 5, 10, 15, 16, 21 [2, unpubl.]

L. laccata (Scop. : Fr.) Berk. & Br. – 3, 5, 10, 15, 16 [2, unpubl.]

Lepista flaccida (Sow. : Fr.) Pat. – 17 [2]

L. nebularis (Batsch : Fr.) Harmaja – 3, 5 [2, unpubl.]

- Leucopaxillus giganteus* (Fr.) Singer – 5, 16 [2]
Lyophyllum connatum (Schumah. : Fr.) Singer – 3 [2]
L. decastes (Fr. : Fr.) Singer – 16 [2]
Marasmius alliaceus (Jacq. : Fr.) Fr. – 3, 5, 15, 16, 17 [2, 16, unpubl.]
M. androsaceus (L.) Fr. – 3, 4, 5 [2, unpubl.]
M. calopus (Pers. : Fr.) Fr. – 1 [16]
M. oreades (Bolt. : Fr.) Fr. – 16 [2]
M. rotula (Scop. : Fr.) Fr. – 2, 3 [unpubl.]
M. wynnei Berk. & Br. – 4, 17 [2, unpubl.]
Megacollybia platyphylla (Pers. : Fr.) Kotl. & Pouzar – 3, 5 [2]
Melanoleuca melaleuca (Pers. : Fr.) Maire – 3 [2]
Mycena acicula (Schaeff. : Fr.) P. Kumm.– 3, 11 [unpubl.]
M. aetites (Fr.) Quél. – 3 [16]
M. alcalina (Fr. : Fr.) P. Kumm.– 3 [16]
M. crocata (Schrad. : Fr.) P. Kumm.– 2, 3, 11, 21 [2, unpubl.]
M. epipterygia (Scop. : Fr.) S.F. Gray – 3 [unpubl.]
M. filopes (Bull. : Fr.) P. Kumm.– 3, 4, 21 [unpubl.]
M. flavescens Velen. – 1 [16]
M. galericulata (Scop. : Fr.) S.F. Gray – 3, 4, 16 [2, unpubl.]
M. galopus (Pers. : Fr.) P. Kumm.– 16 [2]
M. inclinata (Fr.) Quél. – 2, 3, 21 [unpubl.]
M. pelianthina (Fr.) Quél. – 3 [unpubl.]
M. polygramma (Bull. : Fr.) S.F. Gray – 3, 4, 5 [2, unpubl.]
M. pura (Pers. : Fr.) P. Kumm.– 1, 3, 10, 15, 16 [2, 16]
M. rorida (Scop. : Fr.) Quél. – 1 [16]
M. sanguinolenta (Alb. & Schwein. : Fr.) P. Kumm.– 3 [2]
M. viscosa Maire – 2, 3 [2, unpubl.]
Oudemansiella mucida (Schrad. : Fr.) Quél. – 2, 3, 5, 16 [2, 16, unpubl.]
O. radicata (Relh. : Fr.) Singer – 2, 3, 4, 11, 16, 17 [2, unpubl.]
Panellus serotinus (Schrad. : Fr.) Kühner – 16 [4]
P. stipticus (Bull. : Fr.) P. Karst. – 1, 2, 3 [16, unpubl.]
Rickenella fibula (Bull. : Fr.) Raitelh. – 10 [2]
Tricholoma albobrunneum (Pers. : Fr.) P. Kumm.– 3 [2]
T. argyraceum (Bull. : Fr.) Gillet – 16 [2]
T. flavovirens (Pers. : Fr.) S. Lundell – 3 [2]
T. imbricatum (Fr. : Fr.) P. Kumm.– 24 [0]
T. saponaceum (Fr.) P. Kumm.– 3 [2]
T. sulphureum (Bull. : Fr.) P. Kumm.– 3 [16]
T. vaccinum (Pers. : Fr.) P. Kumm.– 10 [2]
T. virgatum (Fr. : Fr.) P. Kumm.– 16 [2]
Tricholomopsis rutilans (Schaeff. : Fr.) Singer – 3 [2, 16]
Xeromphalina campanella (Batsch. : Fr.) Kühner & Maire – 3, 16 [2, 16]

BOLETALES**Boletaceae**

- Boletus aereus* Bull. : Fr. – 3 [2]

- B. aestivalis* Paulet : Fr. – 5 [2]
B. appendiculatus Schaeff. – 16 [2], **R, R**
B. edulis Bull. : Fr. – 3, 4, 5, 11, 16, 25 [0, 2, unpubl.]
B. erythropus (Fr. : Fr.) Krombh. – 1, 17 [2, 16]
B. impolitus Fr. – 5 [2]
B. luridus Schaeff. : Fr – 16 [2].
B. pinophilus Pilat & Dermek – 3 [2]
B. queletii Schulzer – 16 [2]
B. satanas Lenz – 25 [0], **V**
Leccinum griseum (Quél.) Singer – 5, 15 [2]
L. scabrum (Bull. : Fr.) S. F. Gray – 16, 17 [2]
Suillus bovinus (L. : Fr.) Kuntze – 24 [0]
S. luteus (L. : Fr.) S.F. Gray – 3, 10 [2]
- Gomphidiaceae**
Chroogomphus rutilus (Schaeff. : Fr.) O.K. Mill. – 1, 3 [2, 16]
Gomphidius glutinosus (Schaeff. : Fr.) Fr. – 3 [2]
G. maculatus (Scop.) Fr. – 16 [unpubl.]
- Gyrodontaceae**
Gyroporus castaneus (Bull. : Fr.) Quél. – 16 [2]
G. cyanescens (Bull. : Fr.) Quél. – 3, 5, 15 [2]
- Paxillaceae**
Paxillus involutus (Batsch : Fr.) Fr. – 15 [2]
- Strobilomycetaceae**
Porphyrellus porphyrosporus (Fr.) Gilb. – 3 [15], **R**
Strobilomyces strobilaceus (Scop. : Fr.) Berk. – 5, 16 [2], **R, R**
- Xerocomaceae**
Phylloporus pelletieri (Lév.) Quél. – 15 [7], **E**
Xerocomus badius (Fr. : Fr.) Gilbert – 3, 5 [2]
X. chrysenteron (Bull.) Quél. – 2, 3, 11, 16, 21 [2, unpubl.]
X. fragilipes (C. Martin) Pouzar – 16 [2], **R**
X. pruinaeus (Fr.) Quél. – 16 [unpubl.]
X. rubellus Quél. – 16 [2]
X. spadiceus (Fr.) Quél. – 16 [2]
X. truncatus Singer, Snell & Dick – 16 [2]
- CANTHARELLALES**
- Cantharellaceae**
Cantharellus cibarius Fr. – 15, 16 [2]
- Clavariaceae**
Clavaria fumosa Pers. : Fr. – 16 [2]
C. rosea Dalm. : Fr. – 16 [2]
C. vermicularis Fr. – 16 [2]
- Clavariadelphaceae**
Clavariadelphus fistulosus (Fr.) Corner – 16 [2], **R**
C. pistillaris (Fr.) Donk – 3, 5, 17 [2], **R, R**
- Clavulinaceae**
Clavulina cinerea (Bull. : Fr.) Schroet. – 15 [2]

C. cristata (Fr.) Schroet. – 16 [2]

C. rugosa (Bull. : Fr.) Schroet. – 16 [2]

Craterellaceae

Craterellus cornucopioides (L.) Pers. – 16 [2]

Pseudocraterellus sinuosus (Fr.) Corner – 5, 16 [2]

Hydnaceae

Hydnum repandum L. – 4, 10, 11, 16 [2, unpubl.]

H. rufescens Fr. – 3, 15, 16 [2]

Scutigeraeae

Albatrellus cristatus (Schaeff. : Fr.) Kotl. & Pouzar – 16 [2], **R**

CORTINARIALES

Cortinariaceae

Cortinarius allutus Fr. – 3, 16 [2]

C. bulbosus (Sow. : Fr.) Fr. – 10 [2]

C. bulliardii (Pers. : Fr.) Fr. – 16 [2]

C. delibutus Fr. – 3, 21 [unpubl.]

C. evernius (Fr. : Fr.) Fr. – 15 [2]

C. gentilis (Fr.) Fr. – 3 [2]

C. glaucopus (Schaeff. : Fr.) Fr. – 10 [2]

C. largus Fr. – 16 [2]

C. obtusus (Fr. : Fr.) Fr. – 10 [2]

C. purpurascens (Fr.) Fr. – 16 [2]

C. rufoolivaceus (Pers. : Fr.) Fr. – 15, 16 [2], **R**

C. saturninus (Fr.) Fr. – 3 [16]

C. torvus (Fr. : Fr.) Fr. – 5, 16 [2]

Dermocybe cinnabarina (Fr.) Wünsche – 10 [2]

D. cinnamomeolutea (Orton) Moser – 10 [2]

D. punicea (Orton) Moser – 5, 16 [2]

D. sanguinea (Wulf. : Fr.) Wünsche – 3 [2]

Galerina hypnorum (Schrank : Fr.) Kühner – 3, 10 [2, 16]

G. marginata (Batsch) Kühner – 10 [2]

G. pumila (Pers. : Fr.) Singer – 5, 16 [unpubl.]

Gymnopilus junonius (Fr. : Fr.) Orton – 16 [2]

G. spectabilis (Fr. : Fr.) Smith – 16 [unpubl.]

G. subsphaerosporus (Joss.) Kühner & Romagn. – 3 [16]

Inocybe bongardii (Weinm.) Quél. – 3 [2]

I. geophylla (Sow. : Fr.) P. Kumm. – 1 [16]

I. petiginosa (Fr.) Gillet – 16 [2]

I. rimosa (Bull. : Fr.) P. Kumm. – 3, 16 [16, unpubl.]

Rozites caperata (Pers. : Fr.) P. Karst. – 16 [2], **V, R**

Simocybe centunculus (Fr. : Fr.) P. Karst. – 1 [16]

Crepidotaceae

Crepidotus applanatus (Pers.) P. Kumm. – 1 [16]

C. mollis (Schaeff. : Fr.) Staude – 1 [16]

Tubaria furfuracea (Pers. : Fr.) Gillet – 1 [16]

DACRYMYCETALES**Dacrymycetaceae**

Calocera cornea (Batsch : Fr.) Fr. – 3, 5, 21 [2, unpubl.]

C. viscosa (Pers. : Fr.) Fr. – 3, 10, 17 [2]

Dacrymyces stillatus Nees : Fr. – 5 [2]

GANODERMATALES**Ganodermataceae**

Ganoderma lipsiense (Batsch) Atk. – 3 [2]

G. lucidum (Curt. : Fr.) P. Karst. – 15 [2]

GOMPHALES**Ramariaceae**

Ramaria flava (Schaeff. : Fr.) Quél. – 3 [2]

R. formosa (Pers. : Fr.) Quél. – 16 [unpubl.]

HERICIALES**Clavicornaceae**

Clavicornia pyxidata (Pers. : Fr.) Donk – 8 [14]

Hericiaceae

Creolophus cirrhatus (Pers. : Fr.) P. Karst. – 16 [2], **R, R**

Hericium ramosum (Bull.) Letell. – 5, 16 [2], **V, R**

HYMENOCHAETALES**Hymenochaetaceae**

Coltricia perennis (L. : Fr.) Murrill – 3, 16 [2]

Phellinus conchatus (Pers. : Fr.) Quél. – 1 [11]

Ph. nigrolimitatus (Romell) Bourdot & Galzin – 15 [8]

Ph. viticola (Schwein. & Fr.) Donk – 3 [11]

LYCOPERDALES**Gastraceae**

Gastrum fimbriatum Fr. – 5, 11 [2, unpubl.]

Lycoperdaceae

Bovista nigrescens Pers. : Pers. – 15 [2]

B. plumbea Pers. – 15, 16, 17 [2]

Calvatia utriformis (Bull. : Pers.) Jaap – 10, 15, 16, 17 [2]

Lycoperdon echinatum Pers. : Pers. – 5 [2]

L. perlatum Pers. : Pers. – 10, 15, 16, 17 [2]

L. pyriforme Schaeff. – 2, 3, 4, 5, 16 [2, unpubl.]

Vascellum pratense (Pers. : Pers.) Kreisel – 16 [2]

NIDULARIALES**Nidulariaceae**

Crucibulum laeve (Huds.) Kambly – 15 [2]

Cyathus olla Batsch – 16 [2]

C. striatus (Huds.) Willd.: Pers. – 5 [2]

PHALLALES**Phallaceae**

Phallus impudicus L. : Pers. – 3, 15 [2, unpubl.]

PORIALES**Coriolaceae**

Antrodia salicina (Bres.) Niemala – 20 [10]

- Antrodiella semisupina* (Berk. & Curt.) Ryvarden – 19 [7]
Bjerkandera adusta (Willd.) P. Karst. – 2, 3 [unpubl.]
Cerrena unicolor (Bull. : Fr.) Murrill – 24 [0]
Daedaleopsis confragosa (Bolt. : Fr.) Schröter f. *rubescens* (Fr.) Donk – 23 [14]
Datronia mollis (Sommerf. : Fr.) Donk – 3 [unpubl.]
Donkioporia expansa (Desm.) Kotl. & Pouzar – 26 [9]
Fomes fomentarius (L. : Fr.) Fr. – 4, 11, 16, 24 [0, 2, unpubl.]
Fomitopsis pinicola (Sow. : Fr.) P. Karst. – 3 [2]
Gloeophyllum sepiarium (Wulfen : Fr.) P. Karst. – 5, 10 [2]
Grifola umbellata (Pers. : Fr.) Pilat – 8 [12]
Heterobasidion annosum (Fr.) Bref. – 3 [unpubl.]
Ischnoderma benzoinum (Wahlenb. : Fr.) Pouzar – 14, 15, 18 [10]
Piptoporus betulinus (Bull. : Fr.) P. Karst. – 17 [2]
Pseudotremetes gibbosa (Pers.) Boud. & Singer – 16 [2]
Pycnoporus cinnabarinus (Jacq. : Fr.) P. Karst. – 2, 3, 21 [unpubl.]
Trametes hirsuta (Wulfen : Fr.) Pilat – 3, 4 [unpubl.]
T. versicolor (Fr.) Pilat – 4, 11, 15, 16, 17 [2, unpubl.]
Tyromyces chioneus (Fr. : Fr.) P. Karst. – 3 [2]
T. stipticus (Pers. : Fr.) Kotl. & Pouzar – 3, 16 [2]

Lentinaceae

- Lentinellus cochleatus* (Pers. : Fr.) P. Karst. – 5 [unpubl.]
Panus conchatus (Bull. & Fr.) Fr. – 16 [2]
P. rudis Fr. – 1 [16]
Pleurotus cornucopiae (Paulet ex Pers.) Rolland – 2, 5 [2, unpubl.]
P. lignatilis (Pers. : Fr.) P. Kumm. – 5 [13]
P. ostreatus (Jacq. : Fr.) P. Kumm. – 15 [2]

Polyporaceae

- Polyporus badius* (S.F. Gray) Schwein. – 3, 15, 16 [2]
P. brumalis (Pers. : Fr.) Fr. – 17 [2]
P. ciliatus Fr. : Fr. – 3, 15, 16 [unpubl.]
P. squamogerus Pilat – 18 [7]
P. squamosus (Huds. : Fr.) Fr. – 3, 15, 16, 24 [0, 2]
P. varius (Pers. : Fr.) Fr. – 4, 5, 11, 16 [2, unpubl.]

RUSSULALES**Russulaceae**

- Lactarius blennius* (Fr.) Fr. – 2, 3, 5, 15, 16 [2, unpubl.]
L. deterrimus Gröger – 3 [2]
L. fuliginosus (Fr. : Fr.) Fr. – 20 [14]
L. mitissimus (Fr.) Fr. – 10 [2]
L. pallidus (Pers. : Fr.) Fr. – 3, 11 [2, unpubl.]
L. picinus Fr. – 3 [16]
L. piperatus (L. : Fr.) S.F. Gray – 2, 3, 5, 15 [2, unpubl.]
L. rufus (Scop. : Fr.) Fr. – 3 [2]
L. spinosulus Quél. – 16 [2], **R**
L. vellereus (Fr. : Fr.) Fr. – 1, 3, 5, 16 [2, 16]

- L. volemus* (Fr.) Fr. – 3, 5, 15, 16 [2]
Russula alutacea (Pers. : Fr.) Fr. – 3 [16]
R. atropurpurea (Krombh.) Britzelm. – 5 [2]
R. claroflava Grove – 5, 15, 16 [2]
R. cyanoxantha (Schaeff.) Fr. – 3, 5, 15, 16, 21 [2, unpubl.]
R. delica Fr. emend Bres. – 5, 17 [2, 13]
R. fellea (Fr. : Fr.) Fr. – 2, 3 [unpubl.]
R. fragilis (Pers. : Fr.) Fr. – 3, 15 [2]
R. grisea Fr. – 16 [2]
R. integra (L.) Fr. – 3 [16]
R. integra f. pseudoolivascens Romagn. – 3 [16]
R. ionochlora Romagn. – 16 [2]
R. lutea (Huds. : Fr.) S.F. Gray – 16 [2]
R. luteotacta Rea – 1, 16 [2, 16]
R. mairei Singer – 5, 15 [2]
R. mustelina Fr. – 10 [2]
R. ochroleuca Pers. – 3, 4, 11 [unpubl.]
R. olivacea (Schaeff.) Pers. – 17 [2]
R. pectinatoides Peck – 1 [16]
R. pulchella I.G. Borshch. – 16 [2]
R. rosea Pers. – 1, 3, 4, 5, 11, 16 [2, 16, unpubl.]
R. sardonica Fr. – 3 [2]
R. vesca Fr. – 15 [2]
R. virescens (Schaeff.) Fr. – 1, 15, 16 [2, 16]
R. xerampelina (Schaeff.) Fr. – 5 [2]

SCHYZOPHYLLALES**Schizophyllaceae**

- Schizophyllum commune* Fr. – 5, 16 [2]

SCLERODERMATALES**Astraeaceae**

- Astraeus hygrometricus* (Pers.) Morgan – 5, 15 [2]

Sclerodermataceae

- Scleroderma citrinum* Pers. – 15, 16 [2]
S. verrucosum Bull. : Pers. – 2 [unpubl.]

STEREALES**Aleurodiscaceae**

- Aleurodiscus disciformis* (DC. : Fr.) Pat. – 7, 8 [15]

Hyphodermataceae

- Schizopora paradoxa* (Schrad. : Fr.) Donk – 3 [unpubl.]

Meruliaceae

- Chondrostereum purpureum* (Fr.) Pouzar – 3 [unpubl.]
Merulius tremellosus (Schrad.) Fr. – 16 [2, 4]

Podoscyphaceae

- Podoscypha multizonata* (Berk. & Br.) Pat. – 5 [2]

Steccherinaceae

- Caloporus taxicola* (Pers. : Fr.) Ryvarden – 13, 14 [7]

Junghuhnia separabilima (Pouzar) Ryvarden – 8 [10]

Stereaceae

Stereum hirsutum (Willd. : Fr.) Pers. – 3, 27 [0, 2]

S. rugosum (Pers. : Fr.) Fr. . – 2, 3, 11 [unpubl.]

TELEPHORALES

Telephoraceae

Sarcodon imbricatus (L.) P. Karst. – 10 [2]

Telephora palmata (Scop. : Fr.) Fr. – 5 [2]

T. terrestris Willd. : Fr. – 3, 15 [unpubl.]

TREMELLALES

Exidiaceae

Exidia glandulosa Fr. – 3, 4 [2, unpubl.]

Pseudohydnum gelatinosum (Scop. : Fr.) P. Karst. – 5 [unpubl.]

Tremellaceae

Tremella mesenterica Retz. : Fr. – 5 [2]

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