

A checklist of the Greenland basidiomycetes

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Abstract

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A checklist of 868 taxa of basidiomycetes from Greenland is presented including 847 species, 1 subspecies, 12 varieties and 8 forms. Of these, 172 taxa are reported for the first time from Greenland, not including the species reported as new to Greenland in other papers in these proceedings. The list is based on records from the 120 references listed below, including original information on Greenland basidiomycetes, and on material in different herbaria, mainly the approximately 8.000 collections in the Botanical Museum in Copenhagen. The list serves as the base for a forthcoming funga.

The new combination *Hemimycena albicolor* (A. H. Sm.) Elborne is proposed.

Keywords: arctic biodiversity, fungal biodiversity, arctic basidiomycetes, Greenland

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Introduction

The first checklist of basidiomycetes from Greenland is presented, based on material in herbaria, mainly in Copenhagen (C), and on literature references. The list includes 868 taxa. The compilation is semicritical;

therefore, names in the literature, which we regard as erroneous, are omitted and not further treated. They will, however, be discussed in the forthcoming funga. A small number of preliminary identifications (cf.) published in the literature by various authors are, however, included. A number of the included taxa have not yet been critically revised, and errors therefore still exist to be corrected when the material is critically revised. In spite of these shortcomings we hope the checklist will serve as an easy overview of this large and important group of fungi in Greenland, until a proper funga has been produced. A preliminary version of the list also served as a quick reference at the 6th International Symposium on Arctic and Alpine Mycology (ISAM 6), which took place in Greenland in 2000.

Completeness

During the 28 years we have collected basidiomycetes in Greenland, we rarely paid attention to the Urediniomycetes (rusts) and the Ustilaginomycetes (smuts). However, to make the forthcoming funga complete for basidiomycetes, we therefore decided in a late moment to include these groups too. Thus, they are included on the basis of old and less systematic collecting and other scattered information, and judging from lists from similar places in Siberia (Karatygin *et al.* 1999) the real number of species must be higher than recorded in this list.

For the main group of basidiomycetes, the fleshy agarics, boletes, polypores, puff-balls, jelly fungi, club-fungi, corticioid fungi and similar groups, we believe that the list covers well, although naturally more species will be added with more studies.

Over the years we planned our expeditions in a way so that most habitats and geographical areas of

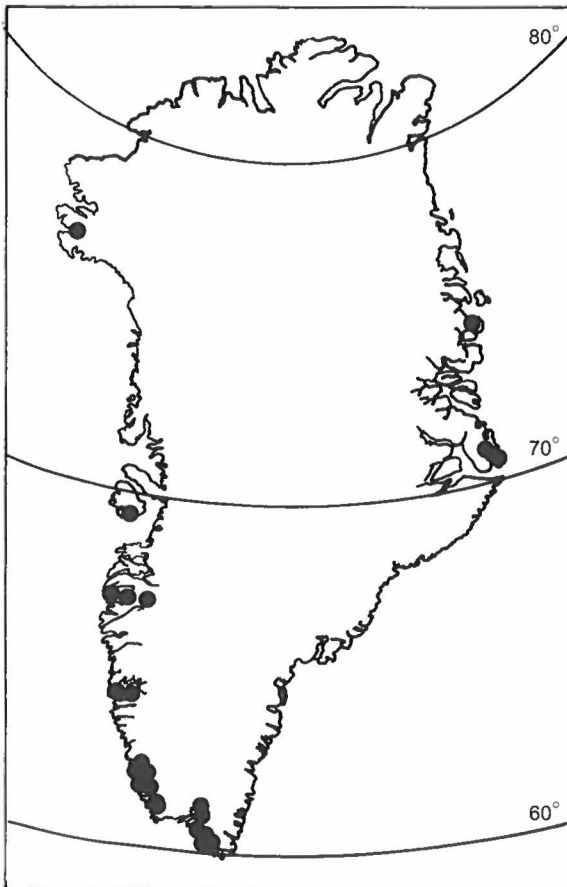


Fig. 1. Greenland localities specially investigated by at least one of the authors.

Greenland were covered. Thus, we have visited the forest valley (Qinnqua) in Tasermiut fjord three times where the largest concentration of Mountain birch (*Betula pubescens* Ehrh. coll.) is found, and where they attain the largest sizes in Greenland. The Kangilinnuit (Grønneidal) area with scrubs of *Alnus crispa* (Ait.) Pursh was also visited three times. The Paamiut (Frederikshåb) region was the area where TB lived for more than 22 years and is therefore the best-known fungal site in Greenland, including the fungi adapted to the moist oceanic climate found along the coast and in the heaths. Aspects of this area has been treated by Borgen (2006) in a paper included in these proceedings. In Central Western Greenland on Disko and in Central Eastern Greenland on Jameson Land large areas have basic soils due to the \pm calcareous underground. The Disko area was visited once by us, but has been investigated by other mycologists such as P. Milan Petersen, M. Lange and D. Lamoure (see refer-

ences below). Also Jameson Land with large areas of *Dryas*-heaths was visited once. Kangerlussuaq is the deepest fjord in Greenland, and has therefore in the inner parts a special, dry continental climate and a rich soil (loess). This area was visited several times by us and by M. Lange, who made the first larger study of the Greenland basidiomycetes based on a three-month stay there. In the Nuup Kangerlua (Godthåb Fjord) we studied the copses of *Alnus* and *Salix* once. From the northernmost parts of Greenland we have less information than from the other parts. The Qaanaaq (Thule) area in northwestern Greenland was visited once and similarly the Zackenberg area in northeastern Greenland was visited once recently.

In summary, the authors have collected in Greenland for a number of years. T. Borgen lived for 22 years (1978-2000) in SW Greenland (Paamiut) and collected intensively in that area. Besides, he has participated in expeditions to other parts of Greenland in 1983, 1984, 1985, 1986, 1987, 1989, 1991, 1999, 2000 and 2002. S. A. Elborne has participated in expeditions in 1981, 1986, 1987, 1988, 1989 and 2000 and H. Knudsen in 1983, 1984, 1987, 1989, 1991 and 2000.

Fig. 1 is a map with the areas we have investigated during one or more seasons. Fig. 2 is a map of all the localities from where the so far 6800 collections of Greenlandic basidiomycetes in herbarium C entered in our database originate.

Mode of presentation

The list is presented as a list of the three classes of basidiomycetes. Of these, the Hymenomycetes has been treated as a number of clades resulting from recent molecular studies by Hibbett and Thorn (2001), Larsson & Larsson (2003) and Binder *et al.* (2005). Within each clade one or more orders are found, and in these, the families, genera and species are treated alphabetically.

For each order or sometimes family, a few words characterize the contents of the order regarding form-groups.

Subspecies, varieties and forms are included if known. Author names are abbreviated according to www.indexfungorum.org/Names/AuthorsOffFungalNames.asp.

The names used are to our best knowledge the

current names. The taxonomy of the basidiomycetes is however strongly changing these years due to recent molecular studies. Misapplications and older, rarely used synonyms are included to help the reader when looking for the name in the older literature. If the misapplication or synonym is mentioned only as an epithet, it is understood that the genus is the same in the literature referred to. If it was placed in another genus the generic name is also mentioned. Species not mentioned in the printed references at the end of the paper are marked with (C), meaning that material is present in Herbarium C. These taxa are here reported for the first time from Greenland. In a few cases material is not present in C, but in other herbaria, which are stated with their herbarium code according to Index Herbariorum (www.nybg.org) with the exception of SVER, which is the acronym for the herbarium at the Institute of Plant and Animal Ecology at the Academy of Sciences, Ural Branch, Yekaterinburg (Sverdlovsk), Russia. If material is present in C and in other herbaria, only C is mentioned. It is to be understood that for all taxa where a reference is mentioned there is also material in C. If this is not the case, the mark (- C) comes after the references. In a few cases a record is included lacking both a printed reference and material; if so the record is included for other reasons, e.g. based on a photograph.

A number of species are not naturally occurring in Greenland, but have been introduced with planted conifers, or occur only on imported timber of conifers. Such taxa have been marked "introduced", to warn the reader from making wrong conclusions about the natural distribution of these taxa.

List of public and private herbaria including cited material from Greenland

- C: Herbarium, Botanical Garden & Museum, University of Copenhagen, Denmark
- GB: Herbarium, University of Gothenburg, Sweden
- O: Herbarium, Botanical Garden & Museum, University of Oslo, Norway
- SVER: Herbarium, Institute of Plant and Animal Ecology, Yekaterinburg, Russia

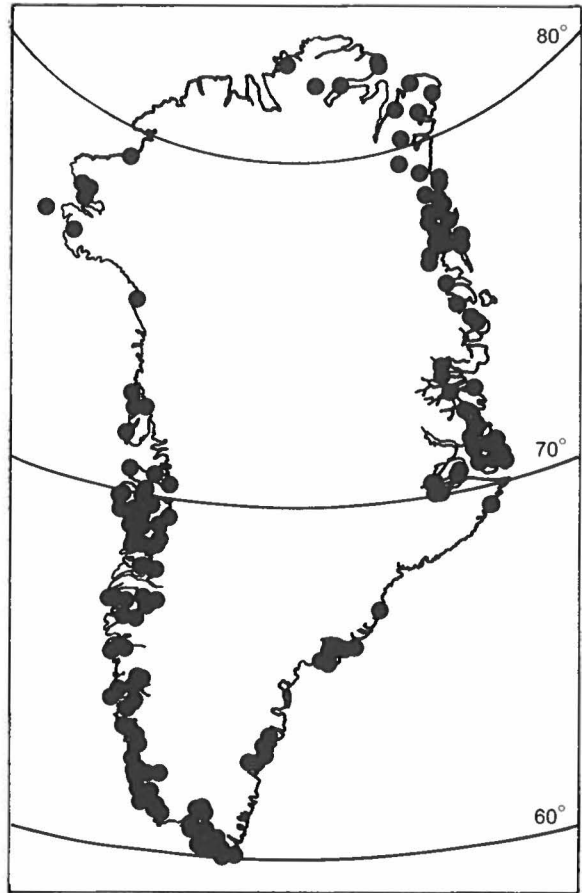


Fig. 2. Greenland localities with material of basidiomycetes present and digitalised in the Copenhagen herbarium (C).

- TRH: Vitenskapsmuseet, Norges teknisk-naturvidenskabelige Universitet, Trondheim, Norway
- Kobayasi: Yosio Kobayasi, Tokyo, Japan, material not located
- Lamoure: Denise Lamoure, Lyon, France
- Moreau: Pierre-Arthur Moreau, Lille, France
- Rald: Erik Rald, Copenhagen, Denmark
- Rune: Flemming Rune, Copenhagen, Denmark
- Senn-Irlet: Beatrice Senn-Irlet, Bollingen, Switzerland

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A list of primary references, i.e. in which the author(s) of the particular reference has seen and recorded material from Greenland is listed in Table 1. Also a few

Table 1. List of references mentioning material of basidiomycetes from Greenland which the authors of the papers have seen.

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references where one of the present authors has communicated his knowledge about Greenlandic material to other authors are included. Secondary references citing papers about Greenland basidiomycetes have been omitted as well as tertiary references dealing with the same fungi but from other parts of the world, whether or not it is arctic or alpine. The references are listed alphabetically and numbered. For each taxon in the checklist all the reference-numbers in which the taxon is mentioned are listed numerically.

A few basidiomycetes in Greenland are lichenized. In the genus *Multiclavula* two species with club-shaped fruitbodies occur and in *Lichenomphalina* four species, which are lichenized, and therefore also occur in the lichenological literature. Of these, however, it is practically only *Lichenomphalia hudsoniana*, which has been mentioned in the lichenological literature from Greenland due to the conspicuous scales. We have not scrutinized the lichenological literature for records of these six species but only included a few representative references.

Acknowledgements

Some of the groups in the list are well known from Greenland and have been treated more thoroughly in special papers, whereas others are still in need of a revision. Besides the published papers we have made use of identifications from some of our colleagues, to whom we are grateful for placing their identifications at our disposal. Many corticioid and heterobasidiomycetous fungi were identified by the late Knud Hauerslev (Copenhagen). Polypores and club fungi have been partly revised by Jens H. Petersen (Århus), and from Jan Vesterholt (Copenhagen) we have re-

ceived a list with a revision of the *Hebeloma*-species. For the sake of completeness we have included much information on the genera *Galerina* and *Phaeogaleria* based on the paper by Gro Gulden included in these proceedings. Likewise, the information on *Lycoperdon* is mostly based on Jeppsons paper and similarly a number of corticioid fungi new to Greenland in Mukhins paper are included, recognizing the publication of the species new to Greenland as taking place in their respective papers, whereas we merely cite them. A number of colleagues have informed us on collections of species not known to us from Greenland: Christian Bay, David Boertmann, Henry Dissing, Bent Fredskild, Henrik F. Gøtzsche, Thomas Læssøe, Peter Milan Petersen, Erik Rald, Flemming Rune and Morten Strandberg (all Copenhagen), Nils Hallenberg (Gothenburg), Beatrice Senn-Irlet (Bollingen), Pierre-Arthur Moreau (Lille) are kindly thanked for their information and Sigmund Sivertsen (Trondheim) for having put his material of agarics from Greenland at our disposal.

In spite of the achieved knowledge there are still some large genera which strongly need a revision, and where only a few of the occurring species are mentioned. This is especially true for *Psathyrella* and *Coprinus*, and for parts of *Cortinarius*, *Inocybe*, *Russula* and *Entoloma*.

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UREDINIOMYCETES – Rust fungi

UREDINALES

Coleosporiaceae Dietel

Chrysomyxa Unger

- empetri* (Pers.) Cumm. 96, 97
ledi (Alb. & Schwein.) de Bary 96, 97
pirolata G. Winter 38, 82, 96, 97, 98

Melampsoraceae Dietel

Melampsora Castagne

- epitea* (Kunze & Schumach.) Thüm. 10, 33, 38, 75, 76, 77, 78, 81, 96, 97, 98, 99
 (many as *M. arctica*)

Pucciniastraceae Leppik

Naohidemyces S. Sato, Katsuya & Y. Hirats.

- vaccinii* (Alb. & Schwein.) S. Sato, Katsuya & Y. Hirats. 1 (as *Melampsora vaccinii*)

Pucciniastrum Otth

- guttatum* (J. Schröt.) Hyl., Jørst. & Nannf. 38
pyrolae (Pers.) Arthur (C)

Phragmidiaceae Corda

Trachyspora Fuckel

- intrusa* (Grev.) Arthur 21, 38, 80, 82
 (as *alchemillae*), 96, 97, 99

Pucciniaceae Chev.

Gymnosporangium Hedwig

- cornutum* Kern 47, 96, 97

Puccinia Pers.

- albulensis* Magnus 38, 58, 82
arenariae (Schumach.) G. Winter 78, 96, 97
bistortae (F. Strauss) DC. 38, 58, 96, 97, 98
blyttii de Toni 97, 98, 99
borealis Juel (C)
campanulae Carm. 26, 34, 38, 98
cruciferarum Rudolphi 1, 38, 75, 76, 78
 (as *cardamines-bellidifolia*)
 ssp. *nearctica* Savile & Parmelee 106
drabae Rudolphi 1, 38, 46, 80, 96, 97, 99
 (as *cruciferarum* on *Vesicaria*)
epilobii DC. 46, 82, 99

- eutremae* Lindr. 38, 82 (as *cochleariae*)
hieracii (Röhl.) Mart. 46, 58, 96, 97, in 96
 and 97 mixed with *variabilis*
holboellii (Hornem.) Rostr. 96
lyngei Jørst. 38
nova-zemblaiae Jørst. 38
oxyriae Fuckel 38
pazschkei Dietel 38
 var. *jueliana* (Dietel) Savile 108
pedicularis Thüm. 34, 38, 107
persistens Plowr. 82 (as *thulensis*)
poae-nemoralis Otth 96
pulverulenta Grev. 96, 97
saxifragae Schlecht. 31, 38, 78, 96, 98, 99
 var. *curtipes* (Howe) Dietel 108
 var. *longior* Savile 108
saxifragae-tricuspidatae Hennings 1
scandica Johans. 38, 46
septentrionalis Juel 38, 82, 96
 (as *Aecidium sommerfeltii*)
thlaspeos Schub. 78
thymi (Fuckel) Henderson 97 (as *schneideri*)
veronicarum DC. 96, 97, 98, 99

USTILAGINOMYCETES – Smut fungi

EXOBASIDIALES

Exobasidiaceae J. Schröt.

Arcticomyces Savile

- warmingii* (Rostr.) Savile 45, 86, 96, 97, 99, 105

Exobasidium Woronin

- aequale* Sacc. 89
cassiopes Peck 80 (as *myrtilli* f. *amphigena*), 89
hypogenum Nannf. 89
splendidum Nannf. 89
vaccinii (Fuckel) Woronin 89, 93, 96, 97
vaccinii-uliginosi Boud. 1 (as *vaccinii*), 45, 58, 81, 97, 99

USTILAGINALES

Ustilaginaceae L. R. Tul. & C. Tul.

Anthracoidea Bref.

- bigelowii* Nannf. (C)
elynae (H. Syd.) Kukk. 22, 76, 109
heterospora (B. Lindeb.) Kukk. (C)
karii (Liro) Nannf. (C)
rupestris Kukk. (C)

scirpi (Kühn) Kukk. 82

Schizonella J. Schröt.

melanogramma (DC.) J. Schröt. 39

Sphacelotheca de Bary

hydropiperis (Schumach.) de Bary 96, 97, 98, 99

Ustilago (Pers.) Roussel

bistortarum (DC.) Körnicke 39, 80, 82, 96, 97, 98

hyperborea A. Blytt 39

koenigiae Rostr. 39, 96, 97

vinosa Tul. & C. Tul. 39, 80, 81, 82, 96, 97, 98, 99

violacea (Pers.) Roussel 39, 97

Ustilentyloma Savile

pleuropogonis Savile 109

TILLETIALES

Tilletiaceae J. Schröt.

Tilletia Tul. & C. Tul.

cerebrina Ellis & Everh. (C)

UROCYSTALES

Urocystis Fuckel

agropyri (Preuss) Fischer von Waldheim 97

anemones (Pers.) G. Winter 97

junci Lagerh. 39

sorosporoides Fischer von Waldheim 39, 97, 98, 99

triseti (Ciferri) Zundel 39

HYMENOMYCETES – Mushrooms, polypores, club fungi, puff-balls, jelly fungi, corticioid fungi

TREMELLALES – Jelly fungi

Tremellaceae Fr.

Tremella Pers.

foliacea Pers. 28, 54

indecorata Sommerf. (C)

mesenterica Retz. 12, 13, 28, 54, 65, 97 (as lutescens)

DACRYOMYCETALES – Jelly fungi

Dacryomycetaceae J. Schröt.

Cerinomyces G. W. Martin

crustulinus (Bourdot & Galzin) G. W. Martin 54 (on imported wood)

Dacryomyces Nees

adpressus Grognot (C)

minor Peck 54, 87

stillatus Nees 12, 13, 16, 54

Ditiola Fr.

radicata (Alb. & Schwein.) Fr. (C; on imported wood)

AURICULARIALES – Jelly fungi

Exidiaceae R. T. Moore

Basidiodendron Rick

caesiocinereum (Höhn. & Litsch.) Luck-Allen 54 (mat. in GB)

eyrei (Wakef.) Luck-Allen 54

Exidia Fr.

nucleata (Schwein.) Burt 87 (mat. in SVER)

recisa (Ditmar) Fr. 12, 13, 97

repanda Fr. 12, 13, 28, 54, 65, 87, 97 (as albida)

thuretiana (Lév.) Fr. (C)

Exidiopsis (Bref.) A. Möller

effusa (Sacc.) Möller 54

griseobrunnea Wells & Raitv. 54

Stypella A. Möller

grilletii (Boud.) P. Roberts (mat. in SVER)

/cantharelloid clade

TULASNELLALES – Corticioid fungi

Tulasnellaceae Juel

Tulasnella J. Schröt.

allantospora Wakef. & A. Pearson 54 (mat. in GB)

eichleriana Bres. 54, 87

helicospora Raunk. 54 (mat. in GB)

pruinosa Bourdot & Galzin 54

violea (Quél.) Bourdot & Galzin 54

CERATOBASIDIALES – Corticioid fungi

Ceratobasidiaceae G. W. Martin

Thanatephorus Donk

fusisporus (J. Schröt.) Roberts & Hauerslev 54 (as Uthatabasidium f.), 87

ochraceus (Masse) (C)

Botryobasidiaceae (Parmasto) Jülich

Botryobasidium Donk

aureum Parmasto 54

botryosum (Bres.) J. Erikss. 54 (mat. in GB)

conspersum J. Erikss. 54

isabellinum (Fr.) D. P. Rogers 54

(as Botryohypochnus i.) (mat. in SVER)

laeve (J. Erikss.) Parmasto 54 (mat. in GB)

obtusisporum J. Erikss. 54, 87

CANTHARELLALES – Chanterelles, club fungi, spinose fungi, corticioid fungi

Sistotremataceae Jülich

Brevicellicium K. H. Larss. & Hjortstam
exile (H. S. Jacks.) K. H. Larss. & Hjortstam 54

Paullicorticium J. Erikss.
pearsonii (Bourdot) J. Erikss. (mat. in GB;
on imported wood)

Sistotrema Pers.
brinkmannii (Bres.) J. Erikss. 28, 54, 87

Cantharellaceae J. Schröt.

Multiclavula R. H. Petersen
corynoides (Peck) R. H. Petersen 17, 65
vernalis (Schwein.) R. H. Petersen 12, 13, 17

Clavulinaceae (Donk) Donk

Clavulina J. Schröt.
cinerea (Fr.) J. Schröt. (C)
coralloides (L.) J. Schröt. 12, 13, 17, 65, 95
(as cinerea)
rugosa (Bull.) J. Schröt. (C)

Hydnaceae Chev.

Hydnum L.
repandum L. 16

/gomphoid-phalloid clade

GOMPHALES – Club fungi, coralloid fungi

Gomphaceae Donk

Clavariadelphus Donk
fistulosus (Fr.) Corner
var. contortus (Holmsk.) Corner 12, 13, 28, 54
junceus (Alb. & Schwein.) Corner (C)

Ramaria (Fr.) Bonord.
abietina (Pers.) Quél. 12, 13, 65
suecica (Fr.) Donk 65

Pterulaceae Corner

Pterula Fr.
gracilis (Desm. & Berk.) Corner (C)

GEASTRALES – Earth-stars

Geastraceae Corda

Geastrum Pers.
minimum Schwein. 16, 62, 66, 69

SPHAEROBOLALES – Cannon fungi

Sphaerobolaceae J. Schröt.

Sphaerobolus J. Schröt.
stellatus Tode 12, 13, 54, 62, 97

/hymenochaetoid clade

HYMENOCHAETALES s. l. – Polypores and corticioid fungi

Chaetoporellaceae Jülich

Hyphodontia J. Erikss.
alutacea (Fr.) J. Erikss. (C)
arguta (Fr.) J. Erikss. 28, 54
aspera (Fr.) J. Erikss. 28, 54, 87
barba-jovis (Fr.) J. Erikss. 54 (mat. in GB)
pallidula (Bres.) J. Erikss. 54 (mat. in GB)
quercina (Fr.) J. Erikss. 54
sambuci (Pers.) J. Erikss. 54, 87 (mat. in GB &
SVÉR)
subalutacea (P. Karst.) J. Erikss. 54

Hyphodontiella Å. Strid
multiseptata Å. Strid (C)

Coltriciaceae W. Jülich

Coltricia Gray
perennis (L.) Murr. 17, 65 (as cinnamomea), 97
(as Polyporus parvulus)

Hymenochaetaceae Imazeki & Toki

Hymenochaete Lév.
cinnamomea (Pers.) Bres. 28, 54, 87
tabacina (Sowerby) Lév. 28, 54

Inonotus P. Karst.

obliquus (Pers.) Pilát 28, 54
radiatus (Fr.) P. Karst. 12, 13, 27, 28, 54, 65, 97

Phellinus Quél.

cinereus (Niemelä) Fischer 16, 54
laevigatus (Fr.) Bourdot & Galzin 54
lundellii Niemelä 12, 13, 18A, 28, 54 (as
punctatus), 96, 97 (as contiguus f. nigricans)

Hyphodermataceae Jülich

Basidioradulum Nobles
radula (Fr.) Nobles 28, 54, 88

Hyphoderma Wallr.

argillaceum (Bres.) Donk (C)
cremeoalbum (Höhn. & Litsch.) Jülich 54
(mat. in GB)
cryptocallimon B. de Vries 54 (mat. in GB;
on imported wood)
obtusiforme J. Erikss. & Strid 54
pallidum (Bres.) Donk (mat. in GB)
praetermissum (P. Karst.) J. Erikss. &
Å. Strid 28, 54, 87
roseocreum (Bres.) Donk 87
setigerum (Fr.) Donk 28, 54, 87, 97
(as Grandinia granulosa)

Tubulicrinaceae Jülich**Tubulicrinis** Donk

- angustus (D. P. Rogers & Weresub) Donk (C)
 borealis J. Erikss. 54
 calothrix (Pat.) Donk 28, 54
 glebulosus (Bres.) Donk 54
 gracillimus (D. P. Rogers & H. S. Jacks.)
 G. Cunn. 28, 54
 sororius (Bourdot & Galzin) Oberw. 54
 subulatus (Bourdot & Galzin) Donk
 (C, on imported wood)

/theleporoid clade**THELEPHORALES** – Corticioid fungi**Theleporaceae** Chev.**Pseudotomentella** Svrček

- tristis (P. Karst.) M. J. Larsen (C)

Thelephora Ehrh.

- caryophyllea (Schaeff.) Fr. 12, 13, 17, 65
 (as radiata), 97, 95
 terrestris Pers. 12, 13, 17, 19, 28

Tomentella Pat.

- atramentaria Rostr. (C)
 badia (Link) Stalpers 54
 bryophila (Pers.) M.J. Larsen (C)
 calcicola (Bourdot & Galzin) M.J. Larsen (C)
 coerulea (Bres.) Höhn. & Litsch. (C)
 fibrosa (Berk. & M. A. Curtis) Kõljalg 54
 fuscocinerea (Pers.) Donk (C)
 lapida (Pers.) Stalpers (C)
 lilacinogrisea Wakef. (C)
 stiposa (Link) Stalpers 28, 54
 subclavigera Litsch. (C)
 viridula (Bourdot & Galzin) Svrček 54

/boletoid clade**BOLETALES** – Boletes, corticioid fungi, agarics, truffles**Boletaceae** Chev.**Boletus** L.

- subtomentosus L. 12, 13, 17, 27, 28, 51, 119

Leccinum Gray

- atrostipitatum A. H. Sm. & Thiers 12, 13, 17, 28,
 48, 51, 65 (as testaceoscabrum), 100
 holopus (Rostk.) Watling
 var. holopus 119
 var. americanum A. H. Sm. & Thiers 51
 rotundifoliae (Singer) A. H. Sm., Thiers &

Watling 12, 13, 49, 51, 61, 65, 66, 69, 95, 119, 120

salicicola Watling 51, 120

scabrum (Bull.) Gray ss. lat. Several ref.

include brown Leccinum species. They are here taken in a coll. sense 32

variicolor Watling 12, 13, 17, 51, 119

Coniophoraceae Ulbrich**Coniophora** DC.

puteana (Fr.) P. Karst. 97 (on imported wood)

Gomphidiaceae Jülich**Gomphidius** Fr.

septentrionalis Singer 16, 51 (introduced with seedlings)

Suillus Adans.

aeruginascens (Opat.) Snell 100 (- C; + photo; introduced with seedlings)

brevipes (Peck) Kunze 51 (introduced with seedlings)

glandulosus (Peck) Singer 51 (introduced with seedlings)

grevillei (Klotzsch) Singer (introduced with seedlings)

var. grevillei 12, 13, 48 (introduced with seedlings), 51

var. clintonianus (Peck) Singer 51

(as caeruleascens), 100 (introduced with seedlings)

luteus (L.) Roussel 48 (- C; introduced with seedlings)

Melanogasteraceae E. Fischer**Alpova** C.W. Dodge

diplophloeus (Zeller & C.W. Dodge) Trappe & A. H. Sm. 12, 13

Paxillaceae Lotsy**Paxillus** Fr.

filamentosus Fr. 12, 13, 51

involutus (Batsch) Fr. 12, 13, 16, 17, 28, 48, 51, 65, 66, 69

/athelioid clade**ATHELIALES** – Corticioid fungi**Atheliaceae** Jülich**Athelia** Pers.

acrospora Jülich 87 (mat. in SVER)

bombacina (Pers.) Jülich 87

decipiens (Höhn. & Litsch.) J. Erikss. 87 (mat. in SVER)

epiphylla Pers. 54

fibulata M. P. Christ. (C)
 lembospora (Bourdot) Oberw. (C)
 salicum Pers. 54 (mat. in SVER)

Atheliopsis Parmasto

glaucina (Bourdot & Galzin) Parm. 54

Leptosporomyces Jülich

bananisporus Boidin & Gilles (C)
 galzinii (Bourdot) Jülich 16 (as
 Pteridomyces g.)

/euagarics clade

AGARICALES – Agarics, club-fungi, puff-balls,
 corticioid fungi, birds nest fungi

Agaricaceae Chev. – Agarics**Agaricus** L.

aristocratus Gulden (C)
 arvensis Schaeff. 12, 13, 27, 32, 51, 58, 64, 66, 120
 campester L. 12, 13, 27, 51, 64, 96, 97, 100, 120
 fissuratus (F. H. Møll.) F. H. Møll. 51, 64
 salicophilus M. Lange 12, 13, 51, 64, 69
 semotus Fr. 12, 13, 28

Lepiota (Pers.) Gray

clypeolaria (Bull.) P. Kumm. 28, 51, 61
 clypeolarioides 94
 favrei Kühner (C)

Amanitaceae Pouzar – Agarics**Amanita** Pers.

arctica Bas, Knudsen & T. Borgen 12, 13, 28, 51,
 100, 113
 battarrae Boud. 18A, 28, 51
 friabilis (P. Karst.) Bas 51
 fulva (Schaeff.) Pers. 12, 13, 16, 17, 51
 groenlandica Knudsen & T. Borgen 12, 13, 17, 28,
 49, 51, 61, 100, 113
 mortenii Knudsen & T. Borgen 12, 13, 16, 17, 28,
 51, 120, 114
 muscaria (L.) Hook. 18A, 27, 28, 51, 64, 97
 nivalis Grev. 12, 13, 17, 28, 51, 113, 120
 vaginata (Bull.) Vitt.
 var. alba (De Seynes) Gillet ss. Watling (C)

Bolbitiaceae Singer – Agarics**Agrocybe** Fayod

elatella (P. Karst.) Vesterh. (C)
 gibberosa (Fr.) Fayod (C)
 pediades (Pers.) Fayod
 f. pediades (C)
 f. macrospora Singer (C)
 praecox (Pers.) Fayod 12, 13, 65

pusilla (Fr.) Watling (C)

Bolbitius Fr.

titubans (Bull.) Fr. 12, 13, 61

Conocybe Fayod

aberrans (Kühner) Singer (C)
 ammophila M. Lange 65, 118
 fuscimarginata (Murr.) Singer 65 (as rickenii),
 118
 leucopus Kühner & Watling (C)
 magnicapitata P. D. Orton (C)
 siennophylla (Berk. & Broome) Singer (C)
 tenera (Fr.) Fayod 12, 13
 vexans P. D. Orton (C)

Clavariaceae Chev. – Club fungi**Clavaria** L.

acuta Sowerby (C)
 argillacea Fr. 12, 13, 17, 32, 58, 65

Clavulinopsis van Overeem

corniculata (Fr.) Corner
 f. corniculata (C)
 f. bispora Pilát (C)
 fusiformis (Fr.) Corner (C)
 laeticolor (Berk. & M. A. Curtis)
 R. H. Petersen (C)
 subtilis (Pers.) Corner (C)

Mucronella Fr.

calva (Alb. & Schwein.) Fr. 54
 flava Corner (C)

Ramariopsis (Donk) Corner

subarctica Pilát 17, 25

Typhula Fr.

borealis Ekstr. (C)
 setipes (Grev.) Berthier 97 (as candida)

Coprinaceae Gäumann – Agarics**Coprinus** Pers.

acuminatus (Romagn.) P. D. Orton (C)
 angulatus Peck 61, 63, 64, 74
 bisporus J. E. Lange 64, 74
 domesticus (Bolt.) Gray 12, 64
 ephemeroideus (Bull.) Fr. (C)
 filamentifer Kühner 64
 heptemerus M. Lange & A. H. Sm. (C)
 lagopides P. Karst. 64 (as lagopus var.
 sphaerocystis)
 macrocephalus Berk. 64
 marculentus Britz. (C)
 martinii P. D. Orton 57, 61, 64
 micaceus (Bull.) Fr. 12, 13, 61

miser P. Karst. 61, 64
 patouillardii Quél. (C)
 pyrranthes Romagn. 64
 subimpatiens M. Lange & A. H. Sm. (C)
 stercorarius Fr. 64

Panaeolus (Fr.) Quél.

ater (J. E. Lange) Bon 12, 13, 64
 semiovatus (Sowerby) Lundell & Nannf. 12, 13,
 64
 sphinctrinus (Fr.) Quél. 64 (as campanulatus)

Psathyrella (Fr.) Quél.

ammophila (Dur. & Lév.) P. D. Orton (C)
 fibrillosa (Pers.) Singer 61, 64
 glareosa (Favre) Moser (C)
 velutina (Pers.) Singer 12, 13, 64

Cortinariaceae Pouzar – Agarics

Cortinarius Fr.

Subgenus **Cortinarius**

cinnamomeus (L.) Fr. 12, 13, 19, 28, 58, 65
 cinnamomeoluteus P. D. Orton 12, 13, 19, 61, 95
 croceoconus Fr. 19
 croceus (Schaeff.) Bigeard & Guillemin 19, 28
 huronensis Ammirati & A. H. Sm. 19, 28
 norvegicus Høiland 19, 119 (as sphagneti)
 polaris Høiland 12, 13, 19
 raphanoides (Fr.) Fr. 12, 13, 17, 19, 28
 uliginosus Berk. 19
 violaceus (L.) Fr. 16, 28
 Subgenus **Myxaciium** (Fr.) Trog
 absarokensis M. M. Moser (C)
 alpinus Boud. 12, 13, 58, 61, 65, 66, 69, 95, 119,
 120
 collinitus (Sow.) Fr. (C)
 delibutus Fr. 12, 13, 17, 61, 65
 fennoscandicus E. & K. Bendiksen & Brandrud
 17
 pluvius (Fr.) Fr. (C)
 septentrionalis E. & K. Bendiksen & Brandrud
 5, 12, 13, 17
 trivialis J. E. Lange 12, 13, 18A, 65

Subgenus **Phlegmacium** (Fr.) Trog

argutus Fr. 65
 durus P. D. Orton 17, 20
 multiformis (Fr.) Fr. 65
 porphyropus Fr. 12, 13, 17
 scaurus (Fr.) Fr. (- C; photo)
 talus Fr. (C)

Subgenus **Telamonia** (Fr.) Loudon

acutus Fr. 65
 agathosmus Brandrud, Lindström & Melot 14,
 17
 alboviolaceus (Pers.) Fr. 12, 13, 14, 17, 19
 alnetorum (Velen.) M. M. Moser (C)
 anomalus (Fr.) Fr. 12, 13, 61, 65, 95
 biformis (Fr.) Fr. 119 (- C)
 brunneus (Pers.) Fr.
 var. exilis Favre 65
 caninus (Fr.) Fr. (C)
 cf. caesionigrellus Lamoure 61 (mat. with
 Lamoure)
 chrysomallus Lamoure 15
 decipiens (Pers.) Zaw.
 var. decipiens (C)
 var. atrocoeruleus M. M. Moser (C)
 decoloratus (Fr.) Fr. 65
 diasemospermus Lamoure (mat. with Moreau)
 disjungendus P. Karst. 14, 17
 fulvescens Fr. ss. Favre 61 (mat. with Lamoure)
 helvelloides (Fr.) Fr. (C)
 hemitrichus Fr. 12, 13, 61, 65, 95
 hinnuleus (Sowerby) Fr.
 var. gracilis Favre 12, 13, 61, 65
 imbutus Fr. 14 (as evernius), 17
 inops Favre 12, 13, 61
 ionophyllus M. M. Moser 14, 17
 lamoureae Bon 61 (as fallax)
 obtusus (Fr.) Fr. 17, 61, 65, 95
 oreobius Favre 61 (mat. with Lamoure)
 paleaceus Fr. 61, 65
 paragaudis Fr. 14, 17
 parvannulatus Kühner (incl. cedriolens M. M.
 Moser) 15, 61
 pauperculus Favre 15, 95
 cf. percavus Favre 61 (mat. with Lamoure)
 phaeopygmaeus Favre 15, 65
 cf. plumbosus Fr. 61 (mat. with Lamoure)
 psammouraceus M. Lange 65
 pulchellus J. E. Lange 65
 pulchripes Lamoure 61 (mat. with Lamoure)
 purpureoluteus Lamoure (C)
 saniosus Fr. 65
 saturninus Fr. 65
 subbalaustinus Henry 14
 subtorvus Lamoure 12, 13, 61, 95
 tenebricus Favre 61 (mat. with Lamoure)
 umbilicatus P. Karst. 15, 17

- umbrinolens* P. D. Orton (C)
uraceus Fr. 61
venustus P. Karst. 15, 17
vernus Lindstr. & Melot (C)
- Galerina** Earle
- arctica* (Singer) Nezdoym. 36, 61 (as aff. *dimorphocystis*)
atkinsoniana A. H. Sm. 36, 61 (as aff. *perplexa*)
 var. *atkinsoniana* f. *atkinsoniana* 36
 var. *atkinsoniana* f. *quadrispora* Gulden 36
badipes (Pers.) Gulden 36, 65
calyptrata P. D. Orton 36
cephalotricha Kühner 36
cerina A. H. Sm. & Singer 36
clavata (Velen.) Kühner 36, 58 and 61 (as *heterocystis*), 65, 95, 119
fallax A. H. Sm. & Singer 36
harrisonii (Dennis) Bas & Vellinga 36
hypnorum (Schrank) Kühner 36
leptocystis Wells & Kempton 36
marginata (Batsch) Kühner 12, 13 (as *unicolor*), 36, 65, 97, 119 (do)
minima (Peck) A. H. Sm. & Singer 36
mniophila (Lasch) Kühner 36
paludosa (Fr.) Kühner 12, 13, 36
permixta (P. D. Orton) Pegler & T. W. K. Young 36
pseudocerina A. H. Sm. & Singer 36, 120
pseudomniophila Kühner 36
pseudomycenopsis Pilát 4 (as *moelleri*), 12, 13, 36, 61 (as *moelleri*), 65 (as *pumila*), 95, 96, 119
pumila (Pers.) M. Lange non ss. M. Lange
 var. *pumila* 36
 var. *subalpina* A. H. Sm. 36
sphagnorum (Pers.) Kühner 36
stordalii A.H. Sm. 36
subclavata Kühner 36
tattooshiensis A. H. Sm. 58 (mat. with *Kobayasi*)
vexans A. H. Sm. 36
vittiformis (Fr.) Singer 58, 61, 65, 95, 120
 var. *vittiformis* f. *vittiformis* 36
 var. *vittiformis* f. *tetraspora* A. H. Sm. & Singer 36
- Gymnopilus** P. Karst.
- fulgens* (Favre & Maire) Singer 16
- Hebeloma** P. Kumm.
- alpinum* Bruchet 116B
bruchetii Bon (C)
collariatum Bruchet (C)
crustuliniforme (Bull.) Quel. 95, 116
helodes Favre 116
kuehneri Bruchet 61, 116B
leucosarx P. D. Orton 12, 13, 116, 120
marginatulum (Favre) Bruchet 116
mesophaeum (Pers.) Quéél. 12, 13, 19, 65, 95
monticola Vesterh. (C)
nigellum Bruchet (C)
polare Vesterh. 116B
sinapizans (Paulet) Gillet (C)
subconcolor Bruchet 116B
vaccinum Romagn. 116B
- Inocybe** (Fr.) Fr.
- acutella* Bon 61 (as *umboninota* Peck ss. J. E. Lange; mat. with *Lamoure*)
agardhii (Lund) P. D. Orton (C)
asterospora Quéél. 40, 65
bongardii (Weinm.) Quéél. 12, 13, 61
borealis M. Lange 65
brunneovillosa (Jungh.) Kuyper (C)
calamistrata (Fr.) Gill. 12, 13, 17, 51, 61, 65, 95
calospora Quéél. 65, 115
cervicolor (Pers.) P. Kumm. 61 (mat. with *Lamoure*)
concinnulla Favre 61 (mat. with *Lamoure*)
deciapiens Bres. 61 (mat. with *Lamoure*)
dulcamara (Alb. & Schwein.) P. Kumm.
 f. *dulcamara* 12, 13, 19, 27, 32, 61, 65, 95
 f. *peronata* Favre 61 (mat. with *Lamoure*)
egenula Favre (mat. with *Senn-Irlet*)
flocculosa (Berk.) Sacc. 28, 65, 95, 96
fraudans (Britz.) Sacc. 61 (as *pyriodora*, mat. with *Lamoure*)
geophylla (Sowerby) P. Kumm. 61, 65
giacomii Bon 61 (mat. with *Lamoure*; a possible synonym of *I. borealis*)
griseolilacina J. E. Lange 95 (- C)
hirtella Bres. 65 (- C)
impexa (Lasch) Kuyper 1, 65, 97 (as *maritima*)
lacera (Fr.) P. Kumm. 12, 13, 19, 61, 65, 95
lanuginella (J. Schröt.) J. E. Lange 65
lanuginosa (Bull.) P. Kumm. 58
leiocephala Stuntz 61 (as *subbrunnea*, mat. with *Lamoure*)
leptocystis Atk.

- var. *ambigua* Favre 61 (mat. with Lamoure)
leucoblema Kühner (C)
longispora M. Lange 61, 65
macrospora Kobayasi 58 (mat. with Kobayasi)
 cf. *monochroa* Favre 61 (mat. with Lamoure)
mundula (Horak) (as *Astrosporina* m.) 95
posterula (Britz.) Sacc. 65
praetervisa Quél. 65
rennyi Berk. & Broome 65
rimosa (Bull.) P. Kumm.
 f. *rimosa* 12, 13, 58, 61, 65, 95
 f. *alpestris* (R. Heim) 61 (mat. with Lamoure)
taxocystis (Horak) (as *Astrosporina* t.) 58
 (as *decipientoides* Peck var. t. Favre), 61
 (mat. with Lamoure)
tjallingiorum Kuyper 95 (as *ovalispora* var.
 brunneola) (- C)
ursinella M. Lange 65
vulpinella Bruylants 65 (as *serotina*)
- Naucoria** (Fr.) P. Kumm.
amarescens Quél. (C)
bohemica Velen. 65 (as *scorpioides*)
escharioides (Fr.) P. Kumm. 12, 13, 58
 (as *macrospora*), 65
- Phaeogalera** Kühner
stagnina (Fr.) Pegler & T. W. K. Young 12, 13, 65,
 69
- Rozites** P. Karst.
caperatus (Pers.) P. Karst. 12, 13, 16, 17, 28, 48,
 65, 100
- Crepidotaceae** (S. Imai) Singer – Agarics
- Crepidotus** (Fr.) P. Kumm.
fusisporus Hesler & A. H. Sm. 110
lundellii Pilát 54, 110
subverrucisporus Pilát 54 (as *epibryus*), 110
versutus Peck 54, 65 (as *longisporus*), 110
- Pellidiscus** Donk
pallidus (Berk. & Broome) Donk 87, 110
- Simocybe** P. Karst.
haustellaris (Fr.) Watling 16, 28, 54, 110
- Entolomataceae** Kotlaba & Pouzar – Agarics
- Clitopilus** (Fr.) P. Kumm.
hobsonii (Berk. & Broome) P. D. Orton 54, 65
 (as *septicoides*)
- Entoloma** (Fr.) P. Kumm.
alpicola (Favre) Noordel. 12, 13, 61, 90
anthracinellum (M. Lange) Noordel. 65, 90, 92
anthracinum (Favre) Noordel. 61, 90, 92
atrosericeum (Kühner) Noordel. 61, 90
bicorne Noordel. 90, 92
bipelle Noordel. & T. Borgen 90, 91, 92, 92A
borgenii Noordel. 90, 91, 92, 92A
cancrinellum (M. Lange) Noordel. 65, 90
cetratum (Fr.) M. M. Moser 17, 65, 90
 cf. *chalybaeum* (Pers.) Noordel. 90
clandestinum (Fr.) Noordel. 120 (- C)
engadinum (Horak) Noordel. 90, 92A
fernandae (Romagn.) Noordel. 17
fuscotomentosum F. H. Møll. 17, 65
 (as *jubatum*), 90, 91, 92A
infula (Fr.) Noordel. 61 (- C)
jubatum (Fr.) P. Karst. (C)
juncinum (Kühner & Romagn.) Noordel. 90,
 92, 95
langei Noordel. & T. Borgen 90, 91, 92
melenosmum Noordel. 28, 90
myrmecophilum (Romagn.) M. M. Moser (C)
olidum Noordel. & T. Borgen 17, 28, 90, 91, 92,
 92A
papillatum (Bres.) Dennis 90
 cf. *placidum* (Fr.) Noordel. 61, 90
politum (Pers.) Donk 90, 92
pusillum Noordel. 90
rimulosum Noordel. 90, 92A
sarcitulum (P. D. Orton) Arnolds 18A, 90, 92A
sericellum (Bull.) P. Kumm. (C)
sericeonitens (P. D. Orton) Noordel. 28, 90
sericeum (Bull.) Quél. 12, 13, 18A, 58, 65, 90
serrulatum (Fr.) Hesler 12, 13, 90 (- C; + photo)
subarcticum Noordel.
 var. *subarcticum* 12, 13, 28, 90, 91, 92
 var. *obscurum* Noordel. 90
subsepiaceum (Kühner) Noordel. 90, 92, 92A
turci (Bres.) M. M. Moser 90, 92
vernum Lundell (incl. *cucullata* Favre) 12, 13,
 28, 90, 120
vinaceum (Scop.) Arnolds & Noordel. 16, 17, 90
- Rhodocybe** Maire
caelata (Fr.) Maire (C)
hirneola (Fr.) P. D. Orton 17
- Hygrophoraceae** Lotsy – Agarics
- Camarophyllopsis** Herink
foetens (Berk. & Broome) Arnolds 16, 18
 (mat. with Rald)
- Hygrocybe** P. Kumm.
acutoconica (Clem.) Singer

var. *acutoconica* 9, 18
 var. *cuspidata* (Peck) Arnolds (C)
biminiata Kühner 17, 18
cantharellus (Schwein.) Murr. 9, 18
ceracea (Wulf.) P. Karst. 9, 18
cinerella (Kühner) Arnolds 9, 17, 18
citrinopallida (A. H. Sm. & Hesler) Kobayasi 1
 (as *ceracea*), 7, 9, 12, 13, 17, 18, 23, 58, 64, 61
 (as *vitellina*)
colemanniana (Bloxam) P. D. Orton & Watling
 9, 18 (mat. with Rald)
conica (Scop.) P. Kumm.
 var. *conica* f. *conica* 9, 12, 13, 18, 58, 61, 96,
 98, 120
 var. *conica* f. *pseudoconica* (J. E. Lange)
 Arnolds 18
 var. *aurantiolutea* T. Borgen & Arnolds 17, 18
 var. *chloroides* (Malenc.) M. Bon 12, 13, 18
constrictospora Arnolds 18
glutinipes (J. E. Lange) R. Haller Aar. 58 (as
citrina var. *glutinipes*) (mat. with Kobayasi)
hygrocyboides Kühner 18A
insipida (J. E. Lange) M. M. Moser 9, 18
lacmus (Schumach.) P.D. Orton & Watling 9
 (as *flavipes*), 18
laeta (Pers.) P. Karst.
 var. *laeta* (- C, photo with Strandberg)
 var. *flava* Boertm. 9, 18, 100 (as *H. flava*)
lilacina (P. Karst.) M. M. Moser 7, 9, 12, 13, 17,
 23, 61, 64, 95
miniata (Fr.) P. Kumm. 9, 18
pratensis (Pers.) Arnolds 9, 12, 13, 18, 64
psittacina (Schaeff.) P. Kumm. 18 (mat. with
 Rune)
reai Maire 9, 18, 19
reidii Kühner 9, 18
rubrolamellata T. Borgen & Arnolds 18
russocoriacea (Berk. & Broome) P. D. Orton &
 Watling 9, 18
salicis-herbaceae Kühner 9, 17, 18, 64
 (as *coccinea*)
substrangulata (P. D. Orton) P. D. Orton &
 Watling
 var. *substrangulata* 9, 18
 var. *rhodophylla* (Kühner) Boertm. 9, 11
 (as *coccineocrenata*), 12, 13, 17, 18, 49, 64,
 95
turunda (Fr.) P. Karst. 8, 9, 12, 13, 18

virginia (Wulf.) P. D. Orton & Watling 9, 12, 13,
 18, 18A (as *Camarophyllus niveus*), 19
xanthochroa (P. D. Orton) M. M. Moser 7, 9, 17,
 18

Lycoperdaceae Chev. – Puff-balls

Bovista Pers.

aestivalis (Bonord.) Demoulin (C)
cretacea T. C. E. Fr. 32, 72 (- C)
limosa Rostr. 62 (as *echinella*), 70, 98
nigrescens Pers. 12, 13, 18A, 62, 70, 71, 119
pusilla (Batsch.) Pers. 62 (as *Lycoperdon* p.),
 98 (as *L. furfuraceum*) (- C)
tomentosa (Vitt.) de Toni 12, 13, 62, 67, 69, 70

Calvatia Fr.

arctica Ferd. & Winge 30, 62, 69, 71, 120
bellii (Peck) M. Lange 71
candida (Rostk.) Hollos 71
connivens M. Lange 71, 72
cretacea (Berk.) Lloyd 12, 13, 30, 58, 62, 66, 67,
 69, 71, 95, 96 (as *Lycoperdon bovista* and
Scleroderma vulgare), 97 (do), 98 (as
excipuliformis)
excipuliformis (Scop.) Perdeck 71, 72
horrida M. Lange 71
septentrionalis M. Lange 71
turneri (Ellis & Everh.) M. Lange 12, 13, 58, 62
 (as *tatrensis* incl. var. *groenlandica*), 67 (do),
 71, 97 (as *Bovista nigrescens*), 99
 (as *Globaria bovista* & *G. furfuracea*), 119

Disciseda Czern.

calva (Schwein.) Lloyd 16, 67

Lycoperdon L.

frigidum Demoulin 12, 13, 44, 67
lambinonii Demoulin 44
lividum Pers. 44, 62 (as *spadiceum*)
molle Pers. 44
nigrescens (Pers.) Pers. 17, 44, 62, 99
 (as *L. gemmatum*)
niveum Kreisel 44
norvegicum Demoulin 44
perlatum Pers. 12, 13, 44
pyriforme Schaeff. 12, 13, 28, 44
umbrinum Pers. 44

Nidulariaceae Dumort. – Birds nest fungi

Crucibulum Tul.

laeve (Relh.) Kambly 12, 13, 62

Mycocalia J. T. Palmer

denudata J. T. Palmer (C)

duriaeana (Tul. & C. Tul.) J. T. Palmer (C)

Pluteaceae Kotlaba & Pouzar – Agarics

Pluteus Fr.

cervinus (Schaeff.) P. Kumm. 12, 13, 18A, 27, 28, 51, 54
 nanus (Pers.) P. Kumm. (C)
 romellii (Britz.) Sacc. 28, 51, 54

Strophariaceae Singer & A. H. Sm. – Agarics

Flammulaster Earle

carpophiloides (Kühner) Watling 58, 61, 65

Hypholoma (Fr.) P. Kumm.

capnoides (Fr.) P. Kumm. 12, 13, 54
 elongatipes Peck 12, 13, 61, 64, 69, 73
 lapponicum (Fr.) M. M. Moser 61
 myosotis (Fr.) M. M. Moser 12, 13, 61, 64
 polytrichi (Fr.) Singer 73
 udum (Pers.) Kühner 73

Kuehneromyces Singer & A. H. Sm.

mutabilis (Schaeff.) Singer & A. H. Sm. 12, 13, 18A, 27, 28, 54, 64

Phaeomarasmius Scherffell

borealis Rald 54, 65 (as *erinaceus*), 87

Pholiota P. Kumm.

alnicola (Fr.) Singer 12, 13, 54
 groenlandica M. Lange 54, 65, 69
 highlandensis (Peck) A. H. Sm. & Hesler 12, 13, 61, 65
 scamba (Fr.) M. M. Moser 17

Psilocybe (Fr.) Kumm.

chionophila Lamoure 61
 crobula (Fr.) Singer 64
 inquilina (Fr.) Bres. 12, 13
 merdaria (Fr.) Ricken 12, 13, 63, 64
 moelleri Guzmán (C)
 montana (Pers.) P. Kumm. 12, 13, 19, 61, 64, 66, 67, 69, 95
 pratensis P. D. Orton (C)
 phyllogena (Peck) Peck (C)
 subcoprophila (Britz.) Sacc. 64

Stropharia (Fr.) Quéf.

alpina (M. Lange) M. Lange 12, 17, 61, 64
 (as *aeruginosa* var. *alpina*), 68
 semiglobata (Batsch) Quéf. (C)

Tubaria (W. G. Sm.) Gill.

confragosa (Fr.) Kühner 12, 13, 19, 54, 100
 furfuracea (Pers.) Gill. 12, 13, 54, 61, 65, 87
 pellucida (Bull.) Gill. 65

Tricholomataceae Pouzar – Agarics and

corticoids

Amylocorticium Pouzar

laceratum (Litsch.) Hjorststam & Ryvarden 87
 (mat. in SVER)

Armillaria (Fr.) Staude

lutea Gillet 16, 28, 54 (as *gallica*)

Arrhenia Fr.

acerosa (Fr.) Kühner 37, 61, 64, 95

auriscalpium (Fr.) Fr. 12, 13, 61, 65, 95, 97
 (as *Cantharellus muscigenus*), 98
 (as *C. glaucus*)

chlorocyanea (Pat.) Redhead, Lutzoni,
 Moncalvo & Vilgalys 16 (as *Omphalina*)

griseopallida (Desm.) Redhead, Lutzoni,
 Moncalvo & Vilgalys (C)

lobata (Pers.) Kühner & Lamoure 1, 12, 13, 19,
 58, 61, 64, 95, 96, 97, 98

obatra (Favre) Redhead, Lutzoni, Moncalvo &
 Vilgalys 61, 120 (both as *Omphalina*)

obscurata (D. A. Reid) Redhead, Lutzoni,
 Moncalvo & Vilgalys 61, 64, 67, 119, 120
 (as *Omphalina*)

oniscus (Fr.) Redhead, Lutzoni, Moncalvo &
 Vilgalys 64 (as *epichysium* var.
icmadophila), 73 (as *Omphalina*)

peltigerina (Peck) Redhead, Lutzoni, Moncalvo
 & Vilgalys (C)

philonotis (Lasch) Redhead, Lutzoni, Moncalvo
 & Vilgalys 12, 13, 64, 73 (as *Omphalina*)

retiruga (Bull.) Redhead 61

rickenii (Hora) Redhead, Lutzoni, Moncalvo &
 Vilgalys 119 (as *Omphalina*)

rustica (Fr.) Redhead, Lutzoni, Moncalvo &
 Vilgalys (C)

salina (Høiland) Bon & Courtec. 96 (as
Cantharellus brachypodes)

sphagnicola (Berk.) Redhead, Lutzoni,
 Moncalvo & Vilgalys (C)

salina (Høiland) Bon & Courtec. 96
 (as *Cantharellus brachypodes*)

trigonospora (Lamoure) Redhead, Lutzoni,
 Moncalvo & Vilgalys 59, 61 (mat. with
 Lamoure) (both as *Omphalina*)

umbratilis (Fr.) Redhead, Lutzoni, Moncalvo &
 Vilgalys (C)

velutipes (P. D. Orton) Redhead, Lutzoni,
 Moncalvo & Vilgalys 12, 13, 61
 (as *Omphalina*)

- Calathella** D. A. Reid
 ellisii Agerer (C)
- Calocybe** Donk
 chrysentera (Bull.) Singer 12, 13
 naucoria (Murr.) Singer 28
 onychina (Fr.) Donk (C)
- Cantharellopsis** Kuyper
 prescotii (Weinm.) Kuyper (C)
- Ceraceomyces** Jülich
 serpens (Tode) Ginns 87 (mat. in SVER)
 tessulatus (Cooke) Jülich 54
- Chondrostereum** Pouzar
 purpureum (Pers.) Pouzar 28, 54
- Clitocybe** (Fr.) Staude
 candicans (Pers.) P. Kumm. (C)
 clavipes (Pers.) P. Kumm. 12, 13, 17
 concava (Scop.) Gill. (C)
 diatreta (Fr.) P. Kumm. 12, 13, 17, 61, 64, 95
 ditopus (Fr.) Gill. 17, 64
 dryadicola (Favre) Harmaja 65, 66 (as rivulosa
 var. d.), 69
 cf. ericetorum (Bull.) Quél. 61
 festiva Favre 12, 13, 61
 festivoides Lamoure 61
 gibba (Pers.) P. Kumm. 12, 13, 17, 21, 32, 61, 64,
 96
 inornata (Sowerby) Gill. 61
 lateritia Favre 12, 13, 37, 40, 95
 marginella Harmaja (C)
 metachroa (Fr.) P. Kumm. (C)
 odora (Bull.) P. Kumm.
 f. odora 12, 13, 48
 f. subsphaerospora M. Lange 64
 paxillus Gulden (C)
 phyllophila (Fr.) Quél. 12, 13, 19
 rivulosa (Pers.) P. Kumm. 48 (as dealbata), 61,
 64, 69
 vibecina (Fr.) Quél. 12, 13, 17, 64
- Collybia** (Fr.) P. Kumm.
 cirrata (Pers.) Quél. 12, 13, 16, 17, 61, 64, 95
 cookei (Bres.) J. D. Arnold 64
 tuberosa (Bull.) P. Kumm. 12, 13, 61
- Cystoderma** Fayod
 amianthinum (Scop.) Fayod 12, 13, 17, 61, 64
 arcticum Harmaja (C)
 fallax A. H. Sm. & Singer (C)
 granulosum (Batsch) Fayod 1, 12, 13, 17, 61, 64,
 67
 jasonis (Cooke & Masee) Harmaja 12, 13
 lilacipes Harmaja (C)
- Fayodia** Kühner
 anthracobia (Favre) Knudsen (C)
 arctica Gulden (C)
- Flagelloscypha** Donk
 kavinae (Pilát) W. B. Cooke (C)
 punctiformis (Fr.) Agerer 87
- Flammulina** P. Karst.
 velutipes (M. A. Curtis) Singer 12, 13, 54, 61, 64
- Gamundia** Raithelhuber
 striatula (Kühner) Raithelhuber 2, 61, 64, 95
 (as Fayodia leucophylla)
- Gerronema** Singer
 brevibasidiatum (Singer) Singer (C)
 marchantiae Singer & Clemençon 61
- Gymnopus** (Pers.) Gray
 alkalivirens (Sing.) Halling 12, 13, 28, 61, 64, 95
 alpinus (Vilgalys & Miller) Antonín & Noordel.
 117
 benoistii (Boud.) Antonín & Noordel. (C)
 dryophilus (Bull.) Murr. 12, 13, 61, 64, 95, 97,
 120
- Hemimycena** Singer
 albicolor (A. H. Sm.) Elborne comb.nov. (C).
 Basionym: Mycena albicolor A. H. Sm.,
 North American species of Mycena, p. 82,
 1947
 cephalotricha (Redhead) Singer (C)
 crispata (Kühner) Singer (C)
 delectabilis (Peck) Singer 64 (as Delicatula d.)
 hirsuta (Tode) Singer (C)
 lactea (Pers.) Singer 64 (as Mycena l.)
 mauretanica (Maire) Singer 28
 ochrogaleata (Favre) M. M. Moser (C)
 subimmaculata (Murr.) Elborne & Læssøe (C)
- Hohenbuehelia** Schulz.
 fluxilis (Fr.) P. D. Orton 16, 28, 54, 61, 64
 as Resupinatus algidus var. dendrocystis)
- Hydropus** (Kühner) Singer
 scabripes (Murr.) Singer (C)
- Laccaria** Berk. & Broome
 bicolor (Maire) P. D. Orton 12, 13, 28, 61
 laccata (Scop.) Berk. & Broome 12, 13, 19, 32,
 64, 95, 120
 maritima (Teodorowicz) Singer 42, 61
 (as trullisata var. rugulospora), 64 (do)
 montana Singer (C)

- proxima (Boud.) Pat. 12, 13, 61
 pumila Fayod 12, 58, 61 and 64 (as tortilis), 95
 (as altaica)
- Lepista** (Fr.) W. G. Sm.
 irina (Fr.) Bigelow (C)
 luscina (Fr.) Singer (C)
 multiformis (Romell) Gulden 12, 13, 57
 pseudoectypa (M. Lange) Gulden 35, 61, 64, 119
 (as L. sp.)
- Lichenomphalia** Redhead, Lutzoni, Moncalvo
 & Vilgalys
 alpina (Britz.) Redhead, Lutzoni, Moncalvo &
 Vilgalys 12, 13, 17, 58, 61, 64, 67, 119, 120 (all
 as Omphalina)
 hudsoniana (Jenn.) Redhead, Lutzoni,
 Moncalvo & Vilgalys 12, 13, 17, 24, 40, 61, 119
 (all as Omphalina or Coriscium viride)
 umbellifera (L.) Redhead, Lutzoni, Moncalvo &
 Vilgalys 1, 6, 12, 13, 17, 31, 58, 60, 61, 64, 66,
 69, 73, 95, 119, 120 (all as Omphalina)
 velutina (Quél.) Redhead, Lutzoni, Moncalvo &
 Vilgalys 95 (as Omphalina)
- Lyophyllum** P. Karst.
 connatum (Schumach.) Singer 12, 13
 semitale (Fr.) Kühner (C)
- Marasmius** Fr.
 androsaceus (Fr.) Fr. 12, 13, 17, 64
 caricicola Kauffm. 97 (as epiphyllus)
 epidryas Kühner 12, 13, 61, 64, 95
 epiphyllus (Pers.) Fr. 28, 61, 64, 95
 kallioneus Huhtinen 3, 17, 43, 61
- Melanoleuca** Pat.
 brevipes (Bull.) Pat. (C)
 cognata (Fr.) Konr. & Maubl. 12, 13, 49, 64
 excissa (Fr.) Singer (C)
 cf. graminicola (Velen.) Kühner & Maire 120
 grammopodia (Bull.) Pat.
 f. macrocarpa Boekhout (C)
 melaleuca (Pers.) Maire (C)
 oreina (Fr.) Kühner & Maire 64
 polioleuca (Fr.) Kühner & Maire
 f. oreina (Fr.) Boekhout (C)
 rasilis (Fr.) Singer (C)
- Merismodes** Earle
 anomalus (Pers.) Singer 54, 87, 97, 98
- Mycena** (Pers.) Roussel
 abramsii (Murr.) Murr. 28
 acicula (Schaeff.) P. Kumm. (C)
 adonis (Bull.) Gray 64 (as rubella)
 aetitis (Fr.) Quél. 64, 95 (as ammoniaca)
 alcalina (Fr.) P. Kumm. (C)
 alexandri Singer 61 (as psammicola), 64 (do),
 95 (do)
 arcangeliana Bres. (C)
 atroalboides (Peck) Sacc. (C)
 borealis A. H. Sm. (C)
 capillaripes Peck (C)
 cinerella P. Karst. 61
 citrinomarginata Gill. 12, 13, 61, 64, 95, 119
 citrinovirens M. Lange 61, 64, 84
 concolor (J. E. Lange) Kühner 64
 epipterygia (Scop.) Gray 12, 13
 var. epipterygia 12, 13
 var. badiceps M. Lange 61, 64, 83, 95
 (as griseogilva), 95 (as galericulata)
 filopes (Bull.) P. Kumm. 64
 flavoalba (Fr.) Quél. 61 (- C)
 floridula (Fr.) P. Karst. 61
 galericulata (Scop.) Gray 28, 54, 96
 hiemalis (Retz.) Quél. 28
 leptcephala (Pers.) Gill. 64, 119
 megaspora Kauffm. 12, 13, 17, 61, 64, 95
 metata (Fr.) P. Kumm. 61, 64
 mirata (Peck) Sacc. (C)
 olivaceomarginata (Masse) Masee 61
 pseudopicta (J. E. Lange) Kühner 64
 pura (Pers.) P. Kumm. 12, 13, 61, 64
 rubromarginata (Fr.) P. Kumm. 12, 13, 28, 54,
 61, 64
 speirea (Fr.) Gillet (C)
 stylobates (Pers.) P. Kumm. (C)
 subconcolor A. H. Sm. 64
 urania (Fr.) Quél. 61, 64, 95
 venustula Quél. (C)
 vitilis (Fr.) Quél. 119, 120 (- C)
- Mycenella** (J. E. Lange) Singer
 bryophila (Voglino) Singer (C)
 lasiosperma (Bres.) Sing. 28
 salicina (Velen.) Singer 61, 64
- Nochascypha** Agerer
 filicina (P. Karst.) Agerer (C)
- Omphaliaster** Lamoure
 asterosporus (J. E. Lange) Lamoure 17
 borealis (M. Lange & Skifte) Lamoure 11, 17, 57,
 61 (as asterosporus)
- Omphalina** Quél.

arctica Lamoure 59, 61
 chionophila Lamoure 59, 61 (mat. with
 Lamoure)
 favrei Watling (C)
 kuehneri Lamoure 59 (- C)
 lilacinicolor Bon (C)
 pyxidata (Bull.) Quél. 64
 rivulicola (Favre) Lamoure 12, 13

Panellus P. Karst.

ringens (Fr.) Romagn. 12, 13, 18A, 28, 54 (p.p. as
 Tectella patellaris), 64
 serotinus (Pers.) Kühner 28, 54, 64, 95

Phlebiella P. Karst.

grisella (Bourdot) K. H. Larss. & Hjortstam (C)

Plicatura Peck

nivea (Fr.) P. Karst. 54

Rectipilus Agerer

bavaricus Agerer (C)

Rhodocollybia Singer

butyracea (Bull.) Lennox (C)

Rickenella Raithelh.

fibula (Bull.) Raithelh. 12, 13, 64 (as Mycena f.),
 95
 mellea (Singer & Clemençon) Lamoure (C)
 pseudogrisella (A. H. Sm.) Gulden 12, 13, 37, 61,
 64 (as O. demisella)

Rimbachia Pat.

neckerae (Fr.) Redhead (C)

Ripartites P. Karst.

tricholoma (Alb. & Schwein.) P. Karst. 12, 13, 61,
 65

Stigmatolemma Kalchbr.

urceolata (Wallr.) Donk (C)

Stromatocyphella W. B. Cooke

conglobata (Burt) W. B. Cooke (C)

Tephrocye Donk

anthracophila (Lasch) P. D. Orton 12, 13, 64
 (as atratum var. sphaerosporum)
 tylicolor (Fr.) M. M. Moser 64 (as erosum)

Tricholoma (Fr.) Quél.

atrosquamosum (Chev.) Sacc. 16, 28, 64
 myomyces (Pers.) J. E. Lange (C)

Xeromphalia Kühner & Maire

caulicinalis (With.) Kühner & Maire 12, 13, 17,
 64 (as fulvobulbillosus)

/corticoid clade

Corticaceae Herter s. str. – Corticoid fungi

Corticium Herter

erikssonii Jülich 28
 roseum Pers. 54, 87

Cyrtidia Quél.

salicina (Fr.) Burt 12, 13, 28, 54, 87, 96, 100

/russuloid clade

HERICIALES – Corticoid fungi, spinose fungi,
 agarics

Aleurodiscaceae Jülich

Aleurodiscus J. Schröt.

bertii Lloyd 87
 lapponicus Litsch. 54
 lividoaerulus (P. Karst.) Lemke (C; on
 imported wood)

Auriscalpiaceae Maas G.

Clavicornia Doty

taxophila (Thom) Doty (C)

Lentinellus P. Karst.

omphalodes (Fr.) P. Karst. 12, 13, 28, 54, 61, 64,
 87, 100

Gloeocystidiellaceae (Parmasto) Jülich

Gloeocystidiellum Donk

leucoanthum (Bres.) Boid. 54, 87, 88, 97
 (as Corticium comedens and C. laeve)
 porosum (Berk. & M. A. Curtis) Donk 54

Hericiaceae Donk

Dentipratulum Domanski

bialowiesense Domanski (C)

Lachnocladiaceae D. A. Reid

Scytinostroma Donk

galactinum (Fr.) Donk 87 (mat. in SVER)
 praestans (H. S. Jacks.) Donk (C)

Vararia P. Karst.

investiens (Schwein.) Karst. 28, 54, 87

Lindtneriaceae Jülich

Cristinia Parmasto

coprophila (Wakef.) Hjortstam 87 (mat.
 in SVER)
 helvetica (Pers.) Parmasto 28, 54

Peniophoraceae Lotsy

Peniophora Cooke

aurantiaca (Bres.) Höhn. & Litsch. 54, 88
 incarnata (Pers.) P. Karst. 28, 54
 laurentii Lundell 28, 54, 87
 polygonia (Pers.) Bourdot & Galzin 87

Stereaceae Pilát

Columnocystis Pouzar

ambigua (Peck) Pouzar (C; on imported wood)

Stereum Pers.

hirsutum (Willd.) Gray 97 (on imported wood)

rugosum (Pers.) Fr. 12, 13, 28, 54, 88, 96

(as hirsutum)

Xenasmataceae Oberwinkler

Xenasma Donk

subcalcea (Litsch.) Oberw. (C)

RUSSULALES – Agarics

Russulaceae Lotsy

Lactarius Pers.

alpinus Peck 50

aurantiacus (Pers.) Fr. 19, 50, 61, 65, 97, 119

brunneohepaticus M. M. Moser (C)

brunneoviolaceus M. P. Christ. 41, 57 (as robertianus)

dryadophilus Kühner 12, 13, 17, 41, 48, 49, 50, 56, 61 (as groenlandicus p.p.), 65, 95, 98

(as pergamenus), III (do), 119

duplicatus Hesler & A. H. Sm. 12, 13, 18A

(as lapponicus), 28, 41

fuscus Roll. 50

glyciosmus (Fr.) Fr. 12, 13, 17, 28, 50, 58, 61, 65

griseus Peck (C)

hysginoides Korhonen & Ulvinen (C)

lanceolatus O. K. Miller & Laursen 12, 13, 41, 57

nanus Favre 12, 13, 41, 50, 61

necator (Bull.) P. Karst. 28

obscuratus (Lasch) Fr. 50

pilatii Z. Schaefer (C)

pseudouvidus Kühner 12, 13, 41, 50, 61

pubescens (Fr.) Fr. 12, 13, 28, 53, 61, III

(as groenlandicus p.p.)

repraesentaneus Britz. 12, 13, 17, 28, 41, 50, 120

rufus (Fr.) Fr. 17, 27, 28, 32, 50, 65, 66, 69, 98

salicis-herbaceae Kühner 12, 13, 41, 50, 61, 95

salicis-reticulatae Kühner 41, 50, 61

subcircellatus Kühner (C)

tabidus Fr. 13 (as theiogalus), 28, 50, 65

torminosulus Knudsen & T. Borgen 12, 13

(as L. sp.), 17, 53 (as subtorminosus), 55

torminosus (Fr.) Gray 12, 13, 19, 27, 33, 97

trivialis Fr. 12, 13, 17, 19, 28

utilis (Weinm.) Fr. 17, 28, 41, 50 (as musteus)

uvidus Fr. 50, 61, 65, 97

vietus Fr. 17, 28

Russula Pers.

alnetorum Romagn. 12, 13

altaica (Singer) Singer 12, 13, 50, 61

aquosa Leclair (C)

aurantiaca (Jul. Schöff.) Jul. Schöff. 18A, 28

citrinoclora Singer 12, 13, 17, 52, 103

claroflava Grove 12, 13, 17, 28, 50, 61, 65, 66, 69

consobrina (Fr.) Fr. 17, 52

decolorans (Fr.) Fr. 12, 13, 17, 65, 66

delica Fr. 12, 13, 17, 50, 58, 61, 65, 97

depallens (Pers.) Fr. 50 (as pulchella)

dryadicola Fellner & Landa 29, 52 (as maculata ssp. alpina)

emetica (Schaeff.) Pers. 12, 13, 17

gracillima Jul. Schöff. 65

groenlandica Ruots. & Vauras 17, 52

(as claroflava var. viridis), 101

medullata Romagn. ss. Kühner 12, 13, 17, 19, 48,

50, 61, 65 (as aeruginea), 97 (do), 119 (do)

nana Killerm. 12, 13, 32, 50, 61, 65, 66, 97, 120

nitida (Pers.) Fr. 12, 13, 17, 28, 50

norvegica D. A. Reid 12, 13, 50, 61, 120

pascua (F.H. Møller & Jul. Schöff.) Kühner 50,

97, 120 (all as oreina)

persicina Krombh. (C)

puellaris Fr. 50

saliceticola (Singer) Knudsen & T. Borgen 50,

61

scotica A. Pearson 85

subrubens (J.E. Lange) Bon 12, 13, 50, 61, 65 (all

as chamiteae or xerampelina)

versicolor Jul. Schöff. 65

violaceoincarnata Knudsen & T. Borgen 12, 13,

17, 52, 102

/polyporoid clade

POLYPORALES – Polypores and corticioid fungi

Bjerkandera P. Karst.

adusta (Willd.) P. Karst. 16, 28

Ceriporia Donk

reticulata (Hoffm.) Donk 28, 54

Ceriporiopsis Domanski

resinascens (Romell) Domanski 54

Cerrena Gray

unicolor (Bull.) Murr. 28, 54, 97

Diplomitoporus Domanski

lindbladii (Berk.) Gilb. & Ryvarden (mat. in GB)

Hapalopilus P. Karst.

rutilans (Pers.) P. Karst. 54

Hypochnicium J. Erikss.

bombycinum (Sommerf.) J. Erikss. 54 (mat. in GB & SVER)

detriticum (Bourdot & Galzin) J. Erikss. & Ryvarden 54

eichleri (Bres.) J. Erikss. & Ryvarden 54, 87 (mat. in GB & SVER)

erikssonii Hallenb. & Hjortst. 54 (- C)

lundellii (Bourdot) J. Erikss. 87 (mat. in SVER)

sphaerosporum (Höhn. & Litsch.) J. Erikss. 28

Phanerochaete P. Karst.

calotricha (P. Karst.) J. Erikss. & Ryvarden 54

laevis (Fr.) J. Erikss. & Ryvarden 54

magnoliae (Berk. & M. A. Curtis) Burds. 54 (as raduloides; mat. in SVER)

sanguinea (Fr.) Pouzar 54

sordida (P. Karst.) J. Erikss. & Ryvarden 28, 54

Phlebia Fr.

albida Post 54, 87

nitidula (P. Karst.) Ryvarden (C)

Polyporus Fr.

badius (Pers.) Schwein. 54, 65 (as picipes)

brumalis (Pers.) Fr. 28, 54

melanopus (Pers.) Fr. 54, 65 (as groenlandicus)

varius (Pers.) Fr. 12, 13, 27, 28, 54, 87, 97 (as elegans)

Radulomyces M. P. Christ.

confluens (Fr.) M. P. Christ. 28, 54

hiemalis (Laurila) Parmasto 54

Scopuloides (Masse) Hjortstam & Ryvarden

rimosa (Cooke) Jülich 28, 54

Steccherinum Gray

nitidum (Pers.) Vesterh. 54 (C)

ochraceum (Pers.) Gray (C)

Trametes Fr.

ochracea (Pers.) Gilb. & Ryvarden (C; on imported wood)

Tyromyces P. Karst.

chioneus (Fr.) P. Karst. 28, 54

FOMITOPSIDALES – Polypores**Fomitopsidaceae** Jülich**Antrodia** P. Karst.

albida (Fr.) Donk 54

serialis (Fr.) Donk (C; on imported wood)

Fomitopsis P. Karst.

cajanderi (P. Karst.) Kotl. & Pouzar (C; on imported wood)

Postia Fr.

hibernica (Berk. & Broome) Jülich (C)

/trechisporoid clade – Corticioid fungi**Sistotremastrum** J. Erikss.

niveocremeum (Höhn. & Litsch.) J. Erikss. 28, 54

Subulicystidium Parmasto

longisporum (Pat.) Parmasto 28, 54

Trechispora P. Karst.

cohaerens (Schwein.) Jülich & Stalpers 54

confinis (Bourdot & Galzin) Liberta 54

farinacea (Pers.) Liberta 28, 54, 87

microspora (P. Karst.) Liberta 28, 54

mollusca (Pers.) Liberta 28, 54, 87

praefocata (Bourdot & Galzin) Liberta 28 (- C)

stellulata (Bourdot & Galzin) Liberta 54 (mat. in GB)

subspaerospora (Litsch.) Liberta 28, 54