

CBIB TWELFTH UPDATE (UD12) (Ainsworth, A.M. & Henrici, A. 2024)

The online CBIB website is currently still accessible at <https://www.basidiochecklist.info/index.htm> where searches of the Checklist database can be performed on data incorporated up to and including 05 Feb 2015 (Update 6). Subsequent tranches of amendments have not been incorporated in the underlying database, but they are now available as separate downloads from the Fungi of Great Britain and Ireland (FGB&I) website (under the “Checklists” tab) courtesy of Paul Cannon.

There are two ways to access the current Checklist in its entirety: one is to consult the database (Kew webpages) and then the compendium UD7–12 (FGB&I download), alternatively one can consult the printed book published in 2005 followed by the two compendia UD1–6 and UD7–12 (FGB&I downloads).

Updating and harmonising the taxonomic opinions of Species Fungorum and of CBIB in their current (independently edited) formats requires a huge duplication of effort and is neither justifiable nor possible with current resources. For this reason, from UD6 onwards, CBIB updates have not included opinions on every taxonomic rearrangement proposed in the literature. Current names should therefore be checked with Species Fungorum and MycoBank. The main (but not exclusive) focus of this and future CBIB updates will be on amendments that cannot be made within SF, such as documenting new additions to, or exclusions from, the British and Irish basidiomycete fungi.

We would like to thank all those who have sent collections to the Kew Fungarium and those who have carried out sequencing work and/or analysed the resulting data to provide the evidence which underpins these CBIB amendments.

62 species (net) were added to the British & Irish list in 2023.

Bibliography

Addition to Standard References

Klenke, F. & Scholler, M. (2015). *Pflanzenparasitische Kleinpilze. Bestimmungsbuch für Brand-, Rost-, Mehltau-, Flagellatenpilze und Wucherlingsverwandte in Deutschland, Österreich, der Schweiz und Südtirol*. Berlin: Springer Spektrum. 1172 pp.

ADDITIONS & AMENDMENTS TO LIST OF INCLUDED TAXA

BASIDIOMYCOTA, AGARICOMYCOTINA

Agaricus crocodilinus Murrill, *Mycologia* 4(6): 300 (1912)
Move *A. urinascens* (= *A. macrosporus* nom. illegit.) and *A. urinascens* var. *excellens* to the synonymy of this species following the DNA analysis of R.W. Kerrigan as incorporated in

the taxonomy of Parra Sánchez (**FungEur1A**, 2013), which included a barcode sequence from a “future epitype” of *A. crocodilinus* collected from the type locality.

Agaricus gemlii L.A. Parra, Arrillaga, Ribes & Callac, *Fungi Europaei, Agaricus L., Allopsalliota Nauta & Bas 1A*(supl.): 522 (2013)

W: !

H: Welsh collection on soil in cemetery grassland.
A collection (2022) in K from Pembrokeshire (Moylegrove) determined by comparing its ITS sequence (D.J. Harries, Aberystwyth University IBERS) with that generated from the holotype as documented in Harries [FM24(3): 77-82 (2023)].

Agaricus moelleroides Guinb. & L.A. Parra, *Fungi Europaei* (Alassio) 1A: 109 (2013)

W: !

H: Welsh collection on cemetery compost heap.

A collection (2022) in K from Pembrokeshire (Fishguard) determined by comparing its ITS sequence (D.J. Harries, Aberystwyth University IBERS) with that generated from the holotype as documented in Harries [FM24(3): 77-82 (2023)].

Agaricus ornatipes Mua, M. Casula & M. Sanna, *Micol. Veg. Medit.* 32(1): 61 (2017)

W: !

H: Welsh collections in coastal grassland.

Two collections (2023) in K from Pembrokeshire (Angle and Marloes) determined by comparing their ITS sequences (D.J. Harries, Aberystwyth University IBERS) with that generated from the holotype as documented in Harries & Theobald [FM25 (1): 23-26 (2024)].

Agaricus porphyrocephalus subsp. pallidus (Kerrigan)

Kerrigan, in Parra, Cappelli, Kerrigan & Bizio, *Micol. Veg. Medit.* 33(2): 76 (2019)

Agaricus porphyrocephalus var. *pallidus* Kerrigan, Mem. N. Y. bot. Gdn 114: 292 (2016)

W: !

H: Welsh collection on soil in semi-improved grassland.

A collection (2022) in K from Pembrokeshire (Hundleton) determined by comparing its ITS sequence (D.J. Harries, Aberystwyth University IBERS) with that generated from the holotype as documented in Harries [FM24(3): 77-82 (2023)].

Calonarius odoratus (Joguet ex M.M. Moser) Niskanen & Liimat., in Liimatainen, Kim, Pokorny, Kirk, Dentinger & Niskanen, *Fungal Diversity*: 10.1007/s13225-022-00499-9, [45] (2022)

E: !

H: English collection on soil with *Quercus*, *Carpinus* and *Betula*. A collection (2022) from East Kent (Badgin Wood) determined on morphological characters (M. Tortelli). Formerly combined in *Cortinarius*.

Camarophyllopsis atrovelutina (Romagn.) Argaud, *Docums Mycol.* 31(no. 123): 47 (2002)

E: ! **W:** !

H: English collections on soil in sheep-grazed pasture.

Several collections (2021 to 2023) from South Lancashire (Turn Slack Clough) and South-west Yorkshire (Booth, Crimsworth Dean, Hebden Dale, Jack Bridge and Pecket Well) determined on morphological characters with a representative confirmed by S. Adamčík. Soil-derived barcode sequences of this species have been generated from acid grassland and maritime heath in North Devon (Lundy) as documented in Griffith *et al.* [*Journal of the Lundy Field Society* 7: 87-106 (2020)]. Reported from grassland in Pembrokeshire (Hundleton).

Clitocybe ditopus (Fr.) Gillet

Note that the 2005 printed book and Index Fungorum used the incorrect spelling *ditopa*, now regarded as an "orthographic variant" by, and now corrected in, Index Fungorum.

Cortinarius cremeoglobosus Rob. Henry, *Docums Mycol.* 19(no. 73): 67 (1988)

E: !

H: In soil near *Betula*.

A collection (2015) in K from West Kent (Angley Wood) sequenced and determined by K. Liimatainen.

Cortinarius diabolicus (Fr.) Fr., *Epacr. syst. mycol.* (Upsaliae): 285 (1838) [1836-1838]

E: !

H: In soil near *Betula*.

Move from 'excluded' list and delete existing **Notes**. A collection (2015) in K from West Kent (Shorne Woods Country Park) sequenced and determined by K. Liimatainen & T. Niskanen.

Cortinarius distortus Kauffman, *N. Amer. Fl.* (New York) 10(5): 319 (1932)

S: !

H: Scottish collection on soil under *Pinus sylvestris* and *Betula*.

A collection (2023) from Morayshire (Nethy Bridge) determined by matching its ITS sequence (99.8% similarity) with a sequence derived from the holotype (M. Tortelli, C.V. Soler, G.G. Kibby, Aberystwyth University IBERS).

Cortinarius fulvopaludus Kytöv., Niskanen & Liimat., in Liimatainen, *Index Fungorum* 344: 1 (2017)

W: !

H: Welsh collection in soil under *Quercus* with *Fagus*.

A collection (2022) from Caernarvonshire (Glynllifon Park) determined by comparing its ITS sequence (Alvalab) with that of the holotype.

Cortinarius geniculatus Bidaud, in Bidaud, Bellanger, Carteret, Reumaux & Moëne-Loccoz, *Atlas des Cortinaires* (Meyzieu) 22: 1884 (2014)

E: !

H: In soil under *Fagus*.

A collection (2022) in K from Buckinghamshire (Gussetts Wood) determined by comparing its ITS sequence (E. Janke, K. Liimatainen) with that of the holotype.

Cortinarius transatlanticus Ammirati, Liimat. & Niskanen, in Niskanen, *Index Fungorum* 197: 4 (2014)

S: !

H: Scottish collection in soil in *Polytrichum* beds under *Pinus* and *Larix*.

A collection (2023) from Easterness (Daviot Wood) determined by comparing its ITS sequence (99.6% similarity) with that of the holotype (M. Tortelli, C.V. Soler, G.G. Kibby, Aberystwyth University IBERS).

Cortinarius vandervekenianus Verstr. & Gelderblom, *Sterbeekia* 32: 17 (2013)

E: !

H: In soil.

A collection (2015) in K from East Kent (Putt Wood) sequenced and determined by K. Liimatainen & T. Niskanen.

Entoloma cremeoalbum J.B. Jordal & Noordel., *Öst. Z. Pilzk.* 19: 127 (2010)

H: English collection in short grassland.

A collection (2023) from Middlesex (Hounslow Heath) determined by comparing its ITS sequence with that generated from the holotype (99.8% similarity) as documented in Overall [FM25 (1): 27-31 (2024)]. Note that further taxonomic studies may result in the relegation of this name to the synonymy of *E. neglectum*.

Entoloma nigellum (Qué.) Noordel., *Persoonia* 11(2): 150 (1981)

Note the earlier publication date for this name accepted by Index Fungorum. See the 'excluded' list entry for *Claudopus nigrellus* for further details.

Exidia subsaccharina F. Wu, B. Rivoire, Tohtirjap & Y.C. Dai, in Tohtirjap, Hou, Rivoire, Gates, Wu & Dai, *Frontiers in Microbiology* 13(no. 1080290): 7 (2023)

E: !

H: On fallen dead wood of *Pinus*.

A collection (2023) from Buckinghamshire (Stoke Common) determined on morphological evidence (J. Wills) and by comparing its ITS sequence (E. Janke, P. Cullington) with those of the French holotype and paratype.

Flagelloscypha fuispora Agerer, *Mycologia* 72(5): 908 (1980)

W: !

H: On dead stems of *Oenanthe crocata* lying just above wet ground.

A collection (2023) from Caernarvonshire (Nantle) determined on morphological evidence (P.R. Smith).

Flagelloscypha tetraedrispora Agerer, *Mycologia* 72(5): 913 (1980)

E: !

H: On dead standing stems of *Pteridium*, a few centimetres above the ground.

A collection (2016) from Derbyshire (Hilton) determined on morphological evidence (highly distinctive spores) by P.R. Smith and apparently new to Europe.

Fomitopsis solaris Rivoire, A.M. Ainsworth & Vlasák, in Spirin, Runnel, Vlasák, Viner, Barrett, Ryvarde, Bernicchia, Rivoire, Ainsworth, Grebenc, Cartabia, Niemelä, Larsson & Miettinen, *Stud. Mycol.* 107: 230 (2024)

E: ! **O:** Channel Islands !

H: Collections from England and Jersey on dead wood of *Salix*. Described with six English paratypes (2000-2011) in K from Berkshire (Bisham Wood), Buckinghamshire (Wraysbury), North Hampshire (Cricket Hill), South Somerset (Yeovil), Surrey (Langham Pond) and West Kent (Lullingstone Park) and one from Jersey (2014) in K from St. Martin (Rozel Woods), all originally determined as *Antrodia ramentacea*, a distinct species found on *Pinus* (now *F. ramentacea*). Note that Spirin *et al.* (2024) recognise an expanded *Fomitopsis* with 25 generic synonyms including *Buglossoporus* and *Daedalea*.

Galerina esteveraventosii Siquier, Olariaga, Salom & Høil., *Riv. Micol.* 64(1): 6 (2021)

E: !

H: On coastal soil in mossy short grass.

A collection (2019) in K from East Sussex (Winchelsea Beach), originally determined as *Galerina tibiicystis*, was redetermined as this by comparing its ITS sequence (A.S. Overall) with that of the holotype. A subsequent collection (2023) made at the same site by the same collector was also sequenced and determined similarly as documented in Overall [FM24(2): 57-58 (2023)].

Galerina lacustris A.H. Sm., *Mycologia* 45(6): 905 (1953)

E: !

H: On woody *Salix* debris in a dried pond bed.

A collection (2022) in K from Buckinghamshire (Stampwell Farm) determined by comparing its ITS sequence (E. Janke) with that of this species sensu the sequenced Norwegian collection UDB037812.

Gautieria fenestrata J.M. Vidal, Cabero, Papadimitriou & Slavova, in Vidal *et al.*, *Persoonia* 50: 94 (2023)

E: !

H: British collections on or in soil in *Fagus* woodland.

Described with four British paratypes (1949-1953) in K from West Gloucestershire (Westridge Wood and Brackenbury Ring) originally determined as *G. morchelliformis* and redetermined on morphological characters. Historic collections assigned to *G. morchelliformis* should be re-examined/sequenced to determine if they should be assigned to other species following the substantial increase in the number of described European taxa.

Hydnum ibericum Olariaga, Liimat. & Niskanen, in Niskanen, Liimatainen, Nuytinck, Kirk, Ibarguren, Garibay-Orijel, Norvell, Huhtinen, Kytövuori, Ruotsalainen, Niemelä, Ammirati & Tedersoo, *Mycologia* 110(5): 899 (2018)

W: !

H: Welsh collection in soil with coal spoil under *Corylus avellana* with *Quercus robur* nearby.

A collection (2022) in K from Glamorganshire (Brynn Woods) determined by comparing its ITS sequence (A.Yu. Biketova, A.M. Ainsworth, K. Liimatainen) with that of the holotype.

Hydnum pallidum Raddi, *Mem. Mat. Fis. Soc. Ital. Sci. Modena*, Pt. Mem. Fis. 13: 353 (1807)

This name now has a lectotype supported by a sequenced epitype (although registration of this typification is currently "not Code compliant" fide IF) and is accepted as an earlier name for *H. reginae* (= *H. albidum* sensu auct. Eur.) whose existing CBIB entry should now be headed by *H. pallidum*

following the analyses of Márquez-Sanz *et al.* [*Journal of Fungi* 9, 1141. <https://doi.org/10.3390/jof9121141> (2023)].

Inocybe aphroditeana Bandini & G. Bandini, in Bandini, Oertel & Eberhardt, *Mycol. bavarica* 22: 72 (2022)

E: ! **W:** !

H: In soil under broadleaved trees.

Collections (1997, 2004 & 2010) in K from Carmarthenshire (Pont Felin-gât), North Hampshire (Alton) and West Gloucestershire (Forest of Dean), originally determined as *Inocybe lilacina* (aff.) or *I. geophylla* var. *lilacina*, were redetermined by comparing their ITS sequences (K. Liimatainen, A.M. Ainsworth) with that of the holotype. A member of the *I. lilacina* complex.

Inocybe dvaliniana Bandini & B. Oertel, in Bandini, Oertel & Eberhardt, *Mycol. bavarica* 21: 65 (2021)

E: !

H: English collection in soil.

A collection (2019) from West Gloucestershire (Forest of Dean) determined by comparing its ITS sequence (E. Janke, P. Cullington) with that of the holotype. Likely to be one of the species previously generally misdetermined in Britain as *I. cryptocystis*, (described from USA).

Inocybe mystica Stangl & Glowinski, *Z. Mykol.* 46(2): 170 (1980)

E: !

H: English collection in soil.

A collection (2011) from Buckinghamshire (Burnham Beeches) determined by comparing its ITS sequence (E. Janke, P. Cullington) with that of the holotype. Likely to be one of the species previously generally misdetermined in Britain as *I. cryptocystis*, (described from USA).

Inocybe pararubens Carteret & Reumaux, *Bull. Soc. mycol. Fr.* 127(1-2): 49 (2012) [2011]

E: !

H: English collection in soil under *Fagus*.

A collection (2022) in K from Buckinghamshire (Mousells Wood) determined by comparing its ITS sequence (E. Janke) with that of the holotype.

Inocybe syringae Bandini, B. Oertel & U. Eberh., *Mycol. bavarica* 22: 113 (2022)

E: !

H: English collection from root tip of *Quercus robur*.

An ITS barcode sequence generated from a root tip collected in 2021 from Oxfordshire (Blenheim Estate) was analysed and found to match (99.5% similarity) that derived from the holotype of *I. syringae* (L.M. Suz). A member of the *I. lilacina* complex.

Inocybe turfae Bandini, B. Oertel & U. Eberh., in Bandini, Brandrud, Dima, Dondl, Fachada, Hussong, Mifsud, Oertel, Rodríguez Campo, Thüs, Vauras, Weholt & Eberhardt, *Integrative Systematics*, Stuttgart Contributions to Natural History 5(2): 60 (2022)

E: ! **W:** !

H: In soil, Welsh collection under *Quercus*.

Two collections (2023) from Merionethshire (Morfa Harlech) and South Hampshire (New Forest) determined by comparing (>99% similarity) their ITS sequences (E. Janke) with that of the holotype.

Inocybe tyrii Bandini, B. Oertel & U. Eberh., *Mycol. bavarica* 22: 120 (2022)

E: !

H: In soil under broadleaved trees.

Collections (2022 & 2002) from Buckinghamshire (Turville Heath) and North Hampshire (Micheldever) determined by comparing their ITS sequences (E. Janke & P. Cullington and K. Liimatainen & A.M. Ainsworth respectively) with that of the holotype. A member of the *I. lilacina* complex.

Inosperma vinaceum Cervini, M. Carbone & Bizio, *Riv. Micol.* 63(3): 222 (2021)

E: !

H: In soil.

A collection (2013) in K from West Gloucestershire (Forest of Dean), originally determined as *Inocybe adaequata* then as *I. rhodiola* aff., redetermined by comparing its ITS sequence (K. Liimatainen & A.M. Ainsworth) with that of the holotype and several paratypes.

Lactarius flexuosus var. roseozonatus H. Post

Lactarius roseozonatus (H. Post) Britzelm.

Move to synonymy of *L. flexuosus* following Species Fungorum.

Mallochybe malenconii (R. Heim) Matheny & Esteve-Rav., in Matheny, Hobbs & Esteve-Raventós, *Mycologia*: 10.1080/00275514.2019.1668906, 25 (2019)

Inocybe malenconii R. Heim

E: !

H: One English collection in soil near *Fagus sylvatica*.

Delete **Notes** and move from 'excluded' list (as *I. malenconii*).

Two collections (2008, 2021) in K from Buckinghamshire (Hollowhill Woods and Marlow Common) determined following analysis of their ITS sequences (E. Janke, P. Cullington, B. Douglas) and confirmed by F. Esteve-Raventós.

MARASMIELLOMYCENA De la Peña-Lastra, Mateos, Kolařík, Ševčíková & Antonín, in Senanayake et al., *Fungal Diversity* 122: 361 (2023)

Type: *Marasmiellomycena pseudomphaliiformis* Antonín & Ševčíková, in Senanayake et al., *Fungal Diversity* 122: 361 (2023)

omphaliiformis (Kühner) Mateos, Kolarik, De la Peña-Lastra, Sevcikova & Antonin, in Senanayake et al., *Fungal Diversity* 122: 363 (2023)

New name for the collection previously reported as *Marasmiellus omphaliiformis* found on mossy trunk of living *Populus* in valley bottom in 2020 in West Cornwall (Trelowarren Estate) documented in Penna [FM22(1): 23-24 (2021)].

NEOFAVOLUS Sotome & T. Hatt., in Sotome, Akagi, Lee, Ishikawa & Hattori, *Fungal Diversity* 58: 249 (2012) [2013]

Type: *Neofavolus alveolaris* (DC.) Sotome & T. Hatt., in Sotome, Akagi, Lee, Ishikawa & Hattori, *Fungal Diversity* 58: 250 (2012) [2013]

suavissimus (Fr.) Seelan, Justo & Hibbett, in Seelan, Justo, Nagy, Grand, Redhead & Hibbett, *Index Fungorum* 308: 1 (2016)

E: !

H: On wood of *Salix*.

Delete **Notes** and move from 'excluded' list (as *Panus suavissimus*). One collection (2023) in K from Westmorland (Bleham Bog) determined on morphological characters (P. Cowling). Further details in Cowling [FM24(4): 142-143 (2023)].

PENTTILAMYCES Zmitr., Kalinovskaya & Myasnikov, *Folia Cryptog. Petropolitana* (Sankt-Peterburg) 7: 8 (2019)

Type: *Penttilamyces romellii* (Ginns) Zmitr., Kalinovskaya & Myasnikov, *Folia Cryptog. Petropolitana* (Sankt-Peterburg) 7: 8 (2019)

lichenicola (Thorn, Malloch & Ginns) Zmitr., Kalinovskaya & Myasnikov, *Folia Cryptog. Petropolitana* (Sankt-Peterburg) 7: 8 (2019)

S: !

H: On podetia of terricolous lichens in *Cladonia* and *Stereocaulon*.

Reported in Diederich et al. 2022 [Flora of lichenicolous fungi vol. 1, *Basidiomycota*].

romellii (Ginns) Zmitr., Kalinovskaya & Myasnikov, *Folia Cryptog. Petropolitana* (Sankt-Peterburg) 7: 8 (2019)
Name change for *Leucogyrophana romellii*.

PHAEOTREMELLA Rea, *Trans. Br. mycol.*

Soc. 3(5): 377 (1912) [1911]

Type: *Phaeotremella pseudofoliacea* Rea, *Trans. Br. mycol. Soc.* 3(5): 377 (1912) [1911]

Genus reinstated for some *Tremella* spp. including *T. foliacea* sensu CBIB 2005, which is now recognised as three distinct species (part of the *Phaeotremella foliacea* group): *P. foliacea* s.str. associated with *Stereum sanguinolentum* on conifers; *P. frondosa*, which was in the 'excluded' list in CBIB 2005 but now in the 'included' list as an associate of *Stereum* spp. on broadleaved trees; and *P. fimbriata*, associated with *S. rugosum* but not yet recorded in Britain & Ireland. The CBIB 2005 synonymy also included *T. succinea*, but the identity of this species is regarded as vague in Spirin et al. [*Mycological Progress* 17: 451-466 (2018)].

foliacea (Pers.) Wedin, J.C. Zamora & Millanes, *Mycosphere* 7(3): 296 (2016)

Gyrraria foliacea (Pers.) Gray, *Nat. arr. Brit. pl.* 1: 594 (1821)

Ulocolla foliacea (Pers.) Bref., *Unters. Gesammtgeb. Mykol.* 7: 98 (1888)

Exidia foliacea (Pers.) P. Karst., *Bidr. Känn. Finl. Natur. Och. Folk* 48: 449 (1889)

E: ! **S:** ! **NI:** !

H: see above

frondosa (Fr.) Spirin & Malysheva, in Spirin, Malysheva, Yurkov, Miettinen & Larsson, *Mycol. Progr.* 17(4): 464 (2018)
Tremella nigrescens Fr., *Summa veg. Scand.*: 341 (1849)
Phaeotremella pseudofoliacea Rea, *Trans. Brit. Mycol. Soc.* 4(5): 377 (1912) [1911]

E: ! **W:** ! **S:** ! **O:** Channel Islands !

H: see above

simplex (H.S. Jacks. & G.W. Martin) Millanes & Wedin, in Liu, Wang, Göker, Groenewald, Kachalkin, Lumbsch, Millanes, Wedin, Yurkov, Boekhout & Bai, *Stud. Mycol.* 81: 138 (2015)
Tremella simplex H.S. Jacks. & G.W. Martin

Phellodon secretus Niemelä & Kinnunen, in Niemelä, Kinnunen, Renvall & Schigel, *Karstenia* 43(2): 38 (2003)

E: !

H: English collection in acid soil under *Castanea* in *Pinus* plantation.

Two collections (2022, 2023) in K from Berkshire (Swinley Forest) determined on morphological characters (spore size) and by comparing a derived ITS sequence (R. Woods, A. Dombrowski & A.M. Ainsworth) with that of the holotype.

Phlegmacium hemicaeruleum (Brotzu, Lorenzon, Padovan, Bellù & Dima) Brandrud, Dima, G. Saar & Schmidt-Stohn, in Saar, Schmidt-Stohn, Brandrud & Dima, *Journal des JEC, Journées Européennes du Cortinaire* 24: 58 (2022)

S: !

H: Scottish collection on soil under *Pinus*.

A collection (2023) from Easternness (Loch an Eilein) determined by comparing its ITS sequence with that derived from the holotype (M. Tortelli, C.V. Soler, G.G. Kibby, Aberystwyth University IBERS). This combination was published twice in Oct. 2022 (P.M. Kirk) and priority is still under investigation. The competing combination is *P. hemicaeruleum* (Brotzu, Lorenzon, Padovan, Bellù & Dima) Niskanen & Liimat., in Niskanen & Liimatainen, *Index Fungorum* 528: 9 (2022).

Phlegmacium olidoamethysteum (Rob. Henry & Ramm) Niskanen & Liimat., in Liimatainen, Kim, Pokorny, Kirk, Dentinger & Niskanen, *Fungal Diversity*: 10.1007/s13225-022-00499-9, [60] (2022)

W: !

H: Welsh collection in acid soil under *Fagus*.

A collection (2017) from Caernarvonshire (Capel Curig) determined following DNA barcode analysis (K. Liimatainen in litt.).

Phlegmacium populinum (Brandrud) Niskanen & Liimat., in Liimatainen, Kim, Pokorny, Kirk, Dentinger & Niskanen, *Fungal Diversity*: 10.1007/s13225-022-00499-9, [61] (2022)

S: !

H: Scottish collection on soil in mixed woodland.

A collection (2023) from Easternness (Loch Insh) determined by comparing its ITS sequence (identical) with that derived from the holotype (M. Tortelli, A. Burnham, C.V. Soler, G.G. Kibby, Aberystwyth University IBERS). Further details in Tortelli *et al.* [FM25(1): 8-14 (2024)].

Pseudosperma maleolens (Carteret & Reumaux) Matheny & Esteve-Rav., in Matheny, Hobbs & Esteve-Raventós, *Mycologia*: 10.1080/00275514.2019.1668906, 30 (2019)

E: !

H: In soil under *Quercus* and *Corylus*.

A collection (2023) from Buckinghamshire (Rushbeds Wood) determined by comparing its ITS sequence (>99.9% similarity) with GenBank sequences derived from two French collections made by Reumaux in 1999 (E. Janke & P. Cullington).

Ramariopsis asperulospora (G.F. Atk.) Corner, *Monograph of Clavaria and allied Genera*, (Annals of Botany Memoirs No. 1): 638 (1950)

Currently accepted name for the species treated under *Clavaria asperulispota* G.F. Atk. in the online CBIB. Note that Atkinson originally used the spelling *asperulospota* which was later "corrected" by Saccardo and adopted in IF/SF and CBIB. This correction is now regarded as erroneous (S.R. Pennycook) and the epithet reverts to its original spelling as shown in Corner's recombination above and in IF/SF.

Ramariopsis avellaneo-inversa R.H. Petersen, *Bull. N.Z. Dept. Sci. Industr. Res., Pl. Dis. Div.* 236: 135 (1988)

W: !

H: In grassland soil.

Detected at 29 out of 30 grassland sites sampled in an e-DNA soil analysis (Aberystwyth Univ.) carried out in 2022 across Monmouthshire and documented in Dunkelmann [FM24(3): 96-98 (2023)].

Rhodocollybia asema (Fr.) Bendiksen & Dima, in Dima *et al.*, *Sydowia* 73: 329 (2021)

Move from synonymy of *R. butyracea* (as forma *asema*) and restore the original CBIB entry. This was originally recognised as a distinct taxon (at varietal rank) in the printed book (2005) and noted as being more frequent than var. *butyracea*, but it was subsequently excluded as a distinct taxon and incorporated in the synonymy of *R. butyracea* (and reduced to a forma) in UD5 in 2011. The taxonomy now follows Dima *et al.* [*Sydowia* 73: 271-340 (2021)] who include soil-DNA-based evidence that this species is present in Britain, at least sensu Dima & Bendiksen (2021) and sensu Antonín & Noordeloos [A monograph of marasmioid and collybioid fungi in Europe, IHW-Verlag (2010)].

Russula annae Sarnari, *Micol. Veg. Medit.* 6(2): 120 (1991)

E: !

H: English collection on soil near *Quercus cerris*.

A collection (2019) from South Hampshire (Hursley Park), which was sequenced by E. Janke *et al.* as MW487955 (originally labelled in GenBank as *R. odorata*), was re-analysed (F. Hampe, comm. G.G. Kibby) and the sequence was found to match that derived from the holotype of *R. annae*, hence the

collection is redetermined and GenBank has been updated accordingly.

Russula anthracina Romagn.

Move *R. fuliginosa* from 'excluded' list to the synonymy of this species following De Lange *et al.* [*Persoonia* 51: 152-193 (2023)]. Remove *R. anthracina* var. *carneifolia* (nom. inval.) from synonymy as De Lange *et al.* (2023) have shown that this taxon should now be recognised as *R. atramentosa* Sarnari (not currently on the British list).

Russula arvernensis Bidaud & Chalange, *Bull. Soc. mycol. Fr.* 138(1-2): 13 (2022)

S: !

H: Scottish collection on soil under *Betula* and *Populus tremula*.

A collection (2023) from Morayshire (Beachen Wood) determined on morphological characters and barcode matching (99+% similarity) with a sequence derived from the holotype (C.V. Soler, G.G. Kibby, Aberystwyth University IBERS). Further details in Tortelli *et al.* [FM25(1): 8-14 (2024)].

Russula atroglauca Einhell.

E: !

H: On soil with broadleaved trees.

Move from 'excluded' list. Collections (1997 & 2014) at K from Cumberland (Keswick) and Middlesex (Kenwood). [This entry was originally in UD6 but was erroneously omitted from the online searchable database.]

Russula mustelina Fr.

Move to 'excluded' list because the two British collections (ex Herb.M.J. Berkeley 1877) so-named in K and collected in Buckinghamshire (Slough), an unlikely locality for a species associated with montane conifers, were redetermined as *R. heterophylla* following morphological examination (G.G. Kibby).

Scleroderma australe Masee, *Grevillea* 18(no. 86): 26 (1889)

E: !

H: Detected in isolated ectomycorrhizal root tips of planted *Eucalyptus* spp. (imported from Spain as seedlings).

One of the barcode sequences derived from root tip collections (2010) from Nottinghamshire (Daneshill Energy Forest) documented in Pennington *et al.* [*Fungal Ecology* 4: 299-302 (2011)] was subsequently determined following the molecular analysis of Ortiz-Rivero *et al.* [*Phytotaxa* 510(1): 1-17 (2021)].

SOMION Adans., *Familles des plantes* 2: 5. 1763.

Type: *Hydnum occarium* Batsch

occarium (Batsch) Spirin & Miettinen, in Miettinen, Vlasák, Larsson, Vlasák, Sathiya Seelan, Hernawati, Levicky, Larsson & Spirin, *Fungal Systematics and Evolution* 12: 311 (2023)
Mis.: *Spongipellis delectans* s. auct. Eur.

Spongipellis delectans (now *Somion delectans*) is a North American species with a European sibling *S. occarium*. Hence the latter name should now head the CBIB entry formerly headed by *S. delectans*. This name change follows the molecular analyses of Miettinen *et al.* [*Fungal Systematics and Evolution* 12: 271-322 (2023)] who published a photograph of a Surrey collection in K that they redetermined (without sequencing data) as *S. occarium*.

Thaxterogaster glaucocyanopus (Rob. Henry) Niskanen & Liimat., in Liimatainen, Kim, Pokorny, Kirk, Dentinger & Niskanen, *Fungal Diversity*: 10.1007/s13225-022-00499-9, [72] (2022)

S: !

H: Scottish collection on soil under *Betula* in mixed woodland.

A collection (2023) from Easternness (Loch Insh) determined following barcode matching (99.8% similarity) with a sequence derived from the holotype (M. Tortelli, A. Burnham, C.V. Soler, G.G. Kibby, Aberystwyth University IBERS). Further details in Tortelli *et al.* [FM25(1): 8-14 (2024)].

Thaxterogaster subpurpurascens (Batsch) Niskanen & Liimat., in Liimatainen, Kim, Pokorny, Kirk, Dentinger & Niskanen, *Fungal Diversity*: 10.1007/s13225-022-00499-9, [77] (2022)

E: !

H: English collection in chalky soil under *Fagus*.

Move from 'excluded' list (as *Cortinarius subpurpurascens*). A collection (2022) in K from Buckinghamshire (Mousells Wood) determined by comparing its ITS sequence (Alvalab, K. Liimatainen) with that of the epitype as documented in Anon. [FM24(2): 68 (2023)].

Thaxterogaster vespertinus (Fr.) Niskanen & Liimat., in Liimatainen, Kim, Pokorny, Kirk, Dentinger & Niskanen, *Fungal Diversity*: 10.1007/s13225-022-00499-9, [78] (2022)

S: !

H: Scottish collection in soil under *Pinus sylvestris*, *Betula*, and *Picea*.

Move from 'excluded' list (as *Cortinarius vespertinus*) and delete existing **Notes**. A collection (2023) from Easternness (Duackbridge) determined on its distinctive morphology (subglobose spores) and by comparing its ITS sequence (M. Tortelli, A. Burnham, C.V. Soler, G.G. Kibby, Aberystwyth University IBERS) with that of the holotype of *C. variipes* (98.7%). *C. vespertinus* is currently in need of a sequenced type, but it is accepted, at least sensu auct., as providing an earlier name for this species in Liimatainen *et al.* [*Personia* 33: 98-140 (2014)]. Further details in Tortelli *et al.* [FM25(1): 8-14 (2024)].

Tomentella botryoides (Schwein.) Bourdot & Galzin

W: !

H: Welsh collection under a rotten log of broadleaved tree in mixed woodland.

Move from 'excluded' list. A collection (2021) from Merionethshire (Portmeirion) determined as this [sensu Svantesson *et al.* (2021)] by comparing its ITS sequence (Alvalab) with those of reference materials published in Svantesson *et al.* [*Phytotaxa* 497(2): 61-78 (2021)].

Tremella aspicillae Diederich, Coppins & A. Fletcher, in Diederich, Millanes & Etayo, in Diederich, Millanes, Wedin & Lawrey, *Flora of Lichenicolous Fungi*, Vol. 1 - Basidiomycota (Luxembourg): 138 (2022)

W: !

H: Welsh collection on thallus of *Aspicilia caesiocinerea*. Described with a Welsh holotype from Caernarvonshire (Bardsey Island) in Herb. LSR.

Tremella conidiopunctelia Diederich, Millanes, Lendemer, D.P. Waters & Giavarini, in Diederich, Millanes & Etayo, in Diederich, Millanes, Wedin & Lawrey, *Flora of Lichenicolous Fungi*, Vol. 1 - Basidiomycota (Luxembourg): 157 (2022)

E: !

H: On corticolous thalli of *Punctelia* species.

Described with English paratypes from South Hampshire (New Forest). A *Tremella* species in which basidia and basidiospores are absent and replaced in the hymenium by conidiophores, conidiogenous cells and conidia.

ZYGYOMYCES Diederich, Millanes & Wedin, in Diederich, Millanes, Flakus, Rodriguez-Flakus, Etayo & Wedin, in Diederich, Millanes, Wedin & Lawrey, *Flora of Lichenicolous Fungi*, Vol. 1 - Basidiomycota (Luxembourg): 86 (2022)

Type: *Zygyomyces bachmannii* (Diederich & M.S. Christ.) Diederich & Millanes

aiPOLIAE Diederich, Millanes, F. Berger & Ertz, in Diederich, Millanes, Flakus, Rodriguez-Flakus, Etayo & Wedin, in Diederich, Millanes, Wedin & Lawrey, *Flora of Lichenicolous Fungi*, Vol. 1 - Basidiomycota (Luxembourg): 86 (2022)

E: ! **S:** ! **ROI:** !

H: On thalli and apothecia of *Physcia aipolia*.

Described with paratypes from Co. Waterford (Ballymacart Bridge) in Herb. DBN and from Kintyre (Balnabraid Glen), Kirkcudbrightshire (Water of Ken Woods), North Devon (Arlington Court) and Westernness (Dun Bàn) in E.

bachmannii (Diederich & M.S. Christ.) Diederich & Millanes, in Diederich, Millanes, Flakus, Rodriguez-Flakus, Etayo & Wedin, in Diederich, Millanes, Wedin & Lawrey, *Flora of Lichenicolous Fungi*, Vol. 1 - Basidiomycota (Luxembourg): 88 (2022). Name change for *Syzygospora bachmannii*.

physciacearum (Diederich) Diederich, Millanes & Wedin, in Diederich, Millanes, Flakus, Rodriguez-Flakus, Etayo & Wedin, in Diederich, Millanes, Wedin & Lawrey, *Flora of Lichenicolous Fungi*, Vol. 1 - Basidiomycota (Luxembourg): 93 (2022). Name change for *Heterocephalacria physciacearum*.

BASIDIOMYCOTA, PUCCINIOMYCOTINA

CYPHOBASIDIUM Millanes, Diederich & Wedin, *Fungal Biology* 120(11): 1473 (2015) [2016]

Type: *Cyphobasidium hypogymniicola* (Diederich & Ahti) Millanes, Diederich & Wedin

usneicola (Diederich & Alstrup) Millanes, Diederich & Wedin, *Fungal Biology* 120(11): 1474 (2015) [2016]

S: !

H: On thalli of *Usnea*.

Reported in Diederich *et al.* 2022 [Flora of lichenicolous fungi vol. 1, *Basidiomycota*] from North Ebudés (Skye).

Puccinia absinthii DC.

E: ! **W:** !

H: II & III on living leaves of *Artemisia absinthium* and probably also on *A. arborescens* in Wales.

Remove this (and its homotypic synonym) from synonymy of *P. tanacetii* which, sensu stricto, does not occur on *Artemisia*. Taxonomy now follows Klenke & Scholler (2015) and the treatment in Preston *et al.* [FM24(4): 128-136 (2023)].

Puccinia artemisiae-maritimae Fahrenh., *Anns mycol.* 39(2/3): 182 (1941)

E: ! **W:** !

H: II & III on living leaves of *Artemisia* (*Seriphidium*) *maritima*. Formerly included in a wide interpretation of *P. tanacetii* which, sensu stricto, does not occur on *Artemisia*. Taxonomy now follows Klenke & Scholler (2015) and the treatment in Preston *et al.* [FM24(4): 128-136 (2023)].

Puccinia artemisiella P. Syd. & Syd.

E: ! **W:** ! **O:** Channel Islands !

H: II & III on living leaves of *Artemisia vulgaris*.

Remove from synonymy of *P. tanacetii* (along with its synonym *Uredo artemisiae*) which, sensu stricto, does not occur on *Artemisia*. Note that most of the historical British records of *P. tanacetii* (sensu lato) are associated with *A. vulgaris* and will therefore refer to this species. Taxonomy now follows Klenke & Scholler (2015) and the treatment in Preston *et al.* [FM24(4): 128-136 (2023)].

Puccinia chrysanthemi Roze, *Bull. Soc. mycol. Fr.* 16: 92 (1900)

Uredo chrysanthemi Roze, *Bull. Soc. mycol. Fr.* 16: 78 (1900)

E: !

H: II & III on living leaves of cultivated chrysanthemums (*Dendranthema*).

Remove this from synonymy of *P. tanacetii* which, sensu stricto, only occurs on *Tanacetum*. Recognition of this species thereby reinstates the taxonomic view of Grove (1913) and **W&H**.

Puccinia ferruginosa P. Syd. & Syd., *Monogr. Uredin.* (Lipsiae) 1(1): 13 (1902) [1904]

E: !

H: III on living leaves of *Artemisia vulgaris*.

Three collections (2022) from Cambridgeshire (Soham) determined as this based on morphology and a comparison of a derived ITS sequence with those generated from two German collections on the same host plant species which were used as reference material. Further details in Preston *et al.* [FM24(4): 128-136 (2023)].

Puccinia polygoni-vivipari P. Karst., *Enum. Fungorum et Myxomycetum in Lappio orientali*: 221 (1882)

S: !

H: II & III on living leaves of *Bistorta* (*Persicaria*, *Polygonum*) *vivipara*.

Remove from synonymy of *P. bistortae* and delete *Polygonum viviparum* from host list for that species. There are historical records of *P. polygoni-vivipari* from (1938) Moray (Carrbridge) and (1968) East Perthshire (Kindrogan area) and collections in E (2007, 2008) from Mid Perthshire (Tulach Hill, Maud Loch) and (2009) East Perthshire (Loch Moraig) and collections in K (2023) from Moray (Sluggan Bridge) and Easternness (Tomnagowhan). Documented in <https://fungi.myspecies.info/all-fungi/puccinia-polygoni-vivipari>

Puccinia tanacetii DC.

E: ! **S:** !

H: II & III on living leaves of *Tanacetum*.

Delete synonyms. Formerly more widely interpreted (following **W&H** in 1966), but now the synonyms described on *Artemisia* and cultivated chrysanthemums are recognised as several distinct species following Klenke & Scholler (2015) and the treatment in Preston *et al.* [FM24(4): 128-136 (2023)].

BASIDIOMYCOTA, USTILAGINOMYCOTINA

Tracya lemnae (Setch.) Syd. & P. Syd., *Hedwigia* 40(Beibl. 1): 3 (1901)

E: !

H: On living frond of *Spirodela polyrriza* in ditch.

A collection (2018) in K from West Sussex (Amberley) determined on morphological characters (A.M. Ainsworth) as documented in Ainsworth [FM24(4): 116-120 (2023)].

ALIEN BASIDIOMYCETES

Psathyrella kellermanii (Peck) Singer, *Mycologia* 51(3): 392 (1959)

A collection (2023) from plant pot soil in a glasshouse in Berkshire (Aldermaston) determined as this sensu Örstadius *et al.* (2015) by comparing its ITS sequence (E. Janke, Aberystwyth University IBERS) with that of the single sequence (99.4% similarity) published in Örstadius *et al.* [*Mycol. Progress* 14: 25 (2015)].

ADDITIONS & AMENDMENTS TO LIST OF EXCLUDED TAXA

BASIDIOMYCOTA, AGARICOMYCOTINA

botryoides (Schwein.) Bourdot & Galzin, *Tomentella*
Move to 'included' list.

diabolicus (Fr.) Fr., *Cortinarius*
Move to 'included' list and delete existing **Notes**.

frondosa (Fr.), *Tremella*
Move to 'included' list as *Phaeotremella frondosa* and delete existing **Notes**.

fuliginosa Sarnari, *Russula*
Move from 'excluded' list to the synonymy of *R. anthracina* following De Lange *et al.* [*Persoonia* 51: 152-193 (2023)].

mustelina Fr., *Russula*
Move from 'included' list (q.v.).

nigrellus (Pers.) P.D. Orton, *Claudopus*
Note that the synonym *Entoloma nigrellum* (Pers.) Noordel., listed in the CBIB book (p. 401), refers to the combination published as *E. nigrellum* (Qué.) Noordel. in Noordeloos [*Persoonia* 11(2): 150 (1981)], which is likely to have been made in error. This combination cannot have the basionym *Rhodophyllus nigrellus* Qué., as cited in Noordeloos (1981), because that name is itself a combination and has the basionym *Agaricus nigrellus* Pers. Furthermore, there is no mention of this "basionym" on the cited page of Quélet's publication; instead that page includes a confusingly similar name, *Eccilia nigella* Qué., which belongs to a different

species. The combination *Entoloma nigellum* was subsequently published by Noordeloos in *FungEur5* in 1992. Index *Fungorum* has now treated the above 1981 combination made by Noordeloos as an orthographic error correctable to *Entoloma nigellum* (Qué.) Noordel. and cites this as the currently validly published and accepted name (based on the above evidence supplied by D. Mitchel). Thus, when the same combination was made in 1992 it produced an isonym which should therefore be disregarded.

polyrhizum (J.F. Gmel.) Pers., *Scleroderma*
Delete *S. geaster* from synonymy. Both species are epitypified with sequenced collections in Ortiz-Rivero *et al.* [*Phytotaxa* 510(1): 1-17 (2021)]. They are clearly distinct, but neither is authentically British.

suavissimus (Fr.) Singer, *Panus*
Move to 'included' list (as *Neofavolus suavissimus*) and delete existing **Notes**.

subpurpurascens (Batsch) J. Kickx f., *Cortinarius*
Move to 'included' list (as *Thaxterogaster subpurpurascens*) and delete existing **Notes**.

vespertinus Fr., *Cortinarius*
Move to 'included' list (as *Thaxterogaster vespertinus*) and delete existing **Notes**.