

CBIB EIGHTH UPDATE (UD8) (Ainsworth, A.M. & Henrici, A. 2018)

The previous CBIB Update (UD7) was uploaded to the CBIB website (<http://www.basidiochecklist.info/LatestUpdates.asp>) in May 2016 but the amendments have yet to be incorporated into the online searchable CBIB database (<http://www.basidiochecklist.info/Search.htm>). Unless and until uploading resumes, the only way to access the current Checklist in its entirety is to consult the database together with the static copies of updates UD7 and UD8. We would like to take this opportunity to apologise that the database was periodically unavailable during 2018, especially during prolonged periods of warm weather. These accessibility issues should be rectified once the database is transferred to Kew as planned.

One of the priority topics for this Update is the genus *Hebeloma* following publication of *Fungi Europaei* 14 in 2016 and we are indebted to the authors (H.J. Beker, U. Eberhardt & the late J. Vesterholt) for such an exhaustive and illuminating treatment. We would like to thank all those who sequenced Kew Fungarium collections and especially Kare Liimatainen who did most of this work.

Bibliography

Additions to Short References

FungEur14. Beker, H.J., Eberhardt, U. & Vesterholt, J. (2016). *Hebeloma*. *Fungi Europaei* 14. 1218 pp.

ADDITIONS & AMENDMENTS TO LIST OF INCLUDED TAXA

BASIDIOMYCOTA, AGARICOMYCOTINA

Amanita subnudipes (Romagn.) Tulloss, *Mycotaxon* 75: 329 (2000)

E: !

H: English collection on streamside soil under *Fagus* and *Quercus*.

New record. A collection (2017) at K from South Hampshire (Worts Gutter). Further details in Kibby [FM18(4): 139 (2017)].

Antrodia pseudosinuosa A. Henrici & Ryvarde
Following sequencing of the English holotype, this should now be included as a synonym of *Trametopsis cervina* (q.v.). Further details in Henrici *et al.* [FM19(4): 116–118 (2018)].

APIOPERDON (Kreisel & D. Krüger) Vizzini, in Vizzini & Ercole, *Phytotaxa* 299(1): 81 (2017)
Type: *Lycoperdon pyriforme* Schaeff.

pyriforme (Schaeff.) Vizzini, in Vizzini & Ercole, *Phytotaxa* 299(1): 81 (2017)

Name changed from *Lycoperdon pyriforme* following recent molecular studies [Vizzini & Ercole, *Phytotaxa* 299(1): 77–86. (2017)].

Aurantiporus alborubescens (Bourdot & Galzin) H. Jahn
Name changed to *Odoria alborubescens* (q.v.) following molecular studies showing that this species is not closely related to the type of *Aurantiporus* (*A. pilotae*, = *A. croceus*) [Papp & Dima, *Mycol. Progress* 17: 319–332. (2018)].

Biatoropsis hafellneri Millanes, Diederich, M. Westb. & Wedin, *Herzogia* 29(2/1): 341 (2016)

E: !

H: This species appears to be confined to the *Usnea fragiliscens* group of lichens (including *U. cornuta*), whereas *B. usnearum* is mainly confined to the *U. subfloridana* complex (incl. *U. glabrescens* and *U. wasmuthii*).

New record. The holotype (2004) was collected in West Cornwall (Lamorna Cove) on *Usnea cornuta*.

CAMAROPHYLLOPSIS Herink

Recent molecular and morphological studies [Birkebak *et al.*, *Mycologia* 108(5): 860–868 (2016), Adamčík *et al.*, *Mycological Progress* 16(1): 47–62 (2017) and Adamčík *et al.*, *Mycological Progress* 16(8): 811–821 (2017)] have justified the recognition of *Hodophilus* (q.v.) thus necessitating the following moves from *Camarophyllopsis* (retaining *C. schulzeri*).

atropuncta (Pers.) Arnolds
Name changed to *Hodophilus atropunctus* (q.v.).

foetens (W. Phillips) Arnolds
Name changed to *Hodophilus foetens* (q.v.).

hymenocephala (A.H. Sm. & Hesler) Arnolds
Name changed to *Hodophilus hymenocephalus* (q.v.).

micacea (Berk. & Broome) Arnolds
Name changed to *Hodophilus micaceus* (q.v.).

Cantharellus aurora (Batsch) Kuyper
Name changed to *Craterellus lutescens* (q.v.) following the taxonomic treatment in Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)]. Move *C. lutescens* from synonymy to replace the heading of this entry.

Cantharellus cibarius
Remove *C. pallens* (q.v.) from synonymy and recognise as a distinct species (and distinct from *C. ferruginascens*) following the taxonomic treatment in Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)], Olariaga *et al.* [*Fungal Diversity* 83(1): 263–292 (2016)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)]. Move *C. cibarius* var. *albidus* to synonymy of *C. pallens* following Olariaga *et al.* [*Fungal Diversity* 83(1): 263–292 (2016)].

Cantharellus cinereus (Pers.) Fr.
Name changed to *Craterellus cinereus* (q.v.) following the taxonomic treatment in Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)]. Move *Craterellus cinereus* (Pers.) Pers. from synonymy (with corrected recombining author's name) to head this entry.

Cantharellus melanoxeros Desm.
Name changed to *Craterellus melanoxeros* (q.v.) following the taxonomic treatment in Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)].

Cantharellus pallens Pilát
E: !
H: Occurs with broadleaved trees.
Remove from synonymy of *C. cibarius* and recognise as separate species. Move *C. cibarius* var. *albidus* from synonymy of *C. cibarius* following Olariaga *et al.* [*Fungal Diversity* 83(1): 263–292 (2016)]. Add the above details and following **Notes:** "British distribution unclear due to historical confusion with pale varieties/forms of other species (photo labelled *C. pallens* in BritChant: 25 has been redetermined as *C. cibarius* var. *pallidus* in Olariaga *et al.* [*Cryptog. Mycol.* 36(3): 287–300 (2015)] and *C. ferruginascens* (photo labelled *C. ferruginascens* in Ph: 190 is likely to be an example of this). Perhaps the largest component of all the records previously assigned to *C. ferruginascens*. This group is now taxonomically clarified following the morphological and molecular studies of Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)] and Olariaga *et al.* [*Fungal Diversity* 83(1): 263–292 (2016)]. For further details see Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)]."

Cantharellus romagnesianus Eyssart. & Buyck, *Cryptog. Mycol.* 20(2): 108 (1999)
E: !
H: English collection in soil near *Quercus petraea* and *Betula* in woodland.
A collection (2017) at K from East Cornwall (Greenscombe Wood) confirmed as this by matching its barcode sequence with that of the holotype. Further details in Penna [FM19(4): 113–115 (2018)].

Ceriporiopsis herbicola Fortey & Ryvarden
Following sequencing of the isotype, this should now be included as a synonym of *Hapalopilus eupatorii* (q.v.). Further details in Mieltinen *et al.* *Mycokeys*, 17: 1–46 (2016).

Chromocyphella lamellata G. Moreno & Olariaga, in Moreno, G; Prieto, M; Esteve-Raventós, F; Olariaga, I, *Mycologia* 109(4): 583 (2017)

S: !
H: Scottish collection on living pleurocarpous moss on bark of *Picea sitchensis*.
New record. A collection (2018) at K from Dumfriesshire (Dryfehead) confirmed by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.).

Clavaria flavostellifera Olariaga, Salcedo, Daniëls & Kautmanová, in Olariaga, Salcedo, Daniëls, Spooner & Kautmanová, *Mycologia* 107(1): 107 (2015)

W: !
H: Welsh collection in thin soil on coastal headland with very short vegetation.
New record. Macroscopically similar to *C. flavipes* (*C. straminea*) but with ellipsoid, not globose, spores. A collection (2016) at K from Pembrokeshire (Stackpole) confirmed by matching its barcode sequence with that of the holotype (B. Douglas unpubl.).

Clavulina cinerea (Bull.) J. Schröt.
Remove *Clavulina cinerea* var. *gracilis* from synonymy and recognise as separate species *Clavulina reae* (q.v.).

Clavulina coralloides (L.) J. Schröt.
Remove *Clavulina cristata* var. *incarnata* from synonymy and recognise as separate species *Clavulina incarnata* (q.v.).

Clavulina incarnata (Corner) Olariaga, in Olariaga & Salcedo *Mycotaxon* 121: 38 (2013) [2012]
Clavulina cristata var. *incarnata* Corner

E: !
H: English type collections in fenland on soil and on rotting leaves of *Molinia* (Cambridgeshire).
Remove from synonymy of *C. coralloides* (as *Clavulina cristata* var. *incarnata*) and recognise as separate species. Add the above details and following **Notes:** "For further details see Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)]."

Clavulina reae Olariaga, in Olariaga & Salcedo *Mycotaxon* 121: 38 (2013) [2012]
Clavulina cinerea var. *gracilis* Rea

E: !
H: English type collections on bare soil in woods (Shropshire and Worcestershire).
Remove from synonymy of *C. cinerea* (as *Clavulina cinerea* var. *gracilis*) and recognise as separate species. Add the above details and following **Notes:** "For further details see Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)]."

Clavulinopsis luteonana Schild
Name changed to *Ramariopsis luteonana* (q.v.).

Clavulinopsis luteo-ochracea (Cavara) Corner
Name changed to *Ramariopsis luteo-ochracea* (q.v.).

Coprinellus sassii (M. Lange & A.H. Sm.) Redhead, Vilgalys & Moncalvo
Move to 'excluded' list.

Cortinarius acutispissipes Rob. Henry, *Bull. trimest. Soc. mycol. Fr.* 97(3): 172 (1981)

E: !
H: English collection in soil under *Quercus* and *Betula* in a cemetery.
A collection (2005) at K from Surrey (Brookwood Cemetery) redetermined as this and confirmed by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.).

Cortinarius albocyanus Fr., *Monogr. Hymenomyc. Suec.* (Upsaliae) 2(1): 62 (1863)

E: !
H: English collections in woodland soil near *Betula* or amongst *Helianthemum nummularium* on calcareous downland.

Recent collections (2017) at K from East Sussex (Malling Down) and West Kent (Mereworth Woods) and collections redetermined as this (2002 onwards) from Buckinghamshire (Coombe Hill) and North Somerset (Walton Common) confirmed by matching their barcode sequences with that of the epitype. Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)]. Move from 'excluded' list and delete **Notes** with the exception of the last sentence.

Cortinarius aleuriosmus Maire

Move to 'excluded' list and move *C. caroviolaceus* from synonymy to head this entry.

Cortinarius anomalus (Fr.) Fr.

Three species to be removed from synonymy and recognised as distinct species based on molecular analyses: *Cortinarius azureovelatus* (q.v.) to be moved to the head of the current *C. xanthocephalus* entry with the latter reduced to a synonym, *C. epsomiensis* (q.v.), and *C. lepidopus* (q.v.).

Cortinarius aurantiobasalis Bidaud, in Bidaud, Moënnelocoz, Reumaux & Henry, *Atlas des Cortinaires*, Pars V (Annecy): 150 (1993)

E: !

H: English collection in soil in coniferous plantation. A collection (2006) at K from West Kent (Bedgebury Pinetum) redetermined as this and confirmed by matching its barcode sequence with that derived from material representing *C. aurantiobasalis* sensu Garnica (K. Liimatainen unpubl.).

Cortinarius azureovelatus P.D. Orton

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

H: Scottish and English (type or barcode verified) collections from broadleaved or mixed woodland from a range of habitats.

Move from synonymy of *C. anomalus* to the head of the current *C. xanthocephalus* entry with the latter reduced to a synonym. Amend the author's name to P.D. Orton. Replace **Notes** with: Verified as British based on matching of sequences (K. Liimatainen unpubl.) with those obtained from the British holotypes of *C. azureovelatus* and *C. xanthocephalus*. The former is the earlier (1958 vs. 1960) of the two Orton names and therefore takes priority.

Cortinarius caroviolaceus P.D. Orton

Move from synonymy of *C. aleuriosmus* to the head of the entry.

Cortinarius castaneolens Chevassut & Rob. Henry, *Docums Mycol.* 12(no. 47): 37 (1982)

S: !

H: Scottish collection in soil near *Pinus* and *Betula* in woodland with *Sphagnum*.

A collection (2005) at K from Easternness (Loch Garten) redetermined as this and confirmed by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.). It is possible that further molecular analysis will reveal an earlier name for this species.

Cortinarius circinans Rob. Henry, *Docums Mycol.* 16(no. 61): 27 (1985)

S: !

H: Scottish collection in mossy soil near planted *Picea* sp.

A collection (2017) at K from West Sutherland (Borgie Forest) redetermined as this and confirmed by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.).

Cortinarius colossipes Reumaux, in Bidaud, Henry, Moënnelocoz & Reumaux, *Atlas de Cortinaires 3* (Annecy): 70 (1991)

E: ! **S:** !

H: British collections in soil near *Fagaceae* or *Pinus*.

Recent collections (2017) at K from East Sussex (Guestling Wood & Sheffield Park) and redetermined collections (2006 onwards) from Caithness (Olrig Wood) and Surrey (Esher Common, White Down) confirmed by matching their barcode sequences with that of the holotype (K. Liimatainen unpubl.). It is possible that further molecular analysis will reveal an earlier name for this species.

Cortinarius confirmatus Rob. Henry, *Bull. trimest. Soc. mycol. Fr.* 99(1): 67 (1983)

E: !

H: English collection fruiting in soil amongst *Helianthemum nummularium*.

A collection (2008) at K from North Somerset (Cross Plain) determined as this by matching its barcode sequence with that of the holotype. Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)].

Cortinarius epsomiensis P.D. Orton

E: ! **W:** !

H: English and Welsh (holotype or barcode verified) collections fruiting in calcareous grassland soil amongst *Helianthemum nummularium*. Known to associate elsewhere in Europe with broadleaved trees and has also been verified from wooded sandy heathland with mixed tree cover [as *C. pastoralis* in Dima *et al.*, *Mycol. Progr.*, 15: 903–919 (2016)].

Move from synonymy of *C. anomalus*. British holotype sequence obtained and matched with those from 10 Kew Fungarium collections in a study of *Helianthemum*-associated *Cortinarius*. Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)].

Cortinarius ferrusinus Ballarà, Mahiques & Garrido-Ben., *Moixeró* 9: 32 (2017)

W: !

H: Welsh collection fruiting in soil amongst *Helianthemum*.

I: FM16(4): 112 (as *C. spilomeus*)

A collection (2014) at K from Montgomeryshire (Llanymynech Rocks) redetermined as this by matching its barcode sequence with that of the holotype. Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)].

Cortinarius furfuraceus Rob. Henry ex Bidaud, in Bidaud, Moënnelocoz, Reumaux & Henry, *Atlas des Cortinaires*, Hors-Serie 1: 146 (1997)

S: !

H: Scottish collection in soil in mesic/damp *Pinus*-dominated woodland with *Betula*.

A collection (2015) at K from Mid Perthshire (Black Wood of Rannoch) redetermined as this and confirmed by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.).

Cortinarius geraniolens Bidaud, in Bidaud, Moënnelocoz, Reumaux & Carteret, *Atlas des Cortinaires* (Meyzieu) 19: 1506 (2010)

E: !

H: English collection in soil under young planted *Quercus* sp. in damp broadleaved woodland.

New record. A collection (2012) at K from South Lancashire (Scutchers Acres) confirmed by matching its barcode sequence with that of the holotype (B. Douglas & K. Liimatainen unpubl.).

Cortinarius imbutus Fr.

Move to 'excluded' list.

Cortinarius lacustris Moënnelocoz & Reumaux, in Bidaud, Moënnelocoz, Reumaux & Henry, *Atlas des Cortinaires*, Hors-Serie 1: 148 (1997)

E: !

H: English collection fruiting in soil beneath shallow water amongst lakeside sedges near *Quercus*.

A collection (2006) at K from Surrey (Vann Lake) redetermined as this and confirmed by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.). There are other sequenced collections awaiting accession and this is likely to be one of the most common British Hinnulei species.

Cortinarius lepidopus Cooke

Cortinarius anomalus var. *lepidopus* (Cooke) J.E. Lange, *Fl. agaric. danic.* 5 *Taxonomic Conspectus*: II (1940)

Cortinarius anomalus f. *lepidopus* (Cooke) Nespiak, *Fl. Polska*: 66 (1975)

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

H: Scottish (barcode verified) collection from *Pinus* woodland with *Betula* but other collections are from a range of habitats. Move from synonymy of *C. anomalus*. Verified (s. FN) as British based on a sequence obtained (K. Liimatainen unpubl.) from a 2015 collection at K from Mid Perthshire (Black Wood of Rannoch).

Cortinarius leucoluteolus Rob. Henry, *Bull. trimest. Soc. mycol. Fr.* 99(1): 75 (1983)

E: !

H: English collections in soil near *Fagus* or *Quercus*. Two collections (2017 & 2006) at K respectively from East Sussex (Sheffield Park) and Surrey (Norbury Park) redetermined as this and confirmed by matching their barcode sequences with that of the holotype (K. Liimatainen unpubl.).

Cortinarius luridus Rob. Henry, *Bull. trimest. Soc. mycol. Fr.* 84(3): 406 (1969) [1968]

E: !

H: English collection in soil in woodland. A collection (1995) at K from South Devon (Loddiswell) redetermined as this (formerly as *C. renidens*) based on comparison of its barcode sequence with that of the holotype. It is possible that further molecular analysis will reveal an earlier name for this species (K. Liimatainen unpubl.).

Cortinarius myxo-anomalus Kühner, *Docums Mycol.* 20(no. 77): 92 (1989)

E: !

H: English collections in woodland soil near *Betula*. Collections (2011 & 2004) at K respectively from Dorset (Halstock) and South Somerset (Quantock Hills) redetermined as this and confirmed by matching their barcode sequences with that of a syntype. This forms part of an unresolved *C. delibutus* complex and it is possible that further molecular analysis will reveal an earlier name for this species (K. Liimatainen unpubl.).

Cortinarius obtusorum Rob. Henry, *Bull. trimest. Soc. mycol. Fr.* 83(4): 1021 (1968) [1967]

E: !

H: English collection in soil under *Picea abies* in old plantation. A collection (2009) at K from Dorset (Clifton Maybank) redetermined as this and confirmed by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.).

Cortinarius praestigiosus (Fr.) M.M. Moser, *Schweiz. Z. Pilzk.* 43(8): 131 (1965)

E: ! **S:** !

H: Scottish collection in soil in mesic/damp *Pinus*-dominated woodland with *Betula*. Move from 'excluded' list. A collection (2015) at K from Mid Perthshire (Black Wood of Rannoch) redetermined as this and confirmed by matching its barcode sequence with that of the neotype (K. Liimatainen unpubl.). There is also a verified English collection awaiting accession.

Cortinarius punctatiformis Carteret, in Bidaud, Carteret, Reumaux & Moëgne-Loccoz, *Atlas des Cortinaires* (Meyzieu) 20: 1575 (2012)

E: !

H: English collections in woodland soil. A few recent collections (several to be accessioned) at K from Kent and Middlesex determined as this and a 2010 collection from Surrey (Kew Gardens) redetermined as this. All based on matching barcode sequences with that derived from the holotype (T. Niskanen & K. Liimatainen unpubl.).

Cortinarius quercoconicus Liimat., Kytöv. & Niskanen, in Liimatainen, *Index Fungorum* 344: 3 (2017)

E: !

H: English collection in soil on mossy bank near near *Quercus*, *Carpinus* and *Corylus*. A collection (2017) at K from North Essex (Epping Forest) verified as this by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.). This is *C. psammocephalus* s. CFP, but note that Bulliard's original plate

of this species might not even represent a member of the genus *Cortinarius*.

Cortinarius renidens Fr.

Move to 'excluded' list.

Cortinarius roseipes (Velen.) Reumaux

Move to 'excluded' list.

Cortinarius sobrius P. Karst., *Hedwigia* 29: 177 (1890)

E: !

H: English collection in soil under planted *Populus* sp. New record. A collection (2016) at K from East Sussex (Birchden Wood) confirmed by matching its barcode sequence with that of the type (K. Liimatainen unpubl.).

Cortinarius sphagnicola Carteret & Reumaux, in Bidaud, Carteret, Eyssartier, Moëgne-Loccoz & Reumaux, *Atlas des Cortinaires* (Meyzieu) 14: 908 (2004)

E: !

H: English collections in damp soil in *Alnus* carr. Two collections (2009 & 1998) at K respectively from North Somerset (Catcott Heath) and Shropshire (Colemere Country Park) redetermined as this and confirmed by matching their barcode sequences with that of the holotype (K. Liimatainen unpubl.). It is possible that further molecular analysis will reveal an earlier name for this species.

Cortinarius squamosocephalus Bidaud, Moëgne-Locc. & Reumaux, *Bull. trimest. Soc. mycol. Fr.* 115(4): 417 (1999)

E: !

H: English collections fruiting in soil near *Carpinus* or *Quercus*. Collections (2017 & 2006) at K respectively from East Kent (Rice Wood) and Surrey (Vann Lake) redetermined as this and confirmed by matching their barcode sequences with that of the holotype (K. Liimatainen unpubl.).

Cortinarius subcoronatus Bidaud, in Bidaud, Moëgne-Loccoz, Reumaux, Carteret & Eyssartier, *Atlas des Cortinaires* (Meyzieu) 11: 576 (2001)

Mis.: *Cortinarius roseipes* sensu auct. Brit.

E: !

H: English collections fruiting in soil amongst *Helianthemum nummularium*.

Collections (2004 onwards) at K from Derbyshire (Deep Dale), North Somerset (Hellenge Hill), Staffordshire (Castern Wood) and Westmorland (Heathwaite) redetermined as this and confirmed by matching their barcode sequences with that of the holotype. Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)]. It is possible that further molecular analysis will reveal an earlier name for this species.

Cortinarius torvoides Rob. Henry, in Bidaud, Moëgne-Loccoz, Reumaux & Henry, *Atlas des Cortinaires* (Meyzieu) 10: 400 (2000)

E: !

H: English collection in soil under *Fagus sylvatica* in plantation. A collection (2008) at K from North Somerset (Long Sutton Plantations) determined as this by matching its barcode sequence with that of the holotype (K. Liimatainen unpubl.).

Cortinarius ultrodistortus Rob. Henry & Vagnet, in Henry, *Bull. trimest. Soc. mycol. Fr.* 108(4): 220 (1992)

E: !

H: English collections fruiting in soil amongst *Helianthemum nummularium*.

Collections (2004 onwards) at K from Derbyshire (Coombs Dale), Oxfordshire (Watlington Hill) and Staffordshire (Castern Wood) redetermined as this and confirmed by matching their barcode sequences with those of the holotype. Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)]. It is possible that further molecular analysis will reveal an earlier name for this species.

Cortinarius vesterholtii Frøslev & T.S. Jeppesen, in Frøslev, Jeppesen & Læssøe, *Mycol. Res.* 110(9): 1055 (2006)

E: !

H: English collections fruiting in soil amongst *Helianthemum nummularium* or near *Carpinus betulus*. Collections (2002 onwards) at K from East Kent (Putt Wood), North Somerset (Hellinge Hill) and Staffordshire (Castern Wood) confirmed or redetermined as this by matching their barcode sequences with those of the holotype. Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)].

Cortinarius xanthocephalus P.D. Orton
Move *C. azureovelatus* (q.v.) from synonymy of *C. anomalus* to the head of the current *C. xanthocephalus* entry. *C. xanthocephalus* is reduced to a synonym.

CRATERELLUS Pers.

Move *Pseudocraterellus* to synonymy following Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis. (2009)].

cinereus (Pers.) Pers.

Name changed from *Cantharellus cinereus* following the taxonomic treatment in Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis. (2009)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)].

lutescens (Fr.) Fr.

Name changed from *Cantharellus aurora* (nom. illegit.) following the taxonomic treatment in Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis. (2009)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)]. *C. lutescens* sensu Fries is now a conserved name with a conserved type.

melanoxeros (Desm.) Pérez-De-Greg., in Carbó, Pérez-De-Gregorio, Rocabrana, Vila, Llistosella, Tabarés, Ballarà, Rodríguez, Torrent & Cortés, *Bolets de Catalunya* (Barcelona) 19(901–950): lám. 908 (2000)

Name changed from *Cantharellus melanoxeros* following the taxonomic treatment in Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis. (2009)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)].

sinuosus (Fr.) Fr.

Name changed from *Pseudocraterellus undulatus*. Controversy over the epithet remains, however, as there are three competing sanctioned names. For further details see Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)].

Cuphophyllus lepidopus (Rea) A.M. Ainsw., *Index Fungorum* 332: 1 (2017)

Name changed from *Hygrocybe fornicata* var. *lepidopus* based on molecular data (A.M. Ainsworth *et al.* unpubl.).

DESCOLEA Singer emend. Kuhar, Nouhra & M.E. Smith.

Setchelliogaster Pouzar
Synonymy based on molecular studies [Kuhar *et al.*, *Fungal Biology* 121: 876–889 (2017)].

tenuipes (Setch.) Neville & Poumarat, in Neville, Poumarat & Ivaldi, *Bull. Soc. mycol. Fr.* 120(1–4): 68 (2005) [2004]
Secotium tenuipes Setch., *J. Mycol.* 13(6): 239 (1907)
Setchelliogaster rheophyllus (Bertault & Malençon) G. Moreno & Kreisel

Name changed from *Setchelliogaster rheophyllus* based on molecular studies [Kuhar *et al.*, *Fungal Biology* 121: 876–889 (2017)].

EMMIA Zmitr., Spirin & Malysheva, in Zmitrovich, Malysheva & Spirin, *Mycena* 6: 33 (2006)

Type: *Emmia latemarginata* (Durieu & Mont.) Zmitr., Spirin & Malysheva, in Zmitrovich, Malysheva & Spirin, *Mycena* 6: 33 (2006)

Recent molecular studies [Wu *et al.*, *Mycologia* (2017) DOI: 10.1080/00275514.2017.1405215] have shown that *Oxyporus latemarginatus* is not closely related to the type of the genus thus justifying the recognition of *Emmia*.

latemarginata (Durieu & Mont.) Zmitr., Spirin & Malysheva, in Zmitrovich, Malysheva & Spirin, *Mycena* 6: 33 (2006)
Name changed from *Oxyporus latemarginatus*.

Entoloma atroenigmaticum Noordel. & Hauskn., *Öst. Z. Pilzk.* 11: 120 (2002)

E: !

H: English collection in woodland soil.
New record. A collection (2016) at K from South Hampshire (Ocknell Inclosure).

Entoloma atromadidum A.M. Ainsw. & B. Douglas, in Ainsworth, Douglas & Suz, *Field Mycology* 19(1): 9 (2018)

E: ! **W:** !

H: Occurs in nutrient-poor grazed or mown grassland soil with one known site on thin soil overlying limestone pavement beneath scrub woodland.

Newly-described species with holotype from Oxfordshire (Watlington Hill). Collections (1982 onwards) at K, many of which were originally assigned to *E. bloxamii* (q.v.) or *E. madidum* (q.v.) and redetermined as this by matching their barcode sequences with those of the holotype. Further details in Ainsworth *et al.* [*Field Mycology* 19(1): 5–14 (2018)].

Entoloma bloxamii (Berk. & Broome) Sacc.

E: ! **W:** !

Now recognised in a restricted (and epitypified) sense alongside a reinstated (and neotypified) *E. madidum* (q.v.), *E. ochreoprunuloides* f. *hyacinthinum* and the newly-described *E. atromadidum* (q.v.), all of which constitute *E. bloxamii* s.l. This taxonomic revision is based on the molecular analyses in Morgado *et al.* [*Persoonia* 31: 159–178 (2013)] and in Ainsworth *et al.* [*Field Mycology* 19(1): 5–14 (2018)]. The revised distribution data above are based on currently available molecular evidence.

Entoloma conocybecystis Noordel. & Liiv, *Persoonia* 15(1): 28 (1992)

W: !

H: Welsh collection in grassland.
New record. A Welsh collection published in Griffith *et al.* [*Mycosphere* 4(5): 969–984. (2013)].

Entoloma glaucobasis Huijsman ex Noordel., *Persoonia* 12(4): 260 (1985)

W: !

H: Welsh collection in grassland.
New record. A Welsh collection published in Griffith *et al.* [*Mycosphere* 4(5): 969–984. (2013)].

Entoloma madidum Gillet

E: ! **S:** ! **W:** ! **ROI:** ! **O:** Isle of Man: !

Move from 'excluded' list. Now recognised in a neotypified sense and distinct from epitypified *E. bloxamii* (q.v.). This taxonomic revision is based on the molecular analyses in Morgado *et al.* [*Persoonia* 31: 159–178 (2013)] and in Ainsworth *et al.* [*Field Mycology* 19(1): 5–14 (2018)]. The revised distribution data above are based on currently available molecular evidence.

Entoloma moserianum Noordel., *Sydowia* 36: 208 (1983)

E: !

H: English collection in long grass by old hedgerow.
New record. A collection (2016) at K from West Gloucestershire (Thornbury) confirmed by M.E. Noordeloos. Further details in Kibby & Harding [FM17(3): 98–99].

Entoloma rubellum (Scop.) Gillet

Move to 'excluded' list.

Gloiocephala menieri (Boud.) Singer

E: !

H: English collection on dead *Typha latifolia* in fen.

Move from 'excluded' list. A collection (2017) at K from East Norfolk (Filby Broad).

Gyroporus lacteus Qué.

Amend the author name (because *Boletus lacteus* Lév., previously cited as basionym, is a nom. illegit.) and move from synonymy of *G. cyanescens* to 'excluded' list. This has been confirmed as a distinct species by molecular analysis in Vizzini *et al.* [*Phytotaxa* 226(1): 27–38 (2015)]. It was published as a British species in Kibby [*Field Mycology* 18(2): 62–65 (2017)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)] based on a 2016 collection at K from West Suffolk (Thetford Forest). However, the barcode sequence derived from this specimen is a closer match to that derived from the epitype of *G. cyanescens* (L.M. Suz unpubl.) and it has now been redetermined. *Gyroporus lacteus* is therefore unsubstantiated with voucher material and moved to the 'excluded' list.

Haasiella splendidissima Kotl. & Pouzar

Move from 'excluded' list to the synonymy of *H. venustissima* following molecular analysis in Vizzini *et al.* [*Mycologia* 104(3): 777–784 (2012)].

Hapalopilus eupatorii (P. Karst.) Spirin & Miettinen, in Miettinen, Spirin, Vlasák, Rivoire, Stenroos & Hibbett, *MycKeys* 17: 15 (2016)

Ceriporiopsis herbicola Fortey & Ryvarden

E: !

H: English collection at base of dead *Arctium* stem (originally determined as *Ceriporiopsis herbicola*, new to science). Include *Ceriporiopsis herbicola* in synonymy based on molecular analysis of an isotype-derived sequence [Miettinen *et al.*, *MycKeys* 17: 1–46 (2016)].

HEBELOMA (Fr.) P. Kumm., *Führ. Pilzk.*: 22, 80 (1871)

Type: *Hebeloma mesophaeum* (Pers.) Qué., typ. cons. Beker *et al.*'s proposal to conserve the generic name *Hebeloma* typified by *H. mesophaeum*, not *H. fastibile* as in printed CBIB (2005), has been approved by the Nomenclature Committee for Fungi and awaits ratification by the General Committee [Beker *et al.*, *FungEur*14: 105 (2016)]. The following changes and "verified collections" are derived from Beker *et al.*'s detailed molecular, morphological and ecological studies and are based upon *FungEur*14 and their list of 45 UK species in *FM* 18(4): 119–132 (2017). Voucher collections cited in the online CBIB database should be deleted or replaced by sequence-verified collections.

aanenii Beker, Vesterh. & U. Eberh., in Eberhardt, Beker & Vesterholt, *Persoonia* 35: 111 (2015)

E: !

H: Occurs with a wide range of trees and shrubs in various habitats including dunes, parkland, scrub and woodland. New record. English collections verified from Buckinghamshire (Rushbeds Wood), Derbyshire (Ladybower Reservoir), Nottinghamshire (Clumber Park and Daneshill Forest), Warwickshire (Bishopton) and West Lancashire (Gait Barrows).

aestivale Vesterh.

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

H: Usually on base-rich soil and associated with *Fagaceae*. Amend the above details and replace **Notes** with: "Verified English collections from Derbyshire (Ladybower Reservoir and Lockerbrook), Hertfordshire (Whippendell), Oxfordshire (Warburg Reserve), Surrey (Boldermere) and Westmorland (Roudsea) and one collection has been verified from Jersey (Pont Marquet) [Beker *et al.*, *FungEur*14: 355 (2016)]."

alpinum (J. Favre) Bruchet

Move to 'excluded' list.

ammophilum Bohus

Move to 'excluded' list.

anthracophilum Maire

E: !

H: Occurs on burnt ground and likely to be associated with *Fagaceae*.

Move from 'excluded' list. Amend the above details and replace

Notes with: "Verified English collections from Derbyshire (Chatsworth) and South-east Yorkshire (Holmsfield Wood)."

arenosum Burds., Macfall & M.A. Albers

Move to 'excluded' list.

atrobrunneum Vesterh.

Move to synonymy of *H. nigellum* (q.v.).

birrus (Fr.) Gillet

Hebeloma calyptosporum Bruchet
Hebeloma radicum (Cooke) Maire

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

H: Occurs with a wide range of coniferous and broadleaved trees in various habitats, often from locally nitrogen-enriched spots.

Move *H. pumilum* and *H. danicum* from synonymy and recognise both as separate species. Move *H. calyptosporum* and *H. radicum* (and its synonyms but note the amended recombining author's name for *H. longicaudum* var. *radicum* (Cooke) Sacc.) from 'excluded' list to synonymy. Amend the above details (including the recombining author's name) and replace **Notes** with: "Verified collections from Antrim (in E as *H. populinum*), East Norfolk (Itteringham), Easternness (Curr Wood and Glenmore) and Surrey (Elstead and Saville Gardens)."

bulbiferum Maire, *Publ. Inst. Bot. Barcelona* 3(no. 4): 108 (1937)

Hebeloma colossus Huijsman

E: !

H: Occurs in base-rich soil, usually with *Quercus* and likely to favour warm localities.

Move *H. colossus* from 'excluded' list to synonymy [following morphological studies by Beker *et al.*, *FungEur*14: 582 (2016)]. A verified English collection (1976), originally determined as *H. colossus*, verified from West Sussex (Burpham).

cavipes Huijsman

E: !

H: Occurs with a wide range of trees and shrubs (including *Eucalyptus* and *Helianthemum*) in various habitats including dunes, but not known from arctic/alpine habitats.

Move *H. lutense* from synonymy and move both from 'excluded' list and recognise as separate species. Add the above details and replace **Notes** with: "English collections verified from Cheshire (Crew Hall), Derbyshire (Deepdale, Dovedale and Ladybower Reservoir), Nottinghamshire (Clumber Park, Daneshill Forest), Surrey (Penny Hill Park).

circinans (Qué.) Sacc.

Move to 'excluded' list.

clavulipes Romagn.

E: !

H: In wet, often boggy or mossy ground, apparently associated with *Betula*, *Picea* and *Salix*.

Move from 'excluded' list. Add the above details and replace

Notes with: "Although some deviating microscopical differences were noted [Beker *et al.*, *FungEur*14: 123 (2016)], two English collections (1964) from East Norfolk (Surlingham) in E and previously named as *H. ? pumilum* were verified and accepted as *H. clavulipes* due to insufficient evidence supporting their recognition as a distinct taxon."

crustuliniforme (Bull.) Qué. emend. Beker, Vesterh. & U. Eberh.

E: ! **S:** ? **W:** ? **NI:** ? **ROI:** ? **O:** Channel Islands: !

H: Occurs with a wide range of trees and shrubs in various habitats including dunes, but not known from arctic/alpine habitats.

Amend the above details and replace **Notes** with: "English collections verified from London and West Norfolk (Holkham Meals). One collection in K from the latter site was previously determined as *H. circinans* (now excluded from the British list). A collection in K from Jersey (Les Quennevais) filed as *H. ochroalbidum* (*H. eburneum*) now redetermined as *H. crustuliniforme* [Beker *et al.*, FungEur14: 218 (2016)]. Note that this is not one of the most frequently recorded *Hebeloma* species in Britain fide Beker *et al.* [FM 18(4): 119–132 (2017)] and collections they studied represented "some 15 different taxa!" Existing collections therefore require re-analysing before the distribution of this species can be satisfactorily understood.

danicum Gröger

E: !

H: Occurs with a wide range of trees and shrubs in various habitats.

Remove from synonymy of *H. birrus* and recognise as separate species. Add the above details and following **Notes**: "An English collection in K (1994) from West Sussex (Houghton Forest) has been redetermined as this (Beker *et al.* [FM 18(4): 119–132 (2017)]."

dunense L. Corb. & R. Heim

Hebeloma collariatum Bruchet

E: ! **W:** !

H: Occurs in dunes, in arctic/alpine habitats and in woodlands with *Salicaceae*.

Move *H. collariatum* from 'excluded' list to synonymy [following lectotype studies by Beker *et al.*, FungEur14: 582 (2016)] and delete associated **Notes**. Replace **Habitat** and **Distribution** data with the above details and replace **Notes** with: "English and Welsh collections verified from Anglesey (Aberffraw and Newborough dunes), Buckinghamshire (Whitchurch) and two collections previously named as *H. psammophilum* from South Lancashire (Ainsdale Dunes) and Westmorland (Sandcastle Haws), the latter preserved in K."

eburneum Malençon, in Malençon & Bertault, *Champignon Supérieurs du Maroc* 1: 445 (1970)

E: !

H: Occurs with a wide range of trees and shrubs in various habitats including dunes, but not known from arctic/alpine habitats.

New record. An English collection (2002) verified from South Lancashire (Ainsdale Dunes).

fragilipes Romagn.

Move to 'excluded' list.

fusisporum Gröger & Zschiesch.

E: ! **S:** ! **W:** !

Amend the above details, delete last sentence of **Habitat** and replace **Notes** with: "Verified collections from Anglesey (Cors Erd), Caernarfonshire (Cors Geirch), Caithness (Loch Olginiey), Easternness (Bogach and Tulochgrue), Mid-west Yorkshire (Gisburn Forest), South-west Yorkshire (Moor Piece and Potteric Carr)."

geminatum Beker, Vesterh. & U. Eberh., in Eberhardt, Beker & Vesterholt, *Persoonia* 35: 122 (2015)

E: !

H: A cryptic species occurring with a wide range of trees and shrubs in various habitats.

New record. An English collection (1971) filed in K as *H. alpinum* from West Kent (Bedgebury Pinetum) has been redetermined as this [Beker *et al.*, FM 18(4): 119–132 (2017)]. Other verified collections are from Berkshire (California Park), Surrey (Virginia Water and Witley), West Kent (Tudeley Woods), and West Sussex (Griffham).

gigaspermum Gröger & Zschiesch.

Move to synonymy of *H. nauseosum* (q.v.).

griseopruinatum Vesterh., Beker & U. Eberh., in Eberhardt, Beker, Vesterholt, Dukik, Walther, Vila & Fernández Brime, *Fungal Diversity* 58(1): 120 (2013)

E: !

H: Occurring with *Helianthemum nummularium* in calcareous grassland.

New record. This species has an English collection (2002) from Staffordshire (Bincliffe Mines) as paratype. Otherwise known from Denmark (holotype) and Germany (paratype) but expected to be widespread in Europe wherever suitable habitat exists.

hetieri Boud.

Move to synonymy of *H. odoratissimum* (q.v.).

hiemale Bres.

Hebeloma oculatum Bruchet

E: ! **S:** !

H: Occurs with a wide range of trees and shrubs in various habitats.

Move from 'excluded' list following Beker *et al.*, FungEur14: 326 (2016). Move *H. collariatum* from 'excluded' list to synonymy. Add the above details and replace **Notes** with: "Formerly *H. hiemale* was excluded from the list as a *nomen dubium* with the note that British records were, at least in part, *H. fragilipes*. The current view is that there are no known verified collections of *H. fragilipes*. On the other hand there are verified collections of *H. hiemale* [as epitypified in Beker *et al.*, FungEur14: 326 (2016)] from widespread localities in England and Scotland."

hygrophilum Poumarat & Corriol, in Beker, Eberhardt & Vesterholt, *Fungi europ.* (Lomazzo) 14: 138 (2016)

E: !

H: Occurs in boggy soil, among *Sphagnum* beneath *Salix*.

New record. English collections (2002) verified from Mid-west Yorkshire (Malham Tarn).

incarnatum A.H. Sm.

Move to 'excluded' list.

ingratum Bruchet

E: !

H: Occurs with a wide range of trees and shrubs (usually broadleaved) in various habitats.

Move from 'excluded' list. Add the above details and replace **Notes** with: "An English collection (2000) from Surrey (Witley) has been verified as this [Beker *et al.*, FungEur14: 291 (2016)]."

ischnostylum (Cooke) Sacc.

E: !

H: Occurs with a range of broadleaved trees and shrubs (usually broadleaved) in various habitats many of which are wet.

Move from 'excluded' list. Add the above details and replace **Notes** with: "Cooke's illustration of specimens from Shropshire (Shrewsbury) has been designated as lectotype supported by a sequenced French epitype [Beker *et al.*, FungEur14: 514 (2016)]. Verified English collections from Berkshire (Windsor Great Park), Derbyshire (Abney Clough), Hertfordshire (Northaw) and Shropshire (Dudmaston Estate)."

laetitiae Quadr., *Mycotaxon* 49: 281 (1993)

E: !

H: (Based on three worldwide collections) Occurs in wet soil with *Quercus* and expected to be rare in Europe.

New record. A white-spored ("*Hebelomina*") English collection (2001) has been verified from Buckinghamshire (Stoke Common). The other two known collections (brown-spored) are from Italy [Beker *et al.*, FungEur14: 295 (2016)].

laterinum (Batsch) Vesterh.

E: !, **W:** ?

H: Occurs with a wide range of trees and shrubs in various base-rich soils including grassland sites with *Helianthemum*. Amend the above details and move *H. fastibile* from 'excluded' list and include in synonymy of *H. laterinum*. Beker *et al.*, FungEur14: 451 (2016) assumed that the accepted proposal to conserve the name *Agaricus laterinus* against the sanctioned name *Agaricus fastibilis* (which was the generic

type) would be endorsed and the generic type would be replaced by *H. mesophaeum*. Verified collections are known from widespread localities in England.

leucosarx P.D. Orton

E: !, **S:** !, **W:** ?, **NI:** ?, **ROI:** ?

H: Occurs with moss, often in wet areas with *Sphagnum*, and associated with *Betula* and/or conifers.

Amend the above details, move *H. velutipes* from synonymy to be recognised as an included species in its own right and replace **Notes** with: "Verified collections from Berkshire (Windsor Great Park), Easternness (Curr Wood, Glenmore, Insh, Loch an Eilein, Loch Loy and Tullochgrue), (South-west Yorkshire (Lords Lot), Surrey (Boldermere) and Westmorland (Roudsea)."

limbatum Beker, Vesterh. & U. Eberh., in Beker, Eberhardt, Vesterholt & Schütz, *Fungal Biology* 120(1): 83 (2015) [2016]

E: !

H: Likely to be associated with base-rich soils and *Quercus*. New record. An English collection in H. Beker's fungarium (1994) from Buckinghamshire (Stoke Park) has been determined as this (Beker *et al.* [FM 18(4): 119–132 (2017)].

lutense Romagn.

E: ! **S:** !

H: Occurs with *Salicaceae* and usually on wet sites. Remove from synonymy of *H. cavipes* in 'excluded' list and recognise as separate species. Verified collections from Easternness (Bogach and Loch Loy), Orkney and Surrey (Boldermere and Bookham Common).

marginatum (J. Favre) Bruchet

Move to 'excluded' list.

mesophaeum (Pers.) Quéf.

Hebeloma mesophaeum var. *crassipes* Vesterh.

Hebeloma bruchetii Bon

Hebeloma subcollariatum (Berk. & Broome) Sacc.

Move *H. flammuloides* to synonymy of *H. subtortum* (q.v.) and *H. mesophaeum* var. *crassipes* from synonymy of *H. subtortum* (= *H. sordidum*) to synonymy of *H. mesophaeum*. Move *H. bruchetii* and *H. subcollariatum* from 'excluded' list to synonymy.

nanum Velen., *Novitates Mycologicae*: 117 (1939)

E: ! **S:** !

H: Seems to favour associating with conifers in base-poor soils. New record. Verified collections from East Kent (Challoch Wood), Easternness (Glenmore) and Mid Perthshire (Rannoch).

nauseosum Sacc.

Hebeloma gigaspermum Gröger & Zschiesch.

E: ! **S:** ? **W:** ! **NI:** ?

H: Occurs with a range of trees and shrubs, usually *Salix*, in various habitats which may be calcareous, nutrient rich or wet, but it is not known from dunes, coniferous or arctic/alpine habitats.

Amend author citation [replacement name for the illegitimate *Agaricus nauseosus* Cooke (1887)], move from 'excluded' list and include *H. gigaspermum* as a synonym. Add the above details and replace **Notes** with: "Cooke's illustration of specimens from West Gloucestershire (Park End) has been designated as lectotype supported by a sequenced Italian epitype [Beker *et al.*, *FungEur*14: 519 (2016)]. A verified Welsh collection from Caernarfonshire (Cors Geirch)."

nigellum Bruchet, *Bull. mens. Soc. linn. Lyon* 39 (6 Suppl.): 126 (1970)

Hebeloma atrobrunneum Vesterh.

Hebeloma kuehneri Bruchet

E: ! **S:** !

H: Associated with *Salix*, in arctic/alpine vegetation or a variety of other damp habitats.

Previously included as *H. atrobrunneum* which is now reduced to synonymy. Move *H. kuehneri* from 'excluded' list to synonymy based on type studies [Beker *et al.*, *FungEur*14:

604 (2016)]. Verified collections from Caithness (Loch Calder) and South-west Yorkshire (Potteric Carr).

odoratissimum (Britzelm.) Sacc., *Syll. fung.* 11: 55 (1895)

Hebeloma hetieri Boud.

E: ! **S:** ?

H: Occurs with a range of trees and shrubs in various habitats which may be calcareous, nutrient rich or wet, but it is not known from dunes or arctic/alpine habitats.

Previously included as *H. hetieri* which is now reduced to synonymy. Amend the above details and replace **Notes** with: "Verified English collections from Bedfordshire (Shefford) and South-west Yorkshire (Potteric Carr)."

populinum Romagn.

E: !

H: (Based on three worldwide collections) Occurs with *Salicaceae* in wet habitats.

Move from 'excluded' list. Add the above details and replace **Notes** with: "One verified English collection (2010) is known from Oxfordshire (Shiplake College). Likely to be widespread in Europe although expected to be rare or historically overlooked. Beker *et al.*, *FungEur*14: 321 (2016) report that 33 collections on their database originally determined as *H. populinum* were reassigned to 18 other taxa following their analysis."

psammophilum Bon

Move to 'excluded' list.

pseudofragilipes Beker, Vesterh. & U. Eberh., in Beker, Eberhardt, Vesterholt & Schütz, *Fungal Biology* 120(1): 88 (2015) [2016]

E: ! **S:** !

H: Occurs with a wide range of trees and shrubs in various habitats.

New record. The holotype is an English collection (2004) from Derbyshire (Chatsworth) preserved in BR with an isotype in C. Other verified collections are from widespread localities in England and Scotland. Likely to have been historically confused with *H. fragilipes* [Beker *et al.*, *FungEur*14: 303 (2016)].

pumilum J.E. Lange

E: !

H: English collection associated with *Quercus* sp. in old oak woodland.

Remove from synonymy of *H. birrus* and recognise as separate species. Add the above details and following **Notes**: "An English collection in K (1998) from South Hampshire (Wood Crates) has been redetermined as this (Beker *et al.* [FM 18(4): 119–132 (2017)]."

rostratum Beker, Vesterh. & U. Eberh., in Beker, Eberhardt, Vesterholt & Schütz, *Fungal Biology* 120(1): 96 (2015) [2016]

O: Isle of Man: !

H: Occurs with *Salicaceae*.

New record. Verified from the Isle of Man [Beker *et al.*, FM 18(4): 119–132 (2017)].

sacchariolens Quéf.

E: ! **S:** ? **W:** ? **NI:** ? **ROI:** ? **O:** Channel Islands: !

H: Occurs with broadleaved trees, usually in parks, gardens and on pathsides, but is not known in arctic/alpine habitats.

Amend the above details and replace **Notes** with: "Quéflet's illustration has been designated as lectotype supported by a sequenced English epitype from Surrey (Virginia Water) [Beker *et al.*, *FungEur*14: 529 (2016)]. Verified collections from Jersey (Jersey Zoo) and West Sussex (Houghton Forest)."

salicicola Beker, Vesterh. & U. Eberh., in Eberhardt, Beker & Vesterholt, *Persoonia* 35: 143 (2015)

S: ! **W:** !

H: Occurs with *Salicaceae*, often with *Salix repens* in calcareous dunes and dune slacks, but can also be found in arctic/alpine habitats.

New record. A Welsh collection (2001) verified from Anglesey (Newborough Warren).

sinapizans (Paulet) Gillet

E: ! **S:** ? **W:** ? **NI:** ? **ROI:** ?

H: Its northern European sites are usually on base-rich soil, usually with *Fagus* or *Quercus*, and it is likely to favour warm localities. It has also been found with *Helianthemum* on chalk downland.

Amend the above details and replace **Notes** with: "Verified English collections from Buckinghamshire (Coombe Hill), Derbyshire (Cressbrookdale and Deepdale), West Lancashire (Gait Barrows) and Westmorland (Roudsea)."

sordidum Maire

Move to synonymy of *H. subtortum* (q.v.).

subtortum P. Karst. *Bidr. Känn. Finl. Nat. Folk* 48: 466 (1889)

Hebeloma sordidum Maire

Hebeloma flammuloides Romagn.

E: !

H: Recorded with a wide range of mycorrhizal trees and shrubs, but not *Salix*, and apparently favouring southern Europe.

Move *H. flammuloides* from synonymy of *H. mesophaeum* and move *H. mesophaeum* var. *crassipes* to synonymy of *H. mesophaeum* based on morphological and molecular studies [Beker *et al.*, *FungEur*14: 597, 614 (2016)].

Replace **Notes** with: "Previously included as *H. sordidum* which is now reduced to synonymy. Verified single collection from Nottinghamshire (Clumber Park)".

theobrominum Quadr.

E: ! **S:** ? **W:** !? **NI:** ?

H: Occurs with a wide range of trees in woodland, perhaps favouring calcareous soils, but also known in grassland sites with *Helianthemum*.

Amend the above details and replace **Notes** with: "Verified English collections from Derbyshire (Coombdale), East Sussex (St Dunstan's Farm) and Westmorland (Roudsea). Most historical collections are determined as *H. truncatum*."

vaccinum Romagn.

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

H: Occurs with *Salicaceae* and in various habitats, including woodland and arctic/alpine, but very often found in dune slacks.

Amend the above details and replace **Notes** with: "Verified collections from Anglesey (Newborough dunes), Caithness (Dunnet Links and Ushat Head) and South Lancashire (Ainsdale Dunes)".

velutipes Bruchet

Hebeloma tenuifolium Romagn., *Docums Mycol.* 15(no. 59): 53 (1985)

E: ! **W:** ! **S:** !

H: Occurs with a wide range of trees and shrubs, including *Helianthemum*, in various habitats, including sand dunes and arctic/alpine.

Remove from synonymy of *H. leucosarx* and recognise as separate species. Move *H. tenuifolium* (= *H. angustifolium* Romagn. nom. illeg.) from 'excluded' list to synonymy. Add the above details and following **Notes**: "Verified collections from widespread localities in England, Scotland and Wales [Beker *et al.*, *FungEur*14: 391 (2016)]. One of the commonest British *Hebeloma* species."

vesterholtii Beker & U. Eberh., in Eberhardt & Beker, *Mycol. Progr.* 9(2): 218 (2010)

E: !

H: Occurs with broadleaved trees, usually with *Quercus*, and usually in calcareous soils.

New record. This species was segregated from *H. theobrominum* and has two English collections (2008 and 2004) respectively from Derbyshire (Calke Abbey) and East Sussex (St Dunstan's Farm) as paratypes.

Hirticlavula elegans J.H. Petersen & Læssøe, in Petersen *et al.*, *Karstenia* 54: 2 (2014)

E: !

H: English collection on bark of *Fagus*.

New record. A collection (2016) at K from South Hampshire (Millyford Bridge). For further details see Petersen & Læssøe *FM16*(3): 93–94 (2015) and *FM18*(1): 35 (2017).

HODOPHILUS R. Heim, in Herink, *Sborník severočeského Muzea, Přírodní Vědy.* 1: 61 (1958)

Type: *Hodophilus foetens* (W. Phillips) Birkebak & Adamčík, in Birkebak, Adamčík, Looney & Matheny, *Mycologia* 108(5): 866 (2016)

Recent molecular and morphological studies [Birkebak *et al.*, *Mycologia* 108(5): 860–868 (2016), Adamčík *et al.*, *Mycological Progress* 16(1): 47–62 (2017) and Adamčík *et al.*, *Mycological Progress* 16(8): 811–821 (2017)] have justified the recognition of *Hodophilus*, thus necessitating some moves from *Camarophyllopsis*, and the recognition of some new species (see below).

atropunctus (Pers.) Birkebak & Adamčík, in Birkebak, Adamčík, Looney & Matheny, *Mycologia* 108(5): 867 (2016)
Name changed from *Camarophyllopsis atropuncta*. Neotypified with Welsh (Pembrokeshire) material [Adamčík *et al.*, *Mycological Progress* 16(8): 811–821 (2017)].

foetens (W. Phillips) Birkebak & Adamčík, in Birkebak, Adamčík, Looney & Matheny, *Mycologia* 108(5): 866 (2016)
Name changed from *Camarophyllopsis foetens*. Epitypified with Welsh (Breconshire) material [Adamčík *et al.*, *Mycological Progress* 16(1): 47–62 (2017)].

hymenocephalus

Name changed from *Camarophyllopsis hymenocephala*.

micaceus

Name changed from *Camarophyllopsis micacea*.

subfoetens Jančovičová, Adamčík & Looney, in Adamčík, Jančovičová, Looney, Adamčíková, Birkebak, Moreau, Vizzini & Matheny, *Mycological Progress* 16(1): 57 (2017)

W: !

H: Welsh collection in unimproved peaty upland pasture. New record. The paratypes include a Welsh collection (2005) in K from Monmouthshire (Bloreng).

tenuicystidiatus Jančovičová, Adamčík & Looney, in Adamčík, Jančovičová, Looney, Adamčíková, Birkebak, Moreau, Vizzini & Matheny, *Mycological Progress* 16(1): 54 (2017)

E: ! **W:** !

H: Occurs on soil in scrub, near woodland edges or in grassland.

New record. The paratypes include English collections (2010 & 2013) from Oxfordshire (Hinksey Heights Fen) and Northamptonshire (Ring Haw), the latter in K, and a Welsh collection (2010) from Pembrokeshire (Hundleton).

variabilipes Jančovičová, Adamčík & Looney, in Adamčík, Jančovičová, Looney, Adamčíková, Griffith, Læssøe, Moreau, Vizzini & Matheny, *Mycological Progress* 16(8): 818 (2017)

E: ! **W:** !

H: Occurs on soil in scrub, near woodland edges or in grassland.

New record. The paratypes include an English collection (2012) from South-west Yorkshire (Mirfield) in K and Welsh collections 2010–2016 from Monmouthshire (Bloreng) and Pembrokeshire (Hundleton & Orielson).

Hohenbuehelia bonii A.M. Ainsw., in Ainsworth, Suz & Dentinger, *Field Mycology* 17(3): 81 (2016)

Acanthocystis petalooides var. *macrospora* Bon, *Bull. trimest. Soc. myc. Fr.* 86(1): 163 (1970)

Hohenbuehelia petalooides var. *macrospora* (Bon) Courtec., *Doc. Mycol.* 15(nos 57–58): 30 (1985) [1984]

Mis.: *Hohenbuehelia culmicola* sensu auct. Brit. p.p.

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

H: On dead parts of coastal grass culms, usually of *Ammophila arenaria*, in sand dunes, often fruiting around the stem bases. Rarely reported but apparently widespread. The historical concept of *H. culmicola* sensu auct. Brit. included a distinct taxon now recognised as *H. bonii*. Basidiomes are larger than those of true *H. culmicola* (q.v.) and the two species can occur at the same site. Known from Britain, France and the Netherlands.

Hohenbuehelia culmicola Bon, *Doc. Mycol.* 10(37–38): 89 (1980) [1979]

Mis.: *Pleurotus longipes* sensu P.D. Orton (1959)

Mis.: *Pleurotus petaloides* f. *carbonarius* sensu auct. Brit.

E: ! S: ! W: ! ROI: !

H: On dead or dying stems of *Ammophila arenaria* (more rarely recorded on *Leymus arenarius*) in coastal dunes, often fruiting in the sand, at or around the stem bases.

D: BFF6: 42–43, FAN3: 162 **I:** C&D: 153, SV33: 45

Rarely reported but apparently widespread. Basidiomes are small, often hidden in sand and easily overlooked. Synonymy amended following the morphological and molecular studies of Ainsworth *et al.* [FM 17(3): 78–86 (2016)] which demonstrated that the historical concept of *H. culmicola* sensu auct. Brit. included a distinct taxon now recognised as *H. bonii* (q.v.).

Hydnum ovoideisporum Olariaga, Grebenc, Salcedo & M.P. Martin 2012

W: !

H: Welsh collection fruiting in soil amongst *Helianthemum canum*.

A collection (2017) at K from Caernarvonshire (Great Orme) determined as this by matching its barcode sequence with that of the type (K. Liimatainen unpubl.).

Hymenopellis radicata var. **bispora** (Redhead, Ginns & Shoemaker) R.H. Petersen, in Petersen & Hughes, *Nova Hedwigia*, Beih. 137: 209 (2010)

Add to synonymy of species entry. A 1962 English collection (as *Xerula radicata* var. *bispora*) in DAOM from Surrey (likely to be Albury Park) reported in Petersen & Hughes [*Mycotaxon* 30: 398 (1987)], two 1991 Scottish collections from East Perthshire (Blair Atholl & Killiecrankie) reported in Petersen & Hughes [*Nova Hedwigia*, Beih. 137: 426 (2010)] and a more recent (2016) Welsh collection in K from Carmarthenshire (Upper Lliedi Reservoir). A sequence was generated from the latter (K. Liimatainen unpubl.) and found to be identical to that obtained from Swedish material of *H. radicata* var. *bispora* s. Petersen & Hughes.

Hyphoderma multicystidium (Hjortstam & Ryvarde) Hjortstam & Tellería, in Tellería, *Bibliotheca Mycol.* 135: 56 (1990)

E: !

H: English collection on fallen decayed wood.

New record. A collection (2016) at K from South Hampshire (Round Hill).

Lycoperdon pyriforme Schaeff.

Name changed to *Apioperdon pyriforme* (q.v.).

Mycena cecidiophila A.P. Berg, Berg-Block, Noordel. & Uljé Move to synonymy of *M. rhenana* based on studies reported in Henrici *et al.* [FM17(4): 111–113 (2016)].

Mycena rhenana Maas Geest. & Winterhoff
Mycena cecidiophila Huijsman

E: ! W: !

H: Occurs on various woody fruits but most frequently seen on fallen fruits (cones) of *Alnus* and on fallen acorns bearing knopper galls.

Move *M. cecidiophila* to synonymy. Amend the above details and replace **Notes** with: “*M. cecidiophila* is placed in synonymy based on studies reported in Henrici *et al.* [FM17(4): 111–113 (2016)]”.

Mycena riparia Maas Geest., *Proc. K. Ned. Akad. Wet., Ser. C, Biol. Med. Sci.* 89(2): 175 (1986)

E: !

H: English collections on decaying sedge (*Carex*) stem.

New record. Two collections (2016) at K from North Hampshire (Leckford Estate) reported in Henrici [FM18(1): 30 (2017)].

Mycena scirpicola M. Villarreal, Heykoop, Esteve-Rav. & Maas Geest., *Persoonia* 16(4): 531 (1998)

E: !

H: English collection on heathland turf.

New record. A collection (2016) at K from South Hampshire (Little Honey Hill) reported in Henrici [FM18(1): 30 (2017)].

Mycena silvae-pristinae M.T. Veerkamp & Kuyper, *Z. Mykol.* 63(2): 164 (1997)

E: !

H: English collections on dead wood of *Quercus*.

New record. Three collections (2016) at K from South Hampshire (Gritnam Wood and Little Honey Hill) reported in Henrici [FM18(1): 30 (2017)].

Mycena tenuispinosa J. Favre, *Bulletin de la Societe Neuchateloise des Sciences Naturelles* 80: 96 (1957)

E: !

H: English collection on fallen leaf of *Salix*.

New record. A collection (2016) at K from North Hampshire (Leckford Estate) reported with photograph in Henrici [FM18(1): 30 (2017)].

ODORIA V. Papp & Dima, *Mycol. Progress* 17: 323 (2018)

Type: *Odoria alborubescens* (Bourdot & Galzin) V. Papp & Dima

alborubescens (Bourdot & Galzin) V. Papp & Dima, *Mycol. Progress* 17: 323 (2018)

Name changed from *Aurantiporus alborubescens* following molecular studies showing that this species is not closely related to the type of *Aurantiporus* (*A. pilotae*, = *A. croceus*) [Papp & Dima, *Mycol. Progress* 17: 319–332. (2018)].

Oxyporus latemarginatus (Durieu & Mont.) Donk
Name changed to *Emmia latemarginata* (q.v.).

Phlebia caspica Hallenb., *Mycotaxon* 11(2): 460 (1980)

E: !

H: English collection on decayed hardwood in ditch.

New record. A collection (2017) at K from Surrey (Ham Lands).

Pisolithus arhizus (Scop.) Rauschert

Move *Lycoperdon capsuliferum* from synonymy to that of *P. capsulifer* (q.v.). Note that the status of *P. arhizus* and *P. tinctorius* (synonymised in current CBIB) in Britain and Ireland is currently uncertain pending molecular investigation.

Pisolithus capsulifer (Sowerby) Watling, Phosri & M.P. Martín, *Mycotaxon* 120: 202 (2012)

Lycoperdon capsuliferum Sowerby, *Col. fig. Engl. Fung. Mushr.* (London) Suppl: tab. 425 a/b (1814)

E: !

H: English collections from pine plantations (where known).

This species is now recognised as distinct from *P. arhizus* and *P. tinctorius* based on molecular data [Phosri *et al.*, *Mycotaxon* 120: 195–208 (2012)]. These authors selected Sowerby's plate showing material from Middlesex (Highgate Hill) as lectotype with a supporting epitype comprising a redetermined 1993 collection in E from Berkshire (nr. Sandhurst). Other specimens in E were similarly redetermined based on molecular data, from Berkshire (Caesar's Camp), or morphological examination, from South Hampshire (Ringwood). Move *Lycoperdon capsuliferum* from synonymy of *P. arhizus* and amend publication volume and year.

Pluteus roseipes Höhn., *Sber. Akad. Wiss. Wien, Math.-naturw. Kl., Abt. 1* 111: 1010 (1902)

E: !

H: English collection on soil in grass near *Chamaecyparis lawsoniana*.

New record. A collection (2017) at K from West Gloucestershire (Westonbirt Arboretum).

PSEUDOCRATERELLUS Pers.

Move to synonymy of *Craterellus* following Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis. (2009)].

undulatus (Pers.) Rauschert

Name changed to *Craterellus sinuosus* (q.v.).

Ramariopsis luteonana (Schild) Olariaga, in Olariaga & Salcedo *Mycotaxon* 121: 39 (2013) [2012]

Name changed from *Clavulinopsis luteonana*. Fide Olariaga [*The order Cantharellales in the Iberian Peninsula and the Balearic Islands* PhD Thesis (2009)], *Clavulinopsis luteonana* var. *tenuipes* is not valid because the holotype comprises "two gatherings".

Ramariopsis luteo-ochracea (Cavara) R.H. Petersen, *Mycologia* 58(2): 205 (1966)

Name changed from *Clavulinopsis luteo-ochracea*.

Ramariopsis robusta Matouš & Holec, in Matouš, Holec & Koukol, *Czech Mycol.* 69(1): 54 (2017)

W: !

H: Welsh collection on soil.

New record. A recently described species resembling a robust *R. kunzei* based on a morphological and molecular study which included GenBank sequence EF535269 derived from a Welsh collection (previously identified as *R. tenuiramosa*).

Russula grisescens (Bon & Gaugué) Marti, *Docums Mycol.* 14(no. 53): 57 (1984)

E: !

H: English collection on mossy (*Polytrichum*) soil near *Betula*.

New record. A collection (2016) at K from Surrey (Lower Puttenham Common) confirmed by G.G. Kibby. Further details in Overall [FM18(2): 68–69 (2017)].

Russula roseicolor J. Blum, *Bull. trimest. Soc. mycol. Fr.* 68(2): 246 (1952)

E: !

H: English collection on soil near *Quercus*.

New record. A collection (2017) at K from East Kent (Hamstreet Woods).

Russula sublevispora (Romagn.) Kühner & Romagn., in Romagnesi, *Russules d'Europe Afr. Nord*, Essai sur la Valeur Taxinomique et Spécifique des Caractères des Spores et des Revêtements: 299 (1967)

E: !

H: English collection on soil near *Quercus*.

New record. A collection (2016) at K from Oxfordshire (Checkendon) confirmed by F. Hampe. Further details in Tortelli [FM19(2): 44–46 (2018)].

Russula tinctipes J. Blum ex Bon, *Cryptog. Mycol.* 7(4): 308 (1986)

E: !

H: English collection on soil near *Quercus*.

New record. A collection (2017) at K from East Kent (Dering Wood) confirmed by W. Jurkeit. Further details in Tortelli & Pitt [FM19(1): 29–30 (2018)].

Setchelliogaster rheophyllus (Bertault & Malençon) G. Moreno & Kreisel

Name changed to *Descolea tenuipes* (q.v.) based on molecular studies [Kuhar *et al.*, *Fungal Biology* 121: 876–889 (2017)]. *Setchelliogaster* becomes a synonym of *Descolea* (q.v.).

Sistotrema porulosum Hallenb., *Mycotaxon* 21: 407 (1984)

E: !

H: English collection on decaying hardwood.

New record. A collection (2016) at K from South Hampshire (Spearywell Wood).

Subulicystidium perlongisporum Boidin & Gilles, *Bull. trimest. Soc. mycol. Fr.* 104(3): 197 (1988)

W: !

H: Welsh collection on underside of fallen leaves of *Olearia* sp. New record. A collection (2015) at K from Anglesey (Plâs Cadnant).

Tomentella galzinii Bourdot, in Bourdot & Galzin, *Bull. trimest. Soc. mycol. Fr.* 40(2): 143 (1924)

W: !

H: Welsh collection on dead wood.

A collection (2017) at K from Anglesey (Coed Mor).

Trametes trogii Berk.

E: !

H: English collection on dead wood of *Populus*.

Move from 'excluded' list. A collection (2017) at K from Middlesex (Ashford) determined as this and confirmed by sequencing (K. Liimatainen unpubl.). Further details in Overall [FM19(2): 50–51 (2018)].

Trametopsis cervina (Schwein.) Tomšovský, *Czech Mycol.* 60(1): 7 (2008)

Antrodia pseudosinuosa A. Henrici & Ryvarden

E: !

H: On decayed wood of broadleaved trees including *Aesculus*, *Betula*, *Fagus* (most records) and *Ulmus*.

Include *Antrodia pseudosinuosa* in synonymy based on molecular analysis of a holotype-derived sequence [Henrici *et al.*, FM19(4): 116–118 (2018)]. A few records known from southern England. All records made before 2018 were originally assigned to *A. pseudosinuosa*.

TRECHINOTHUS E.C. Martini & Trichiès, *Mycotaxon* 90(2): 262 (2004)

Type: *Trechinothus smardae* (Pilát) E.C. Martini & Trichiès

smardae (Pilát) E.C. Martini & Trichiès, *Mycotaxon* 90(2): 262 (2004)

E: !

H: English collection on fallen wood of *Fraxinus*.

New record. A collection (2017) at K from South Hampshire (Crab Wood). Further details in Lucas & Rogerson [FM19(2): 47–49 (2018)].

Tremella candelariellae Diederich & Etayo, in Diederich, *Bibliothca Lichenol.* 61: 52 (1996)

E: !

H: On *Candelariella vitellina*.

A collection (2010) at E from East Norfolk.

Tremella parmeliarum Diederich, *Bibliothca Lichenol.* 61: 125 (1996)

ROI: !

H: On lichen thallus.

A collection (2014) at E from West Cork (Glengarriff).

Tremella rhizocarpicola Diederich, Millanes & Wedin, in Millanes, Diederich, Westberg, Knutsson & Wedin, *MycKeys* 8: 32 (2014)

S: !

H: Occurs in the hymenium of *Rhizocarpon lavatum*, usually with little external sign, but sometimes causing blackish swellings on the surface of the apothecia. Scottish collection on north-facing crags.

New record. A collection (2016) in E from Main Argyll (Meall Dearg) confirmed by P. Diederich.

Tricholoma bufonium (Pers.) Gillet

Move to synonymy of *T. sulphureum* following Comandini *et al.* [*Mycol. Res.* 108 (10): 1162–1171 (2004)] and Heilmann-Clausen *et al.* [*Persoonia* 38: 38–57 (2017)].

Tulostoma fimbriatum Fr.

E: !

H: English collection in coastal dunes.

Move from 'excluded' list and replace **Notes** with: This species was excluded in 2016 as the 2011 collection from

Cardiganshire (Ynyslas) documented in Hobart [FM13(3): 81–83 (2012)] was redetermined as *T. brumale* based on DNA barcode analysis (L.M. Suz unpubl.). Now there is a verified English collection (2017) at K from West Sussex (Climping Dunes West Beach) whose barcode sequence (K. Liimatainen unpubl.) matches that of the epitype sequenced in Jeppson *et al.* [*Myckeys* 21: 33–88 (2017)].

Tulostoma simulans Lloyd, *The Tylostomae*: 18 (1906)

S: !

H: English collection in short, mossy turf on a sand bar. An English collection (2003) at K from North Essex (Colne Point), previously identified as the closely related *T. brumale*, was redetermined as this based on a comparison of its ITS sequence (GenBank EU784434) in a Europe-wide, three-gene phylogenetic analysis [Jeppson *et al.*, *Myckeys* 21: 33–88 (2017)]. It is widely distributed in Europe and historical collections currently identified as *T. brumale* require further morphological and molecular analysis to reveal the true distribution of *T. simulans* in Britain and Ireland.

BASIDIOMYCOTA, USTILAGINOMYCOTINA

Anthracoidea heterospora (B. Lindeb.) Kukkonen

S: !

H: In the ovaries of *Carex recta*.

Move from 'excluded' list. Add the above details and replace

Notes with: "A Scottish collection at E from Easternness, (Beauly) as pointed out by Taylor & Smith FM18(1): 10, one of the few known British sites for the host."

Anthracoidea turfosa (Syd.) Kukkonen, *Suomal. elain-ja kasvit. Seur. van. kasvit. Julk.* 34(3): 24 (1963)

S: !

H: In the ovaries of *Carex dioica*.

Collections at E from South Aberdeenshire (Morrone) *vide* Taylor & Smith [FM18(1): 10 (2017)].

Anthracoidea vankyi Nannf., *Bot. Notiser* 130(4): 372 (1977)

S: !

H: In the ovaries of *Carex muricata* ssp. *pairaei*.

A collection at E from Midlothian (Edinburgh) *vide* Taylor & Smith [FM18(1): 10 (2017)].

ENTORRHIZOMYCOTA

Entorrhiza caricicola Ferd. & Winge, *Dansk bot. Ark.* 2(no. 1): 10 (1915)

W: !

H: Welsh collections in mires on roots of *Carex limosa*. New record. Collections (2017) from Cardiganshire (Banc Ty-llwyd, Cors Caron). Further details in Chater & Smith [FM19(2): 55–60 (2018)].

Entorrhiza raunkiaeriana Ferd. & Winge, *Dansk bot. Ark.* 2(no. 1): 8 (1915)

W: !

H: Welsh collections in mires and mud-bottomed pools on roots of *Eleogiton* (= *Scirpus*) *fluitans*. The root galls were noted floating to the surface as the club-rush roots were disturbed. New record. Collections (2017) from Breconshire (Llanddewi'r Cwm), Cardiganshire (Aberleri Fields, Llantrisant Reservoir), Carmarthenshire (Mynydd Llanybydder), Merionethshire (Llynau Cregennen), Montgomeryshire (Llyn Ebyr) and Radnorshire (Llowes, Monk's Pool, Rhosgoch Common). Further details in Chater & Smith [FM19(2): 55–60 (2018)].

ADDITIONS & AMENDMENTS TO LIST OF EXCLUDED TAXA

BASIDIOMYCOTA, AGARICOMYCOTINA

albocyaneus Fr., Cortinarius

Move to 'included' list.

aleuriosmus Maire, Cortinarius

Move from 'included' list where *C. caroviolaceus* (which is British) was incorrectly listed as a synonym [Kibby & Tortelli, FM18(1): 18 (2017)].

alpinum (J. Favre) Bruchet, Hebeloma

Move from 'included' list following redetermination of the British voucher collection from West Kent (Bedgebury Pinetum) as *H. geminatum* which was supporting its CBIB inclusion, [Beker *et al.*, FM 18(4): 119–132 (2017)]. These authors regard *H. alpinum* as a strictly arctic/alpine species normally growing with *Bistorta*, *Dryas* and *Salix* whose range might possibly extend to the mountains of Scotland. Amend second sentence of **Notes**: "Reported from Scotland but material in E is annotated as 'cf. *H. alpinum*.'"

ammophilum Bohus, Hebeloma

Move from 'included' list following redetermination of two collections in K from South Lancashire (Ainsdale Dunes) and one from North Northumberland (Holy Island) as *H. vaccinum* which were supporting its CBIB inclusion [Beker *et al.*, FM 18(4): 119–132 (2017)]. These authors regard *H. ammophilum* as an associate of *Populus* or *Salix* growing in sandy soil.

angustifolium Romagn., Hebeloma

This name is illegitimate and replaced by *H. tenuifolium*. Move *H. tenuifolium* to 'included' list as a synonym of *H. velutipes* based on morphological and ITS sequence analyses [Beker *et al.*, FungEur14: 571 (2016)]. Four collections (1987 and 1988) from West Lancashire (Gait Barrows) originally identified as *H. angustifolium* Romagn. have been reassigned to *H. velutipes*.

anthracophilum Maire, Hebeloma

Move to 'included' list.

arenosum Burds., Macfall & M.A. Albers, Hebeloma

Move from 'included' list following redetermination of a collection in E from Orkney (Birsay) as *H. helodes* which was supporting its CBIB inclusion [Beker *et al.*, FM 18(4): 119–132 (2017)]. These authors regard *H. arenosum* as a North American species.

bruchetii Bon

Move to 'included' list as a synonym of *H. mesophaeum* based on holotype studies [Beker *et al.*, FungEur14: 635 (2016)].

calyptosporum Bruchet, Hebeloma

Move to 'included' list as a synonym of *H. birrus* (q.v.).

cavipes Huijsman, Hebeloma

Remove *H. lutense* from synonymy and move both to 'included' list as separate species.

circinans (Quél.) Sacc., Hebeloma

Move from 'included' list following redetermination of voucher collections in K from East Kent (Queensdown Warren) as *H. laterinum*, from South Wiltshire (Swallowcliffe) as *H. hiemale*

and from West Norfolk (Holkham Dunes) as *H. crustuliniforme* s.str. which were supporting its CBIB inclusion [Beker *et al.*, FM 18(4): 119–132 (2017)]. These authors regard *H. circinans* as “a subalpine/subarctic species usually recorded in Scandinavia and France on calcareous ground”.

claviceps (Fr.) Quél., Hebeloma

Amend the recombining author's name as above.

collariatum Bruchet, Hebeloma

Move to 'included' list as a synonym of *H. dunense* (q.v.).

Delete **Notes** and **D+I**.

colossus Huijsman, Hebeloma

Move to 'included' list as a synonym of *H. bulbiferum* (q.v.).

fastibile (Pers.) P. Kumm., Hebeloma

Move to 'included' list as a synonym of *H. laterinum* (q.v.).

fimbriatum Fr., Tulostoma

Move to 'included' list.

firmum (Pers.) Gillet, Hebeloma, *Hymén.*: 523 (1876)

Amend the recombining author's name and citation as above.

Beker *et al.*, FungEur14: 596 (2016) “think it unlikely to be a *Hebeloma*”.

flammuloides Romagn., Hebeloma

Move to 'included' list as a synonym of *H. subtortum* (q.v.).

fragilipes Romagn., Hebeloma

Move from 'included' list following Beker *et al.*, FungEur14: 282 (2016). Formerly *H. hiemale* was excluded from the list as a *nomen dubium* with the note that British records were, at least in part, *H. fragilipes*. The current view is that there are known verified collections of *H. hiemale* [as epitypified in Beker *et al.*, FungEur14: 326 (2016)], but currently none of *H. fragilipes*, hence its exclusion.

gracile Berk., Ileodictyon, *London J. Bot.* 4: 69 (1845)

Erroneously reported as “recently added to the British list with a collection from Suffolk [sic]” in Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)] referring to a collection in K from Norfolk (Hethersett). However the derived barcode seq matched those of *I. cibarium* and so the collection was redetermined as this (K. Liimatainen unpubl.).

hiemale Bres., Hebeloma

Move to 'included' list.

imbutus Fr., Cortinarius

Move from 'included' list as the only known voucher collection in K (from Merionethshire) has now been sequenced and redetermined as *C. tortuosus* (K. Liimatainen unpubl.).

incarnatum A.H. Sm., Hebeloma

Move from 'included' list following redetermination of two collections from Easternness (Curr Wood) and Westmorland (Roudsea) as *H. leucosarx* which were supporting its CBIB inclusion [Beker *et al.*, FM 18(4): 119–132 (2017)]. These authors regard *H. incarnatum* as a species “normally collected in *Sphagnum* sites with conifers, primarily in subalpine or subarctic areas”.

ingratum Bruchet, Hebeloma

Move to 'included' list.

ischnostylum (Cooke) Sacc., Hebeloma

Move to 'included' list.

kuehneri Bruchet, Hebeloma

Move to 'included' list as a synonym of *H. nigellum* (q.v.).

lacteus Quél., Gyroporus

Amend the author name (because *Boletus lacteus* Lév., previously cited as basionym, is a nom. illegit.) and move from synonymy of *G. cyanescens* to 'excluded' list. This has been confirmed as a distinct species by molecular analysis in Vizzini *et al.* [*Phytotaxa* 226(1): 27–38 (2015)]. It was published as a British species in Kibby [*Field Mycology* 18(2):

62–65 (2017)] and Kibby [*Mushrooms and toadstools of Britain & Europe 1* (2017)] based on a 2016 collection at K from West Suffolk (Thetford Forest). However, the barcode sequence derived from this specimen is a closer match to that derived from the epitype of *G. cyanescens* (L.M. Suz unpubl.) and it has now been redetermined. *Gyroporus lacteus* is therefore unsubstantiated with voucher material and moved to the 'excluded' list.

madidum Gillet, Entoloma

Move to 'included' list.

marginatum (J. Favre) Bruchet, Hebeloma

Move from 'included' list as the supporting Scottish voucher collection in E has been redetermined as *H. mesophaeum* [Beker *et al.*, FM 18(4): 119–132 (2017)]. These authors regard *H. marginatum* as an arctic/alpine species usually growing in association with *Salix* shrubs whose range might possibly extend to the mountains of Scotland.

menieri (Boud.) Singer, Gloiocephala

Move to 'included' list.

morganii (Peck) H.E. Bigelow, Hygrophoropsis

Move to synonymy of *Aphroditeola olida* (q.v.).

nauseosum Sacc., Hebeloma

Amend author citation [replacement name for the illegitimate *Agaricus nauseosus* Cooke (1887)] and move to 'included' list with *H. gigaspermum* reduced to a synonym.

oculatum Bruchet, Hebeloma

Move to 'included' list as a synonym of *H. hiemale* (q.v.).

olida (Quél.) Redhead & Manfr. Binder, *Aphroditeola*, *Index Fungorum* 15: 1 (2013)

Cantharellus olidus Quél., in Cooke & Quélet, *Clavis syn. Hymen. Europ.* (London): 148 (1878)

Move *Hygrophoropsis olida* from synonymy of *H. morganii* to head this excluded entry with name change to *Aphroditeola olida*. *H. morganii* becomes a synonym.

populinum Romagn., Hebeloma

Move to 'included' list.

praestigiosus (Fr.) M.M. Moser, Cortinarius

Move to 'included' list.

psammophilum Bon, Hebeloma

Move from 'included' list following redetermination of British collections, including the voucher from Westmorland (Sandscale Haws), as *H. dunense* which were supporting its CBIB inclusion, [Beker *et al.*, FM 18(4): 119–132 (2017)]. These authors regard *H. psammophilum* as a shifting-dune-associated species growing in association with *Salix* and *Pinus*. It is present on the northern coast of France.

radicatum (Cooke) Maire, Hebeloma

Move to 'included' list as a synonym of *H. birrus* (q.v.).

renidens Fr., Cortinarius

Move from 'included' list as the only known voucher collection in K (from Devon) has now been sequenced and redetermined as *C. luridus* (q.v.) (K. Liimatainen unpubl.).

roseipes (Velen.) Reumaux, Cortinarius

Move from 'included' list following sequencing of almost all British holdings of this (from *Helianthemum* habitat) and their subsequent redetermination as *C. subcoronatus* (q.v.). Further details in Liimatainen & Ainsworth [FM19(4): 119–135 (2018)].

rubellum (Scop.) Gillet, Entoloma

Move from 'included' list. This species with pink basidiomata has been downgraded to a variety of *E. bloxamii* based on molecular studies [Morgado *et al.*, *Persoonia* 31: 159–178 (2013)]. However, these authors also sequenced the single specimen in K (from Pembrokeshire) which supported its inclusion on the British list and revealed that this voucher

should be assigned to *E. ochreoprunuloides* and not *E. bloxamii*.

sassii (M. Lange & A.H. Sm.) Redhead, Vilgalys & Moncalvo, Coprinellus

Move from 'included' list following sequencing and redetermination of the only voucher collection in K (from Oxfordshire, Blenheim Park) as *C. amphithallus* s. Nagy which was supporting its CBIB inclusion (K. Liimatainen unpubl.).

splendidissima Kotl. & Pouzar, Haasiella

Move from 'excluded' list to the synonymy of *H. venustissima* following molecular analysis in Vizzini *et al.* [*Mycologia* 104(3) 777–784 (2012)].

subcollariatum (Berk. & Broome) Sacc., Hebeloma

Move to 'included' list as a synonym of *H. mesophaeum* based on holotype studies [Beker *et al.*, *FungEur*14: 647 (2016)].

subsaponaceum P. Karst., Hebeloma

Move to synonymy of *H. syrjense*.

syrjense P. Karst., *Bidr. Känn. Finl. Nat. Folk* 32: 475 (1879)
Hebeloma subsaponaceum P. Karst.

Move *H. subsaponaceum* to synonymy and amend **Notes** to: "Not authentically British. An unverified English record (2004) is mentioned in Beker *et al.*, *FM* 18(4): 119–132 (2017), but this refers to a collection from deciduous woodland in East Sussex (St Dunstan's Farm) which is preserved in K as *H.* cf. *syrjense* and which requires molecular investigation. These authors regard *H. syrjense* as "a subalpine/subarctic species often in mossy soil with conifers; most of our records are from Scandinavia and France." Two collections named *H. subsaponaceum* in K from Scotland (Orkney) have been redetermined by Vesterholt as *H. birrus*."

trogii Berk., Trametes

Move to 'included' list.

BASIDIOMYCOTA, USTILAGINOMYCOTINA

heterospora (B. Lindb.) Kukkonen, Anthracoidea

Move to 'included' list.