

# FIRST UPDATE (Winter 2006)

Many minor additions and corrections have been made to the printed Checklist published in 2005 (amended references and citations, additional new country and county records, etc.) as well as a few more substantial changes. These latter changes are noted below and include taxa newly discovered in the British Isles, names inadvertently omitted in the published Checklist, name changes, and a few species which have moved from 'excluded' to 'included' or vice-versa.

The database will continue to be updated and major changes will be noted in these pages every six months or so.

## ADDITIONS & AMENDMENTS TO LIST OF INCLUDED TAXA

### BASIDIOMYCETES

**Agaricus bisporus** (J.E. Lange) Imbach  
*Agaricus campestris* var. *buchanani* Berk., *Gard. Chron.* Nov. 24: 1039 (1860).  
*Agaricus campestris* var. *elongatus* Berk., *Gard. Chron.* Dec. 1: 1061 (1860)

The two varieties listed above were described from hot beds or mushroom beds in Gloucestershire (Dyrham Park), but omitted from the published list. Considered synonyms of *A. bisporus* (as *A. campestris* var. *hortensis*) by Masee (1892).

**Agaricus pseudopratisensis** (Bohus) Wasser, *Ukr. Bot. Zh.* 33: 250 (1976)  
*Psalliota pseudopratisensis* Bohus, *Borbásia* 1: 114 (1939)

**E:** !

**H:** English collection in coastal grass.

**D:** FAN5: 56 **D+I:** FungEur1: 68

Omitted from published list. Material at K from Essex (Tallesbury Marshes) in 1992. The description in FAN5 is partly based on this collection.

**Agaricus rufotegulis** Nauta  
Name changed to *A. subrufescens* (q.v.).

**Agaricus subrufescens** Peck, *Rep. (Annual) New York State Mus. Nat. Hist.* 46: 25 (1894)  
An earlier name and hence a name change (*vide* Kerrigan, *Mycologia* 97: 12-24, 2005) for the species previously listed as *A. rufotegulis*.

**ALLOPSALLIOTA** Nauta & Bas, in Nauta, *Belg. J. Bot.* 131: 189 (1999) [1998]

#### Agaricales, Agaricaceae

Type: *Allopsalliota geesterani* (Bas & Heinem.) Nauta & Bas

**geesterani** (Bas & Heinem.) Nauta & Bas, in Nauta, *Belg. J. Bot.* 131: 189 (1999) [1998]  
*Agaricus geesterani* Bas & Heinem., *Persoonia* 13: 114 (1986)

**E:** !

**H:** Clustered and semi-hypogeous in soil.

**D:** FAN5: 62-63 **D+I:** FM6: 77-79

New record. Recent collections (2004) from Yorkshire (Potteric Carr) reported in FM6: 77-79.

**Amaurodon atrocyanus** (Wakef.) Kõljalg & K.H. Larss., *Syn. Fungorum* 9: 33 (1996)  
*Tomentella atrocyanea* Wakef., *Trans. Brit. Mycol. Soc.* 49: 357 (1966)

**E:** !

**H:** English collections on *Fagus* log.

New record. Recent material (2006) at K from Hertfordshire.

**Ceriporia herinkii** Vampola, in Vampola & Pouzar, *Czech Mycol.* 48: 316 (1996)

**E:** !

**H:** English collections on fallen wood, possibly *Fagus*, on chalk soil.

New record. Recent material (2005) at K from East & West Kent.

**CHLOROPHYLLUM** Masee, *Bull. Misc. Inform. Kew.* 136 (1898).

#### Agaricales, Agaricaceae

Type: *Chlorophyllum molybdites* (G. Mey.) Masee  
This genus has now been extended to cover several north European taxa, following molecular research by Vellinga *et al.* (*Mycologia* 95: 442-456, 2003). The following entries are name changes for taxa previously listed in the genus *Macrolepiota*.

**Chlorophyllum brunneum** (Farl. & Burt) Vellinga, *Mycotaxon* 83: 416 (2002)

*Lepiota brunnea* Farl. & Burt, *Icones farlowianae* 8: pl. 6 (1929)

*Lepiota bohémica* Wichanský [*nom. inval.*], *Casopsis ceskoslov. houb.* 38: 103 (1961)

*Macrolepiota rhacodes* var. *bohémica* (Wichanský) Bellù & Lanzoni [*nom. inval.*], *Beitr. Kennntn. Pilze Mitteleurop.* 3: 191 (1987)

Vellinga (*Mycotaxon* 85: 259-270, 2003; FM7(4): 136-140, 2006) has noted that the name *Lepiota bohémica* and subsequent combinations are invalid and that *Lepiota brunnea* is, in any case, the earliest valid name for the taxon.

**Chlorophyllum olivieri** (Barla) Vellinga, *Mycotaxon* 83: 416 (2002)

- Chlorophyllum rhacodes** (Vittad.) Vellinga, *Mycotaxon* 83: 416 (2002)
- Clavaria atrofusca** Velen., *Novitates Mycologicae*: 164 (1939)  
**E:** !  
**H:** In mossy grassland (churchyard).  
 New record. Recent material (2005) at K from Hertfordshire.
- Clavaria atroumbrina** Corner, *Monograph of Clavaria and Allied Genera*: 691 (1950)  
**W:** !  
**H:** Welsh collections in calcareous pasture and lawns.  
 New record. Recent material (2005) at K from Monmouthshire and (2006) Carmarthenshire.
- Clitocybe collina** (Velen.) Klán, *Česká Mykol.* 33: 36 (1979)  
*Cantharellus collinus* Velen., *České Houby* 1: 83 (1920)  
**E:** !  
**H:** English collection on soil in chalk downland with *Crataegus monogyna*.  
**I:** FM7: 32  
 New record. Recent material (2005) at K from Hampshire (see FM7: 32).
- Clitocybe trulliformis** (Fr.) Quél.  
**E:** !  
**H:** In grassland.  
 Move from 'excluded'. Recent material (2004) at K from Yorkshire (Duncombe Park).
- Coniophora marmorata** Desm.  
 Included in error. Move to 'aliens' list.
- Conocybe alboradicans** Arnolds, *Bib. Mycol.* 90: 302 (1982)  
**W:** !  
**H:** In calcareous pasture.  
 New record. Recent material (2006) at K from Wales (Carmarthenshire) det. E. Arnolds.
- COPRINELLUS** P. Karst.  
**Agaricales, Psathyrellaceae**  
 Type: *Coprinellus deliquescens* (Bull.) P. Karst.  
 Treated as a synonym of *Coprinus* in the published checklist, but now accepted as a separate genus.  
 Unless indicated otherwise, the following entries are all name changes for taxa previously listed in the genus *Coprinus*.
- amphithallus** (M. Lange & A.H. Sm.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 232 (2001)
- angulatus** (Peck) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 232 (2001)
- bisporiger** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 233 (2001)
- bisporus** (J.E. Lange) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 233 (2001)
- congregatus** (Bull.) P. Karst., *Bidr. Bidrag Kännedom Finlands Natur Folk* 32: 543 (1879)
- curtus** (Kalchbr.) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 233 (2001)
- disseminatus** (Pers.) J.E. Lange, *Dansk Bot. Ark.* 9(6): 93 (1938)
- domesticus** (Bolton) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 233 (2001)
- ellisii** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 233 (2001)
- ephemerus** (Bull.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 233 (2001)
- flocculosus** (DC) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 233 (2001)
- heptemerus** (M. Lange & A.H. Sm.) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 234 (2001)
- heterosetulosus** (Watling) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 234 (2001)
- heterothrix** (Kühner) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)  
*Coprinus heterothrix* Kühner, *Bull. Soc. Nat. Oyonnax* 10-11 (suppl.): 3 (1957)  
**E:** !  
**H:** On soil in parkland.  
**D:** FAN6: 46 **D+I:** B8K4: 282.  
 New record. Recent material (2005) at K from Buckinghamshire (Wotton House).
- hiascens** (Fr.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- impatiens** (Fr.) J.E. Lange, *Dansk Bot. Ark.* 9(6): 93 (1938)
- marculentus** (Britzelm.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- micaceus** (Bull.) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 234 (2001)
- pellucidus** (P. Karst.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- plagioporus** (Romagn.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- pyrrhanthes** (Romagn.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- radians** (Desm.) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 234 (2001)
- sassii** (M. Lange & A.H. Sm.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- sclerocystidiosus** (M. Lange & A.H. Sm.) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 234 (2001)
- subdisseminatus** (M. Lange) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- subimpatiens** (M. Lange & A.H. Sm.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- subpurpureus** (A.H. Sm.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 234 (2001)
- truncorum** (Schaeff.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 235 (2001)
- velatopruinatus** (Bender) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 235 (2001)
- verrucispermus** (Joss. & Enderle) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 235 (2001)  
*Coprinus verrucispermus* Joss. & Enderle, in Bender & Enderle, *Z. Mykol.* 54: 67 (1988)  
**E:** !  
**H:** In grassland.  
**D:** FAN6: 54-55  
 New record. Recent material (2005) at K from Lancashire (Cuerdon Valley Park).

**xanthothrix** (Romagn.) Vilgalys, Hopple, & Jacq. Johnson, *Taxon* 50: 235 (2001)

## **COPRINOPSIS** P. Karst.

### **Agaricales, Psathyrellaceae**

Type: *Coprinopsis friesii* (Quél.) P. Karst..

Treated as a synonym of *Coprinus* in the published checklist, but now accepted as a separate genus. Unless indicated otherwise, the following entries are all name changes for taxa previously listed in the genus *Coprinus*.

**acuminata** (Romagn.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 226 (2001)

**ammophilae** (Courtec.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 226 (2001)

**argentea** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 226 (2001)

**atramentaria** (Bull.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 226 (2001)

**bicornis** (Uljé & Horvers) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 227 (2001)  
*Coprinus bicornis* Uljé & Horvers, in Uljé & Noordeloos, *Persoonia* 17: 170 (1999)

**E:** !

**H:** On horse dung.

**D:** FAN6: 67-68

New record. Recent material (2005) at K from Buckinghamshire (Hampden Common).

**cinerea** (Schaeff.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 227 (2001)

**cinereofloccosa** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 227 (2001)

**coniophora** (Romagn.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 227 (2001)

**cothurnata** (Godey) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 227 (2001)

**echinospora** (Buller) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 227 (2001)

**episcopalis** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 228 (2001)

**erythrocephala** (Lév.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 228 (2001)

**filamentifer** (Kühn.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 228 (2001)

**friesii** (Quél.) P. Karst., *Acta Soc. Flora Faun. Fenn.* 2: 27 (1881)

**gonophylla** (Quél.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 228 (2001)

**jonesii** (Peck) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 228 (2001)

**krieglsteineri** (Bender) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**kubickae** (Pilát & Svrček) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**laanii** (Kits van Wav.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**lagopides** (P. Karst.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**lagopus** (Fr.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**luteocephala** (Watling) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**macrocephala** (Berk.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**martinii** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**narcotica** (Batsch.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**nivea** (Pers.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 229 (2001)

**ochraceolanata** (Bas) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**pachyderma** (Bogart) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**pachysperma** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**phaeospora** (P. Karst.) P. Karst, *Acta Soc. Flora Faun. Fenn.* 2: 27 (1881)

**picacea** (Bull.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**pseudofriesii** (Pilát & Svrček) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**pseudonivea** (Bender & Uljé) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

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

**H:** British collections on cow and deer(?) dung. Additional, recent material (2006) at K from Wales (Carmarthenshire).

**pseudoradiata** (Watling) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**radicans** (Romagn.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**romagnesiana** (Singer) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 230 (2001)

**sclerotiger** (Watling) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 231 (2001)

**scobicola** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 231 (2001)

**semitalis** (P.D. Orton) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 231 (2001)

**spelaiophila** (Bas & Uljé) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 231 (2001)

**stangliana** (Enderle, Bender & Gröger) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 231 (2001)

**stercorea** (Fr.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 231 (2001)

**tigrinella** (Boud.) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 231 (2001)

**trispora** (Kemp & Watling) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 232 (2001)

**urticola** (Berk. & Broome) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 232 (2001)

**utrifer** (Watling) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 232 (2001)

**vermiculifer** (Dennis) Redhead, Vilgalys, & Moncalvo, *Taxon* 50: 232 (2001)

## **COPRINUS** Pers.

### **Agaricales, Agaricaceae**

Molecular research has shown that *Coprinus* sensu lato is a heterogeneous grouping: the type (*C. comatus*) and a few related species belong in the *Agaricaceae*, whilst the bulk of species belong in the *Psathyrellaceae*. Redhead *et al.* (*Taxon* 50: 203-241, 2001) proposed moving the latter grouping into the segregate genera *Coprinellus*, *Coprinopsis*, and *Parasola*. A counter-proposal (Jørgensen *et al.*, *Taxon* 50: 909, 2001) to conserve the name *Coprinus* for much of the latter grouping (by changing the type species to *C. atramentarius*) has now been defeated (Gams, *Taxon* 54: 12, 2005) and the proposal of Redhead *et al.* is accordingly adopted here. *Coprinus comatus* and *C. sterquilinus* remain in the genus *Coprinus* sensu stricto. Name changes for other species are listed under *Coprinellus*, *Coprinopsis*, and *Parasola*. Note that new combinations are currently lacking for a few taxa.

**Cortinarius alcalinophilus** Rob. Henry, *Bull. Soc. Mycol. Fr.* 67: 301 (1952)

**E:** !

**H:** With *Helianthemum* sp.

New record. Recent material (2005) at K from Kent (Queendown Warren).

**Cortinarius betuletorum** M.M. Moser

A synonym of *C. raphanoides* (q.v.), not *vice versa*.

**Cortinarius casimiri** (Velen.) Huijsman

**E:** ! **W:** ?

**H:** English collection on soil with *Pinus sylvestris*. Move from 'excluded'. Recent material (2006) at K from Surrey (Oxshott Heath).

**Cortinarius paragaudis** Fr.

Mis.: *Cortinarius haematochelis* sensu Moser (*Schweiz. Z. Pilzk.* 57: 113-124, 1965)

**S:** !

**H:** On soil in woodland near *Betula* sp.

Move from 'excluded'. Recent material (2005) at K from Easternness (Abernethy Forest), where previously collected by Orton (NBA9: 551) as *C. haematochelis*.

**Cortinarius raphanoides** Pers., *Syn. meth. fung.*: 324 (1801)

The correct name for *C. betuletorum*, with which it was mistakenly placed in synonymy in the printed checklist.

**Cortinarius tortuosus** (Fr.) Fr.

**S:** !

**H:** Scottish collection with *Pinus* and *Betula* spp. Move from 'excluded'. Recent material (2005) at K from Easternness (Abernethy Forest).

**Crepidotus caspari** Velen., *Mykologia* 3: 70 (1926)

An earlier name and hence a name change (*Česká Mycol.* 57: 304, 2005) for *C. lundellii*.

**Crepidotus lundellii** Pilát

Name changed to *C. caspari* (q.v.).

**Entoloma griseorubidum** Noordel.

Delete as a separate entry. Placed by Noordeloos (FungEur5a) in synonymy with *E. indutoides*.

**DENTIPELLIS** Donk, *Persoonia* 2: 232 (1962)

### **Hericiales, Auriscalpiaceae**

Type: *Dentipellis fragilis* (Pers.) Donk

**fragilis** (Pers.) Donk, *Persoonia* 2: 233 (1962)

**E:** !

**H:** On fallen hardwood branches, often of *Fagus* or *Carpinus*, on calcareous soils. English collection on *Carpinus*.

**D:** NM3: 284 **D + I:** B&K2: 238 285 **I:** FM7(4): 111 (2006)

New record. Recent material (2006) from East Kent (Faversham).

**ERASTIA** Niemelä & Kinnunen, *Karstenia* 45: 76 (2005)

### **Poriales, Coriolaceae**

Type: *Erastia salmonicolor* (Berk. & M.A. Curtis) Niemelä & Kinnunen

**salmonicolor** (Berk. & M.A. Curtis) Niemelä & Kinnunen, *Karstenia* 45: 76 (2005)

Name change from *Hapalopilus salmonicolor*.

**GYMNOPUS** (Pers.) Roussel [non *Gymnopus* Quél. (1887)], *Flora Calvados*, Edn 2: 62 (1806)

### **Agaricales, Tricholomataceae**

Type: *Gymnopus fusipes* (Bull.) Gray

As noted by Henrici (FM7(1): 4, 2006), the checklist has not yet adopted *Gymnopus* (regarded *pro tem.* as a synonym of *Collybia*) because of uncertainty over the application of the generic name. The most recent molecular study (Wilson & Desjardin, *Mycologia* 97(3): 667 – 679, 2005) suggests that only the type species, *G. fusipes*, and allied taxa (including e.g. *Micromphale perforans*, *Collybia dryophila*, and *Marasmius androsaceus*) should be referred to *Gymnopus*, whilst other species in the complex should be referred to *Collybia* sensu stricto, *Marasmiellus* sensu stricto, *Rhodocollybia*, *Mycetinis* Earle, and a number of unnamed or provisional clades. There seems no point in temporarily adopting these partial generic redispersions (which offer no updated names for species such as *Collybia confluens* and *C. peronata*). However, it is the intention to recognize *Gymnopus et al.* and update the checklist as soon as a fuller treatment is published.

**Hapalopilus salmonicolor** (Berk. & M.A. Curtis) Pouzar

Name changed to *Erastia salmonicolor* (q.v.).

**Hydnellum auratile** (Britzelm.) Maas Geest.

Move to 'excluded'.

**Hyphoderma obtusum** J. Erikss.

**E:** !

**H:** On conifer wood.

**D:** CNE3: 496-497

Move from 'excluded'. Material at E from Yorkshire (Hebden Bridge).

**Hyphodontia hastata** (Litsch.) J. Erikss.

*Grandinia hastata* (Litsch.) Jülich, *Int. J. Mycol. Lichenol.* 1: 36 (1982)

**E:** ! **W:** ?

**D:** CNE4: 647-649

**H:** English collection on an old basidiome on fallen

branch. An older Welsh report (on *Clematis vitalba*) is unsubstantiated with voucher material. Move from 'excluded'. Recent material (2005) at K from Surrey.

#### **Hypochnicium eichleri**

Move to 'excluded' (q.v.).

#### **Leptosporomyces fusoides** (Jülich) Krieglst.

**E:** !

**H:** English collection on fallen pine cones and twigs.

**D+I:** CNE3: 386-387 (as *Fibulomyces fusoides*)

Move from 'excluded'. Recent material (2005) at K from Surrey (Brookwood Cemetery). Reported from Wiltshire, but lacking voucher material.

#### **Leucoagaricus crystallifer** Vellinga, *Persoonia* 17: 475 (2000)

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

**H:** On soil in woodland and garden.

**D:** FAN5: 106-107

New record. Collections at K from Somerset and Breconshire. The species was segregated from *L. serenus*, so some older records of *L. serenus* sensu lato may be referable to *L. crystallifer*.

#### **Macrolepiota olivieri** (Barla) Wasser

Name changed to *Chlorophyllum olivieri* (q.v.).

#### **Macrolepiota rhacodes** (Vittad.) Singer

Name changed to *Chlorophyllum rhacodes* (q.v.).

#### **Macrolepiota rhacodes var. bohémica**

(Wichanský) Bellù & Lanzoni [*nom. inval.*], *Beitr. Kenntn. Pilze Mitteleurop.* 3: 191 (1987)

Name changed to *Chlorophyllum brunneum* (q.v.).

#### **Marasmiellus ornatissimus** Noord. & Barkm.

**E:** !

**H:** English collections on dead attached *Rubus* stems.

New record. Move from synonymy of *Resinomycena saccharifera*. A distinct species, with recent material (2005) at K from East Suffolk and Surrey. Note minor correction to author citation.

### **MEMBRANOMYCES** Jülich, *Persoonia* 8: 296 (1975)

#### **Cantharellales, Clavulinaceae**

Type: *Membranomyces spurius* (Bourdot) Jülich

**spurius** (Bourdot) Jülich, *Persoonia* 8: 296 (1975)

*Corticium spurium* Bourdot, *Rev. Sci. Bourb.*

*Centr. Fr.* 35: 15 (1922)

*Clavulicium spurium* (Bourdot) J. Erikss. &

Hjortstam, in Eriksson, Hjortstam & Ryvarde,

*Corticaceae of North Europe* 6: 1059 (1981)

**E:** !

**H:** On wood.

**D:** CNE6: 1058-1061 (as *Clavulicium spurium*)

New record. Recent material (2004) at K from Hertfordshire. Note that the collection illustrated in B&K2: 140 137 is not this species, but *Coniophora puteana*.

#### **Mycena flavoalba** (Fr.) Quél.

The correct name *vide* Maas Geesteranus (1992) for the species previously listed (following Maas Geesteranus, 1984) as *M. luteoalba*. (with *M. flavoalba* as a synonym).

#### **Mycena luteoalba** (Bolton) Gray

Move to 'excluded'. A *nomen dubium*. *Sensu auct* = *M. flavoalba* (q.v.).

### **MYCENASTRUM** Desv., *Ann. Sci. Nat., Bot., sér. 2*, 17: 147 (1842)

#### **Lycoperdales, Mycenastraceae**

Type: *Mycenastrum corium* (Guersent) Desvaux

**corium** (Guers.) Desv., *Ann. Sci. Nat., Bot., sér. 2*, 17: 147 (1842)

**O:** Channel Islands: !

**H:** In sandy soil at clifftop.

**D:** NM3: 341

New record. Recent material (2005) at K from Jersey.

### **NODOTIA** Hjortstam, *Mycotaxon* 28: 33 (1987)

#### **Polyporales, Hyphodermataceae**

Type: *Nodotia aspera* Hjortstam

**lyndoniae** (D.A. Reid) Hjortstam &

Ryvarde, *Synopsis Fung.* 18: 18 (2004)

*Odontia lyndoniae* D.A. Reid, *Kew Bull.* 10: 641 (1956) [1955]

*Hypochnicium lyndoniae* (D.A. Reid) Hjortstam, *Mycotaxon* 54: 187 (1995)

**E:** !

**H:** English collections on *Picea* sp.

New record. Described from Australia. Recent material (2002, 2004) at K from South Somerset and (det. K. Hjortstam) West Sussex.

### **PARASOLA**

#### **Agaricales, Psathyrellaceae**

Type: *Parasola plicatilis* (Curtis) Redhead, Vilgalys, & Hopple

Treated as a synonym of *Coprinus* in the published checklist, but now accepted as a separate genus. Unless indicated otherwise, the following entries are all name changes for taxa previously listed in the genus *Coprinus*.

**auricoma** (Pat.) Redhead, Vilgalys, & Hopple, *Taxon* 50: 235 (2001)

**galericuliformis** (Watling) Redhead, Vilgalys, & Hopple, *Taxon* 50: 235 (2001)

**hercules** (Uljé & Bas) Redhead, Vilgalys, & Hopple, *Taxon* 50: 235 (2001)

**kuhneri** (Uljé & Bas) Redhead, Vilgalys, & Hopple, *Taxon* 50: 235 (2001)

**leiocephala** (P.D. Orton) Redhead, Vilgalys, & Hopple, *Taxon* 50: 236 (2001)

**lilatincta** (Uljé & Bas) Redhead, Vilgalys, & Hopple, *Taxon* 50: 236 (2001)

**megasperma** (P.D. Orton) Redhead, Vilgalys, & Hopple, *Taxon* 50: 236 (2001)

**miser** (P. Karst.) Redhead, Vilgalys, & Hopple, *Taxon* 50: 236 (2001)

**plicatilis** (Curtis) Redhead, Vilgalys, & Hopple, *Taxon* 50: 235 (2001)

**schroeteri** (P. Karst.) Redhead, Vilgalys, & Hopple, *Taxon* 50: 236 (2001)

**Peniophora pithya** (Pers.) J. Erikss.

**ROI:** !

**H:** On *Picea sitchensis* log.

**D:** CNE5: 962-964

Move from 'excluded'. Material (1993) at K from Clare (Sleive Elva).

**Phellinus pseudopunctatus** A. David, Dequatre, & Fiasson, *Mycotaxon* 14: 171 (1982)

**E:** !

**H:** English collection on *Cupressus macrocarpa*.

**D:** EurPoly2: 511

New record. Recent material (2005) at K from Hampshire (New Forest). Northernmost record of a largely mediterranean species.

**Physisporinus rivulosus** (Berk. & M.A. Curtis) Ryvarden, *Mycotaxon* 20: 353 (1984)

**E:** !

**H:** English collections on burnt *Pinus* stump.

New record. Recent material (2005) at K from Surrey (Brookwood Cemetery).

**Resupinatus poriaeformis** (Pers.) Thorn, Moncalvo, & Redhead, *Mycologia* 97: 1148 (2005)  
Name change for *Stigmatolemma poriaeforme* (note also the preferred spelling of the epithet). Thorn *et al.* maintain *S. urceolatum* as a separate species, though the present checklist considers it a synonym.

**Russula integra** var. **oreas** Romagn., *Bull. Mens. Soc. Linn. Lyon* 31: 177 (1962)

**S:** !

**H:** In *Sphagnum* sp. with *Pinus sylvestris*.

New record. Material (2003) at K from Aberdeenshire (Linn of Dee).

**Russula pectinata** (Bull.) Fr.

**E:** !

**H:** Surrey collection with *Carpinus*.

**I:** FM6: 111

Move from 'excluded'. Material (2001) at K from Surrey (Kew, Royal Botanic Gardens). Also recorded from Essex (Epping Forest) in FM 6: 111-112.

**Russula pseudoolivascens** Kärcher, *Z. Mykol.* 68: 174 (2002)

**W:** !

**H:** Welsh collection with *Betula* sp.

**I:** FM4: 99

New record. Material (1999) at K from Caernarvonshire (Capel Curig).

**Russula pulchrae-uxoris** Reumaux  
Delete as a separate entry and move to synonymy of *Russula rhodomelanea*.

**Russula rhodomelanea** Sarnari, *Rivista Micol.* 36(1): 53 (1993)  
*Russula mairei* var. *rhodomelanea* (Sarnari) Reumaux, in Reumaux & Moëne-Loccoz, *Les Russules Emétiques*: 179 (2003)  
*Russula pulchrae-uxoris* Reumaux  
Mis. *Russula emeticella* sensu Romagnesi (*Bull. Soc. Mycol. France* 96: 304, 1980)

**D+I:** Sarn: 580-586

Name change for *Russula pulchrae-uxoris*, which is considered a synonym. Now recorded from East Kent and South Hampshire as well as Surrey and West Kent.

**Stigmatolemma poriaeforme** (Pers.) W.B. Cooke  
Name changed to *Resupinatus poriaeformis* (q.v.).

**Tremella giraffa** C.-J. Chen, *Bib. Mycol.* 174: 173 (1998)

**E:** !

**H:** English collection in hymenium of *Dacrymyces stillatus*.

New record. Recent material (2003) at K from Surrey (Kew, Royal Botanic Gardens).

**Tremella obscura** (L.S. Olive) M.P. Christ.

**E:** !

**H:** English collection in hymenium of *Dacrymyces minor*.

Move from 'excluded'. Recent material (2005) at K from Surrey (Brookwood Cemetery).

**Typhula sclerotioides** (Pers.) Fr.

**W:** !

**H:** On *Petasites* sp.

Move from 'excluded'. Recent material (2003) at K from Caernarvonshire (Bangor).

## UREDINIOMYCETES

**BAUHINUS** R.T. Moore, *Mycotaxon* 45: 98 (1992)

**Microbotryales: Microbotryaceae**

Type: *Bauhinus tragopogonis-pratensis* (Pers.) R.T. Moore

Unless indicated otherwise, the following entries are all name changes for taxa previously listed in the genus *Ustilago* (*Ustilaginiomycetes*).

**anomalus** (J. Kuntze) Denchev & R.T. Moore, *Mycotaxon* 45: 99 (1992)  
*Microbotryum anomalum* (J. Kuntze) Vánky, *Mycotaxon* 67: 39 (1998)

**bistortarum** (DC.) Denchev, *Mycotaxon* 65: 421 (1997)  
*Microbotryum bistortarum* (DC.) Vánky, *Mycotaxon* 67: 40 (1998)

**cordae** (Liro) Denchev, *Mycotaxon* 65: 422 (1997)  
*Microbotryum cordae* (Liro) G. Deml & Prillinger, *Bot. Acta* 104: 10 (1991)

**floscolorum** (DC.) Denchev, *Mycotaxon* 65: 422 (1997)  
*Microbotryum floscolorum* (DC.) Vánky, *Mycotaxon* 67: 43 (1998)

**intermedius** (J. Schröt.) Denchev, *Mycotaxon* 65: 422 (1997)  
*Microbotryum intermedium* (J. Schröt.) Vánky, *Mycotaxon* 67: 44 (1998)

**kuehneanus** (R. Wolff) Denchev, *Mycotaxon* 65: 423 (1997)  
*Microbotryum kuehneanus* (R. Wolff) Vánky, *Mycotaxon* 67: 45 (1998)

**marginalis** (DC.) Denchev, *Mycotaxon* 65: 423 (1997)  
*Ustilago marginalis* (DC.) Lév., in Orbigny, *Dict. Univ. hist. nat.* 12: 778  
*Microbotryum marginale* (DC.) Vánky, *Mycotaxon* 67: 45 (1998)

**E:** !

**H:** In leaves of *Persicaria bistorta*.

New record. A single collection from Worcestershire in 1921, recently identified and reported in *Myc.* 20: 94 (2006).

**parlatorei** (A.A. Fisch. Waldh.) Denchev, *Mycotaxon* 65: 423 (1997)  
*Microbotryum parlatorei* (A.A. Fisch. Waldh.) Vánky, *Mycotaxon* 67: 48 (1998)

- pustulatus** (DC.) Denchev, *Mycotaxon* 65: 424 (1997)  
*Microbotryum pustulatum* (DC.) R. Bauer & Oberw., *Canad. J. Bot.* 75: 1309 (1997)
- reticulatus** (Liro) Denchev, *Mycotaxon* 65: 424 (1997)  
*Microbotryum reticulatum* (Liro) R. Bauer & Oberw., *Canad. J. Bot.* 75: 1311
- scabiosae** (Vánky) Denchev & R.T. Moore, *Mycologia Balcanica* 3: 73 (2006)  
*Microbotryum scabiosae* Vánky, *Mycotaxon* 67: 52 (1998)
- stygius** (Liro) Denchev, *Mycotaxon* 65: 424 (1997)  
*Microbotryum stygium* (Liro) Vánky, *Mycotaxon* 67: 50 (1998)
- succisae** (Magnus) Denchev, *Mycotaxon* 65: 424 (1997)  
*Microbotryum succisae* (Magnus) R. Bauer & Oberw., *Canad. J. Bot.* 75: 1311
- tragopogonis-pratensis** (Pers.) R.T. Moore, *Mycotaxon* 45: 99 (1992)  
*Microbotryum tragopogonis-pratensis* (Pers.) R. Bauer & Oberw., *Canad. J. Bot.* 75: 1311
- vinosus** (Tul. & C. Tul.) R.T. Moore, *Mycotaxon* 45: 99 (1992)  
*Microbotryum vinosum* (Tul. & C. Tul.) Denchev, *Bot. Acta* 104: 10

**CELATOGLOEA** P. Roberts, *Mycologist* 19: 69 (2005)

**Incertae sedis**

Type: *Celatogloea simplicibasidium* (Lindsey & Gilb.) P. Roberts

**simplicibasidium** (Lindsey & Gilb.) P. Roberts, *Mycologist* 19: 69 (2005)

**E:** !

**H:** In hymenium of *Corticium roseum* on *Salix* sp.

**D+I:** Myc19(2): 69-71

New record. Recent material (2003) at K from Norfolk.

**CLASSICULA** R. Bauer, Begerow, Oberw., & Marvanová, *Mycologia* 95: 757 (2003)

**Classicales, Classiculaceae**

Type: *Classicula naiadella* R. Bauer, Begerow, Oberw., & Marvanová

**naiadella** R. Bauer, Begerow, Oberw., & Marvanová, *Mycologia* 95: 757 (2003)

The teleomorph of *Naiadella fluitans*. The anamorph was incorrectly listed under the latter name in the printed checklist.

**HARADAEA** Denchev, *Mycologia Balcanica* 3: 72 (2006)

**Microbotryales: Microbotryaceae**

Type: *Haradaea duriaeana* (Tul. & C. Tul.) Denchev & H.D. Shin

**duriaeana** (Tul. & C. Tul.) Denchev & H.D. Shin, *Mycologia Balcanica* 3: 72 (2006)  
*Microbotryum duriaeenum* (Tul. & C. Tul.) Vánky, *Mycotaxon* 67: 43 (1998)

Name change for *Ustilago duriaeana*.

**Microbotryum saponariae** M. Lutz, Göker, M. Piatek, Kemler, Begerow & Oberw., *Mycological Progress* 4: 233 (2005)

**E:** !

**H:** In anthers of *Saponaria officinalis*.

New record. A single British record from Cambridgeshire in 1998, reported in *Myc.* 20: 93 (2006).

**Naiadella fluitans** Marvanová & Bandoni

Should be listed under the teleomorph name, *Classicula naiadella* (q.v.).

**USTILAGINOMYCETES**

**Entyloma crepidis-rubrae** (Jaap) Liro, *Ann. Acad. Sci. Fenn., Ser. A*, 42: 139 (1935)

**E:** !

**H:** In leaves of *Crepis capillaris*.

Omitted from published list. Material at K from Surrey (Elmbridge Cemetery), reported in *Myc*14: 188 (2000).

**Entyloma dactylidis** (Pass.) Cif.

Name changed to *Jamesdicksonia dactylidis* (q.v.).

**Entyloma irregulare** Johanson

Name changed to *Jamesdicksonia irregulare* (q.v.).

**Exobasidium splendidum** Nannf., *Symb. bot. upsal.* 23: 58 (1981)

**S:** !

**H:** on deformed, bright red shoot tips of *Vaccinium vitis-idaea*.

A single record, from Perthshire (Black Wood of Rannoch) in 2003.

**JAMESDICKSONIA** Thirum., Pavgi & Payak, *Mycologia* 52: 478 (1961)

**Georgefischeriales, Georgefischeriaceae**

Type: *Jamesdicksonia obesa* (Syd. & P. Syd.)

Thirum., Pavgi & Payak

**dactylidis** (Pass.) R. Bauer, Begerow, A. Nagler & Oberw., *Mycol. Res.* 105: 422 (2001)

Name change for *Entyloma dactylidis*.

**irregulare** (Johanson) R. Bauer, Begerow, A. Nagler & Oberw., *Mycol. Res.* 105: 422 (2001)

Name change for *Entyloma irregulare*.

**Melanotaenium ari** (Cooke) Lagerh.

Name changed to *Melanustilospora ari* (q.v.).

**MELANUSTILOSPORA** Denchev, *Mycotaxon* 87: 476 (2003)

**Urocystales, Urocystaceae**

Type: *Melanustilospora ari* (Cooke) Denchev

**ari** (Cooke) Denchev, *Mycotaxon* 87: 476 (2003)

Name change for *Melanotaenium ari*.

**Urocystis bromi** (Lavrov) Zundel

Move to 'excluded'.

**USTILAGO** (Pers.) Roussel

Following Denchev & R.T. Moore (2006), species on dicot. herbs other than *Caryophyllaceae*, previously listed under *Microbotryum* or *Ustilago* in the printed checklist, have now been placed in the genus *Bauhinus* (q.v.) (*Urediniomycetes*).

**corcontica** (Bubak) Liro, *Ann. Acad. Sci. Fenn., Ser. A*, 17: 383 (1924)

**E:** !

**H:** In leaves & culms of *Calamagrostis canescens*.  
New record. Two early collections from Norfolk,  
reported in *Myc.* 20: 92 (2006).

**duriaeana** Tul. & C. Tul.

Name change. Now placed in the *Urediniomycetes*  
within the genus *Haradaea* (q.v.).

**scrobiculata** Liro, *Ann. Acad. Sci. Fenn., Ser. A*, 17: 68 (1924)

**E:** !

**H:** In leaves & culms of *Calamagrostis canescens*.  
New record. A single collection, from Norfolk, in  
1970, reported in *Myc.* 20: 93 (2006).

## ADDITIONS & AMENDMENTS TO LIST OF ALIEN TAXA

### BASIDIOMYCETES

**Chlorophyllum abruptibulum** (R. Heim) Vellinga,  
*Mycotaxon* 83: 416 (2002)

Name change from *Macrolepiota abruptibulba*.

**Coniophora marmorata** Desm.

Moved from main list. British material is from  
buildings and a flower pot.

**Coprinopsis kimurae** (Hongo & Aoki) Redhead,  
Vilgalys, & Moncalvo, *Taxon* 50: 228 (2001)  
Name change from *Coprinus kimurae*.

**Coprinus kimurae** Hongo & Aoki

Name changed to *Coprinopsis kimurae* (q.v.).

**Macrolepiota abruptibulba** (R. Heim) Heinem.  
Name changed to *Chlorophyllum abruptibulum*  
(q.v.).

## ADDITIONS & AMENDMENTS TO LIST OF EXCLUDED TAXA

### BASIDIOMYCETES

**albidopallens** P. Karst., *Omphalia*, *Meddeland. Soc. Fauna Fl. Fenn.* 16: 38 (1888)

Omitted from published list. A *nomen dubium*, listed  
by Rea (1922).

**alexandri** Singer, *Mycena*, *Sydowia* 15: 63 (1961)  
Reported from Scotland (as *M. alexandrii*) in Shaw, P.  
& Thompson, D. (Eds), *The Nature of the Cairngorms*: 151, 2006, but unconfirmed.

**ammophila** (Lév.) Lloyd, *Bovistella*, *Myc. Writ.* 1: 88 (1902)

*Bovista ammophila* Lév., *Ann. Sci. Nat., Bot., sér.* 3, 9: 129 (1848)

Omitted from published list, though included by Rea (1922). A synonym of *B. radicata* fide Kreisel & Calonge (*Mycotaxon* 48: 22, 1967), but sensu Rea is dubious.

**auratile** (Britzelm.) Maas Geest., *Hydnellum*  
Move from 'included'. Scottish records redetermined  
as *H. aurantiacum* (fide Dickson & Emmett,  
*FM5(2)*: 49-51, 2004).

**avellanea** (Bres.) Höhn. & Litsch., *Peniophora*, *Sber. Akad. Wiss. Wien, Math.-naturw. Kl., Abt. 1* 117: 1094 (1908)

*Kneiffia avellanea* Bres., *Ann. mycol.* 1(2): 102 (1903)

Omitted from published list. A *nomen dubium*, listed  
by Rayner (*Bull. Brit. Mycol. Soc.* 13(2): 117, 1979)  
as British, but no details traced.

**biformis** (Peck) Singer, *Collybia*, *Sydowia* 15: 55 (1962)

*Marasmius biformis* Peck, *Bull. New York State Mus. Nat. Hist.* 67: 25 (1903)

Reported from Surrey (Wisley) on woodchip mulch  
(*Myc18*: 12-15, 2004), but there is no voucher  
collection at K.

**brassicaecola** Berk. & Broome, *Tremella* [ined.]  
Omitted from published list. An herbarium name, but  
used in print (e.g.) by Ralfs (*Trans. Penzance Nat. Hist. Antiq. Soc. N.S.* 1: 48, 1881). The original  
collection (Cornwall, on cabbage stump) at K  
appears to be a *Fusarium* sp.

**confluens** P. Karst., *Dacrymyces*, *Meddeland. Soc. Fauna Fl. Fenn.* 14: 83 (1887)

Reported from Scotland (Curr Wood) in Shaw, P. &  
Thompson, D. (Eds), *The Nature of the Cairngorms*: 153, 2006, but lacking a voucher  
collection.

**dilleni** Davies, *Agaricus*, *Welsh Botany*. 124 (1813)

A *nomen dubium*, omitted from published list.

Described from Wales, with reference to an earlier  
English collection. Davies gave no description, but  
referred back to Dillenius's 1724 edition of Ray's  
Synopsis (p. 3, n. 13) which describes a fleshy,  
blue-grey ('sublividus') agaric with white lamellae  
and short, bulbous, pale violaceous stipe growing in  
pastures in December. Possibly a species of *Lepista*  
or a variant of *Clitocybe nebularis*.

**eichleri**, (Bres.) J. Erikss. & Ryvar den, *Hypochnicium*  
Move from 'included'. A *nomen dubium* included in  
error. British records sensu CNE4 = *H.*  
*albostramineum* or *H. punctulatum*.

**emeticella** (Singer) J. Blum, *Russula*  
*Russula emetica* ssp. *fragilis* f. *emeticella* Singer,  
*Bot. Centralbl.* 49(2): 305 (1932)  
*Russula emetica* ssp. *emeticella* (Singer) Singer



Move from 'included', where it is treated as a synonym of *R. silvestris*. A *nomen dubium*. Singer's original description was minimal and somewhat contradicted by his later revision, leading to several interpretations. Sensu Blum is *R. betularum*. Sensu NCL and Rayner (1985) is *R. silvestris*. Sensu Romagnesi (*Bull. Soc. Mycol. France* 96: 304, 1980) is *R. rhodomelanea*. The combination by Hora cited in NCL would have been superfluous and was in fact never published.

**foliicola** Fuckel, Tremella, *Jahrb. Nassauischen Vereins Naturk.* 23-24: 402 (1870)

Omitted from published list. Recorded from Norfolk by Phillips & Plowright (*Grevillea* 13: 50), but is a conidial ascomycete, a synonym of *Hainesia rubi* (Westend) Sacc., parasitic on sori of species of *Phragmidium* on leaves of *Rubus* spp.

**fuliginosa** (Pers.) Lév., Hymenochaete  
Recent material (2005) at K (determined by Parmasto as 'cf.' this species) from Cornwall.

**hirtum** (Velen.) Noordel., Entoloma, *Persoonia* 10: 223 (1979)

*Nolanea hirta* Velen., *Mykologia* 6: 28 (1929)  
*Pouzaromyces hirtus* (Velen.) P.D. Orton,  
*Mycologist* 5(4): 175 (1991)

Omitted from published list. Listed as British by Orton (1991), but based on a doubtfully determined collection.

**luteoalba** (Bolton) Gray, Mycena  
Move from 'included'. A *nomen dubium*. Sensu auct.  
= *M. flavoalba*.

**marginella** (Fr.) Rea, Mycena [*nom. illegit.*, non *M. marginella* (Pers.) P. Kumm. (1871)], *Brit. Basidiomyc.*: 373 (1922)  
*Agaricus marginellus* Fr. [*nom. illegit.*, non *A.*

*marginellus* Pers. (1801], *Hym. Eur.*: 131 (1874)

Omitted from published list. A *nomen dubium*. Sensu Rea = *Mycena amicta*.

**pulverulenta** (Lév.) Cooke, Coniophora, *Syll. fung.* 6: 649 (1888)

*Thelephora pulverulenta* Lév., *Ann. Sci. Nat., Bot.*, sér. 3, 5: 149 (1846)

Omitted from published list. A tropical species, reported as British by Massee (1892) and Rea (1922), but misdetermined.

**rywardenii** Hallenb. & Hjortstam, Phlebia,  
*Mycotaxon* 31: 439 (1988)

Omitted from published list. Reported from the Orkney Islands by Watling *et al.* (1999), but the record is doubtful.

**succineus** Sprée, Dacrymyces, in Rabenhorst, *Fungi Europ. Exsic.* 680 (1864)

Omitted from published list. A conidial discomycete, now recombined as *Pseudocenangium succineum* (Sprée) Dyko & Sutton.

## USTILAGINOMYCETES

**bromi** (Lavrov) Zundel, Urocystis

Move from 'included'. The cited collection was based on host misidentification and represents *U. agropyri* on *Agropyron repens*.

**pachysporum** Nannf., Exobasidium, *Symb. Bot. Upsal.* 23: 54 (1981)

Omitted from published list. Reported as British in Ing (1994), followed by Redfern *et al.* (2002), but in error.