

New national and regional biological records for Finland 3. Contributions to agaricoid and ascomycetoid taxa of fungi 2

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Agaricoid fungi (Basidiomycota): *Amanita flavescens*, *Cortinarius brunneotinctus*, *Cortinarius claroplaniusculus*, *Cortinarius orasericeus*, *Cortinarius pardinipes*, *Cortinarius rufoallutus*, *Entoloma querquedula*, *Galerina calyptrospora*, *Galerina lacustris* and *Tricholomopsis flammula* are reported as new to Finland. Three genera of ascomycetoid fungi (Ascomycota): *Ascocodinea*, *Pseudoproboscispora*, *Scabropezia* and 16 species are reported as new to Finland: *Arachnocrea stipata*, *Ascocodinea polyporicola*, *Capronia parasitica*, *Diaporthe dulcamarae*, *Endoxylina astroidea*, *Gnomoniopsis tormentillae*, *Gorgoniceps hypothallosa*, *Helvella latispora*, *Helvella terrestris*, *Peziza celtica*, *Hypocrea estonica*, *Mycosphaerella topographica*, *Ophiobolus galii*, *Pseudoproboscispora caudae-suis*, *Roesleria subterranean*, *Scabropezia scabrosa*. Information of species recently published elsewhere: *Cortinarius alticaudus*, *Cortinarius bovinatus*, *Cortinarius cobaltinus*, *Cortinarius olympianus*, *Cortinarius sannio*, *Cortinarius sobrius*, *Cortinarius subfoetens* is brought here together. New records of little collected and rare taxa: *Cortinarius barbaricus*, *Desmazierella piceicola* and *Tuber anniae* s.lat. are also listed. Corrections of previous information are given on: *Cortinarius luteobrunnescens*, *Cortinarius metarius*, *Cortinarius patibilis* and *Cortinarius pseudonaevosus*.

Introduction

Here we present records of 40 fungal taxa, based on recent field work and on herbarium studies. Three genera and 26 species are reported here as new to Finland. Information concerning 7 taxa recently published elsewhere, is brought here together. We also include additions and corrections of previous information. Coordinates are given in Uniform Coordinate System (USC). ILL = University of Illinois, H = Botanical Museum, Finnish Museum of Natural History, TUR = Herbarium, University of Turku.

Basidiomycota

Amanita flavescens (E.-J. Gilbert & S. Lundell)

Contu

FINLAND. Regio kuusamoënsis (Ks/Ks), Kuusamo, Oulanka National Park, SW of Kokonaronkangas. Meadow on the sandy bank of the Oulankajoki River, scattered trees include *Picea abies*, *Alnus incana* and *Salix* spp. UCS 7363042:3611377, coll. & det. Katri Kokkonen 984/12, 15.VIII.2012 (TUR).

Reported here as new to Finland. Considered as a rare species in all other Nordic countries, where found from the temperate to the subarctic zone (Vesterholt 2012). Pastures and *Betula* forests are mentioned as habitats in Sweden (Hallingbäck & Aronsson 1998).

Cortinarius alticaudus Reumaux

FINLAND. Regio aboënsis (Ab/V), Vihti, Olkkala, Lintumäki, SE sloping. Mesic *Picea abies* forest with *Pinus*. Coll. Hanna Tuovila & Ilkka Kytövuori, 7.X.2001 (H); Nylandia (N/U), Nurmijärvi, Röykkä, MT. Coll. R. Tuomikoski, 7.X.1979, H6032723; Tavastia australis (Ta/EH), Heinola, Vierumäki, Suomen urheilupuisto. Dry pine heath forest. UCS 6779–80:3446, coll. Pirjo & Ilkka Kytövuori 851596, 8.X.1985 (H); Savonia australis (Sa/ES), Kerimäki, Louhi, NW of the lime factory. Dryish, partly thinned heath forest with *Betula*, *Pinus*, *Picea*, *Populus* and *Alnus*, spruce forest. UCS 6872:3605, coll. Ilkka Kytövuori 98–1730b, 8.IX.1998 (H); Punkaharju, Vuoriniemi – Särkilähti, Luikukallionmäki. E, NE to E sloping mesic to grass-herb spruce forest with *Pinus*, *Betula* and *Populus tremula*. UCS 6832:3614, coll. Ilkka Kytövuori 09–1498, 22.IX.2009 (H); Karelia ladogensis (Kl/LK), Parikkala, Särkisalmi, Oronmylly. Mesic spruce heath forest with some *Pinus*, *Betula* and *Populus*. UCS 6836:3626, coll. Ilkka Kytövuori 09–1369, 20.IX.2009 (H); Karelia borealis (Kb/PK), Kesälähti, Poiksilta, Mar-

joniemenkangas, SE of Suuri Haukilampi. Fairly dry pine heath forest on sandy ground, with some *Betula*, *Picea*, *Populus* and *Alnus incana*. UCS 6857–8:3647, coll. I. Kytövuori 09–1402b, 21.IX.2009 (H); Lapponia sompiensis (Lks/Sol), Pelkosenniemi, Suvanto, Kalkkivaara. Fairly steep SW slope, half-open dry pine forest with *Juniperus*, *Betula*, *Populus tremula*, *Alnus incana*, *Anthyllis*, dolomite rock. UCS 7455:3503–4, coll. Ilkka Kytövuori 92–1105b, 26.VIII.1992 (H). Sequeced specimens det. Kare Liimatainen and Tuula Niskanen by comparing ITS with the type in 2013, others det. Ilkka Kytövuori 2013.

Mostly on dryish heath forests dominated by *Pinus sylvestris*, sometimes in dryish spruce forests throughout the country, fairly rare. In northern Europe also known from Norway and Estonia. Belongs to section *Glaucopodes*. Reported as new to Finland by Liimatainen et al. (2013a).

Cortinarius barbaricus (Brandrud) Frøslev, T.S., Jeppesen & Brandrud

FINLAND. Alandia (Al/A), Lemland, Nätö, Västerberget. Grass-herb spruce forest. UCS 6679:3108, coll. Mauri Korhonen 2048 & R. Tuomikoski, 17.IX.1977 (H); Regio aboënsis (Ab/V), Parainen, Simonby – Ersby, at the old limestone quarries, rich coniferous forest. Coll. Mauri Korhonen 5696, X.1983, H6032732. Sequeced specimen det. Kare Liimatainen and Tuula Niskanen by comparing ITS with the type 2012, other det. Ilkka Kytövuori 2013.

In rich, grass-herb conifer forests dominated by *Picea*, on calcareous ground, in hemiboreal to northern boreal zones, very rare. Addition to previous information: In Finland was previously only known from Kuusamo (TN05–188, H) here also reported from southern Finland.

Cortinarius bovinatus Kytöv., Liimat., Niskanen & H. Lindstr.

FINLAND. Savonia australis (Sa/ES), Kerimäki commune, Ruokojärvi, Louhi, SW of the lime factory and the waste heaps, the small esker at the lake Keplakko, dry calcareous pine forest with some *Betula*, *Picea* and *Populus tremula*. UCS 6871:3605–6, coll. I. Kytövuori 09–1520b, 23.IX.2009 (H); Ostrobotnia ultima (Obu/PeP), Tornio, Korkiamaa, Runteli, rich, partly swampy grass-herb spruce forest with *Betula*, *Populus tremula*, *Juniperus*, and *Pinus*, on calcareous soil. Coll. Ilkka Kytövuori 07–616, 22.VIII.2007, H6000849 (holotype).

In mesic to dryish coniferous forests with *Picea* or *Pinus*, on calcareous soil. One collection from dry, pine-covered esker with lime dust, one from a dryish spruce forest with some pines and one from a mesic spruce forest with few pines. Described as new in 2013 (Niskanen et al. 2013). Rare in hemiboreal and boreal zones in northern

Europe and known only from Sweden and Finland. Belongs to section *Bovini*.

Cortinarius brunneotinctus Niskanen, Liimat.,

Ammirati, A. Paul & Lebeuf

FINLAND. Nylandia (N/U), Lapinjärvi, Near Metla station, SW of church village. Dryish *Pinus sylvestris* forest with some *Picea* and *Betula*, on sandy soil. Coll. Mika Toivonen & Ilkka Kytövuori 1.IX.2004, H6032418, det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2012.

Presumably related to the species of section *Anomali*. Reported here as new to Finland.

Cortinarius claroplaniusculus Rob Henry

FINLAND. Regio aboënsis (Ab/V), Nauvo, Berghamn, Boskär island, Southwestern Archipelago National Park, pastured *Corylus avellana* stand with *Picea abies* and *Populus tremula* nearby, on calcareous stony mull soil. UCS 666948:3208682, coll. Jukka Vauras 14332, 02.IX.1998 (TUR-A). det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2013.

Belongs to section *Disjungendi*. Reported here as new to Finland.

Cortinarius cobaltinus Kytövuori, Liimat. & Niskanen

FINLAND. Regio kuusamoënsis (Ks/Ks), Kuusamo, Oulanka National Park, close to Biological Station, Puukkorinne. Herb-rich *Picea abies* forest with some *Pinus*, *Betula*, and *Populus* on calcareous ground. Coll. Tuula Niskanen, Ilkka Kytövuori & Kare Liimatainen 02–1012, 22.IX.2002, H6032404 (holotype).

With *Picea* on calcareous soil, very rare in boreal zone. Described as new in 2013 (Liimatainen et al. 2013b). Belongs to section *Calochroi*, sister species of *C. caesiocinctus*.

Cortinarius luteobrunnescens A.H. Sm.

= *C. cliduchus* ss. Soop in Kytövuori et al. 2005, not ss. Melot (2012)

= *C. oidoamethysteus* Rob. Henry & Ramm; p.p. in Jeppesen, Frøslev & Brandrud (2012).

det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2013 (Liimatainen et al. 2013a).

Correction of previous information: The species was previously called *C. cliduchus* ss Soop in Finland. In mesic to damp, often somewhat rich conifer forest mostly dominated by *Picea abies*, in hemiboreal to northern boreal zones, fairly rare to occasional. In northern Europe also known from Sweden, Norway and Estonia.

Cortinarius metarius Kauffman

= *C. barbarorum* Bidaud, Moëgne-Loc. & Reumaux = *C. calochrous* p.p. in Kytövuori et al. (2005).

det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2013 (Liimatainen et al. 2013a).

Correction of previous information: An earlier name for the species was found among the names described from North America (Liimatainen et al. 2013a).

Cortinarius olympianus A.H. Sm.

FINLAND. Savonia australis (Sa/ES), Kerimäki, Ruokojärvi, Louhi, N side of the lake Keplakko, SW – S of the lime factory and the waste heaps. Dry pine heath forest with some young spruces and birches, lime effect strong. UCS 6871:3606, coll. Ilkka Kytövuori 94–1225, 1.X.1994, H6032619, det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2013.

In dry *Pinus* forest on strongly calcareous ground, in southern boreal zone, very rare. Originally described from Western North America, Washington. Belongs to section *Calochroi*. Reported as new to Finland by (Liimatainen et al. 2013a).

Cortinarius orasericeus Rob. Henry

FINLAND. Satakunta (St), Ikaalinen, Seitsemäinen National Park, Kovero. Old, mesic *Picea abies* forest with some *Betula* and *Pinus sylvestris*. UCS 6872466:3310680, coll. Kare Liimatainen & Tuula Niskanen 05–066, 08.IX.2005, H6029352. det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2013. Belongs to section *Disjungendi*.

Reported here as new to Finland.

Cortinarius pardinipes Romagn.

FINLAND. Tavastia australis (Ta/EH), Ruovesi, Runebergin lähde. Damp mixed forest (*Picea abies*, *Alnus incana*, *Salix*), on mull soil. UCS 68795:33463, coll. Kare Liimatainen & Tuula Niskanen F05–073, 8.IX.2005, H6029899; Tavastia borealis (Tb/PH), Virrat, Hauhuu, Juntunen N. Somewhat rich spruce forest at a small, abandoned field, UCS 6901:3341, coll. Ilkka Kytövuori 00–030, 26.XII.2000 (H); Karelia ladogensis (Kl/LK), Parikkala, Tarvaspohja, Rajala SW, "Kirpunmetsä". Fairly old, partly damp spruce forest with abundant *Betula* and *Populus tremula*. USC 6833469:3625662, coll. Tea von Bonsdorff, 16.IX.2009 (H6033616); Ostrobothnia media (Om/KP), Perho, Peltokangas, Isoraivio. Submesic to damp, herb-rich *Picea abies* forest with some *Betula*, *Pinus*, *Alnus incana*, and *Populus*. UCS 7017:3356, coll. Ilkka Kytövuori, Kare Liimatainen & Tuula Niskanen 03–239,

12.VIII.2003 (H); Ostrobothnia ultima (Obu/PeP), Tornio, Korkiamaa, Runteli. Grass-herb *Picea abies* forest with *Betula*, *Populus tremula* and some *Pinus sylvestris*. UCS 7329–30:3377, coll. Kare Liimatainen & Tuula Niskanen F04-534, 30.VIII.2004 (H6029917). det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2013.

In herb-rich *Picea abies* dominated forests, in hemiboreal and boreal zones, fairly rare. Belongs to section *Brunnei*. Reported here as new to Finland.

***Cortinarius patibilis* Brandrud & Melot**

= *C. patibilis* p.p. in Kytövuori et al. (2005), p.p. in Jeppesen et al. (2012).

FINLAND. Regio aboënsis (Ab/V), Karkkila, Haavisto, Iitalampi. Mesotrophic, fairly old spruce forest with some pines and hardwood bushes. UCS 6716:3357, coll. Ilkka Kytövuori 97–087, 3.VIII.1997 (H6032748); Kisko, S of the lake Määrjärvi, Riilahti, Metsänvartija, S side of the dust road Multasillantie to Aitsaari. Submesic to damp blueberry spruce forest (*Picea abies*) with some *Pinus sylvestris* and *Betula*. UCS 6682:3307, coll. Kare Liimatainen & Tuula Niskanen D07–031, 2.VIII.2007 (H6001802); Satakunta (St), Sastamala, Kiiikan-Illo, Hoiro. Mesic spruce forest. UCS 6796:3280, coll. I. Kytövuori 00–028, 7.VIII.2000 (H). det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type 2012.

Correction of previous information: Majority of the specimens previously identified as *C. patibilis* represent *C. pseudonaevosus*. *Cortinarius patibilis* is so far only known from southern boreal zone and considered occasional. It grows in ordinary to somewhat rich, mesic, *Picea*-dominated conifer forests. Liimatainen et al. 2013a.

***Cortinarius pseudonaevosus* Rob. Henry**

= *C. acidophilus* Brandrud

= *C. patibilis* p.p. Brandrud & Melot in Kytövuori et al. (2005), p.p. in Jeppesen et al. (2012).

= *C. vacciniophilus* Brandrud

FINLAND. Regio aboënsis (Ab/V), Karjaa, Mustio, Kohagen. Herb-rich *Picea abies* forest with some *Corylus avellana*, *Quercus robur*, *Betula* and *Populus tremula*, under *Populus tremula*. UCS 66767–75:3325, coll. Kare Liimatainen & Tuula Niskanen D08–034, 2.IX.2008 (H6001927); Nylandia (N/U), Sipoo, Helgträsk, W side of the road Knutersintie. Submesic blueberry spruce forest (*Picea abies*) with some *Pinus sylvestris* and *Betula*. UCS 66906:34003–6, coll. Kare Liimatainen & Tuula Niskanen 04–046, 4.VIII.2004 (H6030036); Tavastia australis (Ta/EH), Hattula, Nihattula, Huhtamo, Ilveskallio. Partly thinned grass-herb forest with conifers and *Betula*, *Populus tremula* and *Alnus incana*. UCS 67708–11:33554–5,

coll. Ilkka Kytövuori 93–310, 19.VIII.1993 (H6032753); Juupajoki, Kopsamo, near the crossing of the roads 58 and 3413, Mäkirinne. Mesic, mixed forest (*Betula*, *Picea*, *Populus*). UCS 6857:3364, coll. Juhani Ruotsalainen, Jukka Vauras & Timo Kosonen (Niskanen 04–267), 24.VIII.2004 (H6029507); Vilppula, Elämänmäki. Herb-rich and submesic blueberry spruce forest (*Picea abies*) with some *Betula* and *Pinus sylvestris*. Coll. Kare Liimatainen & Tuula Niskanen, 23.VIII.2004 (H6029480); Tavastia borealis (Tb/PH), Virrat, Hauhuu, Juntunen N. Mesic spruce heath forest with some *Pinus*, *Betula*, *Populus tremula* and *Salix*. UCS 6901:3341, coll. Ilkka Kytövuori 98–1369, 22.VIII.1998, H6033540, Ilkka Kytövuori 04–046 (H); Virrat, Hauhuu, Salmela. Swampy spruce forest. UCS 6900:341, coll. Ilkka Kytövuori 97–108, 5.VIII.1997 (H); Virrat, Kotala, Kituskoski. Mesic spruce forest. UCS 691–2:3345–6, coll. Ilkka Kytövuori 02–027, 26.VII.2002 (H); Ostrobothnia kajanensis (Ok/Kn), Paltamo, Kontiomäki, Tololanmäen lehto. Mesic to damp grass-herb spruce forest with some *Pinus*, *Betula* and *Populus tremula*. UCS 7137: 3551, coll. Ilkka Kytövuori 08–1644, 12.IX.2008 (H). det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type 2012.

In ordinary to somewhat rich, mesic to damp, *Picea*-dominated conifer forests, in hemiboreal to northern boreal zones, common throughout the country. Correction of previous information: The species was previously called *C. patibilis* in Finland.

***Cortinarius rufoallutus* Rob. Henry**

FINLAND. Regio aboënsis (Ab/V), Kisko, Haukialampi. Submesic *Picea abies* forest with some *Pinus*, *Betula* and *Populus*. Coll. Tuula Niskanen 00–192, 31.VII.2000 (H); Karelia australis (Ka/EK), Vehkalahti, Pyhältö, Repomäki. Mixed forest. Coll. L. Fagerström, 12.VIII.1972 (H); Savonia borealis (Sb/PS), Juva, Hatsola, between Kaunela and the lake Lanikko. Mesic to damp spruce forest with some *Pinus*, *Betula*, *Salix* and *Populus tremula*, swampy depressions. UCS 6860:3540, coll. Mika Toivonen & Ilkka Kytövuori 07–1158, 4.IX.2007 (H6001718); Tavastia australis (Ta/EH), Virrat, Monoskylä, Hennilä, gently N sloping. Partly poaludified, damp spruce forest with few *Betula* and hardwood bushes. UCS 6900:3347, coll. I. Kytövuori 96–581, 22.VIII.1996 (H); Karelia borealis (Kb/PK), Juuka, Petrovaara, Iljanniemi. Fairly rich spruce grass-herb forest with swampy depressions, some *Pinus*, *Betula*, *Alnus*, *Salix* and *Populus*. UCS 7008:3600, coll. Ilkka Kytövuori 96–614, 25.VIII.1996 (H); Ostrobothnia media (Om/KP), Pulkkila, Lehtomäki. Gently NE sloping spruce heath forest, with some paludified depressions, some pines and hardwood trees. UCS 7127:3444, coll. I. Kytövuori 95–124, 5.VIII.1995 (H); Ostrobothnia ouluensis (Obo/OP), Kiiminki, Keskikylä, Pöksälänkangas, mesic spruce forest with some *Betula*, *Populus tremula* and *Pinus*, on calcareous ground. UCS 7227:3445, coll. Mika Toivonen & Ilkka Kytövuori 07–173 (H6000404).

Sequenced specimens det. Kare Liimatainen and Tuula Niskanen by comparing ITS with the type in 2013, others det. Ilkka Kytövuori in 2013.

In ordinary to somewhat rich, mesic to damp spruce-dominated forests, in boreal zone, fairly rare. In northern Europe also known from Sweden. Belongs to section *Multiformes*. Reported here as new to Finland.

***Cortinarius sannio* M.M. Moser**

FINLAND. Lapponia Kittilensis (KiL/LKi), Kittilä, Vesmajärvi, Jaakonrakka, N end of the lake, by a small track. Half-open, dry heath forest of fairly young pines, grazed by reindeer. UCS 7522:3443, coll. Ilkka Kytövuori 88–1160, 1.IX.1988, H6032754. det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type in 2013.

In dryish conifer forests at least with *Pinus sylvestris*, in northern boreal zone. Originally described from Western North America, Wyoming. In Europe known from Finland and Sweden (IK 98-891, H7019198 Sw, Norrbotten). Belongs to section *Fulvi*. Reported as new to Finland by Liimatainen et al. (2013a).

***Cortinarius sobrius* P. Karst.**

FINLAND. Nylandia (N/U), Helsinki, Haltiala. Damp spruce forest with *Populus*. Coll. Kytövuori 04–045, 7.X.2004 (H); *Tavastia australis* (Ta/EH), Tammela, Mustiala, Myllyperä. Coll. P.A. Karsten 3235, 23.IX.1890 (H, type); *Tavastia borealis* (Tb/PH), Virrat, Hauhuu, Juntunen N, half-open birch forest at the lake. Coll. Ilkka Kytövuori 02-026, 23.VII.2002 (H). det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type 2013.

A pale species of section *Phlegmacioides*, produces fruit bodies early in the season. At least in damp deciduous and mixed forests, in hemiboreal to southern boreal zones, might be somewhat rare. Described by P.A. Karsten from Tammela in 1890, but the identity of the species has been unclear until now. Thus not included in the species lists of Finnish fungi (e.g. Kytövuori et al. 2005).

***Cortinarius subfoetens* M.M. Moser & McKnight**

FINLAND. Regio aboënsis (Ab/V), Lohja, Kirkniemi, E of the grain store. Mixed grass-herb forest with *Picea*, *Betula*, *Populus*, *Alnus* and *Salix*, effected by limestone dust. UCS 6677–8:3331–2, coll. Ilkka Kytövuori 08–2010, 25.IX.2008 (H). det. Kare Liimatainen, Tuula Niskanen & Ilkka Kytövuori by comparing ITS with the type 2013.

In mixed forests, on calcareous ground, in southern boreal zone, rare. Belongs to section *Glaucopodes*. Reported as new to Finland by Liimatainen et al. (2013a).

***Entoloma querquedula* (Romagn.) Noordel.**

FINLAND. Nylandia (N/U), Helsinki, Mustavuori. Calcareous rich forest with *Picea abies* and *Corylus avellana*, UCS 66825:33972, coll. Tero Taipale, 18.9.2011, det. Tapio Kekki & Tero Taipale 2012 (TUR).

In mixed moist herb-rich forests, in hemiboreal – boreal zone, rare (Knudsen & Vesterholt 2012). Reported here as new to Finland.

***Galerina calyptospora* Kühner**

FINLAND. Ostrobothnia ultima (Obu/PeP), Rovaniemi, Louevaara, SW of Tuohilaki, Nature Protection area. By a shallow brook, on peaty, bare soil. UCS 73698:34196, coll. & det. Seppo Huhtinen 13/09, 03.IX.2013 (TUR); Satakunta (St), Sastamala, Kiikka, Haapaniemi, Kiimajärvi, Lähdesuo, spruce-dominated mixed forest, ditch bank, on muddy mull. UCS 681413:26932, coll. Esteri Ohenoja, 1.X.2013, det. Ilkka Kytövuori (H).

Reported here as new to Finland.

***Galerina lacustris* A.H. Sm.**

FINLAND. Satakunta (St.), Sastamala, Kiikka, Haapaniemi, Kiimajärvi. On moist soil near a pool among mosses (*Calliergon cordifolium*) with *Alnus incana*, *Salix caprea*, *S. cinerea*, *Populus tremula* and *Betula pubescens*. UCS 681249:327089, coll. & det. Paavo Höijer 5575, 2.X.2013 (H).

In moist sites, late autumn; very rare in temperate – subalpine zone (Knudsen & Vesterholt 2012). Reported here as new to Finland.

***Tricholomopsis flammula* Métrod ex Holec**

FINLAND. Nylandia (N/U), Helsinki: Kumpula – Toukola. In grass-herb forest with *Alnus incana*, *Betula alba* coll., *Populus tremula* and *Salix caprea*. USC 6678:3386, coll. (as *T. cf. flammula*) Reima Saarenoksa 08178, 21.XII.1978, det. Tea v. Bonsdorff 2013 (H); Regio aboënsis (Ab/V), Koski Tl., Hongisto. Fairly rich and moist mixed forest in abandoned gravel-pit, with mainly *Betula*, *Alnus incana*, *Populus tremula*, *Salix*, *Picea abies* and *Pinus sylvestris*. UCS 672885:328946, coll. and det. (as *Tricholomopsis flammula* ?) Maija-Liisa Heinonen & Pekka Heinonen 541–95, 8.IX.1995, det. Jukka Vauras (TUR); Regio kuusamoënsis (Ks/Ks), Kuusamo, Liikasenvaara, Jäkäläniemi. On mossy fallen trunk at brookside. UCS 73584:36181, coll. & det. Katri Kokkonen 581/07, 1.IX.2007 (TUR); Ostrobothnia ultima (Obu/PeP), Rovaniemi, Suolijoki. On decayed wood of *Picea*

abies. UCS 735412:343371, coll. & det. Tapio Kekki 242, 24.VIII.2011 (H).

Often at brook-sides and on alluvial shores of rivers and lakes, on trunks of *Picea abies*, rare in hemiboreal – boreal zone (most collections from Kuusamo and Rovaniemi); also known from Estonia and Norway. The epithet *flammula* has been used for some Finnish collections at species level and at variation level. Holec (2009) validated the name, after sequencing specimens of this taxon. According to the sequences it is a good species. Kalamees 2011, Knudsen & Vesterholt 2012. Reported here as new to Finland.

Ascomycota

Arachnocrea stipata (Fuckel) Z.Moravec
FINLAND. Tavastia australis (Ta/EH), Lempäälä, Paarenmaa. On decayed *Picea*. UCS 68139:33225, coll. & det. Unto Söderholm 4594, 12.VIII.2013 (TUR).

Reported here as new to Finland.

Ascocodinea polyporicola Samuels, Cand. & Magni

FINLAND. Tavastia australis (Ta/EH), Tampere, Vuores, Rimminsuu. On old fruit body of *Trichaptum abietinum*. UCS 68185:33294, coll. & det. Unto Söderholm 4505, 26.IX.2012 (TUR).

Reported here as new to Finland. Also the genus is new to the country.

Capronia parasitica (Ellis & Everh.) E. Mueller
FINLAND. Tavastia australis (Ta/EH), Tampere, Tesoma. On *Diatrype stigma* on *Betula*. UCS 68269:33205, coll. & det. Unto Söderholm 4504, 25.VIII.2012 (TUR).

Reported here as new to Finland.

Desmazierella piceicola Huhtinen & Mäkinen
FINLAND. Karelia borealis (Kb/PK), Outokumpu, Rikkaranta, 200–300 m NW of Eskola house. Spruce forest, on *Picea abies* needles lying inside the moss cover. UCS 6964:3589, coll. & det. Marja Pennanen MP120804, 11.VIII.2012, conf. Seppo Huhtinen (TUR). Same site, same data, coll. Marja Pennanen s.n., 08.IX.2012 (TUR).

Addition to previous information: This second species to the well-known monotypic genus *Desmazierella* Lib. was described a while ago (Huhtinen & Mäkinen 1984). These two new collections represent the second site from where this species has ever been found.

Diaporthe dulcamarae Nitschke
FINLAND. Tavastia australis (Ta/EH), Tampere, Härmälä. On *Solanum dulcamara*. UCS 68219:33261, coll. & det. Unto Söderholm 4584, 19.VI.2013 (TUR).

Reported here as new to Finland.

Endoxylina astroidea (Fr. : Fr.) Romell
FINLAND. Tavastia australis (Ta/EH), Tampere, Nurmi. On twigs of *Salix*. UCS 68291:33367, coll. & det. Unto Söderholm 4422, 11.I.2012 (TUR).

Reported here as new to Finland.

Gnomoniopsis tormentillae (Lind) Sogonov
FINLAND. Tavastia australis (Ta/EH), Tampere, Pirkkala, Toivio. On *Potentilla erecta*. UCS 68197:33396, coll. & det. Unto Söderholm 4583, 7.VI.2013 (TUR).

Reported here as new to Finland.

Gorgoniceps hypothallosa Svrcek
FINLAND. Tavastia australis (Ta/EH), Tampere, Sorila. On a decorticated, dead branch of *Pinus sylvestris* lying on the ground. UCS 6833:3338, coll. & det. Unto Söderholm 1688, 15.X.1989 (TUR).

Reported here as new to Finland.

Helvella latispora Boud.
FINLAND. Nylandia (N/U), Helsinki, Suomenlinna. A grassy site by *Quercus robur*. UCS 6672:3388, coll. & det. Petri Roponen 2012–1, 02.VII.2012 (TUR).

Reported here as new to Finland.

Helvella terrestris (Velen.) Landvik
FINLAND. Ostrobothnia ultima (Obu/PeP), Rovaniemi, Marrasjärvi. At creek bank amongst mosses, site is flooded at spring. UCS 741987:342370, coll. Tapio Kekki 168, 12.8.2011, det Tapio Kekki & Seppo Huhtinen 2013 (TUR).

Growing at the same place also 2012 and 2013. Apparently a rare species in Central and Northern Europe. Morphology and DNA sequence data suggest that the monotypic genus *Pindara* is a natural member of the broadly defined genus *Helvella* and it is consequently recombined in that genus as *Helvella terrestris*. (Landvik et al. 1999). Reported here as new to Finland.

Hypocrea estonica P. Chaverri & Samuels
FINLAND. Tavastia australis (Ta/EH), Tampere, Nirva. On *Pseudochaete tabacina*. UCS 68214:33293, coll. & det. Unto Söderholm 4624, 19.X.2013, conf. Walter Jaklitsch, Herb. TUR.

Reported here as new to Finland.

Mycosphaerella topographica (Sacc. & Speg.)

Vesterg.

FINLAND. Tavastia australis (Ta/ EH), Pirkkala, Kaitalankulma. On leaves of *Sorbus*. UCS 68185:33245, coll. & det. Unto Söderholm 4447, 31.V.2013 (TUR).

Reported here as new to Finland.

Ophiobolus galii Richon

FINLAND. Tavastia australis (Ta/ EH), Lempäälä, Sääksjärvi. On *Galium album*. UCS 68172:33269, coll. & det. Unto Söderholm 4592, 8.VII.2013 (TUR).

Reported here as new to Finland.

Peziza celtica (Boud.) Mos.

FINLAND. Ostrobothnia ultima (Obu/PeP), Rovaniemi, Marrasjärvi, Kaittiainen. On moist and almost bare mull soil at roots of a fallen *Picea abies* near creek. UCS 7419186:3414807, coll. Tapio Kekki 555, 25.8.2012, det. Unto Söderholm 2012 (TUR).

Reported here as new to Finland.

Pseudoproboscispora caudae-suis (Ingold) J.

Campbell & Shearer

FINLAND. Tavastia australis (Ta/ EH), Tampere, Nalkala. On submerged *Alnus*-wood. UCS 68245:33270, coll. Unto Söderholm 4469, 27.VIII.2013, det. Huzefa Raja (ILL, TUR).

Reported here as new to Finland. Also the genus is new to the country.

Roesleria subterranea (Weinm.) Readhead

FINLAND. Tavastia australis (Ta/ EH), Tampere, Iidesjärvi, S-coast. In the base of young *Betula pubescens*, UCS 682422:332950, coll. Lasse Kosonen 4/12, det. Hanna Tuovila & Lasse Kosonen, 21.X.2012. Herb. TUR.

Reported here as new to Finland.

Scabropezia scabrosa (Cooke) Dissing & Pfister

FINLAND. Satakunta (St), Sastamala, Koppalaisenmaa, along a brook to Soperöjärvi. On a steep bank on clayey mull with *Salix* spp., *Betula* and *Picea abies*, no obvious calcareous effect. UCS 6817141:3268264, coll. & det. Seppo Huhtinen, 02.X.2013 (TUR).

Very rare in Europe. After its introduction to European mycoflora from three sites in Denmark (Hansen et al. 1998), the species has been collected only once, by Sven-Åke Hanson from Skåne (Sweden) in 2002 (Eriksson 2009). Reported here as new to Finland. Also the genus is new to the country.

Tuber anniae W. Colgan & Trappe s.lat.

FINLAND. Tavastia australis (Ta/ EH), Kärkölä, Hevonoja, Lintumäki-Pitkäniitty area. Spruce-dominated forest. UCS 67565:34079, coll. Jaana Lamppu-Blick, 13.X.2007, det. Seppo Huhtinen (TUR); Savonia australis (Sa/ ES), Pertunmaa, Ruorasmäki. In an old strawberry field which has been cultivated for ca 30 years, at 10–15 cm depth, under *Aegopodium podagraria*, site also with scattered tree roots. UCS 68319:34683, coll. Satu Sihvo, 07.IX.2007, det. Seppo Huhtinen (TUR); Karelia borealis (Kb/PK), Juuka, Honkasaari, E-side, mixed *Betula*-dominated, grassy forest. UCS 7021:3619, coll. Jaana Lamppu-Blick, 31.X.2007, det. Seppo Huhtinen (TUR).

Addition to previous information: This species complex was reported as new also to Finland by Wang et al. (2013), based on year 2006 collections from Puumala. The three collections cited here were determined based on results from the Finnish Barcoding Project using BLAST to their material in GenBank. Sequence alignments showed that present material nests into Clade II in (Wang, et al. 2013) and is identical to sequences from ,e.g., Lithuania, Wales, Sweden and Finland (Puumala), but not identical to those in Clade I embracing the sequence from the type collection (Wang, pers. com.).

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