

New reports of lichenicolous fungi, mainly from Finland and Russia

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29 species of lichenicolous fungi are reported from Argentina, Canada, Chile, Finland, India, Mongolia, Russia, and the U.S.A., all presumably new to the country or province of the origin.

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The lichenicolous fungi of Finland have been largely neglected until recently. Only a relatively few species are listed in Santesson et al. (2004), but they include a fair number of species originally described from Finland by early authors such as W. Nylander, P. A. Karsten, E. A. Vainio and V. Räsänen. The present list was primarily prepared during the first author's two-week work in the herbarium in Helsinki (H) in August 2006. Apart from collections from Finland and former Finnish parts of Russia, many specimens from other parts of the world are also reported. Several new Finnish records from *Peltigera* spp. were also discovered but they will be published in forthcoming papers. Only species which are supposed to be new to a country or a province (or other comparable unit) are included. Some specimens could not be identified during the visit and will be treated later on. All the cited collections are preserved in Helsinki (H), if not otherwise mentioned.

The lichenicolous fungi in Russian areas adjacent to Finland in the east have been surveyed rather intensively. A new checklist of Russian lichenicolous fungi prepared by M. Zhurbenko (2007) is in press (the manuscript was available to us). He has recently published several papers on lichenicolous fungi in the Republic of Karelia or Murmansk and Leningrad Regions (e.g.,

Zhurbenko 2001, Zhurbenko & Himelbrant 2002, Zhurbenko & Alstrup 2004, Zhurbenko & Ahti 2005; see also Alstrup et al. 2005), and they also include some records from Finland.

In the list below the nomenclature of the host lichens mainly follows Santesson et al. (2004), if applicable.

Abrothallus bertianus De Not., on *Melanelixia* and *Melanohalea* spp.

Finland, Sompion Lappi. Sodankylä, U. K. Kekkonen National Park, Mt. Vongoiva, on *Melanohalea olivacea*, 1959 *Ahti* 12976a. – **Russia, Pskov Region.** Pechory Dist., Verkhulitsa, on *M. exasperata*, 1991 *Ahti et al.* 49757a. – **Mongolia.** Ulaanbaatar, Mt. Bogd Uul, on *Melanelixia fuliginosa* s. str., 1972 *Ahti* 29167b. – **U.S.A. California.** Siskiyou Co., Klamath River town, on *Melanohalea multispora*, 1984 *Ahti & Norris* 42760.

New to Sompion Lappi, Pskov Region, Mongolia, and California.

Abrothallus caerulescens Kotte, on *Xanthoparmelia stenophylla* (*X. somloënsis*).

Finland, Varsinais-Suomi. Korpo, Brunskär archipelago, Käringkläppen, 7.VII.1988 *Skult*; Lohja, Humppila, 3.VI.1892 *Boldt*. **Etelä-Häme.** Asikkala, Kalkkinen, Päsivuori, 1986 *Ahti* 45327.

New to Finland, but earlier cited under *Abrothallus parmiliarum*.

Abrothallus cetrariae Kotte, on *Platismatia glauca*.

Finland, Varsinais-Suomi. Korpo, Bemby, VIII.1870 *Elfvig*; Sammatti, Kirkonkylä, May 1964, *Takala*. **Pohjois-Savo.** Suonenjoki, Kutumäki, 1971 *Takala 7507a*. **Pohjois-Karjala.** Lieksa, Egypti, 1875 *Vainio*; Rautavaara, Pappilanmäki, I.X.1944 *Mannerkorpi*; Juuka, Polvela, Tahkovaara, 1971 *Takala 7516*; Nurmes, Savikylä, 1967 *Vitikainen 3606d*. – **Russia, Leningrad Region, Karelia australis.** Gogland, Lounatkorkia, VI.1870 *Brenner*. – **Canada, Newfoundland.** Placentia West Dist., Long Pond, 1956 *Ahti 6415*; St. George's Dist., South Branch Station, 1956 *Ahti 7629a*. **Nova Scotia.** Cape Breton Highlands National Park, Lake of Islands, 1965 *Scotter 6178c*.

New to Finland, Leningrad Region, Newfoundland, and Nova Scotia, but earlier often included in *Abrothallus parmeliarum*.

Abrothallus parmeliarum (Sommerf. : Fr.) Arnold, on *Parmelia* spp.

Russia, Sakha Republic. Namskiy Dist., near Arbyn on Lena River, on *P. sulcata*, 2002 *Ahti 61488a*. – **Mongolia.** Ulaanbaatar, Mt. Bogd Uul, on *P. saxatilis*, 1972 *Ahti 29116*. – **Canada, Newfoundland.** Grand Falls Dist., Sandy Lake, on *P. saxatilis*, 1956 *Ahti 8996a*.

New to Sakha Republic, Mongolia, and (presumably) Newfoundland.

Abrothallus peyritschii (Stein) Kotte, on *Vulpicida* spp.

Canada, Northwest Territories. Nahanni National Park, Virginia Falls, on *V. tilesii*, 1977 *Ahti 32481*. **Ontario.** Thunder Bay Dist., Slate Is., Patterson I., on *V. pinastri*, 1958 *Ahti 3976*. – **India, Himachal Pradesh.** Kinnaur Dist., Chitkul, 3900–4000 m, on *V. pinastri*, 2003 *Upreti et al. 03-002716a*.

New to N.W.T., Ontario, and India.

Abrothallus prodiens (Harm.) Diederich & Hafellner, on *Hypogymnia physodes*.

Finland, Pohjois-Savo. Suonenjoki, Kutumäki, 1971 *Takala 7507a*.

New to Finland, since the records cited in Santesson et al. (2004) proved to be incorrect or uncertain.

Arthonia peltigerina (Almq.) H. Olivier, on *Peltigera patagonica*.

Chile, Tierra del Fuego. Isla Grande, Río Caleta, 1986 *Stenroos 2259a* (with *Illosporium carneum*).

New to Chile.

Dactylospora protohallina (Anzi) Hafellner, on *Protopannaria pezizoides*.

Finland, Koillismaa. Kuusamo, Ylä-Aventojoki, 2.VII.1939 *Laurila*.

New to Finland.

Echinothecium reticulatum Zopf, on *Parmelia saxatilis*.

Finland, Etelä-Häme. Hollola, Vaania, Isovuori, 2003 *Haikonen 23126*; Asikkala: Kirkonseutu, 2003 *Haikonen 23148*.

New to Finland.

Epicladonia simplex D. Hawksw., on *Cladonia* cf. *merochlorophaea*.

Russia, Tuva Republic. Todginskaya Valley, State Reserve Azas, Azas Lake, 18.VIII.1997 *Otnyukova*.

New to Tuva Republic,

Homostegia piggottii (Berk. & Broome) P. Karst., on *Parmelia* spp.

Finland, Keski-Pohjanmaa. Kälviä, Peitso, on *P. saxatilis*, 1966 *Takala 136*. **Inarin Lappi.** Utsjoki, Kevo, Kotkapahta, on *P. saxatilis*, 1965 *Ahti 20916a*. – **Canada, Newfoundland.** Ferryland Dist., Tor's Cove WNW, on *P. omphalodes* s. str., 1956 *Ahti 2653*. – **India, Uttarakhand.** Chakrata, on *P. sp.*, 1949 *Awasthi 492*.

New to the Finnish provinces, Newfoundland, and India.

Karsteniomyces peltigerae (P. Karst.) D. Hawksw., on *Peltigera rufescens*.

Russia, Sakha Republic. Ust'-Aldanskiy Dist., Aldan River, mouth of Tumara River, 2002 *Ahti 61530*.

New to Sakha Republic.

Libertiella malmedyensis Speg. & Roum., on *Peltigera rufescens*.

USA, New Mexico. Bernalillo Co., Manzano Mts., 4 km NW of Escobosa, 2250–2300 m, 2001 *Ahti 60820a*.

New to New Mexico.

Lichenocodium cargillianum (Linds.) D. Hawksw., on *Melanohalea septentrionalis*.

Finland, Koillismaa. Kuusamo, NW shore of Toranjärvi, 1965 *Ahti 19076*.

New to Europe.

Lichenocodium lecanorae (Jaap) D. Hawksw., on *Lecanora symmicta* s. lat.

Finland, Koillismaa. Kuusamo, Lämsänkylä, Sänkelä, 1966 *Ahti 22752c*.

New to Koillismaa.

Lichenocodium usneae (Anzi) D. Hawksw., on *Cladonia uncialis*.

Finland, Etelä-Häme. Hollola, Vaania, Isovuori, 2003 *Haikonen 23137*.

New to Finland.

Lichenostigma arctoparmeliae R. Sant. (ined.), on *Arctoparmelia centrifuga*.

Finland, Etelä-Savo. Kangasniemi, Puula, Iso Paatsalo, Korppivuori, 2004 *Haikonen 23637b*.

New to Finland (cf. Santesson et al. 2004: 194).

Lichenostigma cosmopolites Hafellner & Calatayud, on *Xanthoparmelia stenophylla*.

Finland, Åland. Jomala, Västansunda, Degerberget, 6.V. 1940 *Fagerström*. **Varsinais-Suomi.** Korpo, Brunskär Island, 18.V. 1986 *Skult*.

New to Finland.

Merismatium nigrtellum (Nyl.) Vouaux, on *Nephroma arcticum*.

Finland, Pohjois-Savo. Pieksämäki, Jäppilä, Ruuhilampi, Kontiovuori, 2002 *Haikonen 21396*.

New to Finland.

Muellerella lichenicola (Sommerf. : Fr.) D. Hawksw., on *Caloplaca* spp.

Finland, Etelä-Savo. Taipalsaari, Karhupää, Kallioniemi, on *C. holocarpa* (*C. pyracea*), 1991 *Vitikainen 12410*. **Koillismaa.** Kuusamo, Virkkula, Mt. Konttainen, on *C. borealis*, 1980 *Ahti 38143*.

New to Finland.

Neolamya peltigerae (Mont.) Theiss. & Syd., on *Peltigera rufescens*.

Russia, Khabarovsk Territory. Ul'chskiy Dist., Sofijsk, 1976 *Alanko 31685*.

New to Khabarovsk Territory.

Phacopsis cephalodioides (Nyl.) Triebel & Rambold, on *Hypogymnia vittata*.

Finland, Inarin Lappi. Inari, Seävnulvaara (8 km NE of Menesjärvi), 1970 *Vitikainen 6406b*.

New to Finland.

Phacopsis oxyspora (Tul.) A. Massal., on *Melanohalea olivacea*.

Finland, Inarin Lappi. Utsjoki, Kevo Nature Park, Linkkapahta, 1965 *Laine & Ahti 20961b*.

New to Inarin Lappi.

Phaeopyxis punctum (A. Massal.) Rambold, on *Cladonia* spp (unidentified squamules).

Finland, Etelä-Häme. Iitti, Sitikkala, Kautionvuori, 1997 *Haikonen 18950*. **Pohjois-Häme.** Saarijärvi, Pyhähäkki National Park, 1960 *Vitikainen 2182*.

New to Etelä-Häme and Pohjois-Häme.

Phaeospora peltigericola D. Hawksw., on *Peltigera rufescens*.

Canada, Alberta. Peter Lougheed Provincial Park, Kananaskis Lake region, 1700–2075 m, 1986 *Scotter 60778*.

New to Alberta.

Sphaerellothecium minutum Hafellner, on *Sphaerophorus globosus*.

Argentina, Tierra del Fuego. Depto. Río Grande, 7 km SE of Estancia Río Apen, 1989 *Ahti 47822a* (H, UPS).

New to Argentina.

Stigmidium ephebes (Henssen) D. Hawksw., mostly on *Ephebe lanata*.

Finland, Åland. Lemland, Lemböte, 1923 *Kari*. **Varsinais-Suomi.** Pargas, 1910 *Linkola*; Naantali, 1937 *Häyrén*. **Uusimaa.** Helsinki, 1895 *Häyrén*; Helsinki, Isosaari, 1927 *Linkola*. **Pohjois-Häme.** Jyväskylä, Kanaavuori, 1933 *Häyrén*. **Inarin Lappi.** Inari, Kaamasjoensuu, on *E. hispidula*, 1877 *Silén*. – **Russia, Leningrad Region. Karelia australis.** Gogland, Maahellinkallio, 1868 *Brenner*. **Karelian Republic, Karelia ladogensis.** Kurkijoki, Heposaari, 1932 *Räsänen*.

New to the Finnish provinces, Leningrad Region and Karelian Republic. It is often overlooked that in the protologue of *S. ephebes* (Henssen 1963) the species was also reported from the Czech Republic (Sudetic Mts.) through citation of Kerner, Fl. Exs. Austro-Hung. No. 3535, though the country is lacking in Henssen's list.

Stigmidium solorinarium (Vain.) D. Hawksw., on *Solorina saccata*.

Finland, Etelä-Häme. Heinola, Mäyrämäki, 2002 *Haikonen 21331*. **Enontekiön Lappi.** Enontekiö, Kilpisjärvi, Saana, 1955 *Henssen Le 510a*.

New to Finland.

Syzygospora bachmannii Diederich & M. S. Christ., on *Cladonia* spp.

Finland, Inarin Lappi. Utsjoki, Utsjoki village, on Tana River, on *C. gracilis* subsp. *elongata*, 1959 *Ahti 12283*. – **Russia, Leningrad Region, Karelia australis.** Vyborg District, Primorsk (Koivisto), 1851, Nylander; Sovetskiy – Landyshevka ("St. Johannes, Kyrkobyn – Kirjola"), 1893 *Boldt*.

New to Inarin Lappi and Leningrad Region.

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