

Myxomycetes of Russia: a history of research and a checklist of species

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Abstract

The main objective of this paper is to provide an overview of the history and the level of research on biodiversity of myxomycetes in Russia. The first doubtless mention of myxomycetes in Russia dates back to the 18th century. Since then, numerous studies on myxomycete diversity in different regions of Russia have been published. Yu.K. Novozhilov summarized all accumulated data by publishing a list of 304 species in 2005. However, new data on species diversity, biogeography, and ecology of myxomycetes have been published in recent years. Recent research aims to fill this gap. This paper includes 321 sources, including studies published after 2005 and several works absent in previous reports. A full list of 455 myxomycete species found in Russia includes references to all literature sources. The analyzed database consists of more than 14 600 records in the “publication-region-species” format. Additionally, our research includes a detailed historical overview of the myxomycete studies in Russia. We hope that our information system, also available online at <https://russia.myxomycetes.org/>, will create a solid foundation for future studies of myxomycete biodiversity in Russia, particularly in the understudied regions.

Introduction

An assessment of myxomycete species diversity in Russia is especially relevant due to its vast territory with various landscapes and terrestrial biomes such as tundra, taiga, broad-leaved forests, dry and wet subtropics, steppes, and deserts. It should be noted that myxomycete studies of these biomes in Russia are still restricted to a limited number of sites (Novozhilov 2005). However, many new data on species diversity, biogeography, and ecology of myxomycetes have been published in recent years. These studies are based on the herbarium collections of myxomycete fruiting bodies (sporocarps) collected over decades in the field and/or obtained using the moist chamber culture technique, as well as on data from metagenomic analyses, a method that has lately been used to reveal the hidden diversity of myxomycetes (Shchepin et al. 2017, 2019a,b).

Our study aims to analyze the myxomycete distribution in Russia based on all available bibliographic sources and compile an exhaustive list of species found in each region accompanied by a reference base of the sources used.

We did not aim to perform a full critical revision of all available literature sources on myxomycete biodiversity, since it would demand additional efforts. This list was compiled to aid scientists in searching for the required bibliographic sources, as well as to save some lesser-known works from “scientific oblivion”. We also urge all researchers to refer to the indicated primary sources in order to avoid spreading possible mistakes that are almost inevitable in large biodiversity reviews like this.

Myxomycete studies in Russia

The earliest mention of myxomycetes in the territory of modern Russia might probably belong to the German botanist, Johannes Loeselius. His works considering plants of Prussia, which part has become the Kaliningrad region, included a brief description on the taxon *Fungus non vescus* XXXI

(Loeselius 1654, 1703), that might have actually been *Lycogala epidendrum* (Rostafiński 1874).

The first report of myxomycete collection in the territory of modern Russia in 18th century was made by Johann Christian Buxbaum (head of the Apothecary Garden in St. Petersburg), who worked at the Russian Academy of Sciences in 1721–1729 and provided the first fairly accurate description of the St. Petersburg Governorate flora. His work (Buxbaum 1740) included an illustration of *Lycoperdon sanguineum sphaericum* (*Lycogala epidendrum* (L.) Fr.), although the location was not indicated for this specimen. The next mention of myxomycetes was discovered in the manuscript of Stepan Krasheninikov *Flora ingrica*, which was edited and published in 1761 by David de Gorter. In this publication, he noted two species: *Mucor embolus* L. (presumably a species of *Arcyria* or *Stemonitis*) and *Lycoperdon epidendrum* L. (*Lycogala epidendrum* (L.) Fr.), collected in the vicinity of St. Petersburg (Gorter 1761). In 1799, the Russian botanist Grigory Fedorovich Sobolewski published *Flora Petropolitana*, where he reported 13 myxomycete species for the Petersburg Governorate, although it is impossible to provide reliable modern synonyms for six of these species (Sobolewski 1799, 1802; the second publication includes the same material, but in Russian). There are only a few reports of myxomycetes in 18th-century floristic publications (Pallas 1771, 1773, 1788, 1794; Falk 1786; Georgi 1790, 1800; Stephan 1792). These studies can be referred to as a starting point for the study of myxomycete diversity in Russia.

In the 19th and early 20th centuries, at least 30 publications included data on myxomycetes. These studies covered the vicinity of Moscow (Martius 1817; Bucholtz 1897; Heyden 1899; Hennings 1903, 1904, 1906; Dokturovskiy 1905; Mosolov 1906) and St. Petersburg (Weinmann 1836; Rosanoff 1868; Rostafiński 1874, 1875; Grimm 1896), as well as Smolensk (Jaczewski 1893, 1895), Kaluga (Rostafiński 1874), Chernigov¹ (Borščow 1869), Novgorod (Tranzschel 1901), Ufa (Schell 1883) and Kazan Governorates (Shiliakow 1889), North Caucasus (Hollós 1902, 1905; Filarszky 1907), Samland (now a part of the Kaliningrad region) (Hennings 1895), Eastern Lapland (Karsten 1882), Crimea (Léveillé 1842), Si-

¹ Chernigov Governorate included a large section of the modern Bryansk region

beria (Thümen 1878, 1880a,b, 1881; Saccardo 1880), and Transbaikalia (Karsten 1906).

In 1907, Arthur Arthurovich Jaczewski published the first monograph in Russian devoted exclusively to slime molds (Jaczewski 1907). In this work, he compiled the results of previous researchers and provided a list of more than 100 species of slime molds with identification keys. Additionally, a large section of this monograph focused on various aspects of slime mold biology. This substantial publication remained the most important and, in fact, the only comprehensive source of data on myxomycetes in Russia for 86 years, until 1993.

Before the 1980s, fewer than 20 studies were published that included information on the diversity of myxomycetes. These publications addressed the myxomycete biota of the Northern European Russia (Lebedeva 1933), the former territories of Finland, that are now part of the Leningrad and Murmansk regions (Hintikka 1919), the territories of modern Nizhny Novgorod region (Murashkinskiy 1911; Javronkova 1914), the Kursk and the Belgorod regions (Benike 1915), Siberia (Lavrov 1927, 1929, 1931; Killermann 1943; Beglianova & Kattsyna 1973; Petrenko 1978; Eliasson & Lundqvist 1979), Kamchatka (Tranzschel 1914), and the southern Far East (Naoumoff 1914; Bunkina & Koval 1967; Bunkina 1978).

The first annual myxomycete surveys in Russia took place during student summer field courses at the Zvenigorod Biological Station of the Lomonosov Moscow State University. There T.P. Sizova began research on the myxomycete species composition of the Moscow region in the 1960s. Later, in the 1990s, such studies were conducted under the guidance of T.N. Barsukova, and since 2010 V.I. Gmshinskiy has been doing the research (Abramov et al. 2014; Adashev et al. 2014; Barsukova & Dunayev 1997; Barsukova et al. 2012; Belyaeva et al. 2017; Gerasimovich et al. 2014; Gluhareva et al. 2017; Sizova et al. 1983; Sizova & Titova 1985; etc.).

Starting from 1980, myxomycetes in different regions of the RSFSR (republic of the USSR, that currently comprises the most part of Russia) have been studied at the Komarov Botanical Institute of the Russian Academy of Sciences (Novozhilov 1980a,b, 1981a,b, 1984, 1985a,b, 1986a,b,c, 1987, 1988; Novozhilov & Krussanova 1989). As a result, based on the extensive collections and the compilation of

bibliographic sources, Yu.K. Novozhilov published an identification key for myxomycetes of Russia (Novozhilov 1993). This monograph remains thus far the main guide to myxomycete identification in Russia. The identification key contains information on 232 species, which only amounts to approximately 50% of the total number of species currently known in Russia. Additionally, the moist chamber culture technique (Novozhilov et al. 2000) has become a common technique of myxomycete species diversity studies. These studies and publications have stimulated interest in the field of myxomycete research in Russia. As a result, eight Ph.D. dissertations on myxomycete biodiversity were written within the last two decades.

A scientific community of researchers studying taxonomy, ecology, phylogeny, and biogeography of myxomycetes has formed in different regions of Russia. The researchers currently involved in the study of the myxomycete diversity in Russia are Yu.K. Novozhilov, O.N. Shchepin, I.S. Prikhodko, and N.A. Fedorova (St. Petersburg); M. Schnittler (Greifswald, Germany); V.I. Gmshinskiy, A.V. Matveev, F.M. Bortnikov, N.I. Borzov, E.S. Gubanov, and A.A. Soldatenkova (Moscow); I.V. Zemlyanskaya (Volgograd); A.V. Vlasenko and V.A. Vlasenko (Novosibirsk); A.A. Shirokikh (Kirov); A.N. Lebedev (Tver); G.M. Melkumov (Voronezh); A.D. Luptakova and E.S. Korchikov (Samara); and V.N. Botyakov (Krasnodar territory). Most researchers actively collaborate and participate in joint projects throughout the country.

Collections of myxomycetes in Russia

Herbarium collections serve as one of the main tools for taxonomic, environmental, floristic, or faunistic work (Carine et al. 2018). In recent years characterized by rapid, often dramatic environmental and biodiversity changes, proper biological collections have become particularly valuable.

Traditionally, the main purpose of herbaria was to obtain data on the morphology and distribution of the deposited species, as well as to provide a retrospective view on the biodiversity of different regions. Herbaria also made it possible to restudy the

stored collections in order to increase the objectivity and therefore the value of the previously obtained results. At present, herbarium collections have increased in importance since they are essential sources of reference specimens of morphological species. Reference specimens are used to create libraries of marker gene sequences as a precondition for DNA barcoding (Schnittler et al. 2017).

Current estimates suggest there are at least 13 myxomycete collections in Russia. Most of them are stored in various institutions, although there are a number of private collections. At the present moment, there are 25 type specimens including 16 holotypes (13 of them are stored in LE and 6 of them – in NSK) (see Table 1). There is a lack of information on location and condition of *Trichia brevicapillata* Sizova, Titova & Darakov type specimens, that have been described in the Moscow region, and 10 taxa described by N.N. Lavrov from the vicinity of Tomsk.

In all major Russian collections myxomycete specimens are mainly stored in match boxes or occasionally in envelopes. They are situated on shelves and in herbarium cabinets in dry places without any specific conditions. In order to prevent damaging by insects some specimens undergo the procedure of preliminary freezing; in LE many specimens are isolated into individual plastic zip-lock bags to prevent the spread of insects and cross-contamination. Part of the specimens kept in the LEP herbarium have been treated with mercuric chloride.

As it was mentioned above, interest in the study of myxomycetes in Russia has grown considerably over the past 30 years, which led to the appearance of new collections in different parts of the country. The following data were obtained from a survey of collection curators. It is possible that some collections were missed during the compilation of the list.

In order to study specimens from any collection, one should contact curators of herbaria and discuss each separate inquiry.

Myxomycete collection at the Mycological Herbarium of Komarov Botanical Institute, St. Petersburg (LE)

Year of establishment: 1898. Estimated volume (specimens / different morphospecies): 30000/>300. Main regions: Belgorod, Irkutsk, Kursk, Lenin-

grad, Moscow, Murmansk, Novosibirsk, Orenburg, Pskov, Sverdlovsk, Tver, Volgograd, and Voronezh regions; republics of Adygea, Crimea, Kalmykia, Karachay-Cherkessia, Karelia, and North Ossetia–Alania; Altai, Kamchatka, Krasnoyarsk, Primorye, and Trans-Baikal territory; Chukotka autonomous area. Curator of the herbarium: Olga Viktorovna Morozova (OMorozova@binran.ru), curator of the myxomycete collection: Yuri Kapitonovich Novozhilov (yurinovozhilov@gmail.com). Link and references: <https://www.binran.ru/collections/>, Novozhilov 1983, 2007–2020. Major contributions to the collection were made by D.A. Erastova, V.I. Gmshinskiy, A.A. Jaczewski, A.P. Kosheleva, Yu.A. Morozova, Yu.K. Novozhilov, I.S. Prikhodko, N.A. Fedorova, M. Schnittler, O.N. Shchepin, A.V. Vlasenko, I.V. Zemlyanskaya and others.

Myxomycete collection at the Department of Mycology and Algology, Lomonosov Moscow State University (MYX)

Year of establishment: 2009. Estimated volume (specimens / different morphospecies): 16000/300. Main regions: Moscow, Samara, Tver, and Vladimir regions. Extensive collections represent Southern (Republic of Dagestan, Krasnodar territory) and Northern (Republic of Karelia, Murmansk region) Russia. Particularly valuable specimens were collected from the Russian Far East (Primorye territory). Curator: Vladimir Ivanovich Gmshinskiy (rubisco@list.ru). Link and references: <https://micro.depo.msu.ru>, Gmshinskiy & Matveev 2017; Gmshinskiy et al. 2011, 2018a. Major contributions to the collection were made by M.F. Akimova, A.V. Alexandrova, E.I. Andronova, T.N. Barsukova, F.M. Bortnikov, V.N. Botyakov, N.Yu. Buchtoyarova, E.N. Vinogradskaya, V.I. Gmshinskiy, E.S. Gubanov, N.I. Kireeva, A.D. Luptakova, A.V. Matveev, A.A. Mishulin, V.P. Prokhorov, T.P. Sizova, A.A. Soldatenkova.

Myxomycete collection of K.A. Fefelov, donated to the Museum of the Institute of Plant and Animal Ecology, the Ural Branch of the Russian Academy of Sciences

Year of establishment: 1999. Estimated volume (specimens): 8364. Main regions: Astrakhan, Che-

Table 1. List of type specimens that are stored in Russian collections.

Species	Voucher	Status	Notes
<i>Comatricha spinispora</i> Novozh. & D.W. Mitch.	LE 286575	Holotype	
<i>Cribraria bicolor</i> S. L. Stephenson, Novozh. & P. Wellman	LE 317311	Isotype	
<i>Dianema mongolicum</i> Novozh.	LE 46251	Holotype	There are two intact plasmodiocarps left.
<i>Diderma cattiense</i> Novozh. & D.W. Mitch.	LE 286673	Holotype	
<i>Diderma dalatense</i> Novozh., Prikhodko & Shchepin	LE 317550	Holotype	
<i>Diderma pseudotestaceum</i> Novozh. & D.W. Mitch.	LE 291396	Holotype	
<i>Diderma velutinum</i> Bortnikov	LE 318752	Holotype	
<i>Diderma velutinum</i> Bortnikov	MYX 8240	Isotype	
<i>Diderma velutinum</i> Bortnikov	LE 318753	Paratype	
<i>Didymium reticulosporum</i> Novozh. & Zemly.	LE 220327	Holotype	There was the wrong specimen number given in the publication (Novozhilov & Zemlianskaya, 2006); it should be LE220327 instead of LE204007.
<i>Didymium reticulosporum</i> Novozh. & Zemly.	LE 253367	Paratype	
<i>Didymium reticulosporum</i> Novozh. & Zemly.	LE 253362	Paratype	
<i>Echinostelium microsporum</i> A. Vlasenko	NSK 1026149	Holotype	
<i>Echinostelium microsporum</i> A. Vlasenko	NSK 1026127	Paratype	
<i>Echinostelium novozhilovii</i> A. Vlasenko	NSK 1026069	Holotype	
<i>Macbrideola vesiculifera</i> Novozh.	LE 46028	Holotype	
<i>Perichaena heterospinispora</i> Novozh., Zemly., Schnittler & S. L. Stephenson	LE 253366	Holotype	
<i>Perichaena polygonospora</i> Novozh., Zemly., Schnittler & S. L. Stephenson	LE 253364	Holotype	
<i>Perichaena taimyriensis</i> Novozh. & Schnittler	LE 204007	Holotype	
<i>Physarum australiense</i> S. L. Stephenson, Novozh. & Prikhodko	LE 327851	Holotype	
<i>Stemonitis pseudoflavogenita</i> A. Vlasenko & Novozh.	NSK 1026501	Holotype	
<i>Stemonitis pseudoflavogenita</i> A. Vlasenko & Novozh.	LE 319201	Isotype	
<i>Stemonitis pseudoflavogenita</i> A. Vlasenko & Novozh.	NSK 1026481	Paratype	
<i>Stemonitis pseudoflavogenita</i> A. Vlasenko & Novozh.	NSK 1026499	Paratype	
<i>Trichioides iridescens</i> Novozh., Hooff & Jagers	LE 266526	Holotype	

lyabinsk, Kaliningrad, Kirov, Kurgan, Novosibirsk, Orenburg, Perm, Pskov, Sakhalin, Sverdlovsk, Tyumen, and Volgograd regions; Altai, Kamchatka, Khabarovsk, Krasnodar, and Primorye territories; republics of Altai, Bashkortostan, Buryatia, Crimea, Kabardino-Balkaria, Komi, North Ossetia – Alania; Chukotka autonomous area. Curator: Alexandr Anatolievich Vorobyov (eng@ipae.uran.ru). Note: K.A. Fefelov personally donated his collection to the museum in 2016 and 2017; it was designated as a separate “author’s collection”.

Personal collection of
I.V. Zemlyanskaya
(Volgograd)

Year of establishment: 1999. Estimated volume (specimens): 6000. Main regions: Republic of Tatarstan; Astrakhan, Moscow, Samara, Tula, and Volgograd regions. Curator: Inna Vladimirovna Zemlyanskaya (ignis@list.ru). Notes: most specimens collected by I.V. Zemlyanskaya are stored in the Myxomycetes Collection at the V.L. Komarov Botanical Institute (LE); however, some specimens, which are labeled but not identified, remain in the personal collection. Nevertheless, data on the specimens are included in the general database with unique collection numbers. After identification, the materials are transferred to the Botanical Institute of the Russian Academy of Sciences for permanent storage.

Myxomycete collection
of the Central
Siberian Botanical
Garden Herbarium (NSK)

Year of establishment: 2007. Estimated volume (specimens / different morphospecies): 4000/210. Main regions: Khanty-Mansi autonomous area; Novosibirsk, Omsk, Tomsk, and Yaroslavl regions; Altai, Buryatia, Sakha, and Tyva republics; Altai, Krasnodar, and Trans-Baikal territories. Curator: Anastasia Vladimirovna Vlasenko (anastasiamix81@mail.ru). Link: https://csbg-nsk.ru/unu_herbarium. Note: in addition to personal collections of A.V. Vlasenko and V.A. Vlasenko, it includes N.N. Lavrov’s material (1916–1930) from the Tomsk Governorate.

Fungarium of All-Russian Institute of
Plant Protection (LEP)

Year of establishment: 1891. Estimated volume (specimens / different morphospecies): 2000/>150. Curator: Maria Mikhailovna Gomzhina (gomzhina91@mail.ru). Reference: Berestetskaya et al. 2012. Note: the collection is currently undergoing a critical revision.

Myxomycete collection of the Young
Naturalists Club of Zoological Museum of
Lomonosov Moscow State University

Year of establishment: 1992. Estimated volume (specimens / different morphospecies): 1700/140. Main regions: Moscow, Tver, and Tyumen regions. Contains a significant number of specimens from Irkutsk, Murmansk, and Ryazan regions, as well as Primorye territory. Curators: Evgeny Anatolievich Dunayev (dunayeve@mail.ru), Vladimir Ivanovich Gmoshinskiy (rubisco@list.ru). References: Dunayev & Barsukova 2002; Gmoshinskiy et al. 2018, 2020; Gmoshinskiy & Matveev 2018. Major contributions to the collection were made by O.M. Germant, N.N. Kotelenets, E.A. Dunayev, T.N. Barsukova, V.I. Gmoshinskiy.

Myxomycete collection of the Department
of Ecology, Botany and Nature Protection,
Faculty of Biology, Samara University

Year of establishment: 2012. Estimated volume (specimens / different morphospecies): 700/100. Main regions: Samara and Orenburg regions. Curators: Evgeny Sergeevich Korchikov (evkor@inbox.ru) and Anna Dmitrievna Luptakova (annaloseva3545@gmail.com).

Myxomycete collection of the herbarium of
the Botanical Garden of Tver State University
(TVBG)

Years of establishment: 1965–1967. Estimated volume (specimens / different morphospecies): 600/141. Main regions: Moscow, Pskov, and Tver regions. Curator: Alexandr Nikolaevich Lebedev (rumat@inbox.ru). Link: garden.tversu.ru.

Table 2. List of federal subjects of the Russian Federation and number of the reported myxomycete species and related publications.

Federal subject		Number of species	Period of study	Total number of publications / journal articles
Code	Name			
AD	Republic of Adygeya	2	2002–2005	2/1
AL	Republic of Altai	165	1929–2020	15/12
ALT	Altai territory	170	1931–2020	21/15
AMU	Amur region	1	1907	1/0
ARK	Arkhangelsk region	8	1933–2002	2/2
AST	Astrakhan region	104	1907–2020	19/10
BA	Republic of Bashkortostan	105	1883–2010	6/2
BEL	Belgorod region	5	1915	1/1
BRY	Bryansk region	28	1869–2015	5/1
BU	Republic of Buryatia	27	1993–2017	4/3
CE	Chechen Republic	3	1902–2005	5/2
CHE	Chelyabinsk region	81	1907–2009	5/2
CHU	Chukotka autonomous area	50	1986–2005	7/5
CR	Sevastopol and Republic of Crimea	145	1842–2020	21/16
CU	Chuvash Republic	2	1907	1/0
DA	Republic of Dagestan	33	1902–2017	4/3
IN	Republic of Ingushetia	–	–	–
IRK	Irkutsk region	34	1979–2020	4/3
IVA	Ivanovo region	1	2005	1/0
KAM	Kamchatka territory	41	1914–2017	4/0
KB	Kabardino-Balkarian Republic	1	1907	1/0
KC	Karachay-Cherkess Republic	48	1902–2016	17/10
KDA	Krasnodar territory	105	1907–2020	13/8
KEM	Kemerovo region	1	1943	1/1
KGD	Kaliningrad region	6	1895	1/1
KGN	Kurgan region	2	1907–2002	2/1
KHA	Khabarovsk territory	44	2005–2020	3/2
KHM	Khanty-Mansi autonomous area – Yugra	87	1999–2019	7/3
KIR	Kirov region	62	2009–2019	18/2
KK	Republic of Khakassia	10	1878–1881	5/5
KL	Republic of Kalmykia	26	2003–2014	7/4
KLU	Kaluga region	41	1874–2020	5/3
KO	Komi Republic	114	2002–2019	5/2
KOS	Kostroma region	9	1907–2005	2/0
KR	Republic of Karelia	149	1882–2020	17/13
KRS	Kursk region	59	1907–2014	8/5
KYA	Krasnoyarsk territory	152	1878–2014	29/16
LEN	St. Petersburg and Leningrad region	193	1761–2019	34/18

LIP	Lipetsk region	67	1907–2005	3/0
MAG	Magadan region	49	2000–2019	3/1
ME	Republic of Mari El	2	1907	1/0
MO	Republic of Mordovia	1	1907	1/0
MOS	Moscow and Moscow region	252 (229*)	1792–2020	33/18
MUR	Murmansk region	110	1882–2020	18/13
NEN	Nenets autonomous area	–	–	–
NGR	Novgorod region	11	1907–2005	2/0
NIZ	Nizhny Novgorod region	15	1771–2005	8/1
NVS	Novosibirsk region	138	2001–2020	19/14
OMS	Omsk region	–	–	–
ORE	Orenburg region	50	1907–2009	5/1
ORL	Oryol region	14	2005–2019	2/0
PER	Perm territory	74	2005	2/0
PNZ	Penza region	2	1907–2005	2/0
PRI	Primorye territory	189	1914–2020	12/10
PSK	Pskov region	78	1907–2020	8/4
ROS	Rostov region	72	1907–2014	7/3
RYA	Ryazan region	48	1907–2020	5/2
SA	Republic of Sakha (Yakutia)	26	1978–2019	5/1
SAK	Sakhalin region	14	2005–2015	2/1
SAM	Samara region	44 (43*)	1907–2019	6/0
SAR	Saratov region	11	1907–2005	2/0
SE	Republic of North Ossetia – Alania	5	2002–2005	2/1
SMO	Smolensk region	77	1893–2005	4/2
STA	Stavropol territory	27	1902–2014	7/3
SVE	Sverdlovsk region	195	1907–2014	25/7
TA	Republic of Tatarstan	45	1889–2005	3/1
TAM	Tambov region	2	1907–2005	2/0
TOM	Tomsk region	65	1927–2005	7/3
TUL	Tula region	–	–	–
TVE	Tver region	207	1901–2020	26/12
TY	Republic of Tuva	15	2020	1/0
TYU	Tyumen region	84	1907–2020	4/2
UD	Udmurtian Republic	–	–	–
ULY	Ulyanovsk region	5	1907–2005	2/0
VGG	Volgograd region	173	1907–2018	35/15
VLA	Vladimir region	40	1997–2020	6/3
VLG	Vologda region	6	1907–2005	2/0
VOR	Voronezh region	67	1907–2018	12/5
YAN	Yamal-Nenets autonomous area	38	1998–2005	6/3
YAR	Yaroslavl region	8	1907–2020	5/3
YEV	Jewish autonomous region	–	–	–
ZAB	Trans-Baikal territory	27	1906–2019	5/3

* Number of species without doubtful records (marked with ^{DR} in the annotated species list).

Myxomycete collection of the Club of Young Nature Researchers, Faculty of Biology, Lomonosov Moscow State University

Year of establishment: 2005. Estimated volume (specimens / different morphospecies): 350/50. Main regions: Kirov and Moscow regions; republics of Buryatia, Mordovia, and Tyva; Primorye territory. Curator: Anna Sergeevna Khizhnyakova (zbs_school@mail.ru). Major contributions to the collection were made by the students of the Club of Young Nature Researchers and by A.S. Khizhnyakova.

Myxomycete collection of the Kozo-Polyansky Herbarium of Voronezh State University (VOR)

Year of establishment: 2017. Estimated volume (specimens / different morphospecies): 150/>50. Main regions: Bryansk, Lipetsk, Moscow, Oryol, Ryazan and Voronezh regions. Curator: Gavriil Mikhailovich Melkumov (agaricbim86@mail.ru). Link: <http://herbarium.bio.vsu.ru>.

Myxomycete collection of the N.V. Rudnitsky Federal Agrarian Scientific Center of the North-East

Year of establishment: 2016. Estimated volume (specimens / different morphospecies): 45/40. Main region: Kirov region. Curator: Alexandr Anatolievich Shirokikh (aleshirokikh@yandex.ru).

Myxomycete collection of the Herbarium of Federal Scientific Center of the East Asia Terrestrial Biodiversity, Far Eastern Branch of the Russian Academy of Sciences (VLA)

The authors reported (Bunkina & Koval 1967) that the specimens they examined were stored in the Laboratory of Sporophytes, Biological Institute of the Far Eastern Branch, Siberian Department of the USSR Academy of Sciences (VLA). However, the fate of the collection is currently unknown.

Annotated list of species

To compile the following annotated list of myxomycetes in Russia, we used 321 literature sources published from 1761 to 2020, among them 164 journal articles, 84 conference reports, 28 book sections, 25 books, 12 dissertations, 5 student works, and 3 nature reserves annual reports. Most of these works (215) were published in Russian; 66 in English, 17 in German (4 of these in German and Latin), 8 in Latin, 8 in French, 4 in Ukrainian, 2 in Polish, and 1 in Hungarian. Our database contains more than 14 600 records in “publication-region-species” format.

Myxomycete species names are given in accordance with Lado (2005–2020). In addition, we tend to regard *Trichia ovalispora* Hollós as a possible synonym of *T. varia* (Pers. ex J.F. Gmel.) and not as a synonym *T. contorta* (Ditmar) Rostaf. Pers. based on the author’s drawing cited in Filarszky (1907).

The regions where a species was found (see **Table 2** for the region abbreviations) and the numbers of studies that include reports of the species in this region are provided after the species name. Besides, we incorporated the cities of federal significance (Moscow, Saint Petersburg, and Sevastopol) as parts of the corresponding federal subjects: Moscow and Leningrad regions, and the Republic of Crimea, respectively.

Some older studies refer to outdated administrative units, like governorates. In such cases, we have given all modern regions that include the territories of obsolete regions as possible locations of recorded species occurrence. For example, for a species recorded from the Pskov Governorate without giving a specific location, we have cited Pskov, Novgorod, and Tver regions as the respective areas. Entries containing such controversial findings that cannot be assigned to a modern administrative unit with certainty are marked with ^{OAU} in superscript. Entries of species, that caused some doubts during primary identification, are marked with the corresponding superscripts: ^{CF}, ^{AFF}, ^{AGG}. There are questions (Gmoshinskiy 2013, Luptakova 2019) about the accuracy of some reports considering a few species in Moscow and Samara regions. Such species records are marked with ^{DR} (dubious record). The annotated list also uses the superscripts ^{IG} (imprecise georeferencing) and ^{DS} (doubtful synonymy).

Amaurochaete atra (Alb. & Schwein.) Rostaf. – **BRY**: 16, 101^{0AU}; **CR**: 148; **KR**: 130; **LEN**: 101, 182, 183, 195, 198, 212, 237, 323; **MOS**: 7, 66; **SMO**: 99, 100, 101, 198; **STA**: 198; **SVE**: 40, 41, 48, 50, 198, 201, 212; **TVE**: 84; **VGG**: 198, 220, 223, 284, 328; **VLA**: 173.

Amaurochaete tubulina (Alb. & Schwein.) T.Macbr. – **BU**: 198; **KHM**: 47, 58; **KIR**: 108, 265; **MOS**: 6, 66, 198, 278; **TYU**: 198^{IG}.

Arcyodes incarnata (Alb. & Schwein.) O.F.Cook – **AL**: 134, 215; **ALT**: 301, 308, 317; **CHE**: 50, 198; **CHU**: 196, 198, 210, 212, 290; **KHA**: 84; **KO**: 50, 198; **KYA**: 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 89, 101, 183, 195, 198, 199, 212, 237; **MOS**: 7, 9, 66, 70, 84, 164, 198; **MUR**: 196, 198, 205, 210, 212, 290; **NGR**: 101^{0AU}; **PRI**: 21; **PSK**: 101^{0AU}; **ROS**: 198, 220, 223; **SVE**: 50, 51, 198; **TA**: 101, 262; **TOM**: 132, 198; **TVE**: 19, 76, 136, 141, 198, 204; **VGG**: 157, 198, 212, 220, 223, 328, 336.

Arcyria affinis Rostaf. – **ALT**: 301, 308; **AST**: 198, 220, 223, 327, 328, 333; **BA**: 50, 198; **CR**: 84, 244; **DA**: 162; **KDA**: 68, 84; **MOS**: 1, 7, 11, 63, 64, 66, 70, 84, 164, 198; **MUR**: 84; **PRI**: 69, 74, 84, 218; **PSK**: 73; **SVE**: 49, 50, 198; **TVE**: 19, 76, 84, 136, 141, 198; **TYU**: 84; **VLA**: 173.

Arcyria cinerea (Bull.) Pers. – **AL**: 3, 134, 191, 214, 215; **ALT**: 215, 299, 301, 302, 306, 308, 310^{IG}, 315, 316, 317; **AST**: 213, 220, 221, 222, 223, 327, 328, 333; **BA**: 46, 50, 54; **BRY**: 101^{0AU}; **CHE**: 50, 53; **CHU**: 196, 198, 210, 212, 290; **CR**: 30, 192, 241, 242, 243, 244; **IRK**: 84; **KDA**: 68, 78, 192, 198; **KHM**: 47, 52, 58; **KIR**: 14, 108, 263, 264, 265, 268, 272, 274, 275, 276, 291; **KLU**: 101; **KO**: 50, 270; **KR**: 130, 212, 254; **KRS**: 5, 185; **KYA**: 103, 116, 118, 120, 121, 122, 123, 124, 129, 196, 198, 210, 211, 212, 290; **LEN**: 89, 101, 161, 180, 182, 183, 195, 199, 212, 237, 323; **LIP**: 252; **MAG**: 290; **MOS**: 1, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 101, 159, 160, 164, 278; **MUR**: 65, 84, 196, 205, 210, 212, 290; **NVS**: 301, 308, 310^{IG}; **ORE**: 50, 53, 202; **ORL**: 168; **PER**: 50; **PRI**: 21, 22, 69, 74, 84, 198, 218; **PSK**: 73; **ROS**: 147, 220, 223, 335; **SA**: 288; **SAK**: 198; **SAM**: 153, 156; **SMO**: 99, 100, 101^{0AU}; **STA**: 101; **SVE**: 40, 41, 42, 44, 45, 46, 49, 50, 51, 53, 201, 212, 236; **TA**: 101, 262; **TOM**: 132; **TVE**: 19, 76, 84, 101^{0AU}, 136, 141, 142, 165, 166, 179, 180, 182, 204; **TY**: 304; **TYU**: 84; **VGG**: 110, 157, 212, 220, 223, 281, 283, 284, 285, 328, 332, 336, 338; **VLA**: 173; **VOR**: 167, 170, 171, 192, 248; **YAN**: 50, 196, 198, 210, 212, 290.

Arcyria denudata (L.) Wettst. – **AD**: 198; **AL**: 3, 134, 191, 215; **ALT**: 299, 301, 302, 306, 308; **AMU**: 101; **AST**: 198, 220, 223, 327, 328, 333; **BA**: 50, 198; **BRY**: 16, 101^{0AU}, 111, 198; **BU**: 198; **CHE**: 50, 198; **CR**: 30, 243, 244; **KAM**: 251; **KDA**: 101, 192, 198; **KHA**: 198; **KIR**: 263, 264, 265, 268, 272, 276, 277, 291; **KK**: 293^{IG}; **KLU**: 101, 198; **KOS**: 101, 198; **KR**: 198, 212, 254; **KRS**: 5, 101, 185, 198; **KYA**: 10, 101, 120, 122, 123, 124, 196, 198, 210, 211, 212, 290, 293^{IG}; **LEN**: 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **LIP**: 198, 252; **MOS**: 1, 4, 6, 7, 8, 9, 11, 18, 63, 66, 70, 84, 92, 93, 94, 101, 158, 164, 175, 198, 278; **NIZ**: 101, 176, 198; **NVS**: 301, 308; **PER**: 50; **PRI**: 21, 69, 74, 84, 198, 218; **PSK**: 73, 101, 140, 198; **ROS**: 101, 147, 335; **RYA**: 84, 125, 198, 321; **SAM**: 101, 154, 156, 198; **SAR**: 198; **SMO**: 99, 100, 101, 198; **STA**: 101; **SVE**: 42, 49, 50, 51, 198, 201, 212; **TA**: 101, 198, 262; **TOM**: 132, 198; **TVE**: 19, 76, 84, 101, 136, 141, 142, 180, 182, 198, 204; **TYU**: 84; **ULY**: 101, 198; **VGG**: 101, 110, 157, 198, 212, 220, 223, 281, 284, 328, 332, 336, 338; **VLG**: 101, 198; **VOR**: 171, 248; **YAR**: 101.

Arcyria ferruginea Saut. – **AL**: 134; **ALT**: 301, 307, 308; **DA**: 162; **KO**: 50, 198; **KR**: 130, 198, 212, 240, 254; **KYA**: 10; **LEN**: 101, 183, 195, 198, 212, 237, 247; **MOS**: 6, 7, 9, 66, 70, 84, 198, 278; **NVS**: 301, 308; **PER**: 50; **PRI**: 21, 22, 74; **PSK**: 140; **SMO**: 101, 198; **SVE**: 49, 50, 198, 201, 212, 236; **TVE**: 19, 76, 136, 198, 204.

Arcyria glauca Lister – **MOS**^{DR}: 6, 7, 198; **TVE**: 79, 80, 136, 282.

Arcyria globosa Schwein. – **CR**: 243; **LEN**: 89, 101, 183, 198; **LIP**: 198, 252; **MOS**^{DR}: 6, 7, 179, 198; **NGR**: 101; **ORL**: 168; **PSK**: 101; **TVE**: 136, 142, 179, 198, 204; **VOR**: 167.

Arcyria helvetica (Meyl.) H.Neubert, Nowotny & K.Baumann – **AL**: 215; **ALT**: 215, 307, 316; **BA**: 50, 54, 198; **CR**: 84; **KHM**: 52, 58; **KO**: 50, 198; **KYA**: 122, 124; **MOS**: 84; **NVS**: 301, 308; **PRI**: 218; **SVE**: 50, 198, 201, 212, 236; **TVE**: 19, 76.

Arcyria imperialis (G.Lister) Q.Wang & Yu Li – **ALT**: 215, 301, 307, 308, 316; **BA**: 54; **IRK**: 84; **MOS**: 84; **NVS**: 301, 307, 308; **PRI**: 84, 218.

Arcyria incarnata (Pers. ex J.F.Gmel.) Pers. – **AL**: 3,

134, 214, 215; **ALT**: 215, 301, 308, 316; **AST**: 220, 223, 327, 328, 333; **BA**: 50, 54; **BRY**: 101^{OU}, 111; **CHE**: 50; **CHU**: 196, 198, 210, 212, 290; **CR**: 30, 101, 192, 242, 243, 244; **DA**: 162; **IRK**: 84; **KDA**: 68, 78, 198; **KHM**: 47, 52, 58, 196; **KIR**: 268, 276, 277; **KK**: 295^{IG}; **KLU**: 101; **KO**: 50; **KR**: 130, 212, 240, 254; **KRS**: 5, 185; **KYA**: 10, 101, 120, 122, 123, 124, 196, 198, 210, 211, 212, 290, 295^{IG}; **LEN**: 89, 96, 101, 180, 182, 183, 195, 199, 212, 237, 323; **LIP**: 252; **MAG**: 290; **MOS**: 1, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 101, 164, 278; **MUR**: 84; **NIZ**: 227^{DS}, 228^{DS}, 229^{DS}, 230^{DS}; **NVS**: 301, 308; **ORE**: 50; **ORL**: 168; **PER**: 50; **PRI**: 21, 74, 198, 203, 218; **PSK**: 73, 140; **ROS**: 101, 147, 220, 223; **RYA**: 84, 125, 321; **SAM**: 153, 154; **SMO**: 101^{OU}; **STA**: 101; **SVE**: 40, 41, 42, 44, 45, 49, 50, 51, 201, 212, 236; **TA**: 101, 262; **TOM**: 114, 115, 132; **TVE**: 6, 19, 76, 84, 101^{OU}, 135, 136, 139, 141, 142, 166, 180, 182, 204, 296; **TYU**: 84; **VGG**: 157, 212, 220, 223, 281, 284, 285, 328, 336, 338; **VOR**: 248; **YAN**: 50, 196, 210, 212, 290.

Arcyria insignis Kalchbr. & Cooke – **AL**: 3, 214, 215; **ALT**: 301, 308; **BA**: 50; **CR**: 244; **KDA**: 78^{CF}, 192; **KO**: 50; **KRS**: 5; **KYA**: 120, 122, 123, 124; **LEN**: 195, 212, 237; **MOS**: 2, 4, 6, 7, 9, 11, 64, 66, 70, 164, 179, 278; **MUR**: 67; **NVS**: 301, 308; **RYA**: 125, 321; **SVE**: 50, 201, 212, 236; **TOM**: 114, 115, 117, 132; **TVE**: 19, 76, 136, 141^{CF}, 204; **VGG**: 127, 157, 212, 220, 223, 328, 337.

Arcyria magna Rex – **KR**: 198, 212, 240, 254; **MOS**: 66, 70; **PRI**: 74^{CF}; **TVE**: 19, 141.

Arcyria major (G.Lister) Ing – **ALT**: 301, 308; **CR**: 241; **KO**: 50, 198.

Arcyria marginoundulata Nann.-Bremek. & Y.Yamam. – **PRI**: 218.

Arcyria minuta Buchet – **AL**: 215; **ALT**: 215, 301, 308, 310^{IG}, 315, 316, 317; **AST**: 198, 213, 220, 221, 222, 223, 328; **BA**: 50, 198; **CR**: 244; **DA**: 162; **KDA**: 90; **KL**: 198, 328; **KLU**: 8; **KO**: 50, 198; **LEN**: 182, 183, 195, 237; **MOS**: 1, 7, 9, 11, 63, 66, 70, 164; **NVS**: 301, 308, 310^{IG}; **ORE**: 198; **PRI**: 218; **SAM**: 153, 154; **SVE**: 50, 198, 236; **TVE**: 79, 136, 165, 166, 182, 198, 204, 282; **VGG**: 110, 157, 198, 220, 223, 328, 332, 336, 338.

Arcyria obvelata (Oeder) Onsberg – **AL**: 3, 134, 191, 215; **ALT**: 215, 299, 301, 302, 306, 308, 316; **AST**: 198,

220, 223, 327, 328, 333; **BA**: 50, 198; **BEL**: 12; **BRY**: 101^{OU}; **CHE**: 50, 198; **CR**: 30, 84, 144, 243, 244; **DA**: 57, 97, 98, 162; **KAM**: 251; **KC**: 57, 97, 98; **KDA**: 68; **KHM**: 47, 52, 58; **KIR**: 265, 268; **KLU**: 101^{OU}; **KO**: 50, 198; **KR**: 84, 143, 198, 212, 240, 254; **KRS**: 5, 185; **KYA**: 10, 122, 124, 196, 198, 210, 211, 212, 290; **LEN**: 89, 96, 101, 180, 182, 183, 195, 198, 199, 212, 237; **LIP**: 198, 252; **MAG**: 198; **MOS**: 1, 4, 6, 7, 8, 9, 11, 18, 63, 64, 66, 70, 84, 92, 94, 101, 164, 175, 179, 198, 278; **MUR**: 65, 67, 84, 96, 104, 196, 198, 205, 210, 212, 290; **NIZ**: 176; **ORL**: 168; **PER**: 50; **PRI**: 21, 22; **PSK**: 73, 84; **ROS**: 147, 198, 223, 335; **RYA**: 84, 125, 321; **SAM**: 153, 156; **SMO**: 101^{OU}, 198; **SVE**: 40, 41, 43, 45, 50, 51, 198, 201, 212, 234, 236; **TA**: 101, 198, 262; **TOM**: 117, 132, 198; **TVE**: 19, 76, 84, 101^{OU}, 136, 141, 142, 179, 180, 182, 198, 204; **TYU**: 84, 198^{IG}; **VGG**: 157, 198, 212, 220, 223, 284, 328, 336, 338; **VLA**: 173; **VOR**: 101, 198, 239, 248, 249.

Arcyria occidentalis (T.Macbr.) G.Lister – **AL**: 215; **IRK**: 84; **KHA**: 84; **MOS**: 6, 66, 70, 84, 198; **NVS**: 301, 307, 308; **SVE**: 198, 236; **TOM**: 117, 132, 198; **TVE**: 19, 76, 141.

Arcyria oerstedii Rostaf. – **AL**: 134, 215; **ALT**: 301, 307, 308; **BEL**: 12; **CHE**: 50, 198; **KIR**: 108, 265; **KYA**: 10, 198; **LEN**: 101, 183, 198, 247; **MOS**: 4, 6, 7, 9, 11, 66, 70, 84, 164, 198; **MUR**: 67; **NVS**: 301, 307, 308; **PER**: 50; **PRI**: 74; **SMO**: 101, 198; **SVE**: 51, 236; **TVE**: 19, 76, 136, 141, 198, 204; **TYU**: 84; **VGG**: 212, 336.

Arcyria pomiformis (Leers) Rostaf. – **AL**: 3, 191, 214, 215; **ALT**: 215, 301, 308, 316; **AST**: 198, 213, 220, 221, 222, 223, 327, 328, 333; **BA**: 50, 198; **CHE**: 50, 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 30, 241, 243, 244; **KDA**: 68, 192, 198; **KHM**: 47, 52, 58; **KIR**: 108, 263, 264, 265, 268, 291; **KO**: 50, 198; **KR**: 198, 212, 240, 254; **KRS**: 185, 198; **KYA**: 122, 124, 129, 196, 198, 210, 211, 212, 290; **LEN**: 101, 161, 183, 195, 198, 199, 212, 237, 247; **LIP**: 198, 252; **MAG**: 290; **MOS**: 1, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 159, 160, 164, 179, 198; **MUR**: 196, 198, 205, 210, 212, 290; **PER**: 50; **PRI**: 69, 74, 218; **PSK**: 73; **ROS**: 198, 220, 223, 335; **SAK**: 198; **SAM**: 154, 155; **SMO**: 101, 198; **SVE**: 40, 41, 42, 44, 45, 46, 50, 51, 53, 55, 198, 201, 212, 234, 236; **TA**: 198; **TOM**: 114, 115, 117, 132, 198; **TVE**: 19, 84, 136, 141, 165, 166, 179, 198, 204; **TYU**: 84, 198^{IG}; **VGG**: 157, 198, 212, 220, 223, 281, 284, 285, 328, 336, 338; **VOR**: 192, 198; **ZAB**: 198.

Arcyria stipata (Schwein.) Lister – AL: 134, 215; ALT: 215, 301, 308, 316; BA: 50, 198; CR: 174, 244; KHA: 198; KHM: 52, 58; KIR: 276, 277; KYA: 112, 122, 124; LEN: 180, 181, 182, 183, 195, 198, 212, 237; MOS: 6, 7, 9, 66, 70, 84, 164, 198, 278; NVS: 301, 308; PRI: 74, 203, 218; ROS: 147; SVE: 49, 50, 51, 198, 201, 212, 236; TOM: 114; TVE: 19, 76, 141; VGG: 198, 220, 223, 328, 329; VLA: 173.

Arcyria versicolor W.Phillips – BA: 50, 198; MOS: 6, 7^{CF}, 66^{CF}, 70, 198, 278; NVS: 301, 307, 308; SVE: 236.

Arcyria virescens G.Lister – MOS^{DR}: 6, 198, 278; PRI: 218.

Badhamia affinis Rostaf. – ALT: 215, 316; AST: 198, 220, 223; IRK: 84; KIR: 276, 277; KO: 270; LEN: 182, 183, 195, 198, 212, 237; MAG: 198; MOS: 7, 11, 66, 70, 84; PRI: 74; TVE: 19, 76, 136, 179; VGG: 338.

Badhamia capsulifera (Bull.) Berk. – AST: 333; CR: 244; KGD: 91; KR: 198; KRS: 101, 185, 198; LEN: 101, 182, 183, 195, 198, 199, 212, 237, 246, 323; MOS: 7^{CF}, 66, 70, 84, 164; PRI: 74; SMO: 101, 198; TVE: 136, 139, 142, 166, 179, 204; VGG: 110, 198, 212, 220, 223, 284, 328, 332.

Badhamia cinerascens G.W.Martin – AL: 215; MOS^{DR}: 278.

Badhamia dubia Nann.-Bremek. – AL: 214, 215; SAM: 153.

Badhamia foliicola Lister – ALT: 301, 308, 316; AST: 198, 213, 220, 221, 222, 223, 327, 328, 333; BA: 54; CR: 192; KL: 328; KLU: 84; KR: 198, 212, 254; KYA: 120^{CF}, 121, 122, 123^{CF}, 124, 198; LEN: 182, 183, 195, 198, 199, 212, 237; LIP: 198, 252; MOS: 6, 7, 8, 9, 66, 70, 84, 164, 198; PRI: 22, 74; ROS: 335; RYA: 84; TVE: 19, 136; VGG: 110, 157, 198, 212, 220, 223, 284, 285, 328, 332, 338.

Badhamia goniospora Meyl. – VGG: 198, 220, 223, 284, 328, 329, 330.

Badhamia lilacina (Fr.) Rostaf. – KR: 84; KRS: 5, 198; LEN: 180; MOS: 6, 7, 66, 70, 84, 198; PSK: 73; TOM: 114, 117; TVE: 19, 136.

Badhamia macrocarpa (Ces.) Rostaf. – AL: 215; ALT: 317; AST: 198, 220, 223, 327, 328, 333; KIR: 108, 263, 264, 265, 275, 291; LEN: 182, 183, 195, 198, 212, 237; LIP: 198, 252; MOS: 6, 7, 8, 9, 11, 66, 70, 84, 164, 198; NVS: 301, 308; ORE: 50, 198; PSK: 140; ROS: 147; RYA: 125, 321; SAM: 153, 154; SE: 198; SMO: 101, 198; STA: 198; SVE: 50, 198, 201, 212; TOM: 115, 132, 198; TVE: 84, 136, 142, 166, 198, 204; VGG: 157, 198, 212, 220, 223, 284, 328, 332, 338.

Badhamia melanospora Speg. – ALT: 301, 308; MOS: 66, 70, 164.

Badhamia nitens Berk. – ALT: 317; KO: 50; MOS^{DR}: 6, 198, 278.

Badhamia panicea (Fr.) Rostaf. – ALT: 317; AST: 333; DA: 162^{CF}; KHM: 52, 58; KO: 50, 198; KR: 198, 212, 254; KYA: 10, 120, 122, 123, 124, 198; LEN: 183, 195, 198, 212, 237, 286^{DS}, 287^{DS}; MOS: 1, 6, 7, 9, 64, 66, 70, 198; NVS: 301, 308; PSK: 73^{CF}; ROS: 101, 198, 220, 223; SMO: 101, 198; STA: 198; SVE: 236; TOM: 132, 198; VGG: 198, 212, 220, 223, 328, 338; VLG: 101.

Badhamia papaveracea Berk. & Ravenel – SVE: 236.

Badhamia populina Lister & G.Lister – KR: 198, 212, 254; VGG: 198, 220, 223, 284, 328.

Badhamia spinispora (Eliasson & N.Lundq.) H.W.Keller & Schokn. – ALT: 315; AST: 220, 222, 223, 328, 333; CR: 244; KL: 198, 220, 222, 223, 328; VGG: 110, 157, 198, 220, 223, 328, 332, 338.

Badhamia utricularis (Bull.) Berk. – AL: 134; AST: 198; BA: 50, 198; BRY: 101^{OU}, 126; CHE: 50; DA: 162; KHM: 52, 58; KIR: 268, 276, 277; KO: 50, 198; KYA: 10, 122, 124, 198; LEN: 101, 182, 183, 195, 198, 199, 212, 237, 323; MAG: 198, 290; MOS: 9, 66, 70, 84, 164, 198; NVS: 301, 308; ORE: 50, 198; PER: 50; PRI: 22, 74; PSK: 140; ROS: 147, 335; SMO: 101^{OU}; STA: 198; SVE: 42, 50, 198, 201, 212, 236; TOM: 132, 198; TVE: 136, 198, 204; VGG: 110, 157, 198, 220, 223, 284, 328, 332, 336, 338; VOR: 248.

Badhamia versicolor Lister – KR: 198; LEN: 182, 183, 198; MOS: 66, 70.

Badhamiopsis ainoae (Yamash.) T.E.Brooks & H.W.Keller – **AST**: 329, 333; **VGG**: 329.

Barbeyella minutissima Meyl. – **AL**: 215; **BA**: 50, 54, 198; **PER**: 50; **PRI**: 218; **SVE**: 50, 51, 198, 236; **TVE**: 19, 76, 141.

Brefeldia maxima (Fr.) Rostaf. – **AL**: 133, 134, 215; **BRY**: 16, 101^{0AU}; **KIR**: 277; **LEN**: 195, 198, 212, 237; **SE**: 198; **SMO**: 198; **TOM**: 133; **TVE**: 79, 80, 136, 204, 282; **VLA**: 172; **VOR**: 239, 248, 249.

Calomyxa metallica (Berk.) Nieuwl. – **AL**: 215; **ALT**: 215, 301, 308, 316, 317; **BA**: 50; **CHU**: 196, 198, 212, 290; **CR**: 244; **KDA**: 192, 198; **KHM**: 52, 58; **KO**: 50, 198; **KR**: 198, 212, 254; **KYA**: 122, 124, 196, 198, 210, 211, 212, 290; **LEN**: 198, 199, 237; **LIP**: 198; **MOS**: 7, 66, 159, 160, 164; **NVS**: 301, 308; **PRI**: 74, 218; **SA**: 288; **SAR**: 198; **SVE**: 50, 51, 198, 201, 212, 236; **TVE**: 19, 76, 141; **VOR**: 198; **YAN**: 50, 196, 198, 210, 212, 290.

Ceratiomyxa fruticulosa (O.F.Müll.) T.Macbr. – **AL**: 3, 133, 134, 214, 215; **ALT**: 215, 301, 308, 316, 317; **AST**: 220, 327, 328, 333; **BA**: 50, 54; **BRY**: 101^{0AU}, 126; **CHE**: 50; **CHU**: 196, 210, 212, 290; **CR**: 30, 243, 244; **DA**: 162; **IRK**: 84; **KAM**: 251; **KDA**: 68; **KEM**: 109; **KGD**: 91; **KHM**: 47, 58; **KIR**: 108, 263, 264, 265, 266, 267, 268, 271, 275, 291; **KLU**: 8, 101; **KO**: 50; **KOS**: 101; **KR**: 130, 212, 254; **KRS**: 5, 185; **KYA**: 116, 129, 196, 210, 211, 212, 290; **LEN**: 89, 96, 101, 180, 182, 195, 199, 212, 237; **LIP**: 252; **MAG**: 290; **MOS**: 1, 2, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 101, 158, 164, 175, 278; **MUR**: 96, 196, 205, 210, 212, 290; **NIZ**: 176; **NVS**: 301, 308; **ORE**: 50; **ORL**: 168; **PER**: 50; **PRI**: 21, 22, 74, 177, 218; **PSK**: 73, 84; **ROS**: 147, 220, 335; **RYA**: 125, 321; **SAM**: 155; **SMO**: 99, 100, 101^{0AU}; **SVE**: 40, 41, 42, 43, 50, 51, 201, 212; **TOM**: 132; **TVE**: 6, 19, 76, 84, 101^{0AU}, 136, 179, 180, 182, 204, 296; **TYU**: 84; **VGG**: 157, 212, 220, 283, 284, 328, 338; **VLA**: 173; **VLG**: 101; **VOR**: 239, 248, 249; **YAN**: 50, 196, 210, 212, 290.

Clastoderma debaryanum A.Blytt – **AL**: 134, 215; **BU**: 198; **KHA**: 84, 198; **KHM**: 52, 58; **KR**: 130, 198, 212, 254; **KYA**: 122, 124; **LEN**: 195, 198, 199, 212, 237; **MOS**: 7, 66, 70; **MUR**: 65; **NVS**: 301, 308; **PER**: 50; **PRI**: 74, 84, 203, 218; **SVE**: 50, 51, 198, 201, 212, 236; **TVE**: 19, 76, 136, 141, 142, 198, 204.

Clastoderma pachypus Nann.-Bremek. – **CR**: 148; **PRI**: 74.

Collaria arcyrionema (Rostaf.) Nann.-Bremek. ex Lado – **AL**: 3, 134, 191, 215; **CHE**: 50, 198; **KIR**: 268; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 5, 198; **KYA**: 10, 116, 120, 122, 123, 124, 198; **LEN**: 89, 101, 180, 182, 183, 195, 198, 212, 237; **LIP**: 198, 252; **MOS**: 1, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 198, 278; **MUR**: 65, 84; **NVS**: 301, 308; **PER**: 50; **PRI**: 21, 74, 203, 218; **RYA**: 84, 125, 321; **SAK**: 198; **SVE**: 42, 50, 198, 201, 212, 236; **TOM**: 114, 115, 117; **TVE**: 19, 76, 84, 136, 141, 180, 182, 198, 204; **TYU**: 84; **VGG**: 198, 212, 220, 223, 280, 328; **VLA**: 173; **VOR**: 248.

Collaria lurida (Lister) Nann.-Bremek. – **AST**: 220, 222, 223, 328; **KYA**: 122, 124; **NVS**: 301, 308; **ROS**: 198; **SVE**: 42^{CF}, 236; **VGG**: 220, 223, 328.

Collaria rubens (Lister) Nann.-Bremek. – **NVS**: 301, 308.

Colloderma oculatum (C.Lippert) G.Lister – **AL**: 215; **KHM**: 52, 58; **KR**: 212, 254; **LEN**: 195, 197, 212, 237, 261, 282; **MOS**: 6, 7, 198, 278; **PER**: 50; **PRI**: 218; **SVE**: 51, 198; **TVE**: 79, 80, 136, 142, 282.

Colloderma robustum (G.Lister ex Meyl.) Meyl. – **KR**: 198.

Comatricha alta Preuss – **AL**: 215; **DA**: 162; **KO**: 50, 198; **MOS**: 66, 70; **SVE**: 48, 50, 198; **VGG**: 88, 198, 220, 223, 281, 282, 328, 329, 338.

Comatricha anomala Rammeloo – **NVS**: 312.

Comatricha elegans (Racib.) G.Lister – **AL**: 191, 215; **ALT**: 301, 308; **CR**: 243, 244; **KDA**: 68; **KHM**: 47, 58; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 185, 198; **KYA**: 122, 124; **LEN**: 161, 182, 183, 195, 199, 212, 237; **MOS**: 7, 9, 11, 63, 66, 70, 198; **MUR**: 65, 67; **ORE**: 198, 202; **PRI**: 218; **PSK**: 73; **ROS**: 147, 198, 220, 223; **SVE**: 40, 41, 50, 51, 198, 201, 212, 236; **TVE**: 19, 76, 136, 141, 180, 181, 182, 198, 204; **TYU**: 198^{IG}; **VGG**: 157, 198, 220, 223, 283, 284, 285, 328, 332.

Comatricha ellae Härk. – **AL**: 214, 215; **ALT**: 215, 310^{IG}, 316, 317; **AST**: 198, 213, 220, 223, 327, 328, 333; **CHE**: 50, 198; **CR**: 243, 244; **KDA**: 68, 78; **KO**: 50, 198;

KR: 198; **LEN:** 161; **MOS:** 63, 66, 70, 84, 159, 160, 164; **MUR:** 65, 84; **NVS:** 301, 308, 310^{IG}; **PRI:** 74; **ROS:** 198, 220, 223; **SVE:** 236; **TVE:** 19, 76, 136, 141, 142, 166, 179, 204; **VGG:** 157, 198, 220, 223, 328.

Comatricha filamentosa Meyl. – **BA:** 50^{CF}, 198.

Comatricha laxa Rostaf. – **AL:** 215; **ALT:** 215, 310^{IG}, 316, 317; **AST:** 198, 213, 220, 221, 222, 223, 327, 328, 333; **CHE:** 50, 198; **CHU:** 189, 196, 198, 210, 212, 290; **CR:** 192, 244; **KDA:** 68; **KHM:** 47, 58; **KL:** 198, 220, 222, 223, 328; **KO:** 50, 198, 270; **KR:** 198, 212, 254; **KYA:** 196, 198, 210, 211, 212, 290; **LEN:** 180, 182, 183, 195, 198, 212, 237; **LIP:** 198, 252; **MOS:** 4, 6, 7, 66, 70, 84, 198, 278; **NVS:** 301, 308, 310^{IG}; **ORE:** 50, 198; **PRI:** 74, 218; **ROS:** 147; **SAM:** 154; **SVE:** 43, 50, 198, 201, 212, 236; **TVE:** 6, 19, 76, 136, 165, 166, 198, 204; **TYU:** 198^{IG}; **VGG:** 88, 110, 157, 198, 212, 220, 223, 281, 284, 285, 328, 332, 338; **VOR:** 170; **YAN:** 50, 196, 198, 210, 212, 290; **ZAB:** 26.

Comatricha longipila Nann.-Bremek. – **LEN:** 198, 282; **MOS:** 66, 70, 164; **SMO:** 198; **SVE:** 44^{CF}; **TA:** 198.

Comatricha nigra (Pers. ex J.F.Gmel.) J.Schröt. – **AL:** 3, 191, 214, 215; **ALT:** 215, 301, 308, 310^{IG}, 315, 316, 317; **AST:** 198, 220, 222, 223, 327, 328, 333; **BA:** 50, 54, 198; **BRY:** 101^{OU}; **BU:** 198; **CHE:** 50, 198; **CHU:** 189, 196, 198, 210, 212, 290; **CR:** 84, 192, 243, 244; **DA:** 162; **KAM:** 251^{AF}; **KDA:** 68, 78, 90, 192; **KHM:** 47, 52, 58; **KIR:** 275, 276; **KLU:** 8; **KO:** 50, 198; **KOS:** 101, 198; **KR:** 130, 198, 212, 254; **KRS:** 5, 185, 198; **KYA:** 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN:** 96, 101, 180, 182, 183, 195, 198, 199, 212, 237; **LIP:** 198, 252; **MAG:** 290; **MOS:** 1, 4, 6, 7, 9, 11, 63, 66, 70, 84, 101, 160, 164, 198, 278; **MUR:** 65, 67, 104, 196, 198, 205, 210, 212, 290; **NVS:** 301, 308, 310^{IG}; **ORE:** 50, 198, 202; **PER:** 50; **PRI:** 22, 69, 74, 218; **PSK:** 73, 140; **ROS:** 147, 198, 220, 223; **RYA:** 125, 321; **SMO:** 101, 198; **SVE:** 40, 41, 42, 43, 44, 49, 50, 51, 55, 198, 201, 212, 234, 235, 236; **TA:** 101, 262; **TOM:** 132, 198; **TVE:** 19, 76, 84, 135, 136, 139, 141, 142, 165, 166, 179, 182, 198, 204; **TYU:** 84, 198^{IG}; **VGG:** 88, 110, 157, 198, 212, 220, 223, 281, 284, 285, 328, 332, 336, 338; **VLA:** 173; **VLG:** 101; **VOR:** 239, 248, 249; **YAN:** 50, 196, 198, 210, 212, 290; **ZAB:** 26.

Comatricha pulchella (C.Bab.) Rostaf. – **AL:** 3, 215; **AST:** 198, 213, 220, 221, 222, 223, 327, 328, 333; **BA:** 50,

198; **CHE:** 50, 198; **KHM:** 47, 52, 58; **KO:** 50, 198; **KR:** 84, 198; **KYA:** 196, 198, 210, 211, 212, 290; **LEN:** 101, 180, 182, 183, 195, 198, 212, 237; **MOS:** 6, 7, 8, 9, 64, 66, 70, 84, 164, 198, 278; **MUR:** 65, 67; **ORE:** 50, 198; **PER:** 50; **PRI:** 218; **ROS:** 147, 198, 220, 223; **SVE:** 42, 49, 50, 51, 198, 201, 212, 236; **TOM:** 132, 198; **TVE:** 19, 84, 141; **TYU:** 84, 198^{IG}; **VGG:** 110, 157, 212, 284, 328, 332, 337.

Comatricha reticulospora Ing & P.C.Holland – **MOS:** 84^{CF}; **MUR:** 84^{CF}.

Comatricha rigidireta Nann.-Bremek. – **KYA:** 210; **SVE:** 49, 50, 198, 212^{CF}.

Comatricha suksdorfii Ellis & Everh. – **MOS**^{DR}: 6, 198, 278; **SVE:** 198, 236.

Comatricha tenerrima (M.A.Curtis) G.Lister – **AL:** 3, 215; **ALT:** 317; **BA:** 50, 198; **CHE:** 50; **CR:** 148; **KHM:** 47, 58; **KRS:** 185, 198; **KYA:** 121, 122, 124; **LEN:** 182, 183, 195, 198, 212, 237; **MOS:** 1, 4, 6, 7, 66, 70, 198; **NVS:** 301, 308; **PER:** 50; **PRI:** 74; **SVE:** 50, 198, 201, 212; **TVE:** 19, 76, 136, 198, 204; **TYU:** 198^{IG}.

Craterium aureum (Schumach.) Rostaf. – **ALT:** 301, 308; **KDA:** 90; **KR:** 130^{CF}, 198; **KYA:** 122, 124; **LEN:** 101, 198; **MOS:** 6, 7, 11, 66, 70, 84, 198; **SVE:** 49, 50, 198, 201, 212, 236; **VGG:** 157, 198, 212, 220, 223, 328.

Craterium concinnum Rex – **MOS:** 6, 7, 66, 70, 198; **PRI:** 218.

Craterium leucocephalum (Pers. ex J.F.Gmel.) Ditmar – **AL:** 191, 215; **ALT:** 299, 301, 308; **AST:** 198, 220, 222, 223, 327, 328, 333; **BA:** 54; **CR:** 30, 242, 243, 244; **KDA:** 90; **KHA:** 198; **KOS:** 101, 198; **KR:** 198, 212, 254; **KRS:** 5, 185, 198; **KYA:** 122, 124, 196, 198, 210, 211, 212, 290; **LEN:** 101, 182, 183, 195, 198, 199, 212, 237, 323; **LIP:** 198, 252; **MAG:** 288, 290; **MOS:** 1, 6, 7, 11, 63, 66, 70, 84, 198; **MUR:** 84; **NGR:** 101^{OU}; **NVS:** 301, 308; **ORE:** 50, 198; **PRI:** 74, 203; **PSK:** 101^{OU}, 198; **ROS:** 147, 335; **SAM:** 153, 154; **SVE:** 45, 49, 50, 198, 201, 212, 236; **TOM:** 132, 198; **TVE:** 19, 76, 136, 204; **VGG:** 157, 198, 212, 220, 223, 281, 284, 285, 328, 336, 338; **YAN:** 50, 196, 198, 210, 212, 290; **YAR:** 101, 198.

Craterium minutum (Leers) Fr. – **AL:** 3, 134, 215, 300; **ALT:** 215, 316; **CR:** 242, 243, 244; **KO:** 50, 198;

KRS: 185, 198; **LEN:** 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **LIP:** 198, 252; **MOS:** 6, 7, 8, 11, 63, 64, 66, 70, 84, 198; **MUR:** 96, 104; **NVS:** 301, 308; **PRI:** 22, 218; **SMO:** 99, 100; **SVE:** 49, 50, 198, 201; **TVE:** 19, 76, 79, 80, 136, 180, 182, 204, 282, 296; **TYU:** 84; **VGG:** 198, 220, 223, 328, 338; **VLA:** 173; **YAR:** 101, 198.

Craterium obovatum Peck – **AL:** 215; **IRK:** 84; **KHA:** 198; **LEN:** 182, 183, 195, 198, 212, 237; **MOS:** 7, 8, 66; **PRI:** 74, 203, 218; **TVE:** 136, 204.

Cribraria argillacea (Pers. ex J.F.Gmel.) Pers. – **AL:** 3, 134, 191, 215; **ALT:** 194, 301, 308; **ARK:** 143; **BA:** 50, 54, 198; **CR:** 243, 244; **IRK:** 84; **KAM:** 251; **KHM:** 52, 58; **KLU:** 101, 198; **KO:** 50, 198; **KR:** 198, 212, 254; **KRS:** 185, 198; **KYA:** 10, 122, 124, 194, 198; **LEN:** 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **MOS:** 1, 4, 6, 7, 9, 11, 63, 66, 70, 84, 101, 198, 278; **MUR:** 65; **PER:** 50; **PRI:** 21, 22, 194, 218; **PSK:** 140; **RYA:** 84; **SAK:** 198; **SAM:** 155, 156; **SMO:** 101, 198; **STA:** 198; **SVE:** 49, 50, 51, 198, 201, 212, 236; **TA:** 198; **TVE:** 19, 76, 136, 142, 179; **TYU:** 84; **VGG:** 198, 212, 220, 223, 328, 338; **VLA:** 173; **VOR:** 171, 248.

Cribraria atrofusca G.W.Martin & Lovejoy – **KYA:** 196^{CF}, 198, 211^{CF}, 212^{CF}, 290^{CF}; **MOS:** 63, 66, 70; **NVS:** 26; **SVE:** 198, 236.

Cribraria aurantiaca Schrad. – **AL:** 3, 134, 191, 215; **ALT:** 194, 215, 301, 308, 316; **BA:** 50, 198; **CR:** 30, 243, 244; **KHM:** 47, 58; **KO:** 50, 198; **KR:** 198, 212, 254; **KRS:** 185, 198; **KYA:** 10, 122, 124, 129, 198, 212; **LEN:** 89, 101, 182, 183, 195, 198, 199, 212, 237, 323; **LIP:** 198, 252; **MOS:** 1, 4, 6, 7, 11, 63, 66, 70, 84, 164^{CF}, 198; **MUR:** 196, 198, 205, 210, 212, 290; **PRI:** 21, 22, 194, 218; **ROS:** 147, 335; **RYA:** 125, 321; **SAK:** 198; **SMO:** 101, 198; **STA:** 198; **SVE:** 40, 41, 50, 51, 198, 201, 212, 236; **TA:** 101, 198, 262; **TOM:** 132, 198; **TVE:** 19, 76, 136, 141, 142, 198, 204; **TYU:** 84, 198^{IG}; **VGG:** 157, 198, 212, 220, 223, 328, 338.

Cribraria cancellata (Batsch) Nann.-Bremek. – **AL:** 3, 134, 191, 215; **ALT:** 194, 215, 299, 301, 302, 306, 308, 316; **BA:** 50, 54, 198; **CHE:** 50, 198; **CR:** 30, 241, 243, 244; **IRK:** 84; **KAM:** 251; **KDA:** 68; **KHA:** 198; **KHM:** 47, 52, 58; **KLU:** 101, 198; **KO:** 50, 198; **KR:** 143, 198, 212, 254; **KRS:** 5; **KYA:** 10, 122, 124, 129, 194, 198; **LEN:** 89, 96, 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **LIP:** 198, 252; **MOS:** 1, 4, 6, 7, 8, 9, 11, 63,

64, 66, 70, 84, 101, 164, 179, 278; **MUR:** 65, 67, 196, 205, 210, 212, 290; **NIZ:** 101, 198; **NVS:** 301, 308; **ORE:** 50, 198; **PER:** 50; **PRI:** 21, 69, 74, 84, 194, 203, 218; **PSK:** 73; **ROS:** 147; **RYA:** 84, 125, 321; **SAM:** 153, 154; **SMO:** 101, 198; **SVE:** 40, 41, 49, 50, 51, 198, 201, 212, 236; **TA:** 101, 198, 262; **TOM:** 132, 198; **TVE:** 19, 76, 84, 136, 139, 141, 142, 166, 179, 180, 182, 198, 204; **TYU:** 84, 198^{IG}; **VGG:** 198, 212, 220, 223, 281, 328, 336, 338; **VLA:** 173; **VOR:** 167, 170.

Cribraria confusa Nann.-Bremek. & Y.Yamam. – **KO:** 50, 198.

Cribraria costata Dhillon & Nann.-Bremek. – **KO:** 50, 198.

Cribraria elegans Berk. & M.A.Curtis – **AL:** 191, 300; **TVE:** 19.

Cribraria exigua Meyl. – **KO:** 50, 198; **TYU:** 198^{IG}.

Cribraria filiformis Nowotny & H.Neubert – **KR:** 198.

Cribraria intricata Schrad. – **AL:** 3, 215; **ALT:** 215, 301, 308; **KHM:** 52, 58; **KIR:** 108, 265; **KYA:** 122, 124; **MOS:** 1, 4, 6, 7, 8, 9, 63, 66, 70, 198; **NVS:** 301, 308; **PRI:** 218; **SVE:** 50, 198, 201, 212, 236; **TVE:** 19, 136, 204; **TYU:** 84; **VGG:** 27.

Cribraria languescens Rex – **AL:** 215; **ALT:** 215, 301, 308, 316; **MOS:** 1, 6, 7^{CF}, 66, 70, 84, 198; **PRI:** 218; **SVE:** 50, 198, 201, 212; **TVE:** 19, 76, 141; **VGG:** 198, 212, 220, 223, 328, 330.

Cribraria lepida Meyl. – **ALT:** 303, 317; **NVS:** 303; **VGG:** 27.

Cribraria macrocarpa Schrad. – **AL:** 215; **KDA:** 68; **LEN:** 89, 101^{OU}, 183, 195, 198, 212, 237; **MOS:** 7, 66, 70, 84; **NGR:** 101^{OU}; **PSK:** 101^{OU}; **SVE:** 50, 198, 201, 212, 236; **TYU:** 84.

Cribraria macrostipitata H.Neubert & Nann.-Bremek. – **AL:** 198, 215.

Cribraria microcarpa (Schrad.) Pers. – **AL:** 198, 215; **ALT:** 194, 215, 301, 308; **BA:** 50, 198; **CR:** 244;

KIR: 267, 268, 275; **KR:** 198, 212, 254; **KYA:** 122, 124, 196, 198, 210, 211, 212, 290; **LEN:** 323; **MOS:** 1, 4, 6, 7, 64, 66, 70, 84, 164, 198; **PRI:** 69, 74, 218; **PSK:** 73; **ROS:** 147; **RYA:** 84; **SVE:** 236; **TA:** 101, 198, 262; **TVE:** 19, 76, 84; **TYU:** 84.

Cribraria minutissima Schwein. – **AL:** 3, 191, 215, 300; **ALT:** 194, 301, 308; **BU:** 194, 198; **CHE:** 50, 198; **CR:** 243, 244; **KHA:** 198; **KR:** 198, 212, 254; **MOS:** 7, 11, 66, 70; **MUR:** 65^{CF}, 67; **PRI:** 69, 74, 194, 203, 218; **TVE:** 19, 76, 141; **ZAB:** 194.

Cribraria mirabilis (Rostaf.) Masee – **AL:** 198; **KO:** 50; **SVE:** 236.

Cribraria oregana H.C.Gilbert – **CHE:** 50; **KO:** 50, 198; **KR:** 198; **MOS:** 84; **PRI:** 84, 218; **TYU:** 84.

Cribraria piriformis Schrad. – **AL:** 215; **CHE:** 50, 198; **KR:** 198; **LEN:** 89, 101, 182, 183, 195, 198, 212, 237; **MOS:** 6, 7, 66, 70, 84, 198; **NGR:** 101; **PRI:** 21, 194; **PSK:** 101; **SVE:** 50, 198, 201, 212, 236; **TVE:** 19, 84, 136, 142, 180, 182, 198.

Cribraria purpurea Schrad. – **AL:** 133, 134, 215; **ALT:** 194, 301, 308; **KHM:** 52, 58; **KO:** 50, 198; **KR:** 198, 212, 254; **KYA:** 122, 124; **LEN:** 101, 180, 182, 183, 195, 197, 198, 212, 237, 282, 323; **MOS:** 6, 84, 198; **MUR:** 65; **NVS:** 301, 308; **PRI:** 198; **PSK:** 140; **SMO:** 101, 198; **SVE:** 50, 51, 198, 212, 236; **TVE:** 19, 76, 136, 141, 142.

Cribraria rubiginosa Fr. – **AL:** 191, 198, 215; **MOS**^{DR}: 6, 198.

Cribraria rufa (Roth) Rostaf. – **AL:** 3, 215; **ALT:** 215, 301, 308, 316; **BA:** 50, 198; **CHE:** 50; **CR:** 244; **KHM:** 47, 52, 58; **KO:** 50, 198; **KR:** 130, 198, 212, 254; **KRS:** 5, 185, 198; **KYA:** 194; **LEN:** 89, 180, 182, 183, 195, 198, 212, 237, 323; **LIP:** 198, 252; **MOS:** 1, 6, 7, 11, 66, 70, 84, 198; **NVS:** 301, 308; **ORE:** 50; **PER:** 50; **PRI:** 21, 194, 218; **PSK:** 140; **RYA:** 125, 321; **SVE:** 40, 41, 45, 50, 198, 201, 212, 236; **TVE:** 19, 76, 84, 136, 141, 179; **TYU:** 198^{IG}; **VGG:** 157, 198, 220, 223, 328, 330; **VLA:** 173.

Cribraria splendens (Schrad.) Pers. – **AL:** 134, 215; **KHA:** 198; **KHM:** 52, 58; **KO:** 50, 198; **KR:** 198, 212, 254; **LEN:** 101, 183, 195, 198, 212, 237, 323; **MOS**^{DR}: 6, 101, 198; **SVE:** 50, 198, 201, 212, 236; **TA:** 198; **TVE:** 136, 142.

Cribraria tenella Schrad. – **AL:** 215; **ALT:** 215, 316; **BA:** 50, 54, 198; **BU:** 198; **CHE:** 50, 198; **CR:** 244; **KDA:** 192, 194, 198; **KHM:** 47, 52, 58; **KO:** 50, 198; **KYA:** 122, 124; **LEN:** 101, 183, 194, 195, 198, 212, 237, 323; **MOS:** 1, 7, 66, 70, 84; **PRI:** 69, 74, 218; **PSK:** 73; **RYA:** 84, 125, 321; **SVE:** 50, 51, 198, 201, 212, 236; **TA:** 101, 198, 262; **TVE:** 19, 76, 141; **TYU:** 198^{IG}; **VGG:** 198, 212, 220, 223, 328, 330.

Cribraria violacea Rex – **AL:** 215; **ALT:** 215, 301, 308, 315, 317; **AST:** 198, 213, 220, 222, 223, 327, 328, 333; **BA:** 50, 198; **CR:** 241, 242, 243, 244; **KDA:** 78, 192, 194, 198; **KHM:** 26; **KIR:** 108, 265; **KLU:** 8; **KYA:** 120, 121, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN:** 199; **MOS:** 7, 8, 66, 84, 159, 164; **NVS:** 301, 308; **PER:** 50; **PRI:** 74, 218; **ROS:** 147; **SA:** 288; **SAM:** 155; **SVE:** 50, 51, 198, 201, 212, 236; **TVE:** 165, 166; **VGG:** 157, 198, 212, 220, 223, 328, 338.

Cribraria vulgaris Schrad. – **AL:** 191, 215; **ALT:** 194, 215; **CHE:** 198; **CR:** 243, 244; **KDA:** 90; **KO:** 50, 198; **KR:** 198, 212, 254; **KYA:** 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN:** 183, 194, 195, 198, 199, 237, 323; **MOS:** 1, 6, 7, 11, 63, 66, 70, 84, 158, 198; **MUR:** 67, 84; **PRI:** 194; **SMO:** 99, 100; **SVE:** 50, 198, 201, 212, 236; **TA:** 262; **TVE:** 19, 76, 136, 141, 142; **TYU:** 84.

Diachea bulbilosa (Berk. & Broome) Lister – **PRI:** 218.

Diachea leucopodia (Bull.) Rostaf. – **CR:** 30, 242, 243, 244; **KHA:** 198; **LEN:** 101, 180, 182, 183, 195, 198, 212, 237, 323; **MOS:** 4, 6, 7, 66, 70, 84, 198; **NVS:** 27; **PRI:** 22, 74, 203, 218; **ROS:** 335; **SAK:** 198; **SMO:** 101, 198; **TVE:** 19, 76; **VGG:** 157, 198, 212, 220, 223, 328; **VOR:** 167, 239, 249.

Diachea splendens Peck – **KHA:** 198; **LEN:** 195, 197, 212, 237, 282; **PRI:** 74, 203; **SAK:** 198.

Diachea subsessilis Peck – **PRI:** 21; **VGG:** 198, 220, 223, 284, 285, 328, 329, 330.

Diacheopsis effusa Kowalski – **KR:** 198; **MUR:** 34, 36, 196, 205, 210, 212, 290.

Diacheopsis metallica Meyl. – **BU:** 198; **KHM:** 52; **KYA:** 120, 122, 123, 124, 198; **MUR:** 34, 36; **PER:** 50; **SVE:** 44^{CF}, 48, 50, 198, 236; **TVE:** 20.

- Diacheopsis nannengae* G.Moreno, Illana & Heykoop – MUR: 65^{CF} 67.
- Diacheopsis reticulospora* Mar.Mey. & Poulain – MUR: 34, 36.
- Dianema corticatum* Lister – AL: 215; KL: 198, 220, 223, 328; KR: 198, 212, 254; PRI: 218; ROS: 220, 223; TOM: 117, 132, 198; VGG: 212, 328.
- Dianema depressum* (Lister) Lister – CR: 244; VOR: 239, 249.
- Dianema harveyi* Rex – ALT: 317; CR: 148.
- Dianema mongolicum* Novozh. – AL: 214, 215.
- Dianema subretisporum* Kowalski – KC: 34, 217, 255.
- Dictydiaethalium plumbeum* (Schumach.) Rostaf. – AL: 215; CHU: 196, 198, 210, 212, 290; CR: 148, 243, 244; KRS: 185, 198; KYA: 122, 124; LEN: 195, 198, 199, 212, 237; MAG: 198; MOS: 7, 9, 11, 66, 70, 84, 164, 198; PSK: 73, 140; STA: 198; SVE: 50; TVE: 136, 142, 165, 166, 198, 204; YAN: 50, 196, 198, 210, 212, 290.
- Diderma alpinum* (Meyl.) Meyl. – KAM: 219; KC: 34, 217; KR: 35; LEN: 34, 35, 261; MOS: 6, 7, 66, 70, 198; MUR: 34, 36, 67.
- Diderma asteroides* (Lister & G.Lister) G.Lister – KO: 50, 198; KR: 198, 212, 254.
- Diderma brooksii* Kowalski – PER: 50; SVE: 198.
- Diderma chondrioderma* (de Bary & Rostaf.) Kuntze – KDA: 68; MOS: 66, 70, 164; PRI: 218; SA: 288; TVE: 166.
- Diderma cinereum* Morgan – AST: 198, 213; MOS: 63, 84; PSK: 73; TVE: 19, 76.
- Diderma cor-rubrum* T.Macbr. – PRI: 218.
- Diderma crustaceum* Peck – MOS^{DR}: 15; SAM: 153.
- Diderma deplanatum* Fr. – ALT: 315; AST: 220, 222, 223, 328; KYA: 120, 122, 123, 124, 198; LEN: 182, 183, 195, 198, 212, 237, 323; MOS: 66; MUR: 196, 198, 205, 210, 212, 290; NVS: 301, 308; PRI: 218; ROS: 335; TVE: 19, 76; ZAB: 26.
- Diderma effusum* (Schwein.) Morgan – ALT: 301, 308, 310^{IG}, 316; CR: 174; KDA: 90; KR: 198; KYA: 122, 124; MOS: 6, 7, 66, 70, 84, 198, 278; NVS: 301, 308, 310^{IG}; PRI: 74, 84, 218; SA: 288; TVE: 76; VOR: 171, 248, 249.
- Diderma europaeum* (Buyck) Kuhnt – KAM: 219; KC: 34, 217; KR: 34; LEN: 261; MUR: 34, 36.
- Diderma evelinae* (Meyl.) Kowalski – ALT: 301, 307, 308.
- Diderma fallax* (Rostaf.) E.Sheld. – KAM: 297; KC: 34, 217; KHM: 52, 58; MOS^{DR}: 6, 198; PER: 50; TVE: 79, 80, 136, 179, 198, 204, 282.
- Diderma floriforme* (Bull.) Pers. – CHE: 50, 198; KO: 50, 198; KRS: 185, 198; LEN: 182, 183, 195, 197, 198, 212, 237, 282; MOS: 7, 66, 70; PRI: 218^{CF}; SAK: 198; SVE: 50, 198, 236; TVE: 19, 141.
- Diderma globosum* Pers. – ALT: 317; CR: 242, 243, 244; KLU: 101, 198; KR: 198, 212, 254; LEN: 101, 182, 183, 195, 198, 212, 246, 323; MOS: 6, 7, 66, 198; PRI: 218; ROS: 335; SAK: 198; SAM: 153, 154; SVE: 50^{CF}; TA: 101, 198, 262; TVE: 182; VGG: 198, 220, 223, 284, 285, 328.
- Diderma hemisphaericum* (Bull.) Hornem. – AL: 3, 215; ALT: 317; BA: 253; LEN: 101, 182, 183, 195, 198, 212, 237, 246, 323; MOS: 8, 9, 66, 70, 164, 198; NVS: 301, 307, 308; ORE: 101, 198; TVE: 136, 165, 166, 198, 204; VGG: 157.
- Diderma meyeriae* H.Singer, G.Moreno, Illana & A.Sánchez – KC: 34, 217, 255; MUR: 34, 36, 67.
- Diderma montanum* (Meyl.) Meyl. – BA: 54; CR: 174; KDA: 192, 198; KHA: 198; KO: 50, 198; LEN: 180, 182, 183, 195, 198, 212, 237; MOS: 64, 164, 198; NVS: 26; ORE: 198, 202; PER: 50; PRI: 74, 203; SA: 288; SVE: 50, 51; TVE: 19, 76, 136.

Diderma niveum (Rostaf.) E.Sheld. – ARK: 143; CHU: 196, 198, 210, 212, 290; CR: 29, 30; KAM: 198, 219; KC: 34, 217, 258; KR: 34, 35; LEN: 34, 35, 101, 183, 188, 195, 197, 198, 212, 237, 258, 261, 282; MOS^{PR}: 6, 101, 198; MUR: 34, 36, 196, 198, 205, 210, 212, 290; SMO: 101, 198; SVE: 51; TVE: 19, 20, 136, 180.

Diderma ochraceum Hoffm. – LEN: 101; MOS: 6, 101; PER: 50; SMO: 101; TA: 101, 198, 262.

Diderma pseudotestaceum Novozh. & D.W.Mitch. – PRI: 218.

Diderma radiatum (L.) Morgan – ALT: 215, 301, 308; CHE: 50, 198; CHU: 196, 198, 210, 212, 290; CR: 242, 243, 244; IRK: 84; KHA: 198; KHM: 47, 52, 58; KO: 50, 198; KR: 96, 198, 212, 254; KYA: 122, 124, 196, 198, 210, 211, 212, 290; LEN: 101, 182, 183, 195, 198, 212, 237, 246, 323; MOS: 1, 6, 7, 64, 66, 70, 84, 93, 101, 175, 198, 278; MUR: 65, 67, 84; PER: 50; PRI: 74, 203; PSK: 73; SMO: 101, 198; STA: 198; SVE: 49, 50, 198, 201, 212, 236; TA: 198; TVE: 19, 76, 84, 141; TYU: 84, 198^{IG}; VOR: 248.

Diderma saundersii (Berk. & Broome ex Masseur) E.Sheld. – MOS: 66; PRI: 74; ZAB: 26.

Diderma sauteri (Rostaf.) E.Sheld. – LEN: 89, 101, 195, 198, 212, 237; PRI: 218.

Diderma simplex (J.Schröt.) E.Sheld. – KYA: 120, 122, 123, 124, 198; MOS^{DR}: 6, 7, 15, 198, 278; SVE: 50, 198, 201^{CF}, 212^{CF}; TVE: 136, 142^{CF}.

Diderma spumarioides (Fr. & Palmquist) Fr. – CR: 30, 174, 242, 243, 244; KAM: 198; KDA: 90, 192, 198; KHA: 198; LEN: 182, 183, 195, 198, 212, 237, 246; LIP: 198, 252; MOS: 7, 66, 70, 84; NGR: 101^{OU}; PRI: 22, 84, 218; PSK: 101^{OU}, 198; ROS: 147; SMO: 101, 198; SVE: 49; TA: 101, 198, 262; TVE: 19, 76, 136, 142; VGG: 198.

Diderma testaceum (Schrad.) Pers. – AL: 215; CR: 174, 242, 243, 244; KR: 130; LEN: 101, 182, 195, 198, 237, 323; MOS: 66, 70; PRI: 218; SMO: 101, 198; TVE: 19, 76.

Diderma umbilicatum Pers. – ALT: 215; BA: 54; MOS: 198; PER: 50; TVE: 19.

Diderma velutinum Bortnikov – PRI: 17.

Didymium anellus Morgan – AL: 214, 215; ALT: 315, 317; AST: 198, 213, 220, 222, 223, 327, 328, 333; CHE: 50, 53, 198; CR: 174, 242, 243, 244; KL: 220, 222, 223, 328; KYA: 120^{CF}, 121, 122, 123, 124, 198; LEN: 182, 183, 195, 198, 199, 212^{AGG}, 237; MOS: 66, 84, 164; NVS: 301, 308; ORE: 198, 202; PRI: 74, 218; SA: 288; SAR: 198; TVE: 76, 136, 165; VGG: 110, 157, 198, 220, 223, 284, 328, 332, 338.

Didymium annulisporum H.W.Keller & Schokn. – NVS: 301, 307, 308.

Didymium bahiense Gottsb. – AST: 213, 220, 223, 328, 333; PRI: 218.

Didymium clavus (Alb. & Schwein.) Rabenh. – AL: 215; ALT: 315; AST: 198, 220, 223, 327, 328, 333; BA: 50, 54, 198; CHU: 196, 198, 210, 212, 290; CR: 144, 174, 242, 243, 244; KHM: 52, 58; KIR: 263, 265; KO: 50, 198; KOS: 101, 198; KR: 198; KRS: 185, 198; KYA: 10, 120, 121, 122, 123, 124, 198; LEN: 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; LIP: 198, 252; MAG: 290; MOS: 4, 6, 7, 9, 11, 63, 66, 70, 84, 164, 198; NVS: 301, 308; PER: 50; PRI: 21, 218; ROS: 147; SMO: 101, 198; SVE: 50, 51, 198, 201, 212, 236; TVE: 19, 76, 136, 182; VGG: 198, 212, 220, 223, 284, 285, 328, 338; YAN: 50, 196, 198, 210, 212, 290.

Didymium comatum (Lister) Nann.-Bremek. – ALT: 301, 308; LEN: 323; NVS: 301, 308; ORE: 53.

Didymium crustaceum Fr. – ALT: 315; AST: 198, 220, 223, 327, 328, 333; BRY: 101^{OU}; CHU: 196, 198, 210, 212, 290; KHM: 47, 58; KLU: 101^{OU}; LEN: 101, 183, 195, 198, 212, 237, 246; MOS: 6, 7, 8, 15, 66, 70, 84, 101^{OU}, 164, 198, 238; ROS: 147; SMO: 101^{OU}, 198; SVE: 51; TOM: 132, 198; TVE: 6, 101^{OU}, 136, 204; TYU: 198^{IG}; VGG: 157, 198, 212, 220, 223, 284, 328.

Didymium dachnayum (G. Walker, Silberman, Karpov, Preisfeld, P. Foster, A.O. Frolov, Novozh. & Sogin) Fiore-Donno, Kamono & Caval.-Sm. – LEN: 59, 322.

Didymium difforme (Pers.) Gray – AL: 214, 215; ALT: 315, 316, 317; AST: 198, 213, 220, 221, 222, 223,

327, 328, 333; **BA**: 46, 50, 198; **CHE**: 50, 53, 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 174; **KDA**: 78; **KL**: 220, 222, 223, 328; **KLU**: 101, 198; **KOS**: 101; **KR**: 198, 212, 254; **KYA**: 120, 121, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 101, 161, 182, 183, 195, 198, 199, 212, 237, 323; **LIP**: 101^{OAU}, 198, 252; **MO**: 101^{OAU}; **MOS**: 6, 7, 8, 9, 15, 66, 70, 84, 101, 164, 198, 278; **MUR**: 196, 198, 205, 210, 212, 290; **NIZ**: 101^{OAU}, 102, 176; **ORE**: 53, 198, 202; **PNZ**: 101^{OAU}; **PRI**: 218; **PSK**: 101, 198; **RYA**: 101^{OAU}; **SAR**: 198; **SMO**: 101, 198; **SVE**: 46, 50, 51, 53, 198, 201, 212; **TA**: 101, 198, 262; **TAM**: 101^{OAU}, 198; **TVE**: 136, 142, 165, 166; **TY**: 304; **VGG**: 101, 110, 157, 198, 220, 223, 284, 328, 332, 336, 338; **VOR**: 101^{OAU}, 248, 249; **YAN**: 196, 198, 210, 290.

Didymium dubium Rostaf. – **ALT**: 301, 308, 315, 317; **AST**: 198, 220, 222, 223, 327, 328, 333; **BU**: 198; **IRK**: 198; **KAM**: 219; **KC**: 34, 217, 255; **KR**: 198, 212, 254; **KYA**: 196, 198, 210, 211, 212, 290; **LEN**: 182, 183, 195, 198, 199, 212, 237; **MOS**: 7, 8, 9, 66, 70, 198; **MUR**: 34, 36, 196, 198, 205, 210, 212, 290; **NVS**: 301, 308; **ORE**: 198, 202; **RYA**: 125, 321; **SA**: 288; **SVE**: 50, 198, 236; **VGG**: 157, 198, 212, 220, 223, 284, 328, 332, 338; **YAN**: 196, 198, 210, 290; **ZAB**: 26.

Didymium flexuosum Yamash. – **MOS**: 66^{CF}; **TVE**: 166^{CF}; **VGG**: 198, 220, 223, 257, 328, 329.

Didymium inconspicuum Nann.-Bremek. & D.W.Mitch. – **AST**: 220, 222, 223, 328, 333.

Didymium iridis (Ditmar) Fr. – **AL**: 215; **ALT**: 301, 308, 317; **AST**: 198, 213, 220, 222, 223, 328, 333; **BA**: 46, 50, 198; **CHE**: 50, 53, 198; **KDA**: 78; **KRS**: 5, 198; **MOS**: 7, 8, 63, 66, 70, 84; **NVS**: 301, 308; **ORE**: 53; **SVE**: 46, 50, 53, 198, 201, 212; **TVE**: 79, 80, 136, 137, 139, 166, 282; **VGG**: 110, 157, 198, 220, 223, 284, 328, 332; **VOR**: 167, 170, 192, 198.

Didymium karstensii Nann.-Bremek. – **ORE**: 198, 202; **PRI**: 218.

Didymium leoninum Berk. & Broome – **PRI**: 218.

Didymium listeri Masee – **KHA**: 198; **KR**: 198; **LEN**: 198.

Didymium megalosporum Berk. & M.A.Curtis – **MOS**: 84; **PRI**: 218; **VGG**: 198, 220, 223, 281, 282, 328, 338.

Didymium melanospermum (Pers.) T.Macbr. – **ALT**: 301, 308; **AST**: 198, 220, 223, 327, 328, 333; **BRY**: 101^{OAU}; **BU**: 198; **CE**: 57, 97, 98, 101; **CHU**: 196, 198, 210, 212, 290; **CR**: 30, 242, 244; **KDA**: 90; **KHM**: 47, 58; **KLU**: 101, 198; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 185, 198; **KYA**: 10, 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 96, 101, 180, 182, 183, 195, 198, 199, 212, 237, 261, 323; **LIP**: 198, 252; **MAG**: 290; **MOS**: 4, 6, 7, 8, 11, 15, 63, 64, 66, 70, 84, 101, 198, 278; **MUR**: 65, 67; **NIZ**: 176; **PER**: 198; **PNZ**: 198; **PRI**: 21, 218; **RYA**: 84; **SA**: 288; **SAK**: 198; **SAM**: 198; **SMO**: 100, 101^{OAU}, 198; **SVE**: 49^{CF}, 50, 51, 101, 198, 201, 212, 236; **TOM**: 132, 198, 233; **TVE**: 19, 76, 84, 101^{OAU}, 135, 136, 139, 141, 165, 166, 180, 182, 198, 204; **TYU**: 198^{IG}; **VGG**: 110, 198, 212, 220, 223, 284, 285, 328, 332; **VLA**: 6, 173, 198; **YAN**: 50, 196, 198, 210, 212, 290; **YAR**: 84.

Didymium mexicanum G.Moreno, Lizárraga & Illana – **AST**: 198, 220, 222, 223, 328, 329, 333; **KL**: 328; **VGG**: 110, 332.

Didymium minus (Lister) Morgan – **ALT**: 301, 308; **BRY**: 111; **CHE**: 50, 198; **CR**: 174; **KDA**: 90; **KHM**: 47, 58; **KO**: 50, 198; **MOS**: 6, 7, 8, 9, 11, 63, 66, 70, 84, 198, 238; **PER**: 50; **PRI**: 218; **RYA**: 84; **SA**: 288; **SVE**: 40, 41, 50, 198, 201, 212, 236; **TOM**: 114, 115, 117; **TVE**: 19, 76, 136, 141; **TYU**: 198^{IG}; **VGG**: 157, 198, 212, 220, 223, 284, 328, 338; **VOR**: 198.

Didymium nigripes (Link) Fr. – **ALT**: 299, 301, 302, 306, 308, 310^{IG}, 315; **AST**: 333; **CHE**: 50, 53, 198; **CHU**: 196, 210, 212, 290; **CR**: 30, 174; **KDA**: 90; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 185; **KYA**: 120, 122, 123, 124, 198; **LEN**: 89, 101, 182, 183, 195, 198, 199, 212, 237, 323; **LIP**: 198, 252; **MOS**: 4, 6, 7, 9, 63, 64, 66, 70, 84, 164, 198, 278; **NVS**: 301, 308, 310^{IG}; **PER**: 50; **PRI**: 21, 84, 218^{AGG}; **PSK**: 73; **RYA**: 125, 321; **SAK**: 198; **SVE**: 45, 50, 51, 198, 201, 212, 236; **TVE**: 6, 19, 76, 136, 142, 180, 182, 198, 204; **VGG**: 110, 198, 212, 220, 223, 284, 328, 332, 338; **VLA**: 173; **VOR**: 171, 248.

Didymium nullifilum (Kowalski) M.L.Farr – **BU**: 318; **ZAB**: 26.

Didymium ochroideum G.Lister – **ALT**: 301, 308; **SA**: 288; **TY**: 304^{CF}.

Didymium perforatum Yamash. – ALT: 301, 308; MOS: 66, 70.

Didymium projectile T.N.Lakh. & K.G.Mukerji – VLA: 85.

Didymium proximum Berk. & M.A.Curtis – AL: 198, 215; MOS: 84.

Didymium pseudodecipiens ad int. – KC: 217.

Didymium quitense (Pat.) Torrend – AL: 214, 215^{CF}; ALT: 316.

Didymium reticulosporum Novozh. & Zemly. – VGG: 207, 280, 282, 324, 325, 329, 330, 331, 334.

Didymium serpula Fr. – ALT: 315; KYA: 120^{CF}, 123, 124, 198; LEN: 101, 183, 195, 197, 198, 237, 282, 323; LIP: 198, 252; MOS: 8, 63, 66, 70; NIZ: 176; SMO: 101, 198; TVE: 76; VOR: 249.

Didymium squamulosum (Alb. & Schwein.) Fr. & Palmquist – AL: 134, 215; ALT: 215, 301, 308, 310^{IG}, 315, 316, 317; AST: 198, 213, 220, 222, 223, 327, 328, 333; BA: 46, 50, 198; BRY: 101^{OU}; BU: 198; CHE: 50, 53, 198; CHU: 198, 210; CR: 84, 174, 242, 243, 244; IRK: 198; KDA: 78, 192, 198; KK: 295^{IG}; KLU: 101^{OU}; KR: 198, 212, 254; KRS: 5, 198; KYA: 101, 120, 121, 122, 124, 196, 198, 210, 211, 212, 290, 295^{IG}; LEN: 101, 161, 182, 183, 195, 198, 199, 212, 237, 246, 323; LIP: 198, 252; MAG: 288, 290; MOS: 4, 6, 7, 8, 9, 11, 15, 66, 70, 84, 101^{OU}, 164, 198, 238; NIZ: 101, 198; NVS: 301, 308, 310^{IG}; ORE: 50, 53, 198, 202; PRI: 21, 74, 84, 218; SA: 288; SAM: 153, 154; SMO: 101^{OU}, 198; SVE: 46, 50, 53, 198; TOM: 115; TVE: 19, 76, 101^{OU}, 136, 165, 166; TY: 304; TYU: 84; VGG: 110, 157, 198, 212, 220, 223, 281, 284, 285, 328, 332, 336, 338; VOR: 167, 170; YAN: 196, 198, 210, 290.

Didymium sturgisii Hagelst. – CR: 148, 192.

Didymium trachysporum G.Lister – AST: 198, 213, 220, 221, 222, 223, 328, 333; CR: 174, 243, 244; KL: 198, 328; MOS: 15; SAR: 198; VGG: 110, 157, 198, 220, 223, 284, 328, 332, 338.

Didymium vaccinum (Durieu & Mont.) Buchet – ORE: 198, 202; VGG: 27, 280.

Echinostelium apitectum K.D.Whitney – ALT: 301, 308, 310^{IG}, 316, 317; AST: 333; CR: 241, 243, 244; KDA: 192; KIR: 108, 265; KR: 198; KYA: 122, 124; LEN: 198; MOS: 66, 164; NVS: 301, 308, 310^{IG}; PRI: 218; VGG: 110, 127, 128, 332, 337; ZAB: 26.

Echinostelium arboreum H.W.Keller & T.E.Brooks – AST: 213, 220, 222, 223, 328, 333; BA: 50; CR: 243, 244; ORE: 53; VGG: 198.

Echinostelium brooksii K.D.Whitney – AL: 215; ALT: 301, 308, 310^{IG}, 316; KR: 198; KYA: 122, 124, 196, 198, 210, 211, 212, 290; NVS: 310^{IG}; SVE: 50, 198; VGG: 128, 282, 338.

Echinostelium colliculosum K.D.Whitney & H.W.Keller – AL: 214, 215; ALT: 317; AST: 198, 213, 220, 221, 222, 223, 327, 328, 333; CR: 186, 244; ORE: 198, 202; SAR: 198; VGG: 128, 198, 220, 223, 328, 332, 338.

Echinostelium corynophorum K.D.Whitney – AL: 214, 215.

Echinostelium cribrarioides Alexop. – AL: 214, 215; SVE: 198.

Echinostelium elachiston Alexop. – AST: 333; CR: 192, 244; KDA: 192, 198; KIR: 108, 265; KYA: 122, 124; ORE: 53, 198, 202; SVE: 50, 198; VGG: 280.

Echinostelium fragile Nann.-Bremek. – AL: 215; ALT: 215, 310^{IG}, 316, 317; CR: 244; KYA: 122, 124; NVS: 310^{IG}; VGG: 128, 282, 338.

Echinostelium lunatum L.S.Olive & Stoian. – AST: 220^{CF}, 222^{CF}; CR: 192.

Echinostelium microsporum A.Vlasenko – KHM: 314.

Echinostelium minutum de Bary – AL: 214, 215; ALT: 215, 301, 308, 310^{IG}, 315, 316, 317; AST: 198, 213, 220, 221, 222, 223, 328, 333; BA: 50, 198; BU: 198; CHE: 50, 198; CHU: 196, 198, 210, 212, 290; CR: 186, 192, 241, 242, 243, 244; KDA: 78, 192, 198; KHM: 52; KIR: 274, 275, 276; KO: 50; KR: 130, 198, 212, 254; KYA: 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; LEN: 161, 195, 198, 199, 212, 237; MAG: 288, 290; MOS: 7, 66, 159, 160, 164; MUR: 196, 198, 205, 210, 212, 290;

NVS: 301, 308, 310^{IG}; **ORE:** 50; **PER:** 50; **PRI:** 74, 218; **PSK:** 140; **ROS:** 147; **SAM:** 155; **SVE:** 43, 44, 45, 50, 51, 55, 198, 201, 212, 236; **TVE:** 19, 76, 136, 165, 166, 179; **VGG:** 110, 128, 157, 198, 220, 223, 328, 332, 338; **VOR:** 192, 198; **YAN:** 50, 196, 198, 210, 212, 290.

Echinostelium novozhilovii A.Vlasenko – **KHM:** 313.

Enerthenema intermedium Nann.-Bremek. & R.L.Critchf. – **PRI:** 218.

Enerthenema papillatum (Pers.) Rostaf. – **AL:** 3, 134, 191, 214, 215; **ALT:** 301, 308, 310^{IG}, 317; **AST:** 333; **BA:** 50, 198; **CHE:** 50, 198; **CHU:** 189, 196, 198, 210, 212, 290; **CR:** 192, 243, 244; **DA:** 162; **KDA:** 90; **KHM:** 47, 58; **KK:** 250^{IG}, 294^{IG}; **KO:** 50, 198; **KR:** 198, 212, 254; **KYA:** 101, 122, 124, 196, 198, 210, 211, 212, 250^{IG}, 290, 294^{IG}; **LEN:** 101, 161, 180, 182, 183, 195, 198, 199, 212, 237, 246; **MAG:** 198, 290; **MOS:** 1, 4, 6, 7, 11, 63, 66, 70, 84, 198; **MUR:** 65, 67, 84; **NVS:** 301, 308, 310^{IG}; **ORE:** 50, 198; **PER:** 50; **PRI:** 74, 218; **PSK:** 140; **ROS:** 147; **RYA:** 84, 125, 321; **SMO:** 101, 198; **SVE:** 40, 41, 43, 50, 51, 55, 198, 201, 212, 234, 236; **TVE:** 19, 76, 84, 136, 141, 142, 179, 182, 198, 204; **TYU:** 84, 198^{IG}; **VGG:** 198, 212, 220, 223, 284, 285, 328; **VOR:** 170; **YAN:** 50, 196, 198, 210, 212, 290.

Fuligo cinerea (Schwein.) Morgan – **AL:** 3, 134, 198, 215, 300; **AST:** 198, 213, 220, 221, 222, 223, 327, 328, 333; **CR:** 244; **KIR:** 263, 265; **KL:** 198, 220, 222, 223, 328; **LEN:** 182, 183, 195, 198, 212, 237; **LIP:** 198, 252; **MOS^{DR}:** 4, 6, 7, 198; **RYA:** 84; **TVE:** 136, 204; **VGG:** 110, 157, 198, 212, 220, 223, 284, 328, 332, 336, 338; **VOR:** 167.

Fuligo intermedia T.Macbr. – **AST:** 84.

Fuligo laevis Pers. – **BA:** 50, 54, 198; **SVE:** 236.

Fuligo leviderma H.Neubert, Nowotny & K.Baumann – **AL:** 215; **ALT:** 215, 301, 302, 306, 308, 316; **BA:** 50, 54, 198; **DA:** 162; **IRK:** 84; **KDA:** 90; **KHM:** 47, 58; **KR:** 198, 212, 254; **MOS:** 1, 11, 66, 70, 84; **NVS:** 301, 308; **PRI:** 218; **PSK:** 73; **ROS:** 147, 335; **SVE:** 49, 50, 51, 198, 236; **TVE:** 19, 76, 84, 141, 166; **TYU:** 84, 198^{IG}; **VGG:** 157, 198; **VLA:** 173.

Fuligo licentii Buchet – **NVS:** 301, 307, 308.

Fuligo luteonitens L.G.Krieglst. & Nowotny – **AL:** 215; **BA:** 54; **CHE:** 50, 198; **MOS:** 84; **NVS:** 301, 307, 308; **PSK:** 73; **SVE:** 51; **TVE:** 19, 76, 141.

Fuligo megaspora Sturgis – **KDA:** 77, 78.

Fuligo muscorum Alb. & Schwein. – **AL:** 133, 134, 215; **CHE:** 198; **KYA:** 113; **LEN:** 180, 182, 183, 195, 199, 237, 323; **NVS:** 301, 307, 308; **PSK:** 73; **SVE:** 49, 50; **TOM:** 114, 115, 132, 133; **TVE:** 19, 76, 136, 204.

Fuligo septica (L.) F.H.Wigg. – **AD:** 339; **AL:** 3, 134, 191, 215; **ALT:** 215, 301, 302, 306, 308, 316, 317; **ARK:** 143, 339; **AST:** 101, 198, 282, 327, 328, 329, 333, 339; **BA:** 50, 54, 198; **BRY:** 16, 101^{OU}, 111, 126; **CHE:** 50, 198; **CR:** 30, 101, 243, 244; **CU:** 101^{OU}; **DA:** 162; **IRK:** 232; **KB:** 101; **KC:** 57, 97, 98, 339; **KDA:** 68, 339; **KGD:** 91; **KGN:** 339; **KHM:** 47, 52, 58; **KIR:** 263, 264, 265, 268, 275, 291; **KLU:** 8, 101, 198; **KO:** 50, 198, 339; **KR:** 84, 104, 130, 143, 198, 212, 254, 339; **KRS:** 5, 101, 185, 198, 339; **KYA:** 10, 120, 122, 123, 124, 129, 198; **LEN:** 89, 96, 101, 180, 182, 183, 195, 198, 199, 212, 237, 245, 286, 287, 323; **LIP:** 198, 252; **MAG:** 198; **ME:** 101^{OU}; **MOS:** 1, 2, 4, 6, 7, 8, 9, 11, 18, 28, 63, 64, 66, 70, 84, 92, 94, 101, 158, 164, 175, 198, 278, 289; **MUR:** 84, 104, 339; **NIZ:** 176; **NVS:** 301, 308; **ORL:** 168; **PER:** 50; **PRI:** 21, 22, 177, 218; **PSK:** 73, 84, 140, 339; **ROS:** 147; **RYA:** 84, 125, 321; **SA:** 339; **SAM:** 101^{OU}; **SE:** 198, 339; **SMO:** 99, 100, 101, 198; **STA:** 57, 97, 98, 101, 198; **SVE:** 40, 41, 42, 45, 49, 50, 51, 198, 201, 212, 236; **TA:** 101^{OU}, 198, 262; **TOM:** 114, 132, 198, 233; **TVE:** 6, 19, 76, 84, 101^{OU}, 135, 136, 139, 141, 142, 166, 179, 180, 182, 198, 204, 296; **TYU:** 84, 198^{IG}, 339; **ULY:** 101^{OU}; **VGG:** 198, 257, 280, 281, 284, 285, 328, 338; **VLA:** 173; **VOR:** 101, 167, 170, 171, 198, 239, 248, 249, 339; **ZAB:** 105.

Hemitrichia abietina (Wigand) G.Lister – **AL:** 215; **BA:** 50, 198; **CR:** 243, 244; **KHA:** 198; **KYA:** 196, 198, 210, 211, 212, 290; **MOS:** 66, 70, 158; **NVS:** 301, 308; **PRI:** 74, 218; **SVE:** 50, 198, 212, 236; **TYU:** 84; **VGG:** 157, 198.

Hemitrichia calyculata (Speg.) M.L.Farr – **AL:** 3, 215; **ALT:** 215, 301, 308, 316; **BA:** 50, 198; **CR:** 144, 243, 244; **KIR:** 276, 277; **MOS:** 6, 7, 11, 64, 84; **NVS:** 301, 308; **PRI:** 69, 74, 84, 218; **PSK:** 73; **ROS:** 147; **RYA:** 84; **TVE:** 19, 76, 141; **TYU:** 84; **VGG:** 338.

Hemitrichia chrysospora (Lister) Lister – **MOS**: 7.

Hemitrichia clavata (Pers.) Rostaf. – **AL**: 3, 133, 134, 191, 215; **ALT**: 215, 301, 302, 306, 308, 316; **BA**: 50, 54, 198; **BEL**: 12; **BRY**: 16, 101^{0AU}; **CHE**: 50; **CR**: 144, 241, 244; **IRK**: 84; **KDA**: 90, 192, 198; **KHA**: 84, 198; **KHM**: 47, 52, 58; **KIR**: 269; **KK**: 295^{IG}; **KLU**: 8, 101^{0AU}; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 101, 185, 198; **KYA**: 101, 122, 124, 198, 295^{IG}; **LEN**: 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **LIP**: 198, 252; **MOS**: 1, 4, 6, 7, 8, 9, 64, 66, 70, 84, 101, 159, 160, 164, 198, 278; **MUR**: 65, 196, 205, 210, 212, 290; **NVS**: 301, 308; **ORE**: 50, 198; **PER**: 50; **PRI**: 21, 74, 203, 218; **PSK**: 73; **ROS**: 147, 335; **RYA**: 84, 125, 321; **SMO**: 101^{0AU}, 198; **STA**: 198; **SVE**: 40, 41, 42, 49, 50, 51, 198, 201, 212, 236; **TA**: 101, 198, 262; **TOM**: 132, 198; **TVE**: 19, 76, 84, 101^{0AU}, 136, 141, 180, 182, 198, 204; **TYU**: 84, 198^{IG}; **VGG**: 157, 198, 212, 220, 223, 281, 328, 336, 338; **VLA**: 173.

Hemitrichia cornuvioides Lavrov – **TOM**: 133.

Hemitrichia intorta (Lister) Lister – **KIR**: 108, 265; **LEN**: 182, 195, 212, 237; **MOS**: 6, 7, 8, 9, 66, 70, 164, 198, 278; **TVE**: 19, 79, 80, 136, 180, 181, 182, 282; **VGG**: 127, 220, 223, 328, 337.

Hemitrichia leiocarpa (Cooke) Lister – **KRS**: 12; **MOS**^{DR}: 6, 7, 198; **VGG**: 198, 220, 223.

Hemitrichia leiotricha (Lister) G.Lister – **ALT**: 317; **KO**: 50, 198; **KRS**: 5, 198; **MAG**: 288^{CF}; **MOS**: 6, 7, 8, 66, 164, 198; **SVE**: 50, 198, 201, 236.

Hemitrichia minor G.Lister – **AST**: 220, 222, 223; **CHE**: 50, 53, 198; **CR**: 242, 243, 244; **KIR**: 108, 265; **KR**: 198, 212, 254; **LEN**: 198; **MAG**: 290; **MOS**: 6, 7, 8, 66, 70, 164, 198; **ORE**: 53, 198, 202; **PRI**: 74, 218; **SVE**: 46, 50, 53, 212; **VGG**: 198, 220, 223.

Hemitrichia pardina (Minakata) Ing – **AL**: 215; **ALT**: 215, 301, 308, 315, 316, 317; **AST**: 328; **KR**: 198; **KYA**: 120, 122, 123, 124, 198; **LIP**: 198; **MAG**: 288; **NVS**: 301, 308; **ORE**: 198, 202; **SA**: 288; **SAM**: 155; **SVE**: 201; **TVE**: 19, 76, 165, 166; **VGG**: 110, 328, 332, 338.

Hemitrichia serpula (Scop.) Rostaf. ex Lister – **AL**: 3, 134, 191, 215; **ALT**: 215, 301, 308, 315, 316, 317; **BA**: 50, 54, 198; **CHE**: 50, 198; **IRK**: 84; **KDA**: 192, 198; **KHA**:

198; **KIR**: 108, 265, 267, 268, 269, 275, 276, 277; **KLU**: 8; **KYA**: 10, 122, 124, 198; **LEN**: 101, 161, 182, 183, 195, 197, 198, 212, 237, 323; **MOS**: 6, 7, 9, 64, 66, 70, 84, 164, 198, 278; **NVS**: 301, 308; **ORL**: 198; **PRI**: 21, 22, 74, 84, 203, 218; **PSK**: 73, 140, 198; **SMO**: 101, 198; **SVE**: 50, 198, 201, 212, 236; **TVE**: 19, 76, 84, 136, 141, 198, 204; **TY**: 304; **TYU**: 84; **VGG**: 110, 332; **VOR**: 171, 239, 248, 249.

Kelleromyxa fimicola (Dearn. & Bisby) Eliasson – **AL**: 37, 214, 215, 318; **ALT**: 27, 318; **AST**: 198, 213, 220, 222, 223, 328, 329, 333; **BU**: 305, 318; **NVS**: 318; **ORE**: 53.

Lamproderma aeneum Mar.Mey. & Poulain – **KAM**: 219; **KC**: 34, 217; **KR**: 34; **LEN**: 35.

Lamproderma arcyrrioides (Sommerf.) Rostaf. – **ALT**: 301, 308; **AST**: 198, 220, 223, 327, 328, 333; **CHU**: 196, 198, 210, 212, 290; **KC**: 34, 217; **KO**: 50, 198; **KR**: 34, 35, 198; **KRS**: 185, 198; **KYA**: 122, 124; **LEN**: 34, 35, 182, 183, 188, 195, 198, 212, 237, 261; **LIP**: 198, 252; **MOS**: 6, 7, 64, 66, 70, 198, 278; **MUR**: 34, 36, 196, 198, 205, 210, 212, 290; **PRI**: 74, 203; **TA**: 101, 198; **TVE**: 19, 20, 76, 136, 141; **TYU**: 84; **VGG**: 284.

Lamproderma cacographicum Bozonnet, Mar. Mey. & Poulain – **KC**: 34, 217; **MUR**: 34, 36.

Lamproderma carpatiensis ad int. – **LEN**: 261.

Lamproderma columbinum (Pers.) Rostaf. – **AL**: 191, 215; **BU**: 198; **KHA**: 198; **KHM**: 47, 58; **KO**: 50, 198; **KR**: 143, 198, 212, 254; **LEN**: 101, 182, 183, 195, 198, 199, 212, 237, 323; **LIP**: 198, 252; **MOS**: 1, 7, 9, 66, 70, 84, 198; **MUR**: 104; **NVS**: 301, 308; **PER**: 50; **PRI**: 74, 203, 218; **PSK**: 140; **SMO**: 101, 198; **SVE**: 50, 51, 198, 236; **TA**: 101, 198, 262; **TVE**: 19, 76, 136, 141, 142, 198, 204; **TYU**: 198^{IG}; **VGG**: 220, 223, 328.

Lamproderma cristatum Meyl. – **KC**: 34, 217.

Lamproderma cucumer (Meyl.) Nowotny & H.Neu- bert – **KAM**: 219; **KC**: 34, 217.

Lamproderma disseminatum Kowalski – **KHM**: 47, 58; **TYU**: 198^{IG}.

Lamproderma echinosporum Meyl. – **KAM**: 219; **KC**: 34, 217.

- Lamproderma echinulatum* (Berk.) Rostaf. – **MOS**^{DR}: 6, 198.
- Lamproderma gulielmae* Meyl. – **KR**: 198, 212, 254; **TVE**: 19.
- Lamproderma kowalskii* A.Ronikier, Lado & Mar. Mey. – **MUR**: 34, 36^{CF}.
- Lamproderma laxum* H.Neubert – **SVE**: 236.
- Lamproderma maculatum* Kowalski – **KAM**: 219; **KC**: 34, 217; **MUR**: 34, 36; **TVE**: 20.
- Lamproderma ovoideum* Meyl. – **BA**: 54; **DA**: 162^{CF}; **KAM**: 219; **KC**: 34, 217, 258; **MUR**: 34, 36; **TVE**: 20.
- Lamproderma pseudomaculatum* Mar.Mey. & Poulain – **KAM**: 219; **KC**: 34; **MUR**: 34, 36.
- Lamproderma pulchellum* Meyl. – **KC**: 34, 217; **MUR**: 34, 36.
- Lamproderma pulveratum* Mar.Mey. & Poulain – **KAM**: 219; **KC**: 34, 216, 217, 255; **MUR**: 34, 36.
- Lamproderma sauteri* Rostaf. – **BA**: 54; **KAM**: 219; **KC**: 34, 217; **KHM**: 47, 58; **KR**: 34, 198, 212, 254; **KYA**: 196, 198, 210, 211, 212, 290; **LEN**: 35, 261; **MUR**: 34, 36, 196, 198, 205, 210, 212, 290.
- Lamproderma scintillans* (Berk. & Broome) Morgan – **AL**: 215; **ALT**: 215, 301, 308, 315, 316, 317; **CHE**: 50, 53, 198; **CR**: 244; **KDA**: 78; **KLU**: 8; **KO**: 50, 198; **LEN**: 182, 183, 195, 198, 199, 212, 237; **MAG**: 290; **MOS**: 7, 8, 15, 66, 70, 84, 164; **MUR**: 65, 96; **NVS**: 301, 308; **PRI**: 74, 203, 218; **PSK**: 140; **SA**: 288; **TVE**: 19, 76, 141; **VGG**: 157, 198, 212, 220, 223, 328.
- Lamproderma spinulosporum* Mar.Mey., Nowotny & Poulain – **KC**: 34, 217, 258; **KR**: 34, 35; **LEN**: 34, 35, 258; **MUR**: 34, 36.
- Lamproderma splendens* Meyl. – **KAM**: 219; **KC**: 34, 217; **TVE**: 20.
- Lamproderma splendidissimum* Mar.Mey., Bozonnet & Poulain – **KC**: 217.
- Lamproderma zonatum* Mar.Mey. & Poulain – **KR**: 34; **LEN**: 35; **TVE**: 20.
- Leocarpus fragilis* (Dicks.) Rostaf. – **AL**: 3, 134, 214, 215; **ALT**: 299, 301, 302, 306, 308, 316; **BRY**: 101^{OU}, 111, 126; **BU**: 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 30, 84; **IRK**: 198; **IVA**: 198; **KAM**: 219; **KDA**: 90; **KHM**: 47, 52, 58, 196; **KIR**: 267, 268, 269, 275, 291; **KO**: 50, 198; **KR**: 130, 198, 212, 254; **KYA**: 10, 113, 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 261, 323; **LIP**: 198, 252; **MAG**: 198, 290; **MOS**: 1, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 94, 95, 101, 158, 164, 175, 198, 278; **MUR**: 65, 205, 210, 212, 290; **NIZ**: 176; **PER**: 50, 198; **PRI**: 21, 218; **PSK**: 73, 140; **ROS**: 335; **RYA**: 84, 125, 321; **SA**: 288; **SAM**: 154, 156; **SMO**: 101, 198; **STA**: 198; **SVE**: 40, 41, 49, 50, 51, 198, 201, 212, 236; **TA**: 101, 198, 262; **TOM**: 114, 115, 132, 198; **TVE**: 6, 19, 76, 84, 135, 136, 141, 179, 180, 182, 198, 204; **TYU**: 198^{IG}; **VGG**: 198, 220, 223, 328; **VLA**: 173; **VOR**: 248; **YAN**: 196, 198, 210, 212, 290; **YAR**: 6, 84, 198; **ZAB**: 26.
- Lepidoderma alpestroides* Mar.Mey. & Poulain – **MUR**: 34, 36.
- Lepidoderma carestianum* (Rabenh.) Rostaf. – **CHU**: 196, 198, 210, 212, 290; **KAM**: 219; **KC**: 34, 217, 255, 258, 259; **LEN**: 34, 35, 188, 195, 197, 212, 237, 282; **MOS**: 8, 66^{CF}; **MUR**: 34, 36, 67, 259.
- Lepidoderma chailletii* Rostaf. – **KAM**: 219; **KC**: 34, 217, 255, 258, 259; **KR**: 34, 35, 259; **LEN**: 34, 35, 259, 261; **MUR**: 34, 36, 67, 196, 198, 205, 210, 212, 258, 259, 290; **TVE**: 20.
- Lepidoderma crassipes* Flatau, Massner & Schirmmer – **KHM**: 47^{CF}, 58^{CF}; **TYU**: 198^{IG}.
- Lepidoderma granuliferum* (W.Phillips) R.E.Fr. – **KC**: 34, 217; **MUR**: 34, 36, 196, 198, 205, 210, 212, 290; **ZAB**: 26.
- Lepidoderma peyerimhoffii* Maire & Pinoy – **KC**: 34, 217, 255, 258.
- Lepidoderma tigrinum* (Schrad.) Rostaf. – **AL**: 215; **BA**: 54; **KDA**: 78; **KHM**: 47, 52, 58; **KO**: 50, 198; **KR**: 198, 212, 254; **KYA**: 122, 124; **LEN**: 101, 182, 183, 195,

197, 198, 199, 212, 237, 261, 282, 323; **MOS**: 6, 8, 66, 84, 198; **MUR**: 65, 67; **PER**: 50; **PSK**: 140; **SVE**: 50, 51, 198; **TVE**: 19, 76, 136, 141, 142; **TYU**: 198^{IG}.

Lepidoderma trevelyanii (Grev.) Poulain & Mar. Mey. – **BA**: 50, 198; **KR**: 198, 212, 254; **LEN**: 101, 183, 195, 197, 198, 212, 237, 282, 323; **NVS**: 301, 307, 308.

Leptoderma iridescens G.Lister – **AL**: 134; **ALT**: 301, 307; **MOS**: 164; **TOM**: 132, 198.

Licea belmontiana Nann.-Bremek. – **ALT**: 317; **AST**: 198, 213, 220, 221, 222, 223, 327, 328, 333; **CHU**: 196^{CF}, 198; **CR**: 148, 187, 192, 244; **KDA**: 192; **KIR**: 108, 265; **KLU**: 8; **KO**: 50, 198; **KYA**: 196^{CF}, 198, 211, 212^{CF}, 290^{CF}; **MOS**: 7, 8, 66, 164; **MUR**: 65; **PER**: 50; **PRI**: 218; **SVE**: 198, 236; **TVE**: 19, 76, 166; **VGG**: 127, 284, 332, 337; **VOR**: 192; **YAN**: 50, 196^{CF}, 198, 212^{CF}, 290^{CF}.

Licea biforis Morgan – **ALT**: 301, 308, 315, 316, 317; **AST**: 333; **BA**: 50, 198; **CR**: 187, 192; **KDA**: 78, 192, 198; **KYA**: 122, 124; **MAG**: 290; **MOS**: 66, 164; **PRI**: 218; **SVE**: 50, 201, 212; **TVE**: 136, 165, 166, 179, 198, 204; **VGG**: 127, 157, 198, 220, 223, 281, 284, 328, 337.

Licea castanea G.Lister – **ALT**: 317; **BA**: 198; **CR**: 192, 244; **KDA**: 192, 198; **KR**: 198, 212, 254; **KYA**: 120, 122, 123, 124, 198; **LEN**: 195, 198, 212, 237; **MOS**: 7, 66; **MUR**: 65, 67; **PER**: 50; **PRI**: 218; **SVE**: 198; **TVE**: 19; **VGG**: 110, 157, 332; **VOR**: 167, 170, 192, 198, 239, 249.

Licea chelonoides Nann.-Bremek. – **AST**: 220, 222, 223, 328; **BA**: 50, 198; **KHM**: 47, 58; **KL**: 328; **KO**: 198; **PER**: 50; **SVE**: 198, 236; **TYU**: 198^{IG}; **VGG**: 328.

Licea denudescens H.W.Keller & T.E.Brooks – **AST**: 198, 213, 220, 221, 222, 223, 327, 328, 333; **KR**: 198; **KYA**: 210^{CF}; **LEN**: 198; **MOS**: 7, 66; **VGG**: 110, 332, 337.

Licea erecta K.S.Thind & Dhillon – **ALT**: 317.

Licea inconspicua T.E.Brooks & H.W.Keller – **MOS**: 66.

Licea iridis Ing & McHugh – **BA**: 50^{CF}.

Licea kleistobolus G.W.Martin – **AL**: 215; **ALT**: 215, 301, 308, 310^{IG}, 316, 317; **AST**: 198, 213, 220, 222, 223, 327, 328, 333; **BA**: 50, 198; **CHE**: 50, 198; **CHU**: 196,

198, 210, 212, 290; **CR**: 174, 187, 192, 243, 244; **KDA**: 78, 192; **KHM**: 26; **KR**: 198, 212, 254; **KYA**: 120, 121, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 161, 195, 198, 199, 212, 237; **MOS**: 7, 15, 66, 159, 160, 164; **NVS**: 301, 308, 310^{IG}; **PRI**: 218; **ROS**: 198, 220, 223; **SAM**: 155; **SVE**: 46, 48, 50, 55, 198, 235; **TVE**: 19, 76, 165, 166; **VGG**: 157, 198, 220, 223, 328, 338; **YAN**: 50, 196, 198, 210, 212, 290; **ZAB**: 26.

Licea marginata Nann.-Bremek. – **LEN**: 195, 198, 199, 212, 237.

Licea minima Fr. – **AL**: 191, 215; **BA**: 50, 54, 198; **CHE**: 50, 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 174, 241, 243, 244; **KHM**: 47, 52, 58; **KLU**: 8; **KO**: 50, 198; **KR**: 130, 198, 212, 254; **KYA**: 122, 124, 196, 198, 210, 211, 212, 290; **LEN**: 161, 195, 198, 199, 212, 237; **MOS**: 7, 8, 66, 70, 84; **MUR**: 65, 104, 205, 210, 212, 290; **PER**: 50; **PRI**: 218; **ROS**: 147; **SVE**: 42, 43, 44, 49, 50, 51, 55, 198, 201, 212, 236; **TVE**: 19, 76, 141, 166; **TYU**: 84, 198^{IG}; **VGG**: 198, 220, 223, 280, 328; **YAN**: 50, 196, 198, 210, 212, 290.

Licea nannengae Pando & Lado – **AST**: 198, 213, 220, 222, 223, 328; **KL**: 198, 220, 222, 223, 328; **VGG**: 110, 198, 220, 223, 284, 328, 332.

Licea operculata (Wingate) G.W.Martin – **ALT**: 301, 308, 316; **BA**: 50, 198; **CHE**: 50, 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 174, 187, 192, 244; **KDA**: 192, 198; **KIR**: 275, 276; **KRS**: 185, 198; **KYA**: 118, 119, 120, 122, 123, 124, 198; **LEN**: 161, 195, 198, 199, 212, 237; **LIP**: 198; **MOS**: 7, 66, 84, 159, 160, 164; **NVS**: 301, 308; **ORE**: 198, 202; **PRI**: 74, 218; **ROS**: 198, 220, 223; **SAM**: 155; **SAR**: 198; **TVE**: 19, 76, 165, 166; **VGG**: 198, 220, 223, 328; **YAN**: 50, 196, 198, 210, 212, 290.

Licea parasitica (Zukal) G.W.Martin – **AL**: 214, 215; **ALT**: 301, 308, 310^{IG}; **AST**: 213, 220, 222, 223, 328; **BA**: 198; **CHE**: 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 174, 187, 192, 244; **KDA**: 198; **KIR**: 276; **KR**: 212, 254; **KRS**: 198; **KYA**: 120, 122, 123, 124, 198; **LEN**: 195, 198, 199, 212, 237; **LIP**: 198; **MOS**: 7, 66, 164; **NVS**: 301, 308, 310^{IG}; **ORE**: 198; **PRI**: 74, 218; **ROS**: 198; **SAR**: 198; **TVE**: 19, 76, 166; **VGG**: 110, 198, 220, 223, 284, 328, 332, 338; **VOR**: 167, 170, 192; **YAN**: 50, 196, 198, 210, 212, 290.

Licea pedicellata (H.C.Gilbert) H.C.Gilbert – **ALT**: 315, 317; **PRI**: 218.

Licea pusilla Schrad. – ALT: 315, 317; AST: 220, 222, 223, 328; BA: 54; BU: 198; CR: 148; KDA: 78; KHM: 26; KO: 50, 198; KR: 130; KYA: 122, 124; LEN: 180, 181, 182, 183, 195, 198, 212, 237, 323; MOS: 6, 7^{CF}, 8, 15, 66, 70, 198; PER: 50; PRI: 22, 74, 218; SMO: 101, 198; SVE: 42^{CF}, 44^{CF}, 50, 198, 236; TVE: 19, 76, 136, 142, 165; VGG: 127, 280, 332, 337; VOR: 248.

Licea pygmaea (Meyl.) Ing – AL: 215; PRI: 218; SVE: 236; TVE: 19, 141.

Licea rugosa Nann.-Bremek. & Y.Yamam. – PRI: 218.

Licea scintillans McHugh & D.W.Mitch. – CR: 148.

Licea scyphoides T.E.Brooks & H.W.Keller – VGG: 223.

Licea tenera E.Jahn – AL: 214, 215; ALT: 316, 317; KRS: 185, 198; KYA: 120, 121, 122, 123, 124, 198; MOS^{DR}: 6, 7, 8, 164, 198, 278; PER: 50; SVE: 198; TVE: 136, 165, 166, 179, 198, 204; VGG: 198, 220, 223, 284, 328.

Licea testudinacea Nann.-Bremek. – AL: 214, 215; ALT: 301, 308, 317; BA: 54; CHE: 50, 198; KO: 50, 198; KR: 198; KRS: 198; KYA: 122, 124, 196, 198, 210, 211, 212, 290; LEN: 198; MOS: 7, 66; MUR: 65; PRI: 218; SVE: 50, 198, 201, 212; TVE: 19, 76, 141; VGG: 198, 220, 223, 328.

Licea variabilis Schrad. – AL: 3, 134, 215, 300; ALT: 301, 308, 317; CR: 174, 243, 244; KHM: 47, 52, 58; KLU: 101, 198; KR: 198, 212, 254; LEN: 182, 183, 195, 198, 199, 212, 237; MOS: 6, 7, 8, 66, 70, 198, 278; PRI: 218; SMO: 101, 198; SVE: 50, 198, 201, 212, 236; TVE: 136, 198, 204; TYU: 198^{IG}; YAN: 50, 196, 210, 212, 290.

Licea verrucispora D.Wrigley & Lado – PRI: 218.

Lindbladia tubulina Fr. – KDA: 198; KO: 50, 198; KR: 198, 212, 254; KYA: 10, 198; LEN: 101, 182, 183, 195, 197, 198, 199, 212, 237, 282; LIP: 198, 252; MAG: 290; MOS: 6, 7, 66, 70, 198, 278; PRI: 21; SMO: 198; TA: 101, 198; TVE: 84, 136, 198, 204; TYU: 198^{IG}; VLA: 172, 173.

Listerella paradoxa E.Jahn – VOR: 32.

Lycogala confusum Nann.-Bremek. ex Ing – MOS: 63.

Lycogala conicum Pers. – KDA: 68; KIR: 268; MOS: 1, 63, 64, 66, 70, 138; PRI: 218; TVE: 79, 80, 136, 138, 198, 204, 282; VLA: 172.

Lycogala epidendrum (L.) Fr. – AL: 3, 134, 191, 214, 215, 233; ALT: 134, 215, 299, 301, 302, 306, 308, 316, 317; ARK: 143; AST: 101, 198; BA: 50, 54, 198; BEL: 12; BRY: 16, 101^{OU}, 126; CHE: 50; CHU: 189, 196, 198, 210, 212, 290; CR: 84, 101, 150, 243, 244; DA: 162; IRK: 84, 232; KAM: 198, 251, 297; KC: 57, 97, 98; KDA: 68, 192, 198; KGD: 91; KGN: 101^{IG}; KHA: 84, 198; KHM: 47, 52, 58; KIR: 14, 263, 264, 265, 266, 268, 271, 272, 274, 275, 276, 277, 291; KK: 292^{IG}; KLU: 8, 101, 198; KO: 50, 198; KR: 84, 104, 130, 198, 212, 254; KRS: 5, 101, 185, 198; KYA: 10, 101, 103, 112, 113, 120, 122, 123, 124, 129, 196, 198, 210, 211, 212, 290, 292^{IG}; LEN: 62, 87, 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 286, 287, 323; LIP: 198, 252; MAG: 198, 290; MOS: 1, 4, 6, 7, 8, 9, 11, 18, 62, 63, 64, 66, 70, 84, 101, 158, 159, 160, 164, 175, 198, 278, 289; MUR: 65, 84, 104, 106, 205, 210, 212, 290; NIZ: 176; NVS: 198, 233, 301, 308; ORE: 50, 198; ORL: 168; PER: 50; PRI: 21, 22, 69, 74, 84, 177, 203, 218; PSK: 73, 101, 140, 198; ROS: 101, 147, 198, 220, 223, 335; RYA: 84, 125, 321; SA: 231, 288, 298, 326; SAM: 153, 155, 156; SMO: 99, 100, 101^{OU}, 198; STA: 101, 198; SVE: 39, 40, 41, 42, 43, 45, 49, 50, 51, 101^{IG}, 198, 201, 212, 234, 236; TA: 101, 198, 262; TOM: 114, 132, 198, 233; TVE: 19, 76, 84, 101, 135, 136, 139, 141, 142, 166, 179, 180, 182, 198, 204, 296; TYU: 84, 101^{IG}, 198^{IG}; VGG: 157, 198, 212, 220, 223, 281, 284, 328, 336, 338; VLA: 6, 84, 173, 198; VOR: 167, 171, 239, 248, 249; YAN: 196, 198, 210, 212, 290; ZAB: 101, 105, 198.

Lycogala exiguum Morgan – AL: 214, 215; ALT: 215; AST: 333; BA: 50, 198; CHE: 50, 198; KDA: 90; KHA: 198; KHM: 47, 52, 58; KIR: 264, 265, 266, 271; KO: 50, 198; KRS: 5, 198; LEN: 180, 182, 183, 195, 198, 212, 237; MOS: 1, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 164, 198; MUR: 84; PER: 50; PRI: 69, 74, 84, 203, 218; PSK: 73; RYA: 125, 321; SVE: 49, 50, 51, 198, 201, 236; TVE: 19, 76, 84, 136, 141, 179, 180, 182, 198, 204; TYU: 84, 198^{IG}; VGG: 198, 220, 223, 280, 284, 328; VLA: 173.

Lycogala flavofuscum (Ehrenb.) Rostaf. – AL: 3, 215, 300; AST: 198, 220, 223, 327, 328, 333; BA: 198; BEL: 12; CHE: 198; IRK: 232; KHA: 198; KIR: 276, 277; KO: 198; KR: 130; KRS: 101, 185, 198; KYA: 10, 122, 124, 198; LEN: 89, 101^{OU}, 195, 198, 212, 237; MOS: 4, 7, 8,

18, 66, 70, 175; **NGR**: 101^{0AU}; **NVS**: 301, 308; **PRI**: 21, 22, 218; **PSK**: 73, 101^{0AU}; **ROS**: 335; **SMO**: 101; **SVE**: 198, 236; **TA**: 101, 198, 262; **TVE**: 136, 198, 204; **VGG**: 198, 212, 220, 223, 328, 338.

Macbrideola cornea (G.Lister & Cran) Alexop. – **ALT**: 317; **BA**: 50, 198; **CR**: 190, 192, 198, 241, 243, 244; **KDA**: 78, 190, 192, 198; **KIR**: 276; **KR**: 198, 212, 254; **KYA**: 196, 198, 210, 211, 212, 290; **LEN**: 161, 195, 198, 199, 212, 237; **MOS**: 66, 84, 159, 160, 164; **PRI**: 218; **SVE**: 212; **TVE**: 19, 76, 166; **VGG**: 198, 220, 223, 328, 337; **YAN**: 50, 196, 198, 210, 212, 290.

Macbrideola decapillata H.C.Gilbert – **CR**: 190, 241; **KDA**: 190, 192; **KYA**: 210; **PRI**: 218.

Macbrideola martinii (Alexop. & Beneke) Alexop. – **PRI**: 218.

Macbrideola oblonga Pando & Lado – **AL**: 214, 215; **AST**: 198, 213, 220, 221, 222, 223, 328, 333; **SAR**: 198; **VGG**: 60, 337.

Macbrideola synsporos (Alexop.) Alexop. – **AL**: 215; **CR**: 190, 192; **KDA**: 78, 190; **VGG**: 27, 337.

Meriderma aggregatum ad int. – **KC**: 34, 217; **KR**: 34, 35; **LEN**: 34, 35; **MUR**: 34, 36; **TVE**: 20.

Meriderma carestiae (Ces. & De Not.) Mar.Mey. & Poulain – **KC**: 34, 216, 217, 258; **KR**: 34, 35; **LEN**: 34, 35, 258; **MUR**: 34, 36, 67, 196, 205, 210, 212, 290; **TVE**: 20.

Meriderma cribrarioides (Fr.) Mar.Mey. & Poulain – **AL**: 3, 215, 300; **CR**: 29, 30; **KC**: 34, 217; **KR**: 198; **LEN**: 182, 183, 195, 198, 237, 261; **MOS**: 7^{CF}, 66, 70; **TVE**: 20.

Meriderma echinulatum (Meyl.) Mar.Mey. & Poulain – **KC**: 34, 217; **KR**: 34, 35; **LEN**: 34, 35, 261; **MUR**: 34, 36.

Meriderma fuscatum (Meyl.) Mar.Mey. & Poulain – **MUR**: 34^{CF}, 36^{CF}, 196, 205, 210, 212, 290.

Meriderma spinulisporum ad int. – **KC**: 34, 217; **KR**: 34; **LEN**: 35; **MUR**: 34, 36; **TVE**: 20^{CF}.

Meriderma verrucosporum ad int. – **KC**: 34, 217.

Metatrichia floriformis (Schwein.) Nann.-Bremek. – **AL**: 215; **ALT**: 301, 308; **IRK**: 84; **KIR**: 268, 277; **KO**: 50, 198; **KYA**: 116, 120, 122, 123, 124, 198; **LEN**: 182, 183, 195, 197, 212, 237; **MAG**: 288; **MOS**: 7, 8, 11, 63, 64, 66, 70, 84, 164; **NVS**: 301, 308; **PRI**: 218; **PSK**: 73; **SVE**: 50, 51, 198, 201, 212, 236; **TA**: 262; **TVE**: 19, 76, 136, 141, 142, 198, 204, 282; **VGG**: 338.

Metatrichia rosea (Flatau & Nann.-Bremek.) Nann.-Bremek. – **SVE**: 50, 51, 236.

Metatrichia vesparia (Batsch) Nann.-Bremek. ex G.W.Martin & Alexop. – **AL**: 3, 134, 191, 215; **ALT**: 215, 299, 301, 302, 306, 308, 316, 317; **AST**: 198, 220, 223, 327, 328, 333; **BA**: 50, 54, 198; **BRY**: 101^{0AU}, 111, 126; **CHE**: 50, 198; **CR**: 30, 174, 243, 244; **DA**: 162; **IRK**: 84; **KAM**: 251; **KDA**: 192, 198; **KHA**: 84, 198; **KHM**: 47, 52, 58; **KIR**: 107, 108, 265, 268, 269, 273, 275, 276, 277; **KLU**: 8, 101, 198; **KO**: 50, 198; **KRS**: 5, 185, 198; **KYA**: 10, 120, 122, 123, 124, 198; **LEN**: 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **LIP**: 198, 252; **MOS**: 1, 4, 6, 7, 8, 9, 11, 18, 63, 64, 66, 70, 84, 101, 158, 159, 160, 164, 175, 198, 278; **MUR**: 67; **NGR**: 101, 198; **NVS**: 301, 308; **PER**: 50; **PRI**: 69, 74, 84, 203, 218; **PSK**: 73, 101, 140, 198; **ROS**: 147, 335; **RYA**: 84, 125, 321; **SAM**: 154, 155; **SE**: 198; **SMO**: 100, 101^{0AU}, 198; **STA**: 198; **SVE**: 40, 41, 42, 49, 50, 51, 198, 201, 212, 236; **TA**: 101, 198, 262; **TOM**: 114, 115, 132, 198; **TVE**: 19, 76, 79, 84, 101^{0AU}, 136, 139, 141, 142, 166, 180, 182, 198, 204; **TYU**: 84, 198^{IG}; **ULY**: 101, 198; **VGG**: 157, 198, 212, 220, 223, 284, 328, 338; **VLA**: 173, 198; **VOR**: 167, 239, 249; **ZAB**: 198.

Mucilago crustacea P.Micheli ex F.H.Wigg. – **AL**: 3, 134, 215, 300; **ALT**: 215, 301, 308, 316; **ARK**: 143; **BA**: 101^{IG}, 198; **BRY**: 111; **BU**: 198; **CE**: 198; **CHE**: 101^{IG}; **CHU**: 196, 198, 210, 212, 290; **CR**: 30, 84, 242, 243, 244; **KAM**: 219; **KDA**: 68; **KIR**: 265, 267, 268, 269, 275, 276, 277, 291; **KLU**: 101, 198; **KO**: 198; **KR**: 104, 130; **KRS**: 5, 101, 185, 198; **KYA**: 10, 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 96, 101, 182, 183, 195, 198, 199, 212, 237, 246, 323; **LIP**: 198, 252; **MAG**: 198, 290; **MOS**: 4, 6, 7, 9, 63, 66, 70, 84, 101, 158, 164, 175, 198, 278; **MUR**: 84, 104; **ORE**: 101^{IG}, 198; **ORL**: 168, 198; **PER**: 50; **PRI**: 21, 22, 84, 218; **ROS**: 198, 220, 223, 335; **RYA**: 84, 125, 321; **SAM**: 154, 156; **SMO**: 101, 198; **STA**: 198; **SVE**: 50, 198; **TA**: 101, 198, 262; **TAM**: 101, 198; **TOM**: 117,

132, 198; **TVE**: 19, 76, 135, 136, 141, 142, 182, 198, 204; **VGG**: 157, 198, 212, 220, 223, 281, 284, 285, 328, 336, 338; **VLA**: 173; **VOR**: 167, 170, 171; **YAN**: 50, 196, 198, 210, 212, 290.

Oligonema flavidum (Peck) Peck – **LEN**: 182, 183, 195, 198, 212, 237; **MUR**: 65; **PSK**: 73; **ROS**: 147; **VGG**: 198, 212, 220, 223, 283, 328, 330.

Oligonema fulvum Morgan – **MOS**: 66; **SVE**: 50^{CF}.

Oligonema schweinitzii (Berk.) G.W.Martin – **ALT**: 317; **LEN**: 182, 183, 195, 198, 212, 237; **MOS**: 8; **ROS**: 147; **SMO**: 101, 198; **VGG**: 198, 212, 220, 223, 284, 328, 336.

Paradiacheopsis acanthodes (Alexop.) Nann.-Bremek. – **KYA**: 210.

Paradiacheopsis cribrata Nann.-Bremek. – **KYA**: 196^{CF}, 198, 210, 211^{CF}, 212, 290; **LEN**: 198; **SMO**: 198; **SVE**: 50, 55, 198, 201, 212; **TVE**: 19, 76; **VGG**: 198, 220, 223, 328.

Paradiacheopsis fimbriata (G.Lister & Cran) Hertel ex Nann.-Bremek. – **AL**: 214, 215; **ALT**: 215, 301, 308, 310^{IG}, 316; **CHE**: 50, 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 241, 243, 244; **KDA**: 78; **KO**: 50; **KR**: 198, 212, 254; **KYA**: 122, 124, 196, 198, 210, 211, 212, 290; **LEN**: 161, 195, 198, 199, 212, 237; **LIP**: 198, 252; **MAG**: 290; **MOS**: 7, 66, 164; **MUR**: 65; **NVS**: 301, 308, 310^{IG}; **PRI**: 218; **ROS**: 147; **SAM**: 155; **SVE**: 42, 43, 44, 45, 50, 51, 53, 55, 198, 201, 212, 236; **TVE**: 19, 76, 166; **YAN**: 50, 196, 198, 210, 212, 290; **ZAB**: 26.

Paradiacheopsis longipes Hooff & Nann.-Bremek. – **KR**: 198; **MUR**: 65.

Paradiacheopsis microcarpa (Meyl.) D.W.Mitch. ex Ing – **ROS**: 147^{CF}; **SVE**: 50, 198.

Paradiacheopsis rigida (Brândză) Nann.-Bremek. – **AL**: 198, 215; **ALT**: 301, 308, 310^{IG}, 317; **CR**: 148; **KDA**: 78^{CF}; **KYA**: 122, 124; **MOS**: 164; **NVS**: 301, 308, 310^{IG}; **PRI**: 218; **TVE**: 19; **VGG**: 27.

Paradiacheopsis solitaria (Nann.-Bremek.) Nann.-Bremek. – **ALT**: 301, 308, 310^{IG}, 316; **AST**: 198, 220, 221, 223, 327, 328, 333; **BA**: 50; **CHE**: 50, 198; **CR**:

192, 241, 243, 244; **KDA**: 78; **KIR**: 275; **KR**: 198, 212, 254; **KYA**: 122, 124; **LEN**: 161, 195, 198, 199, 212, 237; **MOS**: 66, 70, 159, 160, 164; **NVS**: 301, 308, 310^{IG}; **PRI**: 218; **SVE**: 44, 50, 55, 198, 201, 212; **TVE**: 19, 76, 136, 179; **VGG**: 127, 198, 220, 223, 328.

Perichaena calongei Lado, D.Wrigley & Estrada – **PRI**: 218.

Perichaena chrysosperma (Curr.) Lister – **AL**: 215; **ALT**: 84, 301, 308, 315, 317; **AST**: 198, 213, 220, 222, 223, 327, 328, 333; **BA**: 50, 198; **CHE**: 50, 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 192, 241, 242, 243, 244; **KAM**: 198; **KDA**: 78, 192, 198; **KHA**: 198; **KR**: 198, 212, 254; **KYA**: 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 161, 182, 183, 195, 198, 199, 212, 237; **MAG**: 198; **MOS**: 7, 8, 9, 66, 70, 84, 160, 164, 198; **NVS**: 301, 308; **ORE**: 198, 202; **PRI**: 74, 218; **ROS**: 147, 198, 220, 223; **SA**: 288; **SAM**: 153; **SVE**: 46; **TOM**: 117, 132, 198; **TVE**: 19, 76, 165, 166; **VGG**: 110, 157, 198, 212, 220, 223, 284, 328, 332, 336, 338; **VOR**: 167, 170, 192, 198; **YAN**: 50, 196, 198, 210, 212, 290.

Perichaena corticalis (Batsch) Rostaf. – **ALT**: 301, 308, 316, 317; **AST**: 198, 213, 220, 221, 222, 223, 327, 328, 333; **BA**: 50, 198; **CHE**: 50; **CR**: 243, 244; **DA**: 162; **KDA**: 78, 84, 192, 198; **KHA**: 198; **KIR**: 274, 275, 276; **KK**: 292^{IG}; **KL**: 198, 220, 222, 223, 328; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 5, 198; **KYA**: 101, 122, 124, 198, 292^{IG}; **LEN**: 101, 161, 180, 182, 183, 195, 198, 199, 212, 237, 323; **LIP**: 198, 252; **MAG**: 288; **MOS**: 1, 4, 6, 7, 8, 9, 66, 70, 84, 159, 160, 164, 198; **NVS**: 301, 308; **PRI**: 74, 218; **ROS**: 198, 220, 223, 335; **SA**: 288; **SAM**: 153, 154; **SMO**: 101, 198; **SVE**: 42, 45, 50, 198, 201, 212, 236; **TA**: 101, 198; **TOM**: 132, 198; **TVE**: 6, 19, 76, 84, 136, 142, 165, 166, 179, 180, 182, 198, 204; **TY**: 304; **VGG**: 110, 157, 198, 212, 220, 223, 281, 284, 285, 328, 332, 336, 338.

Perichaena depressa Lib. – **AL**: 134, 214, 215; **ALT**: 301, 308, 315, 316, 317; **AST**: 198, 213, 220, 221, 222, 223, 327, 328, 333; **CHU**: 196, 198, 210, 212, 290; **CR**: 243, 244; **KDA**: 78; **KL**: 198, 220, 222, 223, 328; **KO**: 50, 198; **KRS**: 185, 198; **KYA**: 121, 122, 124, 196, 198, 210, 211, 212, 290; **LEN**: 161, 182, 183, 195, 198, 199, 212, 237; **MOS**: 6, 7, 8, 66, 70, 84, 164, 198; **MUR**: 65; **NVS**: 301, 308; **ORE**: 198, 202; **PRI**: 21, 218; **SA**: 288; **SAM**: 154; **SMO**: 99, 100, 101, 198; **SVE**: 40, 41, 42, 48, 50, 198, 201, 212; **TVE**: 136, 165, 166, 179; **TY**: 304; **VGG**: 110, 157, 198, 220, 223, 281, 284, 328, 332, 336, 338; **ZAB**: 26.

Perichaena heterospinispora Novozh., Zemly., Schnittler & S.L.Stephenson – VGG: 224, 280, 282, 329, 330, 331, 334.

Perichaena liceoides Rostaf. – AL: 215, 318; ALT: 315, 317; AST: 198, 213, 220, 221, 222, 223, 327, 328, 333; CHU: 198, 212, 290; CR: 243, 244; KDA: 78; KL: 198, 220, 222, 223, 328; KYA: 121, 122, 124; MOS: 66, 70, 84; NVS: 318; TVE: 19, 76, 166; VGG: 110, 127, 198, 220, 223, 280, 284, 328, 332, 336, 337.

Perichaena luteola (Kowalski) Gilert – AL: 214, 215, 318; ALT: 318; AST: 213, 220, 223, 328, 329, 333; BU: 318; CR: 243, 244; NVS: 318; ZAB: 26.

Perichaena pedata (Lister & G.Lister) G.Lister ex E.Jahn – AL: 134, 215^{CF}; ALT: 301, 308, 315; CR: 174; MAG: 288; MOS: 66, 164; NVS: 301, 308; SA: 288; SVE: 236; VGG: 198, 220, 223, 328, 332, 338.

Perichaena polygonospora Novozh., Zemly., Schnittler & S.L.Stephenson – AST: 224, 329, 330, 333; VGG: 224, 330, 334.

Perichaena quadrata T.Macbr. – AST: 213, 220, 223, 327, 328, 333; CR: 148; KL: 220, 223, 328; ORE: 202; VGG: 110, 127, 198, 212, 220, 223, 280, 284, 328, 332, 336, 337; ZAB: 26.

Perichaena syncarpon T.E.Brooks – SVE: 50, 201^{CF}.

Perichaena taimyriensis Novozh. & Schnittler – CHU: 198, 206; KYA: 198, 206, 212; ZAB: 26.

Perichaena vermicularis (Schwein.) Rostaf. – AL: 134, 214, 215; ALT: 301, 308, 310^{IG}, 315, 317; AST: 198, 213, 220, 221, 222, 223, 327, 328, 333; CHE: 50, 198; CR: 241, 243, 244; KDA: 78^{CF}; KIR: 274, 276; KL: 198, 220, 222, 223, 328; KR: 198; KYA: 120, 121, 122, 123, 124, 196, 198, 210, 211, 212, 290; LEN: 195, 198, 199, 212, 237; LIP: 198; MOS: 7, 15, 66, 238; NVS: 301, 308, 310^{IG}; ORE: 198, 202; SA: 288; SAM: 153, 154; SVE: 46, 50, 198; TVE: 166; TY: 304; VGG: 110, 198, 212, 220, 223, 280, 284, 285, 328, 332, 336, 338; ZAB: 26.

Physarella oblonga (Berk. & M.A.Curtis) Morgan – KDA: 163; PRI: 163.

Physarum albescens Ellis ex T.Macbr. – KAM: 219; KC: 34, 217, 255; LEN: 261; MUR: 34, 36, 258.

Physarum album (Bull.) Chevall. – AL: 3, 215; ALT: 209, 215, 226, 301, 308, 310^{IG}, 315, 316, 317; AST: 198, 220, 223, 327, 328, 333; BA: 50, 54, 198; CHE: 50, 198; CHU: 196, 198, 210, 212, 290; CR: 30, 101, 242, 243, 244; DA: 162; KAM: 251; KDA: 68, 198; KHA: 84, 198; KHM: 47, 52, 58; KIR: 14, 263, 264, 265, 267, 268, 275, 276, 291; KLU: 101, 198; KO: 50, 198, 270; KOS: 101, 198; KR: 104, 198, 212, 254; KRS: 5, 185, 198, 209, 226; KYA: 10, 120, 122, 123, 124, 129, 196, 198, 209, 210, 211, 212, 226, 290; LEN: 89, 101, 180, 182, 183, 195, 198, 199, 209, 212, 226, 237, 286, 287, 323; LIP: 198, 252; MAG: 290; MOS: 1, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 101, 159, 160, 164, 179, 198, 278; MUR: 65, 67, 84, 104; NVS: 209, 226, 301, 308, 310^{IG}; ORE: 50; PER: 50; PRI: 69, 74, 84, 198, 203, 218; PSK: 73, 140; ROS: 147, 198, 220, 223, 335; RYA: 84; SMO: 101, 198; SVE: 40, 41, 42, 43, 45, 49, 50, 51, 198, 201, 209, 212, 226, 236; TOM: 114, 132, 198; TVE: 6, 19, 76, 84, 135, 136, 139, 141, 142, 166, 179, 180, 182, 198, 204; TYU: 84, 198^{IG}; VGG: 157, 198, 209, 212, 220, 223, 226, 281, 284, 285, 328, 332, 338; VLA: 173; VOR: 101, 167, 170, 198, 248; YAN: 50, 196, 198, 210, 212, 290.

Physarum alpestre Mitchel, S.W.Chapm. & M.L. Farr – KAM: 219; KC: 34, 217, 255.

Physarum alpinum (Lister & G.Lister) G.Lister – AL: 3, 215; KAM: 219; KC: 34, 217; LEN: 180, 182, 183, 195, 197, 198, 212, 237, 282; MUR: 67; SVE: 212.

Physarum apiculosporum Härk. – AST: 220, 222, 223, 328, 333; IRK: 33; KYA: 121^{CF}, 122^{CF}, 124^{CF}; MOS: 66; VGG: 110, 157, 198, 220, 223, 328, 332.

Physarum aurantiacum Shuang L.Chen, Yu Li & H.Z.Li – PRI: 218; SVE: 236.

Physarum auripigmentum G.W.Martin – PRI: 218.

Physarum auriscalpium Cooke – ALT: 310^{IG}; KIR: 274, 276; KR: 198, 212, 254; KYA: 122, 124; LEN: 195, 197, 198, 199, 212, 237, 282; MOS: 6, 7, 11, 64, 66, 70, 198; NVS: 301, 307, 308, 310^{IG}; RYA: 84; SVE: 45, 50; TVE: 165, 166.

Physarum bethelii T.Macbr. ex G.Lister – ALT: 301, 308, 315; KYA: 122, 124; MOS: 164; PRI: 218; ROS: 147; SVE: 48, 50, 51, 198, 235, 236; TVE: 19.

Physarum bitectum G.Lister – ALT: 301, 308; AST: 198, 220, 223, 327, 328, 333; BA: 50; BU: 198; CHE: 198; IRK: 198; KR: 198, 212, 254; LEN: 182, 183, 195, 198, 212, 237; MOS: 66, 70, 164; NVS: 301, 308.

Physarum bivalve Pers. – AL: 215; ALT: 301, 308, 316, 317; CHU: 196, 198, 210, 212, 290; CR: 30, 242, 244; KDA: 90; KO: 50, 198; KR: 96, 104, 130, 198, 212, 254; KYA: 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; LEN: 101, 182, 183, 195, 198, 199, 212, 237, 323; LIP: 198, 252; MAG: 288, 290; MOS: 6, 7, 8, 66, 70, 84, 101, 198; MUR: 196, 198, 205, 210, 212, 290; ORE: 50, 198, 202; PRI: 22, 218; ROS: 198, 220, 223, 335; SA: 288; SMO: 101, 198; SVE: 48, 50, 198; TVE: 182; VGG: 198, 212, 220, 223, 284, 328, 337; VOR: 198.

Physarum braunianum de Bary – NVS: 301, 307, 308.

Physarum carneum G.Lister & Sturgis – KR: 198, 212^{CF}, 254^{CF}.

Physarum cinereum (Batsch) Pers. – AL: 3, 214, 215; ALT: 215, 301, 308, 315, 316, 317; AST: 213, 220, 222, 223, 327, 328, 333; BA: 50, 54; CHU: 196, 210, 212, 290; CR: 174, 192, 242, 243, 244; KDA: 90; KGD: 91; KHM: 52, 58; KL: 220, 222, 223, 328; KO: 50; KR: 198, 212, 254; KYA: 210, 211, 212, 290; LEN: 89, 101, 182, 183, 195, 199, 212, 237, 323; LIP: 252; MAG: 290; MOS: 6, 7, 8, 11, 63, 66, 70, 84, 164, 278; MUR: 196, 205, 210, 212, 290; NVS: 301, 308; ORE: 202; PRI: 74, 218; SA: 288; SMO: 99, 100, 101; SVE: 49, 50, 51, 236; TOM: 132; TVE: 6, 19, 76, 79, 84, 136, 204, 282, 296; VGG: 110, 212, 220, 223, 284, 285, 328, 332, 336, 338; VOR: 248, 249.

Physarum citrinum Schumach. – CR: 30, 243, 244; LIP: 198, 252; MOS: 4, 7, 66, 70; SVE: 40, 41, 50, 201, 212, 236; TVE: 79, 136, 198, 204, 282; VOR: 248.

Physarum compressum Alb. & Schwein. – AL: 134, 215; ALT: 315, 316, 317; AST: 198, 213, 220, 222, 223, 327, 328, 333; BRY: 101^{OU}; KDA: 78; KL: 328; KLU: 101^{OU}; KYA: 112, 113; LEN: 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; LIP: 198, 252; MOS: 6, 7, 8, 9, 66, 70, 94, 101^{OU}, 164, 175, 198, 278; NVS: 301, 308;

PRI: 21; SMO: 101^{OU}, 198; SVE: 46, 48, 50, 198; TOM: 132, 198; TVE: 101^{OU}, 136, 166, 198; VGG: 110, 198, 220, 223, 328, 332, 338; VOR: 192, 198; ZAB: 26.

Physarum confertum T.Macbr. – AL: 215; KR: 198; LEN: 199; MOS: 6, 7, 63, 66, 70, 198, 278; SVE: 236; TVE: 84; VGG: 198.

Physarum conglomeratum (Fr.) Rostaf. – ALT: 302, 306; KYA: 122, 124; LEN: 183, 195, 198, 212, 323; MOS: 198; NVS: 301, 308; PRI: 218; SMO: 198; SVE: 50, 198, 201, 212; TVE: 136, 198, 204; VGG: 212, 220, 223, 328.

Physarum contextum (Pers.) Pers. – ALT: 301, 308; KO: 50, 198; KR: 198, 212, 254; LEN: 101, 180, 182, 183, 195, 198, 199, 212; MOS: 6, 7, 8, 66, 70, 84, 198, 278; MUR: 96, 104; NVS: 301, 308; ORE: 198, 202; PRI: 218; SAK: 198; SMO: 101, 198; SVE: 51; TOM: 132, 198; TVE: 19, 76, 136, 142, 198, 204; VLA: 173.

Physarum crateriforme Petch – ALT: 301, 307, 308, 317; NVS: 301, 307, 308; VOR: 170.

Physarum daamsii Nann.-Bremek. – KDA: 90.

Physarum decipiens M.A.Curtis – AL: 214, 215; ALT: 215, 301, 308, 310^{IG}, 315, 316, 317; AST: 198, 213, 220, 221, 222, 223, 327, 328, 333; CR: 192, 244; KR: 198, 212, 254; KRS: 185; KYA: 120, 121, 122, 123, 124, 198; LEN: 195, 198, 199, 212, 237; MOS: 6, 7, 66, 164, 198, 278; NVS: 301, 308, 310^{IG}; ORE: 198, 202; PRI: 218; SAM: 153; SMO: 101, 198; SVE: 50, 198, 201, 212; TOM: 198; TY: 304; VGG: 110, 157, 198, 220, 223, 284, 328, 332, 338; VOR: 167, 170, 192, 198.

Physarum dictyospermum Lister & G.Lister – MOS^{DR}: 6, 7, 198.

Physarum diderma Rostaf. – AL: 198, 215; ALT: 301, 308, 317; AST: 223, 328; MOS: 8, 66, 84; NVS: 301, 308; PER: 50; ROS: 220, 223, 335; SVE: 49, 50, 198, 236; TVE: 19, 76; VGG: 198, 220, 223, 328.

Physarum didermoides (Pers.) Rostaf. – AL: 198, 215; ALT: 307, 317; AST: 198, 213, 220, 221, 222, 223, 328, 333; CHE: 50; KL: 220, 222, 223, 328; LEN: 182, 183, 195, 198, 212, 237; LIP: 198, 252; MOS: 6, 7, 8, 9, 66, 70, 84, 164, 198; NVS: 301, 308; PER: 50; SMO: 101, 198; SVE: 198; TVE: 19,

76, 136; **TY**: 304; **VGG**: 110, 198, 220, 223, 328, 332, 338.

Physarum dispersum Y.Yamam. & Nann.-Bremek.
– **NVS**: 301, 308.

Physarum dubium Nann.-Bremek. & Y.Yamam. –
SVE: 236.

Physarum famintzinii Rostaf. – **KLU**: 101, 198, 246;
KO: 50, 198; **TVE**: 79, 80, 136, 198, 204, 282.

Physarum flagellatum (Alexeieff) Fiore-Donno,
Kamono & Caval.-Sm. – **YAR**: 59.

Physarum flavicomum Berk. – **AL**: 134; **ALT**: 215,
301, 308, 315, 316; **BA**: 50, 198; **CHE**: 50, 198; **CR**: 243,
244; **KDA**: 198; **KHA**: 198; **KO**: 50, 198; **KR**: 130; **KYA**:
122, 124; **LEN**: 182, 183, 195, 198, 212, 237; **LIP**: 198,
252; **MOS**: 6, 7, 11, 63, 66, 70, 84, 101, 198; **PER**: 50;
PRI: 74, 203, 218; **ROS**: 147; **SAM**: 153, 154; **STA**: 198;
SVE: 49, 50, 198, 236; **TVE**: 19, 76, 136, 204; **VGG**: 198,
212, 220, 223, 328, 330.

Physarum flavidum (Peck) Peck – **LEN**: 182, 183,
195, 197, 198, 237, 282.

Physarum galbeum Wingate – **MOS^{DR}**: 6, 198.

Physarum globuliferum (Bull.) Pers. – **AL**: 134, 215;
ALT: 215, 301, 308, 310^{IG}, 316, 317; **BA**: 50, 54, 198;
CHE: 50, 198; **DA**: 162^{CF}; **KDA**: 90; **KLU**: 8; **KO**: 50,
198; **KR**: 198, 212, 254; **KYA**: 120, 122, 123, 124; **LEN**:
182, 183, 195, 197, 198, 212, 237, 261, 282; **LIP**: 198,
252; **MOS**: 1, 6, 7, 8, 63, 66, 70, 198; **NVS**: 301, 308,
310^{IG}; **PRI**: 69, 74, 218; **ROS**: 147; **RYA**: 84, 125, 321;
SMO: 101, 198; **SVE**: 42, 50, 51, 198, 201, 212, 236;
TOM: 132; **TVE**: 84, 136, 198, 204; **TYU**: 84; **VOR**: 248.

Physarum gyrosum Rostaf. – **ALT**: 301, 308, 317;
AST: 328, 333; **BU**: 198; **KHM**: 47, 52, 58; **KR**: 198;
LEN: 182, 183, 195, 198, 237; **LIP**: 198, 252; **MOS**: 7,
64, 66, 70; **NVS**: 301, 307, 308; **PSK**: 198; **TY**: 304; **TYU**:
198^{IG}; **VGG**: 198, 220, 223, 328.

Physarum hongkongense Chao H.Chung – **CR**: 174.

Physarum javanicum Racib. – **ALT**: 301, 308; **NVS**:
301, 307, 308.

Physarum lakhanpalii Nann.-Bremek. & Y.Yamam.
– **NVS**: 320.

Physarum lateritium (Berk. & Ravenel) Morgan –
AL: 215; **ALT**: 310^{IG}; **MAG**: 198; **MOS**: 8; **NVS**: 301,
308, 310^{IG}.

Physarum lenticulare Nann.-Bremek. & Y.Yamam.
– **NVS**: 320.

Physarum leucophaeum Fr. & Palmquist – **AL**: 3,
134, 198, 215; **ALT**: 209, 226, 301, 308, 315, 317; **AST**:
198, 213, 220, 222, 223, 327, 328, 333; **BA**: 50, 54, 198;
CR: 144, 243, 244; **DA**: 162^{CF}; **IRK**: 84; **KDA**: 68, 78;
KHA: 84, 198; **KL**: 198, 220, 222, 223, 328; **KO**: 50, 198;
KR: 198, 209, 212, 226, 254; **KRS**: 5, 185, 198, 226; **KYA**:
122, 124; **LEN**: 89, 180, 182, 183, 195, 198, 199, 209, 212,
226, 237, 323; **MAG**: 290; **MOS**: 7, 8, 9, 63, 66, 70, 84,
164, 198; **MUR**: 84, 196, 198, 205, 210, 212, 290; **NVS**:
209, 226, 301, 308; **PER**: 50; **PRI**: 74, 203, 218; **ROS**:
198, 220, 223; **STA**: 209, 226; **SVE**: 40, 41, 42, 49, 50, 51,
198, 201, 209, 212, 236; **TVE**: 19, 76, 84, 136, 165, 180,
182, 198, 204, 296; **TYU**: 84; **VGG**: 110, 157, 198, 209,
212, 220, 223, 226, 284, 328, 332, 338; **VLA**: 173; **VOR**:
167, 170; **YAN**: 196, 198, 210, 212, 290; **ZAB**: 26.

Physarum leucopus Link – **AL**: 3, 191, 198, 215; **ALT**:
301, 302, 306, 308; **BA**: 50, 198; **CHE**: 50, 198; **CR**: 242,
244; **DA**: 162^{CF}; **KDA**: 68, 84; **KHA**: 84; **KO**: 50, 198; **KR**:
198, 212, 254; **LEN**: 101, 180, 182, 183, 195, 198, 212, 237,
246, 323; **LIP**: 198, 252; **MOS**: 1, 7, 9, 11, 63, 64, 66, 70, 84,
164, 198; **NVS**: 301, 308; **PER**: 50; **PRI**: 74; **SVE**: 49, 50, 51,
198, 201, 212, 236; **TOM**: 114, 132, 198; **TVE**: 19, 76, 84,
136, 141, 142, 166; **TYU**: 84; **VGG**: 198, 220, 223, 284, 328.

Physarum licheniforme (Schwein.) Lado – **LEN**: 246.

Physarum luteolum Peck – **PRI**: 218.

Physarum melleum (Berk. & Broome) Masee –
KDA: 78, 84; **PRI**: 74, 218; **VGG**: 282, 338.

Physarum murinum Lister – **MOS^{DR}**: 6, 198, 278;
RYA: 84.

Physarum mutabile (Rostaf.) G.Lister – **ALT**: 310^{IG};
MOS: 7, 66, 70, 84, 164; **NVS**: 301, 307, 308, 310^{IG}.

Physarum newtonii T.Macbr. – **PRI**: 218.

Physarum nigripodum Nann.-Bremek. & Y.Yamam. – **NVS**: 301, 307, 308.

Physarum nitens (Lister) Ing – **AL**: 134; **MOS**: 84.

Physarum nivale (Meyl.) Mar.Mey. & Poulain – **KAM**: 219; **KC**: 34, 209, 217, 226, 258.

Physarum notabile T.Macbr. – **AL**: 3, 198, 214^{CF}, 215^{CF}; **ALT**: 209, 215, 226, 301, 308, 316, 317; **AST**: 198, 213, 220, 221, 222, 223, 327, 328; **BA**: 50, 54, 198; **KDA**: 78; **KHA**: 84; **KHM**: 52, 58; **KIR**: 274, 276; **KL**: 198, 220, 222, 223, 328; **KO**: 50, 198; **KR**: 198; **KYA**: 120, 122, 123, 124, 198; **LEN**: 182, 183, 195, 198, 212, 237; **MOS**: 1, 6, 7, 9, 66, 70, 84, 164, 179, 198; **NVS**: 209, 226, 301, 308; **ORE**: 53, 198, 202; **PER**: 50; **PSK**: 209, 226; **SAR**: 198; **SVE**: 50, 51, 198, 201, 209, 212, 226, 236; **TVE**: 19, 76, 136, 142, 179; **TYU**: 84; **VGG**: 110, 157, 198, 212, 220, 223, 284, 328, 332, 338.

Physarum nucleatum Rex – **LEN**: 180, 181, 198; **TVE**: 19; **VOR**: 167.

Physarum nudum T.Macbr. – **ALT**: 315, 317; **AST**: 198, 220, 223, 327, 328, 333; **KYA**: 196, 198, 210, 211^{CF}, 212^{CF}, 290^{CF}; **LEN**: 195, 198, 212^{CF}, 237; **MOS**: 66, 70, 278; **SVE**: 50, 198.

Physarum oblatum T.Macbr. – **CHU**: 196, 198, 210, 212, 290; **CR**: 192, 244; **KHA**: 198; **KR**: 198, 212, 254; **KYA**: 198, 210, 211, 212, 290; **LEN**: 180, 181, 182, 183, 195, 198, 212, 237; **MAG**: 290; **PRI**: 218; **SVE**: 198, 201, 212; **TVE**: 19, 79, 80, 136, 182, 282; **YAN**: 50, 196, 198, 212, 290.

Physarum ovisporum G.Lister – **VGG**: 110, 198, 220, 223, 328, 332, 337.

Physarum penetrale Rex – **KYA**: 122, 124; **PRI**: 218; **TVE**: 76, 84; **VLA**: 172.

Physarum pezizoideum (Jungh.) Pavill. & Lagarde – **KIR**: 268, 269; **LEN**: 182, 183, 195, 198, 212, 237; **MOS**: 6, 9, 66, 70, 101, 164, 198; **ROS**: 335; **STA**: 198; **VGG**: 198, 212, 220, 223, 282, 284, 285, 328, 329, 338.

Physarum polycephalum Schwein. – **KR**: 130^{CF}; **MOS**: 6, 7^{CF}, 66, 70; **TVE**: 6, 136, 204.

Physarum pseudonotabile Novozh., Schnittler & Okun – **AL**: 209; **ALT**: 225, 226, 315; **AST**: 209, 225, 226, 333; **CR**: 257; **KC**: 225, 226; **KL**: 209; **VGG**: 27, 209, 225, 226, 280, 337.

Physarum psittacinum Ditmar – **AL**: 3, 191, 198, 215, 300; **ALT**: 301, 307, 308; **BA**: 54; **BRY**: 16, 101^{OAU}; **BU**: 198; **CHE**: 50, 198; **KIR**: 268; **KO**: 50, 198; **KYA**: 122, 124; **LEN**: 323; **MOS**: 1, 4, 6, 7, 9, 64, 66, 70, 84, 198, 278; **NVS**: 301, 307, 308; **PSK**: 73; **SVE**: 49, 50, 51, 198, 201, 212, 236; **TVE**: 6, 19, 76, 84, 136, 141, 198, 204.

Physarum pulcherrimum Berk. & Ravenel – **AL**: 215; **LEN**: 182, 183, 195, 198, 212, 237; **PRI**: 218; **RYA**: 125, 321; **TVE**: 19, 76, 141.

Physarum pulcherripes Peck – **CHE**: 50; **KO**: 50; **PER**: 50; **SVE**: 50, 198, 201, 212, 236.

Physarum pusillum (Berk. & M.A.Curtis) G.Lister – **AST**: 198, 209, 220, 222, 223, 226, 327, 328, 333; **BA**: 50, 198; **CR**: 148; **KL**: 209, 220, 222, 223, 226, 328; **KYA**: 122, 124; **MOS**: 6, 7, 66, 70, 84, 164, 198; **ORE**: 198, 202; **TVE**: 165, 166.

Physarum rubiginosum Fr. & Palmquist – **BA**: 198; **KO**: 50, 198; **KYA**: 122, 124; **LEN**: 101, 183, 195, 198, 212, 237, 246, 323; **MOS**: 6, 198, 278; **SMO**: 101, 198.

Physarum schroeteri Rostaf. – **LEN**: 182, 183, 195, 237; **NVS**: 309, 311; **PRI**: 74, 203; **ROS**: 335.

Physarum serpula Morgan – **BA**: 50; **KDA**: 78; **LEN**: 182, 183, 195, 212, 237; **MOS**: 6, 7, 8, 66, 70, 84, 278; **RYA**: 125, 321; **SVE**: 50, 201^{CF}, 212; **TVE**: 136, 142, 165, 166.

Physarum sessile Brândză – **AST**: 220, 222, 223, 328, 333; **PRI**: 218.

Physarum spectabile Nann.-Bremek., Lado & G.Moreno – **MOS**: 84; **TVE**: 19, 20, 75, 76; **TYU**: 84.

Physarum stellatum (Masse) G.W.Martin – **MOS^{DR}**: 6, 198; **PRI**: 218; **VOR**: 167, 170.

Physarum straminipes Lister – **ALT**: 317; **AST**: 198, 220, 223, 327, 328, 333; **CHE**: 50, 198; **MOS**: 198; **SVE**:

42, 50, 198, 201, 212, 236; **VGG**: 110, 157, 198, 212, 220, 223, 284, 328, 332.

Physarum sulphureum Alb. & Schwein. – **CHE**: 198; **CR**: 242, 243; **CU**: 101^{0AU}; **KHA**: 198; **KHM**: 47, 58; **KR**: 198; **KYA**: 122, 124; **LEN**: 101, 183, 195, 198, 212, 237, 246; **LIP**: 198, 252; **ME**: 101^{0AU}; **MOS**: 9, 15, 198, 238; **NVS**: 301, 307, 308; **PRI**: 74, 203; **SAM**: 101^{0AU}; **SVE**: 198, 236; **TA**: 101^{0AU}, 198, 262; **TOM**: 132, 198; **TVE**: 76; **TYU**: 198^{IG}; **ULY**: 101^{0AU}.

Physarum tenerum Rex – **KDA**: 198; **KRS**: 5, 198; **LEN**: 181, 182, 183, 195, 198, 212, 237; **MOS**: 6, 7, 9, 66, 70, 198; **PRI**: 74, 218; **RYA**: 125, 321; **SVE**: 198, 201; **TVE**: 19, 136, 180, 198, 204.

Physarum umbiliciferum Y.Yamam. & Nann.-Bremek – **PRI**: 218.

Physarum vernum Sommerf. – **AST**: 198, 220, 222, 223, 327, 328, 333; **KAM**: 219; **KC**: 34, 216, 217, 255; **KDA**: 78; **KYA**: 122, 124; **LEN**: 34, 35, 181, 182, 183, 195, 198, 212, 237; **LIP**: 198, 252; **MOS**: 7, 8, 9, 11, 15, 66, 70, 84, 164, 198; **NVS**: 301, 308; **PSK**: 198; **SAM^{DR}**: 154, 156; **SVE**: 42, 44^{CF}, 46, 49, 50, 198, 201, 212; **TVE**: 19, 136, 165, 180, 198; **VGG**: 110, 157, 198, 220, 223, 284, 285, 328, 332.

Physarum virescens Ditmar – **KR**: 198, 212, 254; **KYA**: 122, 124; **LEN**: 101, 180, 182, 183, 195, 198, 199, 212, 237, 246, 323; **MOS**: 6, 7, 8, 66, 70, 84, 198, 278; **MUR**: 196, 205, 210, 212, 290; **PRI**: 218; **PSK**: 198; **TOM**: 198; **TVE**: 19, 76, 136, 179, 198; **VGG**: 198, 212, 220, 223, 328.

Physarum viride (Bull.) Pers. – **AL**: 134, 191, 215; **ALT**: 215, 301, 308, 316; **BA**: 50, 54, 198; **CHE**: 50; **CHU**: 196, 198, 210, 212, 290; **CR**: 30, 244; **KDA**: 90; **KHM**: 47, 52, 58, 196; **KIR**: 268, 291; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 5, 185, 198; **KYA**: 122, 124, 196, 198, 210, 211, 212, 290; **LEN**: 89, 101, 180, 182, 183, 195, 198, 199, 212, 237; **LIP**: 198, 252; **MOS**: 1, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 164, 198, 278; **MUR**: 196, 198, 205, 210, 212, 290; **NVS**: 301, 308; **ORE**: 198, 202; **PER**: 50; **PRI**: 21, 69, 74, 84, 203, 218; **PSK**: 73; **ROS**: 147, 198, 220, 223; **RYA**: 84, 125, 321; **SAM**: 153; **SMO**: 101, 198; **SVE**: 40, 41, 50, 51, 198, 201, 212, 236; **TOM**: 132; **TVE**: 19, 76, 84, 136, 141, 142, 182; **TYU**: 84, 198^{IG};

VGG: 157, 198, 212, 220, 223, 284, 328, 338; **VLA**: 173; **VOR**: 167, 170, 171, 248; **YAN**: 198, 210, 212, 290.

Protophysarum phloiogenum M.Blackw. & Alexop. – **ALT**: 315, 316; **AST**: 198, 213, 220, 222, 223, 328; **VOR**: 25.

Prototrichia metallica (Berk.) Masee – **AL**: 191, 215; **CHU**: 189, 196, 198, 210, 212, 290; **KHM**: 52, 58; **KO**: 50, 198; **KYA**: 196, 198, 210, 211, 212, 290; **LEN**: 101, 183, 195, 198, 212, 237; **MAG**: 198; **PER**: 50; **PRI**: 218; **SVE**: 50, 198, 201, 212; **TVE**: 79, 80, 136, 204, 282; **YAN**: 210.

Reticularia intermedia Nann.-Bremek. – **DA**: 162; **IRK**: 84; **KHM**: 47, 58; **KIR**: 276, 277; **KO**: 50, 198; **KR**: 198; **KRS**: 5, 198; **KYA**: 122, 124; **LEN**: 182, 183, 195, 198, 212, 237; **MOS**: 66, 70, 84; **MUR**: 84; **PRI**: 74; **PSK**: 73; **ROS**: 335; **SVE**: 40, 41, 50, 51, 198, 201; **TVE**: 19, 136, 198, 204; **TYU**: 198^{IG}; **VGG**: 198, 220, 223, 284, 285, 328.

Reticularia jurana Meyl. – **CR**: 174, 243; **KR**: 149, 212, 254; **KYA**: 196, 210, 211, 212, 290; **LEN**: 195, 197, 212, 237; **NVS**: 301, 307, 308; **SVE**: 201, 212; **VGG**: 212.

Reticularia liceoides (Lister) Nann.-Bremek. – **KHM**: 52, 58.

Reticularia lycoperdon Bull. – **AL**: 3, 134, 215, 300; **ALT**: 317; **BRY**: 101^{0AU}, 126; **CHU**: 189, 196, 198, 210, 212, 290; **CR**: 84, 244; **DA**: 162; **IRK**: 84; **KDA**: 68; **KHM**: 47, 52, 58; **KIR**: 268; **KLU**: 101, 198; **KO**: 50, 198; **KR**: 104, 130, 198, 212, 254; **KRS**: 5, 101, 185, 198; **KYA**: 10, 101, 129, 198, 210; **LEN**: 89, 96, 101, 182, 183, 195, 198, 212, 237, 323; **LIP**: 198, 252; **MAG**: 198; **MOS**: 4, 6, 7, 8, 9, 11, 66, 70, 84, 164, 198, 278; **MUR**: 65, 84, 96, 104; **NIZ**: 101, 176, 198; **NVS**: 198, 233, 301, 308; **PER**: 50; **PRI**: 22, 74, 177; **PSK**: 73, 101, 140, 198; **ROS**: 147; **RYA**: 125, 321; **SAM**: 154; **SE**: 198; **SMO**: 101, 198; **STA**: 57, 97, 98, 101, 198; **SVE**: 40, 41, 50, 198, 201, 212, 236; **TA**: 101, 198, 262; **TOM**: 132, 198; **TVE**: 6, 76, 84, 135, 136, 139, 142, 166, 179, 182, 198, 204; **TYU**: 101, 198^{IG}; **VGG**: 198, 212, 220, 223, 328, 338; **VLA**: 173; **VLG**: 101, 198; **VOR**: 171, 248; **ZAB**: 198.

Reticularia olivacea (Ehrenb.) Fr. – **CHU**: 189, 196, 198, 210, 212, 290; **KR**: 130; **MAG**: 198; **MO^{DRS}**: 1; 6; **SMO**: 101, 198; **TOM**: 115.

Reticularia splendens Morgan – AL: 134, 215; ALT: 301, 308; BA: 50; BU: 198; CR: 144, 244; DA: 162; KAM: 251; KHA: 84; KHM: 47, 58; KO: 50, 198; KR: 84; KYA: 112, 113, 120, 122, 123, 124, 198; LEN: 198, 199, 237; MOS: 6, 7, 66, 70, 84, 164, 198; MUR: 65, 84; NVS: 149, 301, 308; PRI: 74, 203, 218; PSK: 73; ROS: 147, 149, 198, 220, 223; SVE: 50, 51, 149, 198; TOM: 114, 115, 117, 132, 198; TVE: 136, 204; TYU: 198^{IG}; VGG: 157, 198, 220, 223, 328, 330; VLA: 173; VOR: 167, 170.

Siphoptychium casparyi Rostaf. – AST: 198, 220, 223, 328; KO: 198; SVE: 51, 198; VGG: 281, 329.

Stemonaria gracilis Nann.-Bremek. & Y.Yamam. – CR: 145, 148; KDA: 78^{CF}; MOS: 66, 70.

Stemonaria irregularis (Rex) Nann.-Bremek., R.Sharma & Y.Yamam. – AL: 133, 134, 215; ALT: 215, 301, 308, 316; BA: 50, 198; IRK: 84; KHA: 198; KO: 50, 198; LIP: 198, 252; MOS: 6, 7, 9, 66, 70, 84, 198, 278; NVS: 301, 308; PER: 50; PRI: 74, 84, 203, 218; SVE: 45, 50, 198, 201, 212, 236; TOM: 132, 198; TVE: 84; TY: 304; VGG: 88, 198, 220, 223, 282, 328, 338; VLA: 172.

Stemonaria longa (Peck) Nann.-Bremek., R.Sharma & Y.Yamam. – AST: 198, 213, 220, 223, 327, 328, 333; CR: 30, 101, 145; KO: 50, 198; LEN: 101, 183, 195, 197, 212, 237; MOS: 6, 101, 198; ROS: 335; RYA: 125, 321; SMO: 101; SVE: 51; VGG: 88, 198, 328, 338.

Stemonaria nannengae (T.N.Lakh. & K.G.Mukerji) Nann.-Bremek., R.Sharma & Y.Yamam. – ALT: 310^{IG}; NVS: 301, 307, 308, 310^{IG}.

Stemonitis axifera (Bull.) T.Macbr. – AL: 3, 134, 191, 198, 215; ALT: 215, 301, 302, 306, 308, 316, 317; AST: 220, 223, 328; BA: 50, 54, 198; BRY: 101^{OU}, 111; BU: 198; CE: 57, 97, 98, 101, 198; CHE: 50, 198; CHU: 196, 198, 210, 212, 290; CR: 30, 84, 101, 145, 242, 243, 244; DA: 162; IRK: 84; KAM: 251; KC: 57, 97, 98, 101, 198; KDA: 68, 84, 192, 198; KGD: 91; KHA: 84; KHM: 47, 52, 58, 196; KIR: 263, 264, 265, 268, 269; KL: 220, 222, 223, 328; KLU: 101^{OU}; KO: 50, 198; KR: 84, 198, 212, 254; KRS: 5, 185, 198; KYA: 10, 112, 120, 122, 123, 124, 129, 196, 198, 210, 211, 212, 290; LEN: 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 286^{DS}, 287^{DS}; LIP: 198, 252; MAG: 198, 290; MOS: 1, 2, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 92, 101, 164, 175, 198, 278; MUR: 67, 84,

106, 196, 198, 205, 210, 212, 290; NVS: 198, 233, 301, 308; ORE: 198, 202; ORL: 168; PER: 50; PRI: 21, 22, 69, 74, 84, 218; PSK: 73, 101, 198; ROS: 335; RYA: 84, 125, 321; SAM: 153, 156; SMO: 99, 100, 101^{OU}, 198; STA: 198; SVE: 40, 41, 50, 51, 198, 201, 212, 234, 236; TA: 101, 198, 262; TOM: 132, 198; TVE: 6, 19, 76, 84, 101, 135, 136, 139, 141, 166, 179, 180, 182, 198, 204, 296; TYU: 84, 198^{IG}; VGG: 88, 157, 198, 212, 220, 223, 284, 285, 328, 336, 338; VLA: 173; VOR: 167, 171, 248; YAN: 50, 196, 198, 210, 212, 290; ZAB: 101, 105, 198.

Stemonitis capillitionodosa G.Moreno, D.W.Mitch., C.Rojas & S.L.Stephenson – MUR: 319.

Stemonitis flavogenita E.Jahn – AL: 134; ALT: 317; CHE: 50; CR: 145, 174, 243, 244; KO: 50, 198; KR: 198; KYA: 122, 124; LIP: 198, 252; MOS: 4, 6, 7, 66, 70, 198, 278; PER: 50; PRI: 21, 22, 74; ROS: 147; RYA: 84; SVE: 198; TVE: 6, 84, 136, 179, 198, 204; VGG: 88, 284, 285, 338.

Stemonitis fusca Roth – AL: 3, 134, 191, 215; ALT: 215, 299, 301, 302, 306, 308, 316, 317; ARK: 143; AST: 213, 220, 222, 223, 327, 328, 333; BA: 50; BRY: 16, 101^{OU}; CHU: 196, 210, 212, 290; CR: 145, 242, 243, 244; DA: 162; KAM: 297; KC: 57, 97, 98; KDA: 78, 90, 192; KHM: 52, 58, 196; KIR: 14, 263, 264, 265, 266, 268, 269, 271, 275, 291; KK: 250^{IG}, 292^{IG}; KLU: 101; KO: 50; KOS: 101; KR: 104, 130, 143, 212, 254; KRS: 5, 185; KYA: 101, 112, 122, 124, 250^{IG}, 292^{IG}; LEN: 89, 96, 101, 183, 195, 199, 212, 237; LIP: 252; MOS: 1, 4, 6, 7, 8, 9, 11, 18, 63, 64, 66, 70, 84, 94, 101, 164, 175, 179, 278; MUR: 84, 104; NIZ: 101, 176; NVS: 233, 301, 308; ORL: 168; PER: 50; PRI: 21, 22, 74, 84, 177, 218; PSK: 73, 101; ROS: 147, 335; RYA: 125, 321; SMO: 99, 100, 101; STA: 57, 97, 98, 101; SVE: 40, 41, 42, 43, 49, 50, 51, 201, 212, 236; TA: 101, 262; TOM: 114, 132, 233; TVE: 6, 19, 76, 84, 136, 141, 179, 204; TY: 304; TYU: 84; VGG: 88, 110, 157, 212, 220, 223, 284, 285, 328, 332, 336, 337, 338; VLG: 101; VOR: 167, 170, 171, 248, 249; YAN: 210, 212, 290; YAR: 101.

Stemonitis herbatica Peck – ALT: 215, 301, 308, 316; CR: 30, 145, 174, 242, 243, 244; KYA: 122, 124; LIP: 198, 252; MOS: 4, 6, 7, 66, 70, 164, 198; PRI: 218; SVE: 50, 198, 212; TOM: 117.

Stemonitis inconspicua Nann.-Bremek. – ALT: 301, 308.

Stemonitis marjana Y.Yamam. – **PRI**: 74; **SVE**: 236.

Stemonitis pallida Wingate – **AL**: 3, 215; **AST**: 198, 220, 223, 327, 328, 333; **CHE**: 50, 198; **CR**: 30, 145, 244; **KDA**: 68; **KHM**: 47, 52, 58; **KLU**: 8; **KO**: 50, 198; **KYA**: 120, 122, 123, 124; **LEN**: 180, 181, 182, 183, 195, 198, 199, 212, 237; **MOS**: 1, 7, 8, 9, 63, 66, 70, 164, 198; **MUR**: 65; **PRI**: 74; **PSK**: 73; **SVE**: 40, 41, 42, 50, 51, 198, 201, 236; **TVE**: 19, 84, 136, 179, 180, 182, 198, 204; **TYU**: 198^{IG}; **VGG**: 88, 157, 198, 220, 223, 284, 328, 338; **VOR**: 167.

Stemonitis pseudoflavogenita A. Vlasenko et Novozh. – **KDA**: 319; **NVS**: 319.

Stemonitis splendens Rostaf. – **AL**: 3, 215; **ALT**: 215, 299, 302, 306, 316, 317; **AST**: 84, 220, 223, 327, 328, 333; **CHE**: 50, 198; **CR**: 30, 145, 244; **KDA**: 68, 90, 192; **KIR**: 265; **KR**: 84; **KRS**: 5; **KYA**: 10, 120, 122, 123, 124, 129; **LEN**: 180, 182, 183, 195, 197, 212, 237, 246, 282; **LIP**: 252; **MOS**: 4, 6, 7, 8, 9, 64, 66, 70, 84, 164, 278; **MUR**: 84; **NVS**: 301, 308; **PRI**: 74, 84, 218; **PSK**: 73, 140; **ROS**: 147; **RYA**: 84, 125, 321; **SAM**: 153, 156; **SMO**: 101; **SVE**: 50; **TOM**: 115, 132; **TVE**: 19, 76, 84, 135, 136, 139, 142, 166, 179, 182, 204; **TYU**: 84; **VGG**: 88, 157, 198, 212, 220, 223, 281, 284, 285, 328, 329, 336, 338; **VOR**: 171, 248.

Stemonitis uvifera T.Macbr. – **PRI**: 84.

Stemonitis virginiensis Rex – **BU**: 198; **CR**: 144, 145; **KHM**: 47, 58; **KO**: 50, 198; **KR**: 198, 212, 254; **LEN**: 195, 198, 199, 212, 237; **MOS**: 6, 7, 63, 66, 70, 198, 278; **MUR**: 196, 205, 210, 212, 290; **SVE**: 236; **TVE**: 19; **TY**: 304; **TYU**: 198^{IG}.

Stemonitopsis aequalis (Peck) Y.Yamam. – **AL**: 198, 215; **BA**: 54; **CR**: 148; **KDA**: 90; **KO**: 50, 198; **MOS**: 66, 70; **PRI**: 74, 218; **PSK**: 73; **SA**: 288; **SVE**: 236; **TVE**: 19, 76.

Stemonitopsis amoena (Nann.-Bremek.) Nann.-Bremek. – **AL**: 215; **ALT**: 215; **BA**: 50, 198; **CHE**: 198; **CR**: 145; **KR**: 198; **NVS**: 301, 308; **PRI**: 218; **PSK**: 73.

Stemonitopsis gracilis (G.Lister) Nann.-Bremek. – **AL**: 215; **ALT**: 215, 307, 316; **MOS**: 66, 70; **NVS**: 301, 307, 308; **PRI**: 74; **SVE**: 51; **TVE**: 76.

Stemonitopsis hyperopta (Meyl.) Nann.-Bremek. – **AL**: 191, 198, 215; **AST**: 198, 220, 223, 327, 328, 333;

BA: 54; **CR**: 145, 244; **KDA**: 78; **KL**: 198; **KO**: 50, 198; **KR**: 84, 198, 212, 254; **KYA**: 122, 124, 129; **MOS**: 1, 4, 6, 7, 9, 63, 66, 70, 84, 164, 198, 278; **MUR**: 84, 196, 205, 210, 212, 290; **PRI**: 74, 218; **PSK**: 73; **RYA**: 84; **SVE**: 40, 41, 43, 45, 50, 198, 201, 212, 236; **TVE**: 19, 76, 84, 136, 198, 204; **TYU**: 84; **VGG**: 88, 110, 157, 198, 212, 220, 223, 284, 328, 332, 338.

Stemonitopsis microspora (Lister) Nann.-Bremek. – **LEN**: 180; **SVE**: 50, 198, 201, 212.

Stemonitopsis reticulata (H.C.Gilbert) Nann.-Bremek. & Y.Yamam. – **KDA**: 78; **KR**: 254; **MOS**: 7, 66, 84; **TY**: 304.

Stemonitopsis subcaespitosa (Peck) Nann.-Bremek. – **BA**: 50; **CHE**: 198; **CR**: 241; **KYA**: 196, 198, 210, 211, 212, 290.

Stemonitopsis typhina (F.H.Wigg.) Nann.-Bremek. – **AL**: 3, 134, 198, 215; **ALT**: 215, 301, 308, 316; **BA**: 50, 198; **CHE**: 50, 198; **CHU**: 196, 198, 210, 212, 290; **CR**: 243, 244; **DA**: 162; **KAM**: 198, 251; **KDA**: 68; **KHA**: 198; **KHM**: 47, 58; **KIR**: 263, 264, 265, 266, 268, 271, 275; **KO**: 50, 198; **KR**: 130, 198, 212, 254; **KRS**: 185, 198; **KYA**: 10, 120, 122, 123, 124, 129, 198; **LEN**: 101, 180, 182, 183, 195, 198, 199, 212, 237; **LIP**: 198, 252; **MAG**: 198, 290; **MOS**: 1, 4, 6, 7, 8, 9, 11, 63, 64, 66, 70, 84, 101^{OU}, 158, 164, 198, 278, 289; **MUR**: 65, 84, 104; **NGR**: 101^{OU}; **NVS**: 301, 308; **ORL**: 168; **PER**: 50; **PRI**: 21, 69, 74, 84, 218; **PSK**: 73; **RYA**: 125, 321; **SMO**: 101, 198; **SVE**: 40, 41, 49, 50, 51, 198, 201, 212, 236; **TOM**: 132, 198; **TVE**: 19, 76, 84, 101^{OU}, 136, 141, 180, 182, 198, 204; **TYU**: 84, 198^{IG}; **VGG**: 88, 198, 212, 220, 223, 284, 328, 338; **VLA**: 173; **VOR**: 170, 248; **YAR**: 101^{OU}.

Symphytocarpus amaurochaetoides Nann.-Bremek. – **AL**: 215; **ALT**: 301, 308, 317; **CR**: 174, 243, 244; **KHM**: 52^{CF}, 58^{CF}; **KYA**: 120, 122, 124, 198; **MOS**: 66, 70, 84; **PRI**: 218; **TVE**: 136.

Symphytocarpus confluens (Cooke & Ellis) Ing & Nann.-Bremek. – **AL**: 3, 134, 198, 215; **KDA**: 78; **KR**: 198, 212, 254; **LEN**: 182, 183, 195, 199, 212, 237; **MOS**: 6, 7, 8, 66, 70, 198, 278; **TVE**: 136, 204; **VGG**: 88, 280, 338; **VOR**: 248.

Symphytocarpus flaccidus (Lister) Ing & Nann.-Bremek. – **AL**: 198, 215; **ALT**: 301, 307, 308, 310^{IG};

316; **AST**: 198, 213, 220, 222, 223; **BA**: 50, 198; **CHE**: 50, 198; **KHA**: 198; **KHM**: 47, 58; **KR**: 84, 198, 212, 254; **KYA**: 122, 124; **MAG**: 198; **MOS**: 198; **MUR**: 84; **NVS**: 310^{IG}; **PSK**: 73; **SVE**: 198, 201, 212; **TVE**: 84, 136, 179, 198, 204; **TYU**: 198^{IG}; **VGG**: 157, 198, 220, 223, 328.

Symphycarpus herbaticus Ing – **BA**: 50, 198; **KHM**: 47, 58; **TYU**: 198^{IG}.

Symphycarpus impexus Ing & Nann.-Bremek. – **CHE**: 50; **CR**: 243, 244; **KR**: 103; **MOS**: 84; **TVE**: 79, 80, 84, 136, 142, 282.

Symphycarpus trechispora (Berk. ex Torrend) Nann.-Bremek. – **KR**: 198.

Thecotubifera dictyoderma (Nann.-Bremek. & Loer.) Leontyev, Schnittler, S.L.Stephenson & Novozh. – **KHM**: 52, 58; **PRI**: 218; **SVE**: 51, 236.

Trichia affinis de Bary – **AL**: 134; **BA**: 54; **KDA**: 68; **KYA**: 10, 198; **LEN**: 101, 198; **MOS**: 7, 278; **MUR**: 65^{CF}; **ROS**: 147; **TA**: 101, 198, 262; **TOM**: 132, 198; **TVE**: 19, 141.

Trichia alpina (R.E.Fr.) Meyl. – **AL**: 134; **KAM**: 219; **KC**: 34, 217, 255; **KO**: 50, 198; **LEN**: 182, 183, 195, 197, 198, 212, 237, 282; **MUR**: 34, 36, 196, 198, 205, 210, 212, 290; **SVE**: 236; **ZAB**: 26.

Trichia botrytis (J.F.Gmel.) Pers. – **AL**: 3, 84, 191, 198, 215; **ALT**: 215, 301, 308; **BA**: 50, 54, 198; **BU**: 198; **CHE**: 50; **CHU**: 196, 198, 210, 212, 290; **CR**: 244; **IRK**: 198; **KDA**: 198; **KHA**: 198; **KHM**: 47, 52, 58; **KIR**: 108, 265; **KLU**: 84; **KO**: 50, 198; **KR**: 130, 198, 212, 254; **KYA**: 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 101, 182, 183, 195, 198, 212, 237; **LIP**: 198, 252; **MAG**: 288; **MOS**: 4, 6, 7, 8, 9, 64, 66, 70, 84, 164, 198, 278; **MUR**: 65, 67, 84, 196, 198, 205, 210, 212, 290; **NVS**: 301, 308; **PER**: 50; **PRI**: 21, 69, 74, 203, 218; **PSK**: 140; **SA**: 288; **SMO**: 101, 198; **SVE**: 42, 49, 50, 51, 198, 201, 212, 236; **TA**: 101, 198, 262; **TVE**: 6, 19, 76, 136, 139, 141, 142, 166, 179, 180, 182, 198, 204; **TYU**: 198^{IG}; **VGG**: 27; **VOR**: 101, 171, 248; **YAN**: 50, 196, 198, 210, 212, 290.

Trichia brevicapillata Sizova, Titova & Darakov – **MOS**: 6, 7, 66, 70, 278, 279.

Trichia brunnea J.J.Cox – **ALT**: 318; **AST**: 220, 223; **VGG**: 220, 223.

Trichia contorta (Ditmar) Rostaf. – **AL**: 134, 215; **ALT**: 301, 308, 317; **AST**: 220, 223, 327, 328, 329, 333; **BA**: 50, 198; **CR**: 84, 148, 243, 244; **DA**: 162; **KDA**: 78, 198; **KHM**: 47, 58; **KO**: 50, 198; **KR**: 198, 212, 254; **KRS**: 12; **KYA**: 10, 121, 122, 124; **LEN**: 180, 182, 183, 195, 198, 212, 237; **LIP**: 198, 252; **MAG**: 288; **MOS**: 6, 7, 8, 66, 70, 84, 164, 198, 278; **MUR**: 65, 67, 196, 198, 205, 210, 212, 290; **NVS**: 301, 308; **PER**: 50; **PRI**: 218; **SAM**: 155; **SMO**: 101, 198; **SVE**: 48, 49, 50, 51, 198, 201, 212, 236; **TA**: 101, 198, 262; **TOM**: 115, 132, 198; **TVE**: 19, 76, 136, 165, 166, 180, 182, 198; **TYU**: 198^{IG}; **VGG**: 157, 198, 212, 220, 223, 284, 328, 338.

Trichia crateriformis G.W.Martin – **KDA**: 78^{CF}; **MOS**^{DR}: 6, 198, 278.

Trichia decipiens (Pers.) T.Macbr. – **AL**: 3, 191, 215; **ALT**: 215, 301, 302, 306, 308, 316; **BA**: 50, 54, 198; **BRY**: 16, 101^{OU}; **CHE**: 50, 198; **CHU**: 189, 196, 198, 210, 212, 290; **CR**: 144, 241, 243, 244; **DA**: 162; **IRK**: 84; **KAM**: 198, 251, 297; **KDA**: 68; **KHA**: 198; **KHM**: 47, 52, 58; **KIR**: 107, 263, 264, 265, 266, 268, 269, 272, 273, 275, 276, 277, 291; **KLU**: 101^{OU}; **KO**: 50, 198; **KOS**: 101, 198; **KR**: 104, 198, 212, 254; **KRS**: 198; **KYA**: 10, 120, 122, 123, 124, 196, 198, 210, 211, 212, 290; **LEN**: 89, 96, 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **MAG**: 290; **MOS**: 1, 4, 6, 7, 8, 9, 11, 18, 63, 64, 66, 70, 84, 94, 101, 164, 175, 179, 198, 278; **MUR**: 65, 104, 196, 198, 205, 210, 212, 290; **NVS**: 301, 308; **PER**: 50; **PRI**: 74, 203, 218; **PSK**: 73, 101, 140, 198; **SAK**: 198; **SMO**: 101^{OU}, 198; **STA**: 198; **SVE**: 40, 41, 49, 50, 51, 198, 201, 212, 236; **TA**: 101, 198, 262; **TOM**: 132, 198; **TVE**: 19, 76, 84, 101^{OU}, 136, 141, 179, 180, 182, 198, 204; **TYU**: 84, 198^{IG}; **VGG**: 198, 212, 220, 223, 284, 285, 328, 330, 338; **VLA**: 173; **VOR**: 171, 248.

Trichia elaterensis (Mulleavy) Lado – **AST**: 198, 213, 328, 329, 330, 333; **VGG**: 198, 328, 330.

Trichia erecta Rex – **AL**: 215; **ALT**: 215; **BA**: 54; **KHM**: 47, 58; **KO**: 50, 198; **MOS**: 8, 66; **MUR**: 196, 198, 205, 210, 212, 290; **PRI**: 218; **SVE**: 236; **TVE**: 19, 76, 141; **TYU**: 198^{IG}.

Trichia favoginea (Batsch) Pers. – **AL**: 3, 191, 214, 215; **ALT**: 215, 301, 302, 306, 308, 316; **BA**: 50, 54, 198;

BRY: 16, 101^{OU}; **CHE:** 50, 198; **CR:** 30, 84, 243, 244; **DA:** 162; **KAM:** 251; **KDA:** 198; **KHA:** 198; **KHM:** 47, 58; **KIR:** 263, 264, 265, 268, 269, 272, 275, 291; **KK:** 295^{IG}; **KLU:** 101, 198; **KO:** 50, 198; **KR:** 198, 212, 254; **KRS:** 5, 101, 185, 198; **KYA:** 10, 101, 120, 122, 123, 124, 198, 295^{IG}; **LEN:** 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 286^{DS}, 287^{DS}, 323; **MOS:** 1, 4, 6, 7, 9, 11, 18, 63, 64, 66, 70, 84, 101, 164, 175, 198, 278; **MUR:** 65, 67, 196, 205, 210, 212, 290; **NGR:** 101, 198; **NVS:** 301, 308; **PER:** 50; **PRI:** 22, 74, 203, 218; **PSK:** 73, 101, 198; **RYA:** 84, 125, 321; **SAR:** 101; **SMO:** 101, 198; **STA:** 198; **SVE:** 40, 41, 49, 50, 51, 198, 201, 212, 236; **TA:** 101, 198, 262; **TOM:** 114, 132, 198; **TVE:** 6, 19, 76, 84, 101^{OU}, 136, 141, 179, 180, 182, 198, 204; **TYU:** 84, 198^{IG}; **VGG:** 157, 198, 212, 220, 223, 328, 330; **VLA:** 173; **VOR:** 171, 248; **ZAB:** 198.

Trichia flavicomma (Lister) Ing – **AL:** 198, 215; **ALT:** 301, 307, 308; **BA:** 50, 198; **CR:** 244; **KHM:** 47, 58; **KO:** 50; **KYA:** 122, 124; **SVE:** 51, 198, 236; **TYU:** 198^{IG}.

Trichia lutescens (Lister) Lister – **AL:** 3, 215; **BA:** 50, 54, 198; **CHU:** 196, 198, 210, 212, 290; **CR:** 244; **KDA:** 84; **KO:** 50, 198; **KR:** 130, 198, 212, 254; **KYA:** 196, 198, 210, 211, 212, 290; **MAG:** 288; **MOS:** 6, 7, 8, 9, 66, 70, 84, 164, 198, 278; **MUR:** 196, 198; **NVS:** 301, 308; **PER:** 50; **PRI:** 69, 74; **SVE:** 50, 198, 201, 212, 236; **TOM:** 132, 198; **TVE:** 76, 136; **YAN:** 50, 196, 198, 210, 212, 290.

Trichia mirabilis Nann.-Bremek. – **CR:** 148.

Trichia munda (Lister) Meyl. – **BU:** 198; **CHU:** 196, 198, 210, 212, 290; **CR:** 242, 243; **IRK:** 198; **KO:** 50; **KR:** 198; **KYA:** 196, 198, 210, 211, 212, 290; **MAG:** 288; **MOS:** 66, 164; **PER:** 50; **PRI:** 218; **VGG:** 27, 127, 337; **YAN:** 50, 196, 198, 210, 212, 290.

Trichia papillata AdamonYTE – **MOS:** 81.

Trichia persimilis P.Karst. – **AL:** 215; **ALT:** 301, 308; **CR:** 244; **DA:** 162; **IRK:** 84; **KLU:** 84; **KYA:** 10; **LEN:** 89, 101, 198; **MOS:** 7, 63, 66, 70, 84, 101, 164, 198; **MUR:** 65, 67; **NVS:** 301, 308; **PRI:** 74, 84, 218; **PSK:** 73; **SMO:** 101, 198; **TA:** 101, 198; **TOM:** 132, 198; **TVE:** 19, 76, 84, 141.

Trichia scabra Rostaf. – **AL:** 3, 134, 215; **ALT:** 215, 301, 302, 306, 308, 316, 317; **BA:** 50, 54, 198; **CHE:** 50, 198; **CR:** 30, 84, 244; **IRK:** 84; **KDA:** 198; **KHM:** 47, 52,

58; **KIR:** 14, 267, 268, 269; **KLU:** 8, 101, 198; **KO:** 50, 198; **KR:** 130, 198; **KRS:** 5, 198; **KYA:** 10, 120, 122, 123, 124, 198; **LEN:** 101, 180, 182, 183, 195, 198, 212, 237; **LIP:** 198, 252; **MOS:** 1, 6, 7, 8, 9, 11, 64, 66, 70, 84, 93, 94, 101, 164, 175, 198, 278; **MUR:** 65, 67; **NVS:** 301, 308; **PER:** 50; **PRI:** 21, 74, 218; **PSK:** 73, 198; **RYA:** 101, 198; **SAM:** 154; **SMO:** 101, 198; **STA:** 198; **SVE:** 49, 50, 198, 201, 212, 236; **TA:** 198; **TOM:** 132, 198; **TVE:** 6, 19, 76, 84, 136, 141, 179, 182, 198, 204; **TYU:** 198^{IG}; **VGG:** 157, 198, 212, 220, 223, 328, 338; **VOR:** 167, 171, 248.

Trichia sordida Johannesen – **KC:** 34, 217, 255; **KHM:** 47, 58; **TYU:** 198^{IG}.

Trichia subfusca Rex – **AL:** 215; **BU:** 198; **KHM:** 47, 52, 58; **KO:** 50, 198; **KR:** 198, 212, 254^{CF}; **KYA:** 122, 124; **MOS:** 6, 7, 66, 70, 198; **MUR:** 65; **NVS:** 301, 308; **PER:** 50; **PRI:** 69, 74, 218; **SVE:** 198, 201, 212, 236; **TVE:** 19, 141; **TYU:** 198^{IG}.

Trichia varia (Pers. ex J.F.Gmel.) Pers. – **AL:** 3, 56, 134, 191, 214, 215; **ALT:** 56, 215, 301, 302, 306, 308, 316, 317; **ARK:** 143; **AST:** 198, 220, 223, 327, 328, 333; **BA:** 50, 54, 198; **BRY:** 16, 101^{OU}; **CHE:** 50, 198; **CHU:** 196, 198, 210, 212, 290; **CR:** 30, 84, 144, 241, 242, 243, 244; **DA:** 162; **IRK:** 84; **KC:** 56, 57, 97, 98, 101, 198; **KDA:** 78, 84, 198; **KHA:** 84, 198; **KHM:** 47, 52, 58; **KIR:** 263, 264, 265, 267, 272, 274, 275, 276, 277, 291; **KK:** 250^{IG}, 294^{IG}; **KLU:** 101, 198; **KO:** 50, 198; **KR:** 143, 198, 212, 254; **KRS:** 5, 185; **KYA:** 10, 101, 112, 122, 124, 129, 196, 198, 210, 211, 212, 250^{IG}, 290, 294^{IG}; **LEN:** 89, 101, 180, 182, 183, 195, 198, 199, 212, 237, 323; **LIP:** 198, 252; **MAG:** 290; **MOS:** 4, 6, 7, 8, 9, 11, 18, 64, 66, 70, 84, 94, 101, 159, 160, 164, 175, 198, 278; **MUR:** 65, 67, 84; **NGR:** 101, 198; **NIZ:** 101, 176, 198; **NVS:** 56, 301, 308; **ORE:** 50; **ORL:** 168, 198; **PER:** 50; **PRI:** 21, 74, 203, 218; **PSK:** 73, 101, 140, 198; **ROS:** 147, 335; **SAM:** 153, 154; **SMO:** 99, 100, 101, 198; **STA:** 198; **SVE:** 49, 50, 51, 198, 201, 212, 234, 236; **TA:** 101, 198, 262; **TOM:** 114, 115, 132, 198; **TVE:** 19, 76, 84, 136, 141, 180, 182, 198, 204; **TYU:** 84, 198^{IG}; **VGG:** 157, 198, 212, 220, 223, 283, 328, 338; **VLA:** 173; **VOR:** 167, 171, 239, 248, 249; **YAN:** 196, 198, 210, 290.

Trichia verrucosa Berk. – **AL:** 134; **KO:** 50, 198; **KYA:** 120, 122, 123, 124; **MOS^{DR}:** 6, 7^{CF}; **SVE:** 39, 50, 198; **TVE:** 19, 136, 166, 180, 181, 198, 204.

Trichioides iridescens Novozh., Hooff & Jagers –
KC: 208; SAK: 208.

Tubifera applanata (Leontyev & Fefelov) Leontyev
& Fefelov – CHE: 146; CR: 146; KHA: 146; KO: 146;
KR: 84; MOS: 84; PSK: 73; SVE: 146; TVE: 19, 76.

Tubifera dudkae (Leontyev & G.Moreno) Leontyev,
G.Moreno & Schnittler – NVS: 149.

Tubifera ferruginosa (Batsch) J.F.Gmel. – AL: 3, 134,
149, 191, 215; ALT: 215, 299, 301, 302, 306, 308, 316;
ARK: 143; BA: 50, 198; BRY: 16, 101^{0AU}, 126; CHE: 50,
198; CR: 149, 244; DA: 162; KDA: 90; KHA: 198; KHM:
47, 52, 58; KIR: 263, 265, 267, 268; KLU: 101, 198; KO:
50, 198; KR: 96, 198, 212, 254; KRS: 5, 185, 198; KYA: 10,
122, 124, 129, 198; LEN: 89, 96, 101, 180, 182, 183, 195,
198, 199, 212, 237, 286^{DS}, 287^{DS}, 323; LIP: 198, 252; MAG:
198, 290; MOS: 1, 2, 4, 6, 7, 8, 9, 11, 18, 63, 64, 66, 70, 84,
92, 101, 158, 164, 175, 198, 278; MUR: 65, 84, 196, 198,
205, 210, 212, 290; NVS: 149, 301, 308; ORL: 168; PER:
50; PRI: 21, 22, 74, 203; PSK: 73, 140; ROS: 198, 220, 223,
335; SAM: 156; SMO: 101, 198; SVE: 40, 41, 50, 51, 198,
201, 212, 236; TA: 101, 198, 262; TOM: 132, 198; TVE: 6,
19, 76, 84, 101^{0AU}, 135, 136, 141, 142, 179, 180, 182, 198,
204, 296; TYU: 198^{IG}; ULY: 101; VGG: 198, 212, 220, 223,
328, 338; VLA: 173; VOR: 167, 171, 248.

Tubifera microsperma (Berk. & M.A.Curtis)
G.W.Martin – AL: 3, 198, 215^{CF}, 300; LEN: 180, 181,
182, 198; MOS: 4, 7, 66^{CF}; PSK: 140; SVE: 198, 201^{CF},
212^{CF}; TVE: 19, 136, 180, 181, 182, 198, 204.

Willkommangea reticulata (Alb. & Schwein.)
Kuntze – ALT: 310^{IG}, 317; KHM: 58; KYA: 120, 122,
123, 124, 198; MOS: 4, 6, 7, 66, 70, 198; NVS: 301^{CF},
308, 310^{IG}; SVE: 51, 198.

AD – 198, 339; AL – 3, 37, 56, 84, 133, 134, 149,
191, 198, 209, 214, 215, 233, 300, 318; ALT – 27, 56, 84,
134, 194, 209, 215, 225, 226, 299, 301, 302, 303, 306,
307, 308, 310, 315, 316, 317, 318; AMU – 101; ARK –
143, 339; AST – 84, 101, 198, 209, 213, 220, 221, 222,
223, 224, 225, 226, 282, 327, 328, 329, 330, 333, 339;
BA – 46, 50, 54, 101, 198, 253; BEL – 12; BRY – 16, 101,
111, 126, 198; BU – 194, 198, 305, 318; CE – 57, 97,
98, 101, 198; CHE – 50, 53, 101, 146, 198; CHU – 189,
196, 198, 206, 210, 212, 290; CR – 29, 30, 84, 101, 144,
145, 146, 148, 149, 150, 174, 186, 187, 190, 192, 198,
241, 242, 243, 244, 257; CU – 101; DA – 57, 97, 98, 162;
IRK – 33, 84, 198, 232; IVA – 198; KAM – 198, 219, 251,
297; KB – 101; KC – 34, 56, 57, 97, 98, 101, 198, 208,
209, 216, 217, 225, 226, 255, 258, 259, 339; KDA – 68,
77, 78, 84, 90, 101, 163, 190, 192, 194, 198, 319, 339;
KEM – 109; KGD – 91; KGN – 101, 339; KHA – 84, 146,
198; KHM – 26, 47, 52, 58, 196, 313, 314; KIR – 14, 107,
108, 263, 264, 265, 266, 267, 268, 269, 271, 272, 273,
274, 275, 276, 277, 291; KK – 250, 292, 293, 294, 295;
KL – 198, 209, 220, 222, 223, 226, 328; KLU – 8, 84, 101,
198, 246; KO – 50, 146, 198, 270, 339; KOS – 101, 198;
KR – 34, 35, 84, 96, 103, 104, 130, 143, 149, 198, 209,
212, 226, 240, 254, 259, 339; KRS – 5, 12, 101, 185, 198,
209, 226, 339; KYA – 10, 101, 103, 112, 113, 116, 118,
119, 120, 121, 122, 123, 124, 129, 194, 196, 198, 206,
209, 210, 211, 212, 226, 250, 290, 292, 293, 294, 295;
LEN – 34, 35, 59, 62, 87, 89, 96, 101, 161, 180, 181, 182,
183, 188, 194, 195, 197, 198, 199, 209, 212, 226, 237,
245, 246, 247, 258, 259, 261, 282, 286, 287, 322, 323;
LIP – 101, 198, 252; MAG – 198, 288, 290; ME – 101;
MO – 101; MOS – 1, 2, 4, 6, 7, 8, 9, 11, 15, 18, 28, 62, 63,
64, 66, 70, 81, 84, 92, 93, 94, 95, 101, 138, 158, 159, 160,
164, 175, 179, 198, 238, 278, 279, 289; MUR – 34, 36, 65,
67, 84, 96, 104, 106, 196, 198, 205, 210, 212, 258, 259,
290, 319, 339; NGR – 101, 198; NIZ – 101, 102, 176,
198, 227, 228, 229, 230; NVS – 26, 27, 56, 149, 198, 209,
226, 233, 301, 303, 307, 308, 309, 310, 311, 312, 318,
319, 320; ORE – 50, 53, 101, 198, 202; ORL – 168, 198;
PER – 50, 198; PNZ – 101, 198; PRI – 17, 21, 22, 69, 74,
84, 163, 177, 194, 198, 203, 218; PSK – 73, 84, 101, 140,
198, 209, 226, 339; ROS – 101, 147, 149, 198, 220, 223,
335; RYA – 84, 101, 125, 198, 321; SA – 231, 288, 298,
326, 339; SAK – 198, 208; SAM – 101, 153, 154, 155,
156, 198; SAR – 101, 198; SE – 198, 339; SMO – 99, 100,
101, 198; STA – 57, 97, 98, 101, 198, 209, 226; SVE – 39,
40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 51, 53, 55, 101, 146,
149, 198, 201, 209, 212, 226, 234, 235, 236; TA – 101,

List of publications reporting regional diversity studies

This list contains all literature sources that contain information about the diversity of myxomycetes in each region of Russia (abbreviations of the names of regions are given in Table 2).

198, 262; TAM – 101, 198; TOM – 114, 115, 117, 132, 133, 198, 233; TVE – 6, 19, 20, 75, 76, 79, 80, 84, 101, 135, 136, 137, 138, 139, 141, 142, 165, 166, 179, 180, 181, 182, 198, 204, 282, 296; TY – 304; TYU – 84, 101, 198, 339; ULY – 101, 198; VGG – 27, 60, 88, 101, 110, 127, 128, 157, 198, 207, 209, 212, 220, 223, 224, 225, 226, 257, 280, 281, 282, 283, 284, 285, 324, 325, 328, 329, 330, 331, 332, 334, 336, 337, 338; VLA – 6, 84, 85, 172, 173, 198; VLG – 101, 198; VOR – 25, 32, 101, 167, 169, 170, 171, 192, 198, 239, 248, 249, 339; YAN – 50, 196, 198, 210, 212, 290; YAR – 6, 59, 84, 101, 198; ZAB – 26, 101, 105, 194, 198.

Myxomycete diversity in Russia

According to the bibliographic sources, a total of 455 myxomycete species (recognized according to a morphological species concept) from 56 genera have been recorded in Russia to date, which comprises approximately 40% of the known global diversity. So far, no specimens of the following genera have been found in Russia: *Alwisia*, *Arcyriatella*, *Calonema*, *Cornuvia*, *Echinosteliopsis*, *Elaeomyxa*, *Leptoderma*, *Minakatella*, *Paradiachea*, *Physarina*, *Semimorula*, and *Trabrooksia*. However, it should be noted that environmental nucleotide sequences 92–93% similar to *Echinosteliopsis oligospora* D.J. Reinh. & L.S.Olive and clustering together with this species in 18S rDNA phylogeny were found in samples of forest ground litter from the Leningrad region (Shchepin et al. 2019a).

Out of the 455 known species, 319 species (70%) have been reported for the first time over the last 40 years and 120 species (26%) – over the last 15 years (Figure 1).

The most widespread and common species in Russia are *Lycogala epidendrum* (L.) Fr. (54 regions), *Fuligo septica* (L.) F.H.Wigg. (53 regions), and *Steinmonitis axifera* (Bull.) T.Macbr. (51 regions). Almost half of species (226 out of 455) are found in 5 or fewer regions.

Myxomycetes have been recorded in 76 out of 82 regions of Russia. Despite the increased interest in myxomycetes, there are still no data on biodiversity of this group in Tula and Omsk regions,

Republic of Ingushetia, Udmurt Republic, Nenets autonomous area, and Jewish autonomous region. In addition, for 21 regions there are fewer than 10 species known (Table 2, Figure 2). Further research concerning aforementioned regions would be highly relevant.

Conclusions

The presented data indicate that the research of myxomycete diversity in Russia is still fragmentary, regarding the coverage of different regions. Only a few regions, like Moscow, Leningrad, Sverdlovsk, Tver and Volgograd regions, Altai Republic, and Altai and Primorye territories have been surveyed more exhaustively. It would require much more effort to reveal the real spatial distribution of myxomycetes. It would be even more laborious to take the hidden diversity in the group into account (amoebal populations that do not or rarely fruit in a given habitat, which thus can only be studied via metabarcoding). This annotated list is a part of a larger information system, available online at russia.myxomycetes.org. We plan to maintain this website and expand its functionality in the future.

Figure 1. Timeline of the myxomycete diversity research in Russia.

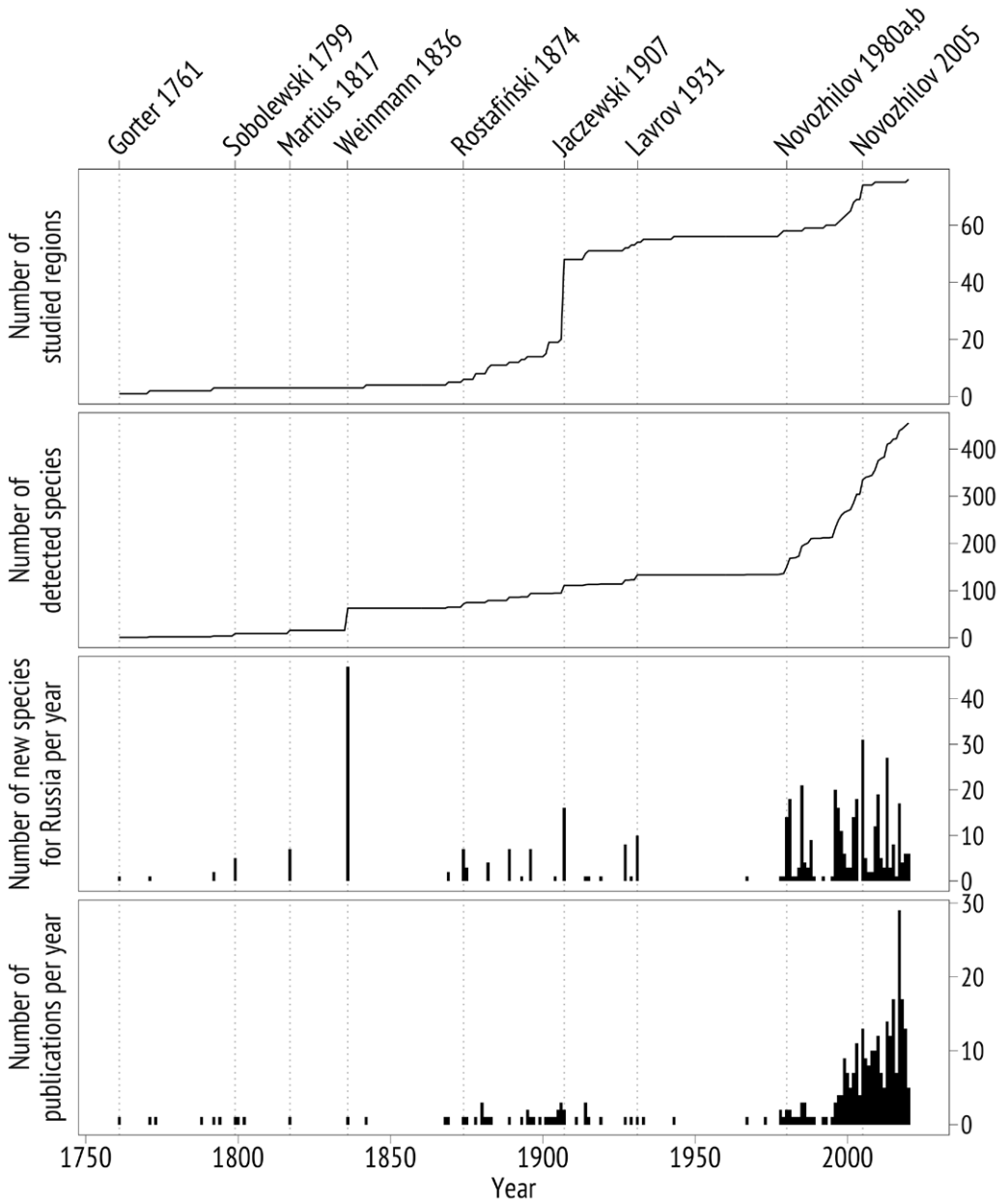
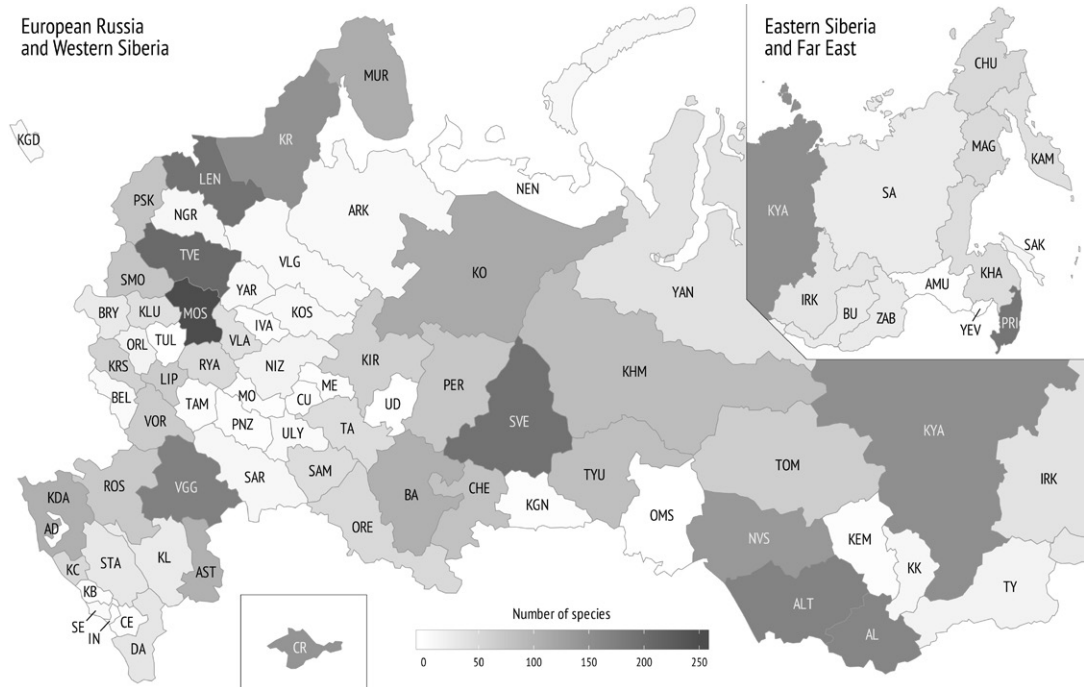


Figure 2. Number of myxomycete species found in the regions of Russia. Note: abbreviations of region names are given in accordance with Table 2.



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