

List of records on FFR-forming fungi for different taxonomic levels and ecological functions available in literature.

Phylum	Genus	Name reported	Current name	ecology	reference	year
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Abesha, (2003)	2003
Basidiomycota	<i>Calocybe</i>	<i>Calocybe gambosa</i>	<i>Calocybe gambosa</i>	Sph	Ainsworth and Bysby, (1950)	1950
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Albrecht, (1951)	1951
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Ayer (1989)	1989
Basidiomycota	<i>Infundibulocybe</i>	<i>Leucopaxillus geotropa</i>	<i>Infundibulocybe geotropa</i>	Sph	Becker, (1953)	1953
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Blenis, (1997)	1997
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Blenis, (2004)	2004
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Blenis, (2004)	2004
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Bonanomi, (2012)	2012
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Burnett and Evans, (1966)	1966
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Caspar and Spitteler (2015)	2015
Basidiomycota	<i>Floccularia</i>	<i>Floccularia luteovirens</i>	<i>Floccularia luteovirens</i>	Sph	Chen, (2000)	2000
Basidiomycota	<i>Lepista</i>	<i>Lepista sordida</i>	<i>Lepista sordida</i>	Sph	Choi, (2010a)	2010
Basidiomycota	<i>Lepista</i>	<i>Lepista sordida</i>	<i>Lepista sordida</i>	Sph	Choi, (2010b)	2010
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Cosby, (1959)	1959
Basidiomycota	<i>Leucocalocybe</i>	<i>Tricholoma monogolicum</i>	<i>Leucocalocybe mongolica</i>	sph	Dhiao, (2004)	2004
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Dickinson, (1979)	1979
Basidiomycota	<i>Clitocybe</i>	<i>Clitocibe nebularis</i>	<i>Clitocybe nebularis</i>	Sph	Dowson (1989)	1989
Basidiomycota	<i>Leucocalocybe</i>	<i>Leucocalocybe mongolica</i>	<i>Leucocalocybe mongolica</i>	Sph	Duan, (2021a)	2021
Basidiomycota	<i>Leucocalocybe</i>	<i>Leucocalocybe mongolica</i>	<i>Leucocalocybe mongolica</i>	Sph	Duan, (2021b)	2021
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Edwards, (1984)	1984
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Edwards, (1988)	1988
Basidiomycota	<i>Lycoperdon</i>	<i>Lycoperdon sp.</i>	<i>Lycoperdon sp.</i>	Sph	Elliot, (2002)	2002
Basidiomycota	<i>Agaricus</i>	<i>Agaricus liliceps</i>	<i>Agaricus liliceps</i>	Sph	Espeland, (2013)	2013
Basidiomycota	<i>Gymnopus</i>	<i>Marasmius dryophilus</i>	<i>Gymnopus dryophilus</i>	Sph	Falandysz, (2013)	2013
Basidiomycota	<i>Gymnopus</i>	<i>Gymnopus erythropus</i>	<i>Gymnopus erythropus</i>	Sph	Falandysz, (2013)	2013
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Fidanza, (2007)	2007
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Filer, (1965a)	1965
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Filer, (1965b)	1965
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Fisher, (1976)	1976
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Fox, (2006)	2006
Basidiomycota	<i>Mycena</i>	<i>Mycena galopus</i>	<i>Mycena galopus</i>	sph	Frankland, (1998)	1998
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Gramss, (2005)	2005
Basidiomycota	<i>Calocybe</i>	<i>Calocybe camgosa</i>	<i>Calocybe gambosa</i>	Sph	Guminska, (1976)	1976
Basidiomycota	<i>Clitocybe</i>	<i>Clitocybe dealbata</i>	<i>Clitocybe rivulosa</i>	Sph	Guminska, (1976)	1976
Basidiomycota	<i>Cystoderma</i>	<i>Cystoderma amianthinum</i>	<i>Cystoderma amianthinum</i>	Sph	Guminska, (1976)	1976
Basidiomycota	<i>Lactarius</i>	<i>Lactarius semisanguifluus</i>	<i>Lactarius semisanguifluus</i>	Sym	Guminska, (1976)	1976
Basidiomycota	<i>Lepista</i>	<i>Lepista nuda</i>	<i>Lepista nuda</i>	Sph	Guminska, (1976)	1976
Basidiomycota	<i>Macrolepiota</i>	<i>Macrolepiota mastoidea</i>	<i>Macrolepiota mastoidea</i>	Sph	Guminska, (1976)	1976
Basidiomycota	<i>Macrolepiota</i>	<i>Macrolepiota procera</i>	<i>Macrolepiota procera</i>	Sph	Guminska, (1976)	1976
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Guminska, (1976)	1976

Basidiomycota	<i>Pseudoclitocybe</i> <i>e</i>	<i>Clitocybe expallens</i>	<i>Pseudoclitocybe expallens</i>	Sph	Guminska, (1976)	1976
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Calvatia</i>	<i>Calvatia cyathiformis</i>	<i>Calvatia cyathiformis</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Clitocybe</i>	<i>Clitocybe caespitosa</i>	<i>Clitocybe caespitosa</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Clitocybe</i>	<i>Clitocybe dealbata</i>	<i>Clitocybe rivulosa</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Leucoagaricus</i>	<i>Lepiota naucina</i>	<i>Leucoagaricus leucolithes</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Leucopaxillus</i>	<i>Clitocibe gigantea</i>	<i>Leucopaxillus giganteus</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Panaeolina</i>	<i>Psilocybe foenicecii</i>	<i>Panaeolina foenicecii</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Panaeolus</i>	<i>Panaeolus retirugis</i>	<i>Panaeolus papilionaceus</i>	Sph	Halinsky and Peterson, (1970)	1970
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Hardwick and Heard, (1978)	1978
Basidiomycota	<i>Albatrellopsis</i>	<i>Polyporus confluens</i>	<i>Albatrellopsis confluens</i>	Sym	Hawksworth, (1962)	1962
Basidiomycota	<i>Clitocybe</i>	<i>Clitocybe nebularis</i>	<i>Clitocybe nebularis</i>	Sph	Hearst, (2013)	2013
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	sph	Hiltunen, (2019)	2019
Basidiomycota	<i>Lepista</i>	<i>Lepista nuda</i>	<i>Lepista nuda</i>	Sph	Hjelm, (1994)	1994
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Ingold, (1974)	1974
Basidiomycota	<i>Floccularia</i>	<i>Armillaria luteovirens</i>	<i>Floccularia luteovirens</i>	Sph	Jinyang, (2005)	2005
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Katooka, (2012)	2012
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Kim, (2013)	2013
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Kim, (2014)	2014
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Koo, (2009)	2009
Basidiomycota	<i>Clitocybe</i>	<i>Clitocybe nebularis</i>	<i>Clitocybe nebularis</i>	sph	Kosanic, (2020)	2020
Basidiomycota	<i>Infundibulocybe</i> <i>e</i>	<i>Clitocybe geotropa</i>	<i>Infundibulocybe geotropa</i>	sph	Kosanic, (2020)	2020
Basidiomycota	<i>Hygrophorus</i>	<i>Hygrophorus agathosmus</i>	<i>Hygrophorus agathosmus</i>	Sph	Larsson, (2018)	2018
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Lebeau, 1961	1961
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Lebeau, 1963	1963
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Lebeau, 1963b	1963
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Li, (2016)	2016
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Lian, (2006)	2006
Basidiomycota	<i>Agaricus</i>	<i>Agaricus bisporus</i>	<i>Agaricus bisporus</i>	Sph	Lui, (2021)	2021
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Mallet, (1988)	1988
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Mathur, (1970)	1970
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Miles, (1971)	1971
Basidiomycota	<i>Agaricus</i>	<i>Agaricus argenteus</i>	<i>Agaricus argenteus</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Agaricus</i>	<i>Agaricus lilaceps</i>	<i>Agaricus lilaceps</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Bovista</i>	<i>Bovista plumbea</i>	<i>Bovista plumbea</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Calvatia</i>	<i>Calvatia chilensis</i>	<i>Calvatia chilensis</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Calvatia</i>	<i>Calvatia fragilis</i>	<i>Calvatia cyathiformis</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Disciseda</i>	<i>Disciseda candida</i>	<i>Disciseda candida</i>	Sph	Miller and Gongloff, (2021)	2021

Basidiomycota	<i>Geastrum</i>	<i>Geastrum sp.</i>	<i>Geastrum sp.</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Lepiota</i>	<i>Lepiota erminea</i>	<i>Lepiota erminea</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Leucocalocybe</i>	<i>Leucocalocybe mongolica</i>	<i>Leucocalocybe mongolica</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Lycoperdon</i>	<i>Lycoperdon dermoxanthum</i>	<i>Lycoperdon dermoxanthum</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Tulostoma</i>	<i>Tulostoma calcareum</i>	<i>Tulostoma calcareum</i>	Sph	Miller and Gongloff, (2021)	2021
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Arachnion</i>	<i>Arachnion album</i>	<i>Arachnion album</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Coprinopsis</i>	<i>Coprinus kubickae</i>	<i>Coprinopsis kubickae</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Coprinus</i>	<i>Coprinus comatus</i>	<i>Coprinus comatus</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Coprinus</i>	<i>Coprinus sp</i>	<i>Coprinus sp</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Cyclocybe</i>	<i>Agrocybe aegerita</i>	<i>Cyclocybe cylindracea</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Lepista</i>	<i>Lepista nuda</i>	<i>Lepista nuda</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Lepista</i>	<i>Lepista sordida</i>	<i>Lepista sordida</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Lycoperdon</i>	<i>Vascellum curtisii</i>	<i>Lycoperdon curtisii</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Lycoperdon</i>	<i>Bovista dermoxantha</i>	<i>Lycoperdon dermoxanthum</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Lycoperdon</i>	<i>Bovista dermoxantha</i>	<i>Lycoperdon dermoxanthum</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Lycoperdon</i>	<i>Lycoperdon marginatum</i>	<i>Lycoperdon marginatum</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Marasmius</i>	<i>Marasmius graminum</i>	<i>Marasmius graminum</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Marasmius</i>	<i>Marasmius siccus</i>	<i>Marasmius siccus</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Marasmius</i>	<i>Marasmius sp.</i>	<i>Marasmius sp.</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Parasola</i>	<i>Parasola pliicatilis</i>	<i>Parasola pliicatilis</i>	Sph	Miller, (2012)	2012
Basidiomycota	<i>Collybia</i>	<i>Collybia pinastris</i>	<i>Collybia pinastris</i>	SPh	Miyamoto, (2004)	2004
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Narimatsu, (2015)	2015
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Northstat, (1973)	1973
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Oh, (2016)	2016
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Oh, (2018)	2018
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Ohara, (1967)	1967
Basidiomycota	<i>Coprinopsis</i>	<i>Coprinus kubickae</i>	<i>Coprinopsis kubickae</i>	Sph	RedHead, (1981)	1981
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Rogers, (1969)	1969
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Agaricus</i>	<i>Agaricus tabularis</i>	<i>Agaricus praerimosus</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Calvatia</i>	<i>Calvatia cyathiformis</i>	<i>Calvatia cyathiformis</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Calvatia</i>	<i>Calvatia fragilis</i>	<i>Calvatia cyathiformis</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Calvatia</i>	<i>Calvatia polygonia</i>	<i>Calvatia polygonia</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Chlorophyllum</i>	<i>Lepiota morganii</i>	<i>Chlorophyllum morganii</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Disciseda</i>	<i>Catastoma subterraneum</i>	<i>Disciseda subterranea</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Lycoperdon</i>	<i>Lycoperdon wrightii</i>	<i>Lycoperdon wrightii</i>	Sph	Shantz and Piezemel, (1917)	1917
Basidiomycota	<i>Melanoleuca</i>	<i>Tricholoma malaleuca</i>	<i>Melanoleuca malaleuca</i>	Sph	Shantz and Piezemel, (1917)	1917

Basidiomycota	<i>Agaricus</i>	<i>Psaliota arvensis</i>	<i>Agaricus arvensis</i>	Sph	Shantz and Piezemel, (1917)*	1862
Basidiomycota	<i>Agaricus</i>	<i>Psaliota arvensis</i>	<i>Agaricus arvensis</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Shantz and Piezemel, (1917)*	1900
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Shantz and Piezemel, (1917)*	1807
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Shantz and Piezemel, (1917)*	1884
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Shantz and Piezemel, (1917)*	1901
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Shantz and Piezemel, (1917)*	1910
Basidiomycota	<i>Agaricus</i>	<i>Agaricus sp.</i>	<i>Agaricus sp.</i>	Sph	Shantz and Piezemel, (1917)*	1917
Basidiomycota	<i>Amanita</i>	<i>Amanita muscaria</i>	<i>Amanita muscaria</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Amanita</i>	<i>Amanita phalloides</i>	<i>Amanita phalloides</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Bovista</i>	<i>Lycoperdon bovista</i>	<i>Bovista plumbea</i>	Sph	Shantz and Piezemel, (1917)*	1807
Basidiomycota	<i>Calocybe</i>	<i>Tricholoma gambosum</i>	<i>Calocybe gambosa</i>	Sph	Shantz and Piezemel, (1917)*	1847
Basidiomycota	<i>Cantharellus</i>	<i>Cantharellus cibarius</i>	<i>Cantharellus cibarius</i>	Sym	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Cantharellus</i>	<i>Cantharellus cinereus</i>	<i>Cantharellus cinereus</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Chlorophyllum</i>	<i>Lepiota morgani</i>	<i>Chlorophyllum morgani</i>	Sph	Shantz and Piezemel, (1917)*	1887
Basidiomycota	<i>Chlorophyllum</i>	<i>Lepiota morgani</i>	<i>Chlorophyllum morgani</i>	Sph	Shantz and Piezemel, (1917)*	1917
Basidiomycota	<i>Clavaria</i>	<i>Clavaria sp.</i>	<i>Clavaria sp.</i>	Sph	Shantz and Piezemel, (1917)*	1914
Basidiomycota	<i>Clitocybe</i>	<i>Lepista nebularis</i>	<i>Clitocybe nebularis</i>	Sph	Shantz and Piezemel, (1917)*	1900
Basidiomycota	<i>Clitopilus</i>	<i>Agaricus prunulus</i>	<i>Clitopilus prunulus</i>	Sph	Shantz and Piezemel, (1917)*	1884
Basidiomycota	<i>Collybia</i>	<i>Collybia sp.</i>	<i>Collybia sp.</i>	Sph	Shantz and Piezemel, (1917)*	1914
Basidiomycota	<i>Collybiopsis</i>	<i>Collybia confluens</i>	<i>Collybiopsis confluens</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Collybiopsis</i>	<i>Marasmius urens</i>	<i>Collybiopsis peronata</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Cortinarius</i>	<i>Telamonia armillata</i>	<i>Cortinarius armillatus</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Cortinarius</i>	<i>Inoloma traganum</i>	<i>Cortinarius traganus</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Cuphophyllum</i>	<i>Hygrophorus virgineus</i>	<i>Cuphophyllum virgineus</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Hebeloma</i>	<i>Agaricus crustuliniformis</i>	<i>Hebeloma crustuliniforme</i>	Sym	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Hydnellum</i>	<i>Hydnellum suaveolens</i>	<i>Hydnellum suaveolens</i>	Sym	Shantz and Piezemel, (1917)*	1905
Basidiomycota	<i>Hydnellum</i>	<i>Hydnellum suaveolens</i>	<i>Hydnellum suaveolens</i>	Sym	Shantz and Piezemel, (1917)*	1911
Basidiomycota	<i>Hydnum</i>	<i>Hydnum compactum</i>	<i>Hydnum compactum</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Hydnum</i>	<i>Hydnum repandum</i>	<i>Hydnum repandum</i>	Sym	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Hydnum</i>	<i>Hydnum repandum</i>	<i>Hydnum repandum</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Hygrophoropsis</i>	<i>Cantharellus aurantiacus</i>	<i>Hygrophoropsis aurantiaca</i>	Sph	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Infundibulicybe</i>	<i>Clitocybe infundibuliformis</i>	<i>Infundibulicybe gibba</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Infundibulocybe</i>	<i>Agaricus geotropus</i>	<i>Infundibulocybe geotropa</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Infundibulocybe</i>	<i>Agaricus maximus</i>	<i>Infundibulocybe geotropa</i>	Sph	Shantz and Piezemel, (1917)*	1914

Basidiomycota	<i>Inocybe</i>	<i>inocybe sp.</i>	<i>Inocybe sp.</i>	Sym	Shantz and Piezemel, (1917)*	1887
Basidiomycota	<i>Lactarius</i>	<i>Lactarius insulsus</i>	<i>Lactarius insulsus</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Lactarius</i>	<i>Lactarius torminosus</i>	<i>Lactarius torminosus</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Lactifluus</i>	<i>Lactifluus piperatus</i>	<i>Lactifluus piperatus</i>	Sym	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Lepista</i>	<i>Agaricus bicolor</i>	<i>Lepista nuda</i>	sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Lepista</i>	<i>Agaricus bicolor</i>	<i>Lepista nuda</i>	sph	Shantz and Piezemel, (1917)*	1870
Basidiomycota	<i>Lepista</i>	<i>Agaricus bicolor</i>	<i>Lepista nuda</i>	Sph	Shantz and Piezemel, (1917)*	1914
Basidiomycota	<i>Leucopaxillus</i>	<i>Clitocybe gigantea</i>	<i>Leucopaxillus giganteus</i>	Sph	Shantz and Piezemel, (1917)*	1862
Basidiomycota	<i>Leucopaxillus</i>	<i>Clitocybe gigantea</i>	<i>Leucopaxillus giganteus</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Leucopaxillus</i>	<i>Clitocybe gigantea</i>	<i>Leucopaxillus giganteus</i>	Sph	Shantz and Piezemel, (1917)*	1884
Basidiomycota	<i>Leucopaxillus</i>	<i>Clitocybe gigantea</i>	<i>Leucopaxillus giganteus</i>	Sph	Shantz and Piezemel, (1917)*	1901
Basidiomycota	<i>Leucopaxillus</i>	<i>Clitocybe gigantea</i>	<i>Leucopaxillus giganteus</i>	Sph	Shantz and Piezemel, (1917)*	1911
Basidiomycota	<i>Lycoperdon</i>	<i>Lycoperdon cyclicum</i>	<i>Lycoperdon cyclicum</i>	Sph	Shantz and Piezemel, (1917)*	1898
Basidiomycota	<i>Lycoperdon</i>	<i>Lycoperdon gemmatum</i>	<i>Lycoperdon perlatum</i>	Sph	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Macrolepiota</i>	<i>Agaricus proceris</i>	<i>Macrolepiota procera</i>	Sph	Shantz and Piezemel, (1917)*	1807
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1796
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1807
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1862
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1869
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1870
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1883
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreadam</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1884
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1884
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1887
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1898
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1901
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1910
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1910
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1910
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Shantz and Piezemel, (1917)*	1911
Basidiomycota	<i>Melanoleuca</i>	<i>Tricholoma grammopodium</i>	<i>Melanoleuca grammopodia</i>	Sph	Shantz and Piezemel, (1917)*	1869
Ascomycota	<i>Morchella</i>	<i>Morchella esculenta</i>	<i>Morchella esculenta</i>	Sph	Shantz and Piezemel, (1917)*	1906
Ascomycota	<i>Morchella</i>	<i>Morchella hybrida</i>	<i>Morchella semilibera</i>	Sph	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Paxillus</i>	<i>Paxillus involutus</i>	<i>Paxillus involutus</i>	Sph	Shantz and Piezemel, (1917)*	1906

Basidiomycota	<i>Pluteus</i>	<i>Pluteus cervinus</i>	<i>Pluteus cervinus</i>	Sph	Shantz and Piezemel, (1917)*	1917
Basidiomycota	<i>Suillus</i>	<i>Boletus bovinus</i>	<i>Suillus bovinus</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Suillus</i>	<i>Boletus cavipes</i>	<i>Suillus cavipes</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Suillus</i>	<i>Boletus elegans</i>	<i>Suillus elegans</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Suillus</i>	<i>Boletus variegatus</i>	<i>Suillus variegatus</i>	Sym	Shantz and Piezemel, (1917)*	1906
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma columbella</i>	<i>Tricholoma columbetta</i>	Sym	Shantz and Piezemel, (1917)*	1910
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma equestre</i>	<i>Tricholoma equestre</i>	Sym	Shantz and Piezemel, (1917)*	1917
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma sp.</i>	<i>Tricholoma sp.</i>	Sym	Shantz and Piezemel, (1917)*	1887
Basidiomycota	<i>Tricholoma</i>	<i>Agaricus terreus</i>	<i>Tricholoma terreum</i>	Sym	Shantz and Piezemel, (1917)*	1807
Ascomycota	<i>Tuber</i>	<i>Tuber sp.</i>	<i>Tuber sp.</i>	Sym	Shantz and Piezemel, (1917)*	1851
Basidiomycota	<i>Lycoperdon</i>	<i>Bovista dermoxantha</i>	<i>Lycoperdon dermoxanthum</i>	Sph	Terashima, (2004)	2004
Basidiomycota	<i>Lepista</i>	<i>Lepista sordida</i>	<i>Lepista sordida</i>	Sph	Terashima, (2007)	2007
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Agaricus</i>	<i>Agaricus xanthoderma</i>	<i>Agaricus xanthodermus</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Amanita</i>	<i>Amanita flavorubescens</i>	<i>Amanita flavorubescens</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Amanita</i>	<i>Amanita muscaria</i>	<i>Amanita muscaria</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Calvatia</i>	<i>Calvatia fragilis</i>	<i>Calvatia cyathiformis</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Cantharellus</i>	<i>Cantharellus cibarius</i>	<i>Cantharellus cibarius</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Clavaria</i>	<i>Clavaria vermicularis</i>	<i>Clavaria fragilis</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Clavulina</i>	<i>Clavaria cinerea</i>	<i>Clavulina cinerea</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Clitocybe</i>	<i>Clitocybe dealbata</i>	<i>Clitocybe rivulosa</i>	sph	Toohey, (1983)	1983
Basidiomycota	<i>Cortinarius</i>	<i>Cortinarius sp</i>	<i>Cortinarius sp</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Cortinarius</i>	<i>Cortinarius sp 1</i>	<i>Cortinarius sp 1</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Cuphophyllum</i>	<i>Hygrophorus niveus</i>	<i>Cuphophyllum virgineus</i>	Sph	Toohey, (1983)	1983
Ascomycota	<i>Helvella</i>	<i>Helvella connivens</i>	<i>Helvella connivens</i>	Sph	Toohey, (1983)	1983
Ascomycota	<i>Helvella</i>	<i>Helvella crispa</i>	<i>Helvella crispa</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Hygrophorus</i>	<i>Hygrophorus russula</i>	<i>Hygrophorus erubescens</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Inocybe</i>	<i>Inocybe lacera</i>	<i>Inocybe lacera</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Lactarius</i>	<i>Lactarius resimus</i>	<i>Lactarius resimus</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Lepista</i>	<i>Tricholoma irinum</i>	<i>Lepista irina</i>	sph	Toohey, (1983)	1983
Basidiomycota	<i>Lepista</i>	<i>Clitocybe subconnexa</i>	<i>Lepista subconnexa</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Leucopaxillus</i>	<i>Leucopaxillus giganteus</i>	<i>Leucopaxillus giganteus</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Lycoperdon</i>	<i>Lycoperdon perlatum</i>	<i>Lycoperdon perlatum</i>	sph	Toohey, (1983)	1983
Basidiomycota	<i>Lyophyllum</i>	<i>Lyophyllum immundum</i>	<i>Lyophyllum immundum</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	sph	Toohey, (1983)	1983
Basidiomycota	<i>Paxillus</i>	<i>Paxillus involutus</i>	<i>Paxillus involutus</i>	Sph	Toohey, (1983)	1983
Basidiomycota	<i>Russula</i>	<i>Russula aeruginea</i>	<i>Russula aeruginea</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Russula</i>	<i>Russula aurantioleuca</i>	<i>Russula aurantioleuca</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Russula</i>	<i>Russula decolorans</i>	<i>Russula decolorans</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Russula</i>	<i>Russula densifolia</i>	<i>Russula densifolia</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Suillus</i>	<i>Suillus granulatus</i>	<i>Suillus granulatus</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma terreum</i>	<i>Tricholoma terreum</i>	Sym	Toohey, (1983)	1983
Basidiomycota	<i>Floccularia</i>	<i>Floccularia luteovirens</i>	<i>Floccularia luteovirens</i>	Sym	Xing, (2017)	2017

Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Xu, (2011)	2011
Basidiomycota	<i>Agaricus</i>	<i>Agaricus gennadii</i>	<i>Agaricus gennadii</i>	Sph	Yang, (2018a)	2018
Basidiomycota	<i>Agaricus</i>	<i>Agaricus gennadii</i>	<i>Agaricus gennadii</i>	Sph	Yang, (2018b)	2018
Basidiomycota	<i>Agaricus</i>	<i>Agaricus gennadii</i>	<i>Agaricus gennadii</i>	Sph	Yang, (2018c)	2018
Basidiomycota	<i>Agaricus</i>	<i>Agaricus campestris</i>	<i>Agaricus campestris</i>	Sph	Yang, (2019)	2019
Basidiomycota	<i>Agaricus</i>	<i>Agaricus gennadii</i>	<i>Agaricus gennadii</i>	Sph	Yang, (2019)	2019
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	York, (2000)	2000
Basidiomycota	<i>Leucocalocybe</i>	<i>Tricholoma monogolicum</i>	<i>Leucocalocybe mongolica</i>	Sph	Zhao, (2003)	2003
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma matzutake</i>	<i>Tricholoma nauseosmus</i>	Sym	Zhou, (2021)	2021
Basidiomycota	<i>Amanita</i>	<i>Amanita vittadini</i>	<i>Amanita vittadini</i>	Sph	Zotti 2024	2024
Basidiomycota	<i>Marasmius</i>	<i>Marasmius oreades</i>	<i>Marasmius oreades</i>	Sph	Zotti 2024	2024
Basidiomycota	<i>Spodocybe</i>	<i>Spodocybe collina</i>	<i>Spodocybe collina</i>	Sph	Zotti 2024	2024
Basidiomycota	<i>Agaricus</i>	<i>Agaricus crocodilinus</i>	<i>Agaricus crocodilinus</i>	Sph	Zotti in preparation	2025
Basidiomycota	<i>Amanita</i>	<i>Amanita phalloides</i>	<i>Amanita phalloides</i>	Sym	Zotti in preparation	2025
Basidiomycota	<i>Tricholoma</i>	<i>Tricholoma goniospermum</i>	<i>Tricholoma goniospermum</i>	Sph	Zotti in preparation	2025
Basidiomycota	<i>Agaricus</i>	<i>Agaricus arvensis</i>	<i>Agaricus arvensis</i>	Sph	Zotti, (2020)	2020
Basidiomycota	<i>Calocybe</i>	<i>Calocybe gambosa</i>	<i>Calocybe gambosa</i>	Sph	Zotti, (2021)	2021

List of records on FFR-forming fungi and their global distribution

<i>Taxon</i>	<i>Ecology</i>	<i>reference</i>	<i>Nation</i>	<i>Long</i>	<i>Lat</i>
<i>Marasmius oreades</i>	Sph	Abesha & Høiland(2003)	<i>Norway</i>	6,4510	58,0458
<i>Calocybe gambosa</i>	Sph	Ainsworth & Bysby, (1950)	<i>United Kingdom</i>	-	-
<i>Marasmius oreades</i>	Sph	Albrecht et al. (1951)	<i>United States</i>	-92,1912	38,5633
<i>Agaricus arvensis</i>	Sph	Atkinson (1900)*	<i>United States</i>	-	-
<i>Marasmius oreades</i>	Sph	Ayer et al(1989)	<i>Canada</i>	-113,3233	53,2927
<i>Agaricus arvensis</i>	Sph	Ballion (1906)*	<i>France</i>	-	-
<i>Hydnum repandum</i>	Ecm	Ballion (1906)*	<i>France</i>	-	-
<i>Lycoperdon perlatum</i>	Sph	Ballion (1906)*	<i>France</i>	-	-
<i>Marasmius oreades</i>	Sph	Ballion (1906)*	<i>France</i>	-	-
<i>Morchella esculenta</i>	Sph	Ballion (1906)*	<i>France</i>	-	-
<i>Morchella semilibera</i>	Sph	Ballion (1906)*	<i>France</i>	-	-
<i>Suillus bovinus</i>	Ecm	Ballion (1906)*	<i>France</i>	-	-
<i>Leucopaxillus giganteus</i>	Sph	Bayliss (1911)*	<i>United Kingdom</i>	-	-
<i>Marasmius oreades</i>	Sph	Bayliss (1911)*	<i>United Kingdom</i>	-	-
<i>Calocybe gambosa</i>	Sph	Bayliss-Elliot (1926)	<i>United Kingdom</i>	-1,5106	52,2034
<i>Lepista nuda</i>	Sph	Bayliss-Elliot (1926)	<i>United Kingdom</i>	-1,5106	52,2034
<i>Lepista nuda</i>	Sph	Bayliss-Elliot (1926)	<i>United Kingdom</i>	-1,5106	52,2034
<i>Lepista panaeola</i>	Sph	Bayliss-Elliot (1926)	<i>United Kingdom</i>	-1,5106	52,2034
<i>Lycoperdon perlatum</i>	Sph	Bayliss-Elliot (1926)	<i>United Kingdom</i>	-1,5106	52,2034
<i>Marasmius oreades</i>	Sph	Bayliss-Elliot (1926)	<i>United Kingdom</i>	-1,5106	52,2034
<i>Marasmius oreades</i>	Sph	Blenis et al. (1997)	<i>Canada</i>	-113,2950	53,3124

<i>Marasmius oreades</i>	Sph	Blenis et al. (2004)	Canada	-113,2950	53,3124
<i>Marasmius oreades</i>	Sph	Blenis et al. (2004)	Canada	-113,2950	53,3124
<i>Agaricus campestris</i>	Sph	Bonanomi et al. (2012)	Italy	12,4838	43,2681
<i>Agaricus arvensis</i>	Sph	Buckman (1870)*	United States	-	-
<i>Lepista nuda</i>	Sph	Buckman (1870)*	United States	-	-
<i>Marasmius oreades</i>	Sph	Buckman (1870)*	United States	-	-
<i>Marasmius oreades</i>	Sph	Burnett & Evans, (1966)	United Kingdom	-1,3623	55,2935
<i>Marasmius oreades</i>	Sph	Caspar & Spitteler (2015)	Germany	8,5054	53,6734
<i>Floccularia luteovirens</i>	Sph	Chen, (2000)	China	10,0206	37,2516
<i>Lepista nuda</i>	Sph	Choi et al. (2022)	Japan	-	-
<i>Lepista sordida</i>	Sph	Choi, (2010a)	Japan	138,2560	34,5749
<i>Lepista sordida</i>	Sph	Choi, (2010b)	Japan	138,2560	34,5749
<i>Vascellum curtisii</i>	Sph	Cocker & Couch (1928)	United States	-	-
<i>Marasmius oreades</i>	Sph	Cosby, (1959)	United States	-104,4863	47,5512
<i>Hydnellum suaveolens</i>	Ecm	Coulter et al. (1911)*	United States	-	-
<i>Marasmius oreades</i>	Sph	Coville (1898)*	United States	-	-
<i>Leucocalocybe mongolica</i>	Sph	Dhiao, (2004)	China	100,1400	34,3900
<i>Marasmius oreades</i>	Sph	Dickinson, (1979)	United Kingdom	0,2693	52,4731
<i>Clitocybe nebularis</i>	Sph	Dowson et al. (1989)	United Kingdom	-2,1837	51,1950
<i>Agaricus xanthodermus</i>	Sph	Du et al. (2024)	China	101,1900	37,3600
<i>Leucocalocybe mongolica</i>	Sph	Duan et al (2021)	China	116,2517	43,5560
<i>Leucocalocybe mongolica</i>	Sph	Duan et al. (2022)a,b	China	119,5400	49,7200
<i>Leucocalocybe mongolica</i>	Sph	Duan, (2021a)	China	119,2943	49,9165
<i>Leucocalocybe mongolica</i>	Sph	Duan, (2021b)	China	119,2943	49,9165
<i>Agaricus arvensis</i>	Sph	Edwards (1984)	United Kingdom	-1,3623	50,4926
<i>Agaricus arvensis</i>	Sph	Edwards (1988)	United Kingdom	-1,3623	50,4926
<i>Lycoperdon sp.</i>	Sph	Elliot, (2002)	United States	-80,3112	26,6362
<i>Agaricus liliceps</i>	Sph	Espeland, (2013)	Canada	-104,4248	47,4233
<i>Gymnopus dryophilus</i>	Sph	Falandysz, (2013)	China	102,1035	29,1531
<i>Gymnopus erythropus</i>	Sph	Falandysz, (2013)	China	102,1035	29,1531
<i>Marasmius oreades</i>	Sph	Fidanza, (2007)	United States	-75,5537	40,2083
<i>Marasmius oreades</i>	Sph	Filer, (1965a)	United States	-122,8130	47,6173
<i>Marasmius oreades</i>	Sph	Filer, (1965b)	United States	-122,8130	47,6173
<i>Marasmius oreades</i>	Sph	Fisher, (1976)	Canada	-79,2255	43,3960
<i>Marasmius oreades</i>	Sph	Fox, (2006)	United Kingdom	-0,5555	51,2625
<i>Mycena galopus</i>	Sph	Frankland, (1998)	United Kingdom	-	-
<i>Marasmius oreades</i>	Sph	Gramss, (2005)	Germany	11,3734	50,5448
<i>Infundibulicybe geotropa</i>	Sph	Gregory (1982)*	France	6,4613	47,3913
<i>Calocybe gambosa</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413
<i>Clitocybe rivulosa</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413
<i>Cystoderma amianthinum</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413
<i>Lactarius semisanguifluus</i>	Ecm	Guminska, (1976)	Poland	20,2628	49,2413
<i>Lepista nuda</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413
<i>Macrolepiota mastoidea</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413

<i>Macrolepiota procera</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413
<i>Marasmius oreades</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413
<i>Pseudoclitocybe expallens</i>	Sph	Guminska, (1976)	Poland	20,2628	49,2413
<i>Agaricus arvensis</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Agaricus campestris</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Calvatia cyathiformis</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Clitocybe caespitosa</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Clitocybe rivulosa</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Leucoagaricus leucolithes</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Leucopaxillus giganteus</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Marasmius oreades</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Panaeolina foenicisecii</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Panaeolus papilionaceus</i>	Sph	Halinsky & Peterson, (1970)	United States	-74,2766	40,2910
<i>Marasmius oreades</i>	Sph	Hardwick & Heard, (1978)	United Kingdom	-0,2546	50,5552
<i>Albatrellopsis confluens</i>	Ecm	Hawksworth (1962)	United States	-105,3320	40,4060
<i>Clitocybe nebularis</i>	Sph	Hears et al. (2013)	Northern Ireland	-5,5647	54,3332
<i>Marasmius oreades</i>	Sph	Hiltunen et al. (2019)	Sweden	14,3922	58,1821
<i>Maramius oreades</i>	Sph	Hiltunen et al. (2021)	Sweden	17,3419	59,5127
<i>Lepista nuda</i>	Sph	Hjelm, (1994)	Sweden	15,5818	57,4544
<i>Leucoagaricus leucothites</i>	Sph	Howards et al. (1951)	United States	-	-
<i>Macrolepiota procera</i>	Sph	Howards et al. (1951)	United States	-	-
<i>Marasmius oreades</i>	Sph	Ingold, (1974)	United Kingdom	0,1929	51,1722
<i>Floccularia luteovirens</i>	Sph	Jinyang, (2005)	China	-	-
<i>Agaricus campestris</i>	Sph	Jorden (1862)*	United States	-	-
<i>Leucopaxillus giganteus</i>	Sph	Jorden (1862)*	United States	-	-
<i>Tricholoma matsutake</i>	Ecm	Kataoka et al. (2012)	Japan	135,3058	35,8771
<i>Amanita muscaria</i>	Ecm	Kauffman (1918)	United States	-	-
<i>Tricholoma matsutake</i>	Ecm	Kim, (2013)	South Korea	128,3790	35,4526
<i>Tricholoma matsutake</i>	Ecm	Kim, (2014)	South Korea	128,3790	35,4526
<i>Tricholoma matsutake</i>	Ecm	Koo et al. (2009)	South Korea	127,1818	36,5139
<i>Clitocybe nebularis</i>	Sph	Kosanic, (2020)	Serbia	20,5621	44,0308
<i>Infundibulicybe geotropia</i>	Sph	Kosanic, (2020)	Serbia	20,5621	44,0308
<i>Pheolepiota aurea</i>	Sph	Laessoe & Petersen 2019	Denmark	-	-
<i>Hygrophorus agathosmus</i>	Sph	Larsson, (2018)	Sweden	11,5857	57,4152
<i>Marasmius oreades</i>	Sph	Lawes et al. (1883)*	United Kingdom	-0,2124	51,4832
<i>Calocybe gambosa</i>	Sph	Lawes et al. (1883)*	United Kingdom	-0,2124	51,4832
<i>Marasmius oreades</i>	Sph	Lebeau, 1961	Canada	-112,4550	49,4156
<i>Marasmius oreades</i>	Sph	Lebeau, 1963	Canada	-112,4550	49,4156
<i>Marasmius oreades</i>	Sph	Lebeau, 1963b	Canada	-112,4550	49,4156
<i>Agaricus arvensis</i>	Sph	Lees (1869)*	-	-	-
<i>Cantharellus cibarius</i>	Ecm	Lees (1869)*	-	-	-
<i>Collybia sp.</i>	Sph	Lees (1869)*	-	-	-
<i>Collybiopsis confluens</i>	Sph	Lees (1869)*	-	-	-
<i>Collybiopsis peronata</i>	Sph	Lees (1869)*	-	-	-
<i>Cuphophyllus virgineus</i>	Sph	Lees (1869)*	-	-	-
<i>Hebeloma crustuliniforme</i>	Ecm	Lees (1869)*	-	-	-

<i>Hydnum repandum</i>	Ecm	Lees (1869)*		-	-
<i>Infundibulicybe geotropia</i>	Sph	Lees (1869)*		-	-
<i>Infundibulicybe gibba</i>	Sph	Lees (1869)*		-	-
<i>Lactifluus piperatus</i>	Ecm	Lees (1869)*		-	-
<i>Lepista nuda</i>	Sph	Lees (1869)*		-	-
<i>Marasmius oreades</i>	Sph	Lees (1869)*		-	-
<i>Melanoleuca grammopodia</i>	Sph	Lees (1869)*		-	-
-	Sph	Li et al. (2022)	China	115,4000	41,4600
<i>Tricholoma matsutake</i>	Ecm	Li, (2016)	China	102,1037	28,3311
<i>Tricholoma matsutake</i>	Ecm	Lian et al. (2006)	Japan	141,1400	39,5600
<i>Agaricus bisporus</i>	Sph	Liu et al. (2021)	China	-99,2644	38,3378
<i>Agaricus campestris</i>	Sph	Liu et al. (2023)	China	120,2200	50,4000
<i>Lepista sordida</i>	Sph	Liu et al. (2023)	China	120,2200	50,4000
<i>Leucocalocybe mongolica</i>	Sph	Liu et al. (2023)	China	120,2200	50,4000
<i>Amanita muscaria</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Amanita phalloides</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Cantharellus cinereus</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Cortinarius armillatus</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Cortinarius traganus</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Hydnum compactum</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Hygrophoropsis aurantiaca</i>	Sph	Ludwig (1906)*	Germany	-	-
<i>Lactarius insulsus</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Lactarius torminosus</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Marasmius oreades</i>	Sph	Ludwig (1906)*	Germany	-	-
<i>Paxillus involutus</i>	Sph	Ludwig (1906)*	Germany	-	-
<i>Suillus cavipes</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Suillus elegans</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Suillus variegatus</i>	Ecm	Ludwig (1906)*	Germany	-	-
<i>Marasmius oreades</i>	Sph	Mallet & Harrison (1988)	Canada	-115,3135	52,4185
<i>Agaricus campestris</i>	Sph	Massart (1910)*	France	-	-
<i>Marasmius oreades</i>	Sph	Massart (1910)*	France	-	-
<i>Tricholoma columbetta</i>	Ecm	Massart (1910)*	France	-	-
<i>Marasmius oreades</i>	Sph	Mathur, (1970)	Canada	-75,4348	45,2259
<i>Lycoperdon cyclicum</i>	Sph	McAlpine (1898)*	United States	-	-
<i>Marasmius oreades</i>	Sph	Miles & Mathur (1971)	Canada	-75,4348	45,2259
<i>Agaricus argenteus</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Agaricus liliceps</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Bovista plumbea</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Calvatia chilensis</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Calvatia cyathiformis</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Disciseda candida</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Geastrum sp.</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Lepiota erminea</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Leucocalocybe mongolica</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Lycoperdon dermoxanthum</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754

<i>Marasmius oreades</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Tulostoma calcareum</i>	Sph	Miller and Gongloff, (2021)	United States	-105,4346	41,1754
<i>Agaricus argenteus</i>	Sph	Miller and Gongloff, (2023)	United States	-105,4346	41,1754
<i>Agaricus liliceps</i>	Sph	Miller and Gongloff, (2023)	United States	-105,4346	41,1754
<i>Bovista plumbea</i>	Sph	Miller and Gongloff, (2023)	United States	-105,4346	41,1754
<i>Calvatia spp.</i>	Sph	Miller and Gongloff, (2023)	United States	-105,4346	41,1754
<i>Disciseda candida</i>	Sph	Miller and Gongloff, (2023)	United States	-105,4346	41,1754
<i>Gastrum sp.</i>	Sph	Miller and Gongloff, (2023)	United States	-105,4346	41,1754
<i>Marasmius oreades</i>	Sph	Miller and Gongloff, (2023)	United States	-105,4346	41,1754
<i>Agaricus arvensis</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Agaricus campestris</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Arachnion album</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Coprinopsis kubickae</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Coprinus comatus</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Coprinus sp</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Cyclocybe cilindracea</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Lepista nuda</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Lepista sordida</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Lycoperdon curtisii</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Lycoperdon dermoxanthum</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Lycoperdon dermoxanthum</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Lycoperdon marginatum</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Marasmius graminum</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Marasmius oreades</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Marasmius siccus</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Marasmius sp.</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Parasola pliicatilis</i>	Sph	Miller et al. (2012)	United States	-78,4116	35,4347
<i>Collybia pinastris</i>	Sph	Miyamoto, (2004)	Japan	142,1443	43,4054
<i>Marasmius oreades</i>	Sph	Molliard (1910)*	France	-	-
<i>Marasmius oreades</i>	Sph	Molliard 1910	France	-2,1449	48,3843
<i>Clavaria sp.</i>	Sph	Munch (1914)*	Germany	-	-
<i>Infundibulicybe geotropia</i>	Sph	Munch (1914)*	Germany	-	-
<i>Lepista nuda</i>	Sph	Munch (1914)*	Germany	-	-
<i>Tricholoma matsutake</i>	Ecm	Narimatsu, (2015)	Japan	141,1400	39,5600
<i>Marasmius oreades</i>	Sph	Northstat, (1973)	United States	-105,1316	39,4520
<i>Lepiota sp.</i>	Sph	Odamtten et al. (2022)	Ghana	0,4288	5,4851
<i>Macrolepiota procera</i>	Sph	Odamtten et al. (2022)	Ghana	0,4288	5,4851
<i>Tricholoma matsutake</i>	Ecm	Oh et al. (2016)	South Korea	129,1348	35,4846
<i>Tricholoma matsutake</i>	Ecm	Oh et al. (2018)	South Korea	127,5851	37,4135
<i>Tricholoma matsutake</i>	Ecm	Ohara & Hamada (1967)	Japan	135,4497	35,6179
<i>Agaricus sp.</i>	Sph	Olivier (1891)*	France	-	-
<i>Calocybe gambosa</i>	Sph	Ramsbolton (1953)	United Kingdom	-	-
<i>Infundibulicybe geotropia</i>	Sph	Ramsbolton (1953)	United Kingdom	-	-
<i>Infundibulicybe geotropia</i>	Sph	Rea (1922)	United Kingdom	-	-
<i>Coprinopsis kubickae</i>	Sph	Redhead & Smith (1981)	Canada	-106,2731	52,5624
<i>Marasmius oreades</i>	Sph	Reed (1910)*	United States	-80,2524	37,1342

<i>Agaricus campestris</i>	Sph	Ritsema Bos (1901)*	Germany	-	-
<i>Leucopaxillus giganteus</i>	Sph	Ritsema Bos (1901)*	Germany	-	-
<i>Marasmius oreades</i>	Sph	Ritsema Bos (1901)*	Germany	-	-
-	Sph	Rodriguez et al. (2022)	Spain	1,3940	42,0556
<i>Agaricus arvensis</i>	Sph	Rogers & McAllister (1969)	South Africa	28,5566	-28,4239
<i>Agaricus campestris</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Agaricus praerimosus</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Calvatia cyathiformis</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Calvatia cyathiformis</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Calvatia polygona</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Chlorophyllum morganii</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Disciseda subterranea</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Lycoperdon wrightii</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Melanoleuca malaleuca</i>	Sph	Shantz and Piezemel, (1917)	United States	-103,1419	40,9135
<i>Clitopilus prunulus</i>	Sph	Shantz and Piezemel, (1917)*	-	-	-
<i>Pluteus cervinus</i>	Sph	Shantz and Piezemel, (1917)*	-	-	-
<i>Tricholoma equestre</i>	Ecm	Shantz and Piezemel, (1917)*	-	-	-
<i>Lepista luscina</i>	Sph	Siyu et al. (2023)	Mongolia	99,4590	50,4361
<i>Agaricus arvensis</i>	Sph	Smith (1957)	United States	-	-
<i>Agaricus campestris</i>	Sph	Smith (1957)	United States	-	-
<i>Gliophorus psittacinus</i>	Sph	Smith (1957)	United States	-	-
<i>Lepista nuda</i>	Sph	Smith (1957)	United States	-	-
<i>Marasmius oreades</i>	Sph	Smith (1957)	United States	-	-
<i>Rhodocollybia butirracea</i>	Sph	Smith (1957)	United States	-	-
<i>Scleroderma verrucosum</i>	Ecm	Smith (1957)	United States	-	-
<i>Calvatia cyathiformis</i>	Sph	Sprague (1946)	United States	-	-
<i>Clitocybe nebularis</i>	Sph	Stahl (1900)*	Germany	-	-
<i>Lycoperdon dermoxanthum</i>	Sph	Terashima et al. (2004)	Japan	140,6235	35,3627
<i>Vascellum curtisii</i>	Sph	Terashima et al. (2004)	Japan	141,6235	35,3627
<i>Lepista sordida</i>	Sph	Terashima et al. (2007)	Japan	142,6235	35,3627
<i>Hydnellum suaveolens</i>	Ecm	Thomas (1905)*	Germany	-	-
<i>Agaricus campestris</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Agaricus xanthodermus</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Amanita flavorubescens</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Amanita muscaria</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Calvatia cyathiformis</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Cantharellus cibarius</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Clavaria fragilis</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Clavulina cinerea</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Clitocybe rivulosa</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Cortinarius sp</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Cortinarius sp 1</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Cuphophyllum virgineus</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323

<i>Helvella connivens</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Helvella crispa</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Hygrophorus erubescens</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Inocybe lacera</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Lactarius resimus</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Lepista irina</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Lepista subconnexa</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Leucopaxillus giganteus</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Lycoperdon perlatum</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Lyophyllum immundum</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Marasmius oreades</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Paxillus involutus</i>	Sph	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Russula aeruginea</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Russula aurantiolutea</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Russula decolorans</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Russula densifolia</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Suillus granulatus</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Tricholoma terreum</i>	Ecm	Toohey, (1983)	Canada	-76,1958	44,3323
<i>Tuber sp.</i>	Ecm	Toullasne & Toullasne (1851)*	France	-	-
<i>Agaricus campestris</i>	Sph	Van Tieghmen (1884)*	France	-	-
<i>Leucopaxillus giganteus</i>	Sph	Van Tieghmen (1884)*	France	-	-
<i>Marasmius oreades</i>	Sph	Van Tieghmen (1884)*	France	-	-
<i>Leucocalocybe mongolica</i>	Sph	Wang et al. (2022)a,b	China	84,9215	42,5642
<i>Calocybe gambosa</i>	Sph	Way (1847)*	United Kingdom	-	-
<i>Chlorophyllum morgani</i>	Sph	Williams (1897)*	United Kingdom	-	-
<i>Inocybe sp.</i>	Ecm	Williams (1897)*	United Kingdom	-	-
<i>Marasmius oreades</i>	Sph	Williams (1897)*	United Kingdom	-	-
<i>Tricholoma sp.</i>	Ecm	Willimas (1901)*	United Kingdom	-	-
<i>Tricholoma terreum</i>	Ecm	Winslow (1954)	United States	-	-
<i>Marasmius oreades</i>	Sph	Withering (1796)*	United Kingdom	-	-
<i>Agaricus campestris</i>	Sph	Wollaston et al. (1807)*	United Kingdom	-3,9430	55,5639
<i>Bovista plumbea</i>	Sph	Wollaston et al. (1807)*	United Kingdom	-3,9430	55,5639
<i>Macrolepiota procera</i>	Sph	Wollaston et al. (1807)*	United Kingdom	-3,9430	55,5639
<i>Marasmius oreades</i>	Sph	Wollaston et al. (1807)*	United Kingdom	-3,9430	55,5639
<i>Tricholoma terreum</i>	Ecm	Wollaston et al. (1807)*	United Kingdom	-3,9430	55,5639
<i>Floccularia luteovirens</i>	Sph	Xing et al. (2022)	China	99,2926	38,3130
<i>Floccularia luteovirens</i>	Ecm	Xing, (2017)	China	99,2926	38,3130
<i>Agaricus campestris</i>	Sph	Xu, (2011)	China	101,1914	37,3660
<i>Agaricus gennadii</i>	Sph	Yang, (2018a)	China	115,4000	41,4400
<i>Agaricus gennadii</i>	Sph	Yang, (2018b)	China	115,4000	41,4400
<i>Agaricus gennadii</i>	Sph	Yang, (2018c)	China	115,4000	41,4400
<i>Agaricus campestris</i>	Sph	Yang, (2019)	China	115,4000	41,4400
<i>Agaricus gennadii</i>	Sph	Yang, (2019)	China	115,4000	41,4400
<i>Marasmius oreades</i>	Sph	York & Canaway (2000)	United Kingdom	-0,2942	54,1125
<i>Leucocalocybe mongolica</i>	Sph	Zhao, (2003)	China	99,1800	25,1600
<i>Tricholoma matsutake</i>	Ecm	Zhou, (2021)	China	101,0000	25,1000

<i>Amanita vittadini</i>	Sph	Zotti 2024	Italy	14,1936	41,4376
<i>Marasmius oreades</i>	Sph	Zotti 2024	Italy	14,1936	42,4376
<i>Spodocybe collina</i>	Sph	Zotti 2024	Italy	14,1936	43,4376
<i>Agaricus crocodilinus</i>	Sph	Zotti in preparation	Italy	13,5858	41,5031
<i>Tricholosporum goniospermum</i>	Sph	Zotti in preparation	Italy	13,5858	41,5031
<i>Amanita phalloides</i>	Ecm	Zotti in preparation	Italy	14,2042	40,4840
<i>Agaricus arvensis</i>	Sph	Zotti, (2020)	Italy	12,5130	43,1734
<i>Calocybe gambosa</i>	Sph	Zotti, (2021)	Spain	-5,3524	42,3460

List of records on FFR-forming fungi and relative depth in soil

species	depth	environment	reference
<i>Agaricus campestris</i>	24,5	Turf grasses	Terrashima, 2004
<i>Tricholoma matzutake</i>	20	Turf grasses	Terrashima, 2004
<i>Tricholoma matzutake</i>	20	ECM woodland	Ohara, 1967
<i>Marasmius oreades</i>	20	ECM woodland	Kataoka, 2011
<i>Tricholoma matzutake</i>	15	ECM woodland	Yamananka,2020
<i>Marasmius oreades</i>	14,5	Pastures	Cosby, 1959
<i>Marasmius oreades</i>	12,7	Pastures	Hardwick, 1978
<i>Agaricus arvensis</i>	10	Managed grassland	Edwards, 1984
<i>Agaricus arvensis</i>	8	Managed grassland	Edwards, 1988
<i>Bovista dermoxanta</i>	4	Managed grassland	Bonanomi, 2012
<i>Vascellum curtisii</i>	2	Turf grasses	Terrashima, 2007
<i>Lepista sordida</i>	2	Pastures	Nordstat, 1973

List of records on FFR-forming fungi and relative growth rate

species	classification	cm per years	environment	Ecology	Reference
<i>Clitocybe nebularis</i>	<i>Clitocybe</i>	90	Woodland	Sph	Dowson, 1998
<i>Clitocybe dealbata</i>	<i>Clitocybe</i>	75	Grassland	Sph	Toohey, 1983
<i>Clitocybe subconnexa</i>	<i>Clitocybe</i>	60	Grassland	Sph	Toohey, 1983
<i>Lepista irina</i>	<i>Lepista</i>	60	Woodland	Sph	Toohey, 1983
<i>Lepista sordida</i>	<i>Lepista</i>	125	Turf grasses	Sph	Terrashima, 2007
<i>Lepista sordida</i>	<i>Lepista</i>	17,3	Pastures	Sph	Elliot, 1926
<i>Agaricus argenteus</i>	<i>Agaricus</i>	26	Grassland	Sph	Miller and Gongloff (2023)
<i>Agaricus arvensis</i>	<i>Agaricus</i>	60	Managed grassland	Sph	Edwards, 1984
<i>Agaricus arvensis</i>	<i>Agaricus</i>	60	Managed grassland	Sph	Edwards, 1984
<i>Agaricus arvensis</i>	<i>Agaricus</i>	50	Pastures	Sph	Ballion, 1906
<i>Agaricus campestris</i>	<i>Agaricus</i>	60	Managed grassland	Sph	Bonanomi, 2012
<i>Agaricus campestris</i>	<i>Agaricus</i>	45	Grassland	Sph	Toohey, 1983
<i>Agaricus liliceps</i>	<i>Agaricus</i>	26	Grassland	Sph	Miller and Gongloff (2023)
<i>Agaricus tabularis</i>	<i>Agaricus</i>	12	Pastures	Sph	Shantz and piemeisel, 1917
<i>Agaricus xanthodermus</i>	<i>Agaricus</i>	24	Woodland	Sph	Toohey, 1983

<i>Marasmius oreades</i>	<i>Marasmius</i>	62	Pastures	Sph	Bayliss, 1911
<i>Marasmius oreades</i>	<i>Marasmius</i>	35	Golg courses	Sph	Smith, 1957
<i>Marasmius oreades</i>	<i>Marasmius</i>	35	Pastures	Sph	Hardwick, 1978
<i>Marasmius oreades</i>	<i>Marasmius</i>	34,29	Pastures	Sph	Cosby, 1959
<i>Marasmius oreades</i>	<i>Marasmius</i>	32,5	Garden	Sph	Ingold, 1974
<i>Marasmius oreades</i>	<i>Marasmius</i>	22	Grassland	Sph	Toohey, 1983
<i>Marasmius oreades</i>	<i>Marasmius</i>	15,5	Turf grasses	Sph	Wolf, 1971
<i>Marasmius oreades</i>	<i>Marasmius</i>	15	Pastures	Sph	Nordstat, 1973
<i>Marasmius oreades</i>	<i>Marasmius</i>	13,5	Pastures	Sph	Dickinson, 1979
<i>Marasmius oreades</i>	<i>Marasmius</i>	12	Pastures	Sph	Ballion, 1906
<i>Marasmius oreades</i>	<i>Marasmius</i>	26	Grassland	Sph	Miller and Gongloff (2023)
<i>Clavaria cinerea</i>	<i>SPH other</i>	7	Grassland	Sph	Toohey, 1983
<i>Clavaria vermicularis</i>	<i>SPH other</i>	30	Grassland	Sph	Toohey, 1983
<i>Cuphophyllus virgineus</i>	<i>SPH other</i>	20	Grassland	Sph	Toohey, 1983
<i>Disciseda candida</i>	<i>SPH other</i>	36,4	Grassland	Sph	Miller and Gongloff (2023)
<i>Gastrum sp.</i>	<i>SPH other</i>	13,1	Grassland	Sph	Miller and Gongloff (2023)
<i>Helvella connivens</i>	<i>SPH other</i>	30	Woodland	Sph	Toohey, 1983
<i>Helvella crispa</i>	<i>SPH other</i>	32	Woodland	Sph	Toohey, 1983
<i>Hydnum suaveolens</i>	<i>SPH other</i>	23	Woodland	Sph	Thomas, 1896
<i>Bovista plumbea</i>	<i>SPH other</i>	27	Grassland	Sph	Miller and Gongloff (2023)
<i>Lycoperdon perlatum</i>	<i>SPH other</i>	35	Grassland	Sph	Toohey, 1983
<i>Lyophyllum immundum</i>	<i>SPH other</i>	10	Grassland	Sph	Toohey, 1983
<i>Calvatia spp.</i>	<i>Calvatia</i>	27	Grassland	Sph	Miller and Gongloff (2023)
<i>Calvatia cyathiformis</i>	<i>Calvatia</i>	24	Pastures	Sph	Shantz and piemeisel, 1917
<i>Calvatia fragilis</i>	<i>Calvatia</i>	20	Grassland	Sph	Toohey, 1983
<i>Russula aeruginosa</i>	<i>Russula</i>	32	Woodland	Ecm	Toohey, 1983
<i>Russula decolorans</i>	<i>Russula</i>	20	Woodland	Ecm	Toohey, 1983
<i>Russula densifolia</i>	<i>Russula</i>	20	Woodland	Ecm	Toohey, 1983
<i>Paxillus involutus</i>	<i>ECM other</i>	25	Woodland	Sph	Toohey, 1983
<i>Suillus granulatus</i>	<i>ECM other</i>	30	Woodland	Ecm	Toohey, 1983
<i>Inocybe lacera</i>	<i>ECM other</i>	20	Woodland	Ecm	Toohey, 1983
<i>Cantharellus cibarius</i>	<i>ECM other</i>	19	Woodland	Ecm	Toohey, 1983
<i>Cortinarius sp.</i>	<i>ECM other</i>	15	Woodland	Ecm	Toohey, 1983
<i>Amanita flavorubescens</i>	<i>ECM other</i>	40	Woodland	Ecm	Toohey, 1983
<i>Amanita muscaria</i>	<i>ECM other</i>	10	Woodland	Ecm	Toohey, 1983
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	17	ECM woodland	Ecm	Kawakami, 1994
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	17	ECM woodland	Ecm	Narimatsu, 2015
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	15,7	ECM woodland	Ecm	Lian 2006,
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	15	ECM woodland	Ecm	Kataoka, 2011
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	15	ECM woodland	Ecm	Ogawa, 1975
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	12,5	Woodland	Ecm	Kim 2013
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	12	Woodland	Ecm	Koo 2009
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	10	ECM woodland	Ecm	Ohara, 1967
<i>Tricholoma nauseosmus</i>	<i>Tricholoma</i>	10	ECM woodland	Ecm	Yamananka,2020
<i>Tricholoma terreum</i>	<i>Tricholoma</i>	60	Woodland	Ecm	Toohey, 1983