

Supplementary Materials

Journal of Fungi

New Method for identifying Fungal Kingdom Enzyme Hotspots from Genome Sequences

Lene Lange¹, Kristian Barrett², and Anne S. Meyer²

¹ BioEconomy, *Research & Advisory*, Copenhagen, 2500 Valby, Denmark; lene.lange2@gmail.com (L.L)

² Section for Protein Chemistry and Enzyme Technology, Department of Biotechnology and Biomedicine, Building 221, Technical University of Denmark, DK-2800 Kgs. Lyngby, Denmark; kbaka@dtu.dk (KB), asme@dtu.dk (ASM)

Table S1. List of the rank of all 1.932 fungal species/strains with regard to biomass degrading capacity based on bioinformatics analysis of their genome sequence. The species are ranked with regard to the Total number of “Function;Family” observations, yet specifying the total number of “Function;Family” observations in each substrate category. The data shown is the full list of data supporting Table 1 in the main manuscript.

No	Species	Class	Phylum	ACC					Submitter	
				Cellulose	Pectin	Xylan	Lignin	Total		
1	<i>Pecoramyces ruminatium</i>	Neocallimastigo	Chytridio	248	85	208	0	541	GCA_000412615.1	Oklahoma State University
2	<i>Neocallimastix californiae</i>	Neocallimastigo	Chytridio	232	122	172	0	526	GCA_002104975.1	DOE Joint Genome Institute
3	<i>Mycena citricolor</i>	Agarico	Basidio	91	204	50	149	494	GCA_003987915.1	Universidade de Sao Paulo
4	<i>Verticillium longisporum</i>	Sordario	Asco	139	176	74	95	484	GCA_001268165.1	SLU
5	<i>Coniochaeta sp. 2T2.1</i>	Sordario	Asco	117	102	108	98	425	GCA_009194965.1	DOE Joint Genome Institute
6	<i>Paramyrothecium roridum</i>	Sordario	Asco	106	163	63	79	411	GCA_003012165.1	USDA, ARS, NCAUR
7	<i>Cadophora sp. DSE1049</i>	Leotio	Asco	105	138	75	91	409	GCA_003073865.1	DOE Joint Genome Institute
8	<i>Diaporthe ampelina</i>	Sordario	Asco	116	129	58	97	400	GCA_001630405.1	Bangalore University
9	<i>Diaporthe longicolla</i>	Sordario	Asco	111	128	56	90	385	GCA_000800745.1	Purdue University
10	<i>Diaporthe sp. NJD1</i>	Sordario	Asco	111	118	58	94	381	GCA_013842865.1	Anhui Agricultural University
11	<i>Diaporthe capsici</i>	Sordario	Asco	107	118	58	93	376	GCA_013364905.1	Sichuan agricultural university
12	<i>Diaporthe sp. HANT25</i>	Sordario	Asco	106	123	57	88	374	GCA_013435955.1	Faculty of Science, Mahidol University
13	<i>Lachnum nothofagi</i>	Leotio	Asco	92	124	60	95	371	GCA_003988875.1	Manaaki Whenua Landcare Research
14	<i>Colletotrichum camelliae</i>	Sordario	Asco	90	139	65	77	371	GCA_011947485.1	Central South University of Forestry and Technology

15	<i>Colletotrichum truncatum</i>	Sordario	Asco	90	150	59	72	371	GCA_014235925.1	University of Salamanca
16	<i>Colletotrichum sp. COLG25</i>	Sordario	Asco	90	139	63	76	368	GCA_009801095.1	University of Agriculture, Faisalabad Pakistan.
17	<i>Colletotrichum tropicale</i>	Sordario	Asco	89	139	63	77	368	GCA_013201785.1	RIKEN
18	<i>Colletotrichum fructicola</i>	Sordario	Asco	89	137	62	77	365	GCA_000319635.2	RIKEN Plant Science Center
19	<i>Colletotrichum asianum</i>	Sordario	Asco	89	136	61	78	364	GCA_009806415.1	Northwest A&F University
20	<i>Phialocephala subalpina</i>	Leotio	Asco	96	118	62	87	363	GCA_900073065.1	Institute of Bioinformatics and Systems Biology
21	<i>Pestalotiopsis fici</i>	Sordario	Asco	92	128	63	80	363	GCA_000516985.1	Institute of microbiology, chinese academy of sciences
22	<i>Colletotrichum siamense</i>	Sordario	Asco	87	137	62	76	362	GCA_013390195.1	RIKEN
23	<i>Colletotrichum gloeosporioides</i>	Sordario	Asco	90	134	59	76	359	GCA_003243855.1	Nanjing Forestry University
24	<i>Colletotrichum viniferum</i>	Sordario	Asco	88	135	59	77	359	GCA_013201765.1	RIKEN
25	<i>Neopestalotiopsis sp. 37M</i>	Sordario	Asco	96	118	54	89	357	GCA_011058875.1	University of Campinas
26	<i>Colletotrichum sp. COLG31</i>	Sordario	Asco	92	132	55	78	357	GCA_009800995.1	University of Agriculture, Faisalabad Pakistan.
27	<i>Colletotrichum karsti</i>	Sordario	Asco	90	139	57	71	357	GCA_011947395.1	Central South University of Forestry and Technology
28	<i>Colletotrichum aenigma</i>	Sordario	Asco	86	131	62	75	354	GCA_013390185.1	RIKEN
29	<i>Memnoniella echinata</i>	Sordario	Asco	99	123	60	67	349	GCA_001599555.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
30	<i>Aspergillus latus</i>	Eurotio	Asco	95	137	53	58	343	GCA_013306195.1	Vanderbilt University
31	<i>Clonostachys rosea</i>	Sordario	Asco	95	121	67	56	339	GCA_000963775.2	Chinese Academy of Agricultural Sciences
32	<i>Colletotrichum tofieldiae</i>	Sordario	Asco	89	116	57	71	333	GCA_001618725.1	Max Planck Genome Center Cologne
33	<i>Colletotrichum musicola</i>	Sordario	Asco	86	125	53	67	331	GCA_014235935.1	University of Salamanca
34	<i>Colletotrichum musae</i>	Sordario	Asco	82	118	52	77	329	GCA_002814275.1	CAPES
35	<i>Exidia glandulosa</i>	Agarico	Basidio	82	61	70	114	327	GCA_001632375.1	DOE Joint Genome Institute
36	<i>Nectria sp. B-13</i>	Sordario	Asco	94	124	59	50	327	GCA_002682825.1	Anhui University
37	<i>Colletotrichum scovillei</i>	Sordario	Asco	83	118	57	69	327	GCA_011075155.1	Tianjin Institute of Plant Protection
38	<i>Colletotrichum simmondsii</i>	Sordario	Asco	81	118	59	66	324	GCA_001563135.1	Universidad de Salamanca
39	<i>Chalara longipes</i>	Leotio	Asco	94	82	69	79	324	GCA_009732865.1	DOE Joint Genome Institute
40	<i>Colletotrichum plurivorum</i>	Sordario	Asco	82	125	49	67	323	GCA_014235945.1	University of Salamanca
41	<i>Colletotrichum acutatum</i>	Sordario	Asco	82	115	57	69	323	GCA_001593745.1	Seoul National University
42	<i>Diaporthe aspalathi</i>	Sordario	Asco	90	108	47	78	323	GCA_001447215.1	Beltsville Agricultural Research Center
43	<i>Pestalotiopsis sp. JCM 9685</i>	Sordario	Asco	89	104	49	81	323	GCA_001599175.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
44	<i>Colletotrichum incanum</i>	Sordario	Asco	85	115	54	68	322	GCA_001625285.1	Max Planck Genome Center Cologne

45	<i>Verticillium zaregamsianum</i>	Sordario	Asco	100	124	49	47	320	GCA_002851755.1	Wageningen University & Research
46	<i>Colletotrichum nymphaeae</i>	Sordario	Asco	80	116	57	66	319	GCA_001563115.1	Universidad de Salamanca
47	<i>Colletotrichum coccodes</i>	Sordario	Asco	85	114	52	67	318	GCA_002249775.1	USDA-ARS
48	<i>Colletotrichum fioriniae</i>	Sordario	Asco	79	117	55	66	317	GCA_002930455.1	VIB
49	<i>Colletotrichum sojae</i>	Sordario	Asco	79	121	51	65	316	GCA_014235955.1	University of Salamanca
50	<i>Calonectria naviculata</i>	Sordario	Asco	86	117	53	58	314	GCA_003031705.1	USDA-ARS
51	<i>Ilyonectria destructans</i>	Sordario	Asco	92	120	40	62	314	GCA_001913115.1	Northeast Normal University
52	<i>Hyaloscypha variabilis</i>	Leotio	Asco	91	85	64	73	313	GCA_002865655.1	DOE Joint Genome Institute Jet Propulsion Laboratory, California Institute of Technology
53	<i>Byssochlamys sp. IMV 00045</i>	Eurotio	Asco	88	103	54	66	311	GCA_001931905.2	US Department of Agriculture, Agriculture Research Service
54	<i>Fusarium sp. NRRL 22101</i>	Sordario	Asco	92	104	46	67	309	GCA_013010345.1	Universidad de Salamanca
55	<i>Colletotrichum salicis</i>	Sordario	Asco	77	114	48	68	307	GCA_001563125.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
56	<i>Gliomastix tumulicola</i>	Sordario	Asco	83	108	63	53	307	GCA_001599755.1	US Department of Agriculture, Agriculture Research Service
57	<i>Fusarium decemcellulare</i>	Sordario	Asco	76	119	50	62	307	GCA_013266205.1	AIT-Austrian Institute of Technology
58	<i>Dactylonectria torresensis</i>	Sordario	Asco	78	128	48	52	306	GCA_011426275.1	FABI
59	<i>Calonectria pseudoturangelicola</i>	Sordario	Asco	85	110	52	58	305	GCA_013403825.1	National Institute of Biological Resources
60	<i>Colletotrichum sp. JS-367</i>	Sordario	Asco	80	109	52	64	305	GCA_003122705.1	INAIL-Research Area
61	<i>Penicillium sp. CF01</i>	Eurotio	Asco	88	110	37	67	302	GCA_005250745.1	Wageningen University & Research
62	<i>Verticillium klebahnii</i>	Sordario	Asco	90	116	49	46	301	GCA_002851715.1	KLEF Deemed to be University
63	<i>Colletotrichum capsici</i>	Sordario	Asco	74	120	52	55	301	GCA_011947275.1	UNIVERSITY OF BRISTOL
64	<i>Corynespora cassiicola</i>	Dothideo	Asco	81	100	44	76	301	GCA_900169545.1	Nakdonggang National Institute of Biological Resources
65	<i>Articulospora tetracladia</i>	Leotio	Asco	75	122	46	58	301	GCA_003415645.1	USDA-ARS
66	<i>Dactylonectria macrodidyma</i>	Sordario	Asco	76	123	49	52	300	GCA_000935225.1	University of California, Riverside
67	<i>Hortaea werneckii</i>	Dothideo	Asco	80	98	62	59	299	GCA_002127715.1	Wageningen University & Research
68	<i>Verticillium albo-atrum</i>	Sordario	Asco	92	114	46	47	299	GCA_002851705.1	RIKEN
69	<i>Colletotrichum trifolii</i>	Sordario	Asco	74	116	49	60	299	GCA_004367215.1	UC Davis
70	<i>Phaeoacremonium minimum</i>	Sordario	Asco	84	94	63	57	298	GCA_000392275.1	Kunming University of Science and Technology
71	<i>Hymenopellis chiangmaiae</i>	Agarico	Basidio	77	70	44	104	295	GCA_003314085.1	Seoul National University
72	<i>Fusarium sp. JS1030</i>	Sordario	Asco	72	110	53	60	295	GCA_000966855.1	Wageningen University & Research
73	<i>Verticillium tricorpus</i>	Sordario	Asco	86	114	50	45	295	GCA_002851695.1	

74	<i>Pezicula radiculicola</i>	Leotio	Asco	78	103	30	83	294	GCA_003008705.1	The University of Texas Health Science Center at Houston
75	<i>Colletotrichum destructivum</i>	Sordario	Asco	77	110	46	61	294	GCA_009900065.1	Chinese Academy of Agricultural Sciences
76	<i>Verticillium isaacii</i>	Sordario	Asco	87	112	50	45	294	GCA_002851775.1	Wageningen University & Research
77	<i>Colletotrichum sidae</i>	Sordario	Asco	73	114	47	59	293	GCA_004367935.1	RIKEN
78	<i>Colletotrichum spinosum</i>	Sordario	Asco	74	113	47	59	293	GCA_004366825.1	RIKEN
79	<i>Zopfia rhizophila</i>	Dothideo	Asco	85	78	56	74	293	GCA_010093925.1	DOE Joint Genome Institute
80	<i>Aspergillus sp. MA 6041</i>	Eurotio	Asco	78	104	46	64	292	GCA_003138005.1	University of Natural Resources and Life Sciences, Vienna
81	<i>Ophiognomonium clavignenti-juglandacearum</i>	Sordario	Asco	77	94	46	75	292	GCA_003671545.1	Colorado State U
82	<i>Piromyces sp. E2</i>	Neocallimastigo	Chytridio	128	47	117	0	292	GCA_002157105.1	JGI
83	<i>Calonectria leucothoes</i>	Sordario	Asco	77	105	51	58	291	GCA_002179835.1	USDA-ARS
84	<i>Colletotrichum orbiculare</i>	Sordario	Asco	71	114	47	59	291	GCA_000350065.2	RIKEN Plant Science Center
85	<i>Phialocephala scopiformis</i>	Leotio	Asco	80	76	52	80	288	GCA_001500285.1	DOE Joint Genome Institute
86	<i>Pseudopyrenochaeta lycopersici</i>	Dothideo	Asco	86	90	43	67	286	GCA_003313425.1	University of Verona
87	<i>Colletotrichum higginsianum</i>	Sordario	Asco	74	108	42	60	284	GCA_001672515.1	GATC Biotech AG
88	<i>Xylaria striata</i>	Sordario	Asco	76	81	53	72	282	GCA_002749545.1	Zhejiang University
89	<i>Calonectria fujianensis</i>	Sordario	Asco	77	105	44	56	282	GCA_013406965.1	FABI
90	<i>Nigrograna mackinnonii</i>	Dothideo	Asco	87	63	55	77	282	GCA_001007845.1	Yale University
91	<i>Pseudogymnoascus sp. VKM F-4519 (FW-2642)</i>	Leotio	Asco	77	102	62	40	281	GCA_000750935.1	Moscow State University
92	<i>Fusarium sp. NRRL 66182</i>	Sordario	Asco	67	110	53	50	280	GCA_013266265.1	US Department of Agriculture, Agriculture Research Service
93	<i>Calonectria honghensis</i>	Sordario	Asco	77	104	45	54	280	GCA_013403855.1	FABI
94	<i>Diaporthe helianthi</i>	Sordario	Asco	77	96	45	62	280	GCA_001702395.2	University of Western Brittany
95	<i>Fusarium oxysporum</i>	Sordario	Asco	74	101	49	55	279	GCA_002233775.1	University of Amsterdam
96	<i>Calonectria aciculata</i>	Sordario	Asco	76	103	46	54	279	GCA_013406995.1	FABI
97	<i>Ilyonectria mors-panacis</i>	Sordario	Asco	80	108	40	51	279	GCA_002991585.1	Zhejiang Sci-Tech University
98	<i>Calonectria pseudoreteauidii</i>	Sordario	Asco	78	101	43	56	278	GCA_001879505.1	Fujian Agriculture and Forestry University
99	<i>Fusarium nematophilum</i>	Sordario	Asco	75	107	44	51	277	GCA_013623595.1	US Department of Agriculture, Agriculture Research Service
100	<i>Colletotrichum chlorophyti</i>	Sordario	Asco	67	111	42	57	277	GCA_001937105.1	RIKEN
101	<i>Fusarium oxysporum</i>	Sordario	Asco	72	98	51	54	275	GCA_001652425.1	CSIRO
102	<i>Cairneyella variabilis</i>	Leotio	Asco	76	88	39	71	274	GCA_001625345.1	CSIRO
103	<i>Coleophoma cylindrospora</i>	Leotio	Asco	79	103	27	64	273	GCA_003369665.1	The University of Texas Health Science Center at Houston
104	<i>Stagonosporopsis tanacetii</i>	Dothideo	Asco	60	111	46	55	272	GCA_000812845.1	The University of Melbourne
105	<i>Fusarium oxysporum</i>	Sordario	Asco	66	97	49	58	270	GCA_005930515.1	RIKEN
106	<i>Paraphaeosphaeria sporulosa</i>	Dothideo	Asco	74	80	52	64	270	GCA_001642045.1	DOE Joint Genome Institute

107	<i>Fusarium oxysporum</i>	Sordario	Asco	70	93	48	58	269	GCA_012610815.1	Contact; Kurt. A. Zeller, USDA-APHIS-PPQ-S&T
108	<i>[Nectria] haematococca</i>	Sordario	Asco	79	97	44	49	269	GCA_010015875.1	Lishui University
109	<i>Pseudogymnoascus sp. VKM F-4520 (FW-2644)</i>	Leotio	Asco	80	94	51	44	269	GCA_000750995.1	Moscow State University
110	<i>Colletotrichum sansevieriae</i>	Sordario	Asco	69	100	43	57	269	GCA_002749775.1	Kagoshima University
111	<i>Oidiodendron maius</i>	Leotio	Asco	66	100	51	51	268	GCA_000827325.1	JGI
112	<i>Fusarium oxysporum</i>	Sordario	Asco	71	100	48	49	268	GCA_001702785.1	University of Amsterdam
113	<i>Fusarium sp. NRRL 62610</i>	Sordario	Asco	82	92	40	54	268	GCA_013186425.2	US Department of Agriculture, Agriculture Research Service
114	<i>Fusarium oxysporum</i>	Sordario	Asco	75	91	46	55	267	GCA_000260075.2	Broad Institute
115	<i>Fusarium oxysporum</i>	Sordario	Asco	68	99	51	49	267	GCA_003615085.1	NIAB-EMR
116	<i>Cudoniella acicularis</i>	Leotio	Asco	77	70	46	74	267	GCA_013054445.1	TU Dresden - IHI Zittau
117	<i>Beverwykella pulmonaria</i>	Dothideo	Asco	87	60	44	76	267	GCA_001599595.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
118	<i>Margaritispora aquatica</i>	Leotio	Asco	63	112	42	50	267	GCA_007644065.1	Nakdonggang National Institute of Biological Resources
119	<i>Eutypa lata</i>	Sordario	Asco	82	68	44	72	266	GCA_000349385.1	UC Davis
120	<i>Pleosporales sp. UM 1110 2012</i>	Dothideo	Asco	80	64	57	65	266	GCA_000263175.2	UNIVERSITY OF MALAYA
121	<i>Fusarium oxysporum</i>	Sordario	Asco	71	93	46	55	265	GCA_001703215.1	University of Amsterdam
122	<i>Pyrenochaeta sp. DS3sAY3a</i>	Dothideo	Asco	80	81	43	61	265	GCA_001644535.1	DOE Joint Genome Institute
123	<i>Fusarium oxysporum</i>	Sordario	Asco	68	92	50	54	264	GCA_002234045.1	University of Amsterdam
124	<i>Calonectria crousiana</i>	Sordario	Asco	69	97	46	52	264	GCA_013406985.1	FABI
125	<i>Paraphoma sp. B47-9</i>	Dothideo	Asco	76	84	38	66	264	GCA_001748405.1	National Institute for Agro-Environmental Sciences (NIAES)
126	<i>Fusarium oxysporum</i>	Sordario	Asco	66	94	52	51	263	GCA_000260155.3	Broad Institute
127	<i>Stenocarpella maydis</i>	Sordario	Asco	80	71	50	62	263	GCA_002270565.1	University of Arkansas
128	<i>Fusarium metavorans</i>	Sordario	Asco	78	94	39	52	263	GCA_001633045.1	USDA-ARS
129	<i>Fusarium oxysporum</i>	Sordario	Asco	68	94	49	51	262	GCA_001702645.1	University of Amsterdam
130	<i>Fusarium sp. NRRL 62957</i>	Sordario	Asco	75	92	39	56	262	GCA_012978535.1	US Department of Agriculture, Agriculture Research Service
131	<i>Pseudogymnoascus sp. VKM F-4518 (FW-2643)</i>	Leotio	Asco	82	94	43	43	262	GCA_000750925.1	Moscow State University
132	<i>Ganoderma boninense</i>	Agarico	Basidio	77	36	44	104	261	GCA_002900995.2	PT SMART Tbk
133	<i>Periconia macrospinoso</i>	Dothideo	Asco	89	47	48	77	261	GCA_003073855.1	DOE Joint Genome Institute
134	<i>Fusarium phaseoli</i>	Sordario	Asco	75	94	42	50	261	GCA_013364925.1	US Department of Agriculture, Agriculture Research Service
135	<i>Hymenoscyphus salicellus</i>	Leotio	Asco	75	76	41	69	261	GCA_001414355.1	University of Exeter
136	<i>Fusarium oxysporum</i>	Sordario	Asco	68	93	48	51	260	GCA_002233895.1	University of Amsterdam
137	<i>Fusarium oxysporum</i>	Sordario	Asco	65	94	48	53	260	GCA_003977725.1	University of California at Davis
138	<i>Fusarium oxysporum</i>	Sordario	Asco	67	97	45	51	260	GCA_000260235.2	Broad Institute
139	<i>Fusarium albosuccineum</i>	Sordario	Asco	64	102	42	52	260	GCA_012931995.1	US Department of Agriculture, Agriculture Research Service
140	<i>Fusarium oxysporum</i>	Sordario	Asco	67	92	49	51	259	GCA_001702695.2	University of Amsterdam
141	<i>Stachybotrys chartarum</i>	Sordario	Asco	86	69	47	57	259	GCA_000732565.1	UT Southwestern

142	<i>Fusarium oxysporum</i>	Sordario	Asco	67	94	44	53	258	GCA_013423245.1	St. Petersburg University
143	<i>Fusarium neocosmosporiellum</i>	Sordario	Asco	76	88	42	52	258	GCA_006518225.1	US Department of Agriculture, Agriculture Research Service
144	<i>Colletotrichum lindemuthianum</i>	Sordario	Asco	68	96	38	56	258	GCA_001693025.2	Universidade Federal de Vicosa
145	<i>Fusarium oxysporum</i>	Sordario	Asco	67	91	49	50	257	GCA_002233805.1	University of Amsterdam
146	<i>Coprinellus micaceus</i>	Agarico	Basidio	74	26	68	89	257	GCA_004369175.1	DOE Joint Genome Institute
147	<i>Fusarium oxysporum</i>	Sordario	Asco	64	92	47	53	256	GCA_009602545.1	Auburn University
148	<i>Fusarium vanettenii</i>	Sordario	Asco	74	90	42	50	256	GCA_000151355.1	DOE Joint Genome Institute
149	<i>Fusarium oxysporum</i>	Sordario	Asco	67	92	46	50	255	GCA_002234115.1	University of Amsterdam
150	<i>Fusarium oxysporum</i>	Sordario	Asco	64	93	46	52	255	GCA_002233865.1	University of Amsterdam
151	<i>Aspergillus calidoustus</i>	Eurotio	Asco	74	95	40	46	255	GCA_001511075.1	HKI JENA
152	<i>Pezizula neosporulosa</i>	Leotio	Asco	73	91	27	64	255	GCA_009805495.1	Chinese Academy of Forestry
153	<i>Fusarium oxysporum</i>	Sordario	Asco	61	95	50	48	254	GCA_001888865.1	ZhongKai University of Agriculture and Engineering
154	<i>Lophiotrema nucula</i>	Dothideo	Asco	72	68	40	74	254	GCA_010015825.1	DOE Joint Genome Institute
155	<i>Colletotrichum shioi</i>	Sordario	Asco	62	98	42	52	254	GCA_006783085.1	RIKEN
156	<i>Endocalyx cinctus</i>	0	Asco	81	60	48	64	253	GCA_001600455.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
157	<i>Fusarium protoensiforme</i>	Sordario	Asco	78	89	38	48	253	GCA_011320165.1	US Department of Agriculture, Agriculture Research Service
158	<i>Stagonospora sp. SRC1lsM3a</i>	Dothideo	Asco	80	52	57	64	253	GCA_001644525.1	DOE Joint Genome Institute
159	<i>Hymenoscyphus herbarum</i>	Leotio	Asco	74	70	42	67	253	GCA_001414485.1	University of Exeter
160	<i>Coleophoma crateriformis</i>	Leotio	Asco	73	93	25	61	252	GCA_003369635.1	The University of Texas Health Science Center at Houston
161	<i>Pseudogymnoascus sp. VKM F-103</i>	Leotio	Asco	72	88	53	39	252	GCA_000750895.1	Moscow State University
162	<i>Fusarium oxysporum</i>	Sordario	Asco	64	90	48	49	251	GCA_013347345.1	Washington State University Mount Vernon Northwestern Research and Extension Center
163	<i>Gamarada debralockiae</i>	Leotio	Asco	65	79	43	63	250	GCA_002803225.1	Macquarie University
164	<i>Fusarium oxysporum</i>	Sordario	Asco	65	89	47	49	250	GCA_009755825.1	University of Massachusetts Amherst
165	<i>Fusarium oxysporum</i>	Sordario	Asco	63	93	46	48	250	GCA_002234135.1	University of Amsterdam
166	<i>Fusarium oxysporum</i>	Sordario	Asco	65	91	47	47	250	GCA_002234105.1	University of Amsterdam
167	<i>Bysothecium circinans</i>	Dothideo	Asco	73	74	44	59	250	GCA_010015675.1	DOE Joint Genome Institute
168	<i>Juglanconis sp. DMW523</i>	Sordario	Asco	76	82	31	60	249	GCA_003013055.1	USDA-ARS
169	<i>Pseudomassariella vexata</i>	Sordario	Asco	68	87	33	61	249	GCA_002105095.1	DOE Joint Genome Institute
170	<i>Melanomma pulvis-pyrius</i>	Dothideo	Asco	72	62	49	66	249	GCA_010093585.1	DOE Joint Genome Institute
171	<i>Aaosphaeria arxii</i>	Dothideo	Asco	82	65	44	58	249	GCA_010015735.1	DOE Joint Genome Institute
172	<i>Clavariopsis aquatica</i>	Sordario	Asco	79	61	42	67	249	GCA_013620735.1	Leibniz-Institute of Freshwater Ecology and Inland Fisheries
173	<i>Fusarium fracticaudum</i>	Sordario	Asco	59	87	56	46	248	GCA_003353625.1	Forestry and Agricultural Biotechnology Institute, University of Pretoria

174	<i>Fusarium tuaranense</i>	Sordario	Asco	72	88	40	48	248	GCA_013363205.1	US Department of Agriculture, Agriculture Research Service
175	<i>Fusarium sp. NRRL 62941</i>	Sordario	Asco	74	85	40	49	248	GCA_012978555.1	US Department of Agriculture, Agriculture Research Service
176	<i>Fusarium newnesense</i>	Sordario	Asco	59	83	51	54	247	GCA_013184375.1	US Department of Agriculture, Agriculture Research Service
177	<i>Arthrinium phaeospermum</i>	Sordario	Asco	78	54	52	63	247	GCA_006503535.1	Sichuan Agricultural University
178	<i>Fusarium sterilihyphosum</i>	Sordario	Asco	58	88	52	49	247	GCA_013186845.1	US Department of Agriculture, Agriculture Research Service
179	<i>Clohesyomyces aquaticus</i>	Dothideo	Asco	75	49	52	71	247	GCA_002105025.1	DOE Joint Genome Institute
180	<i>Hymenoscyphus fructigenus</i>	Leotio	Asco	70	69	42	66	247	GCA_001414455.1	University of Exeter
181	<i>Fusarium oxysporum</i>	Sordario	Asco	62	92	45	47	246	GCA_000350345.1	BGI
182	<i>Fusarium sarcochroum</i>	Sordario	Asco	63	96	41	46	246	GCA_013266185.1	US Department of Agriculture, Agriculture Research Service
183	<i>Neofusicoccum cordaticola</i>	Dothideo	Asco	64	84	30	68	246	GCA_009830905.1	University of Pretoria
184	<i>Pseudogymnoascus sp. 24MN13</i>	Leotio	Asco	72	89	49	36	246	GCA_001662595.1	US Forest Service
185	<i>Fusarium pseudocircinatum</i>	Sordario	Asco	60	87	48	50	245	GCA_013396035.1	US Department of Agriculture, Agriculture Research Service
186	<i>Fusarium sp. NRRL 62944</i>	Sordario	Asco	74	88	37	46	245	GCA_013186395.1	US Department of Agriculture, Agriculture Research Service
187	<i>Pseudogymnoascus verrucosus</i>	Leotio	Asco	68	89	51	37	245	GCA_001662655.1	US Forest Service
188	<i>Pseudogymnoascus sp. 04NY16</i>	Leotio	Asco	72	90	48	35	245	GCA_001630575.1	Ohio State University
189	<i>Aquanectria penicillioides</i>	Sordario	Asco	70	98	38	39	245	GCA_003415625.1	Nakdonggang National Institute of Biological Resources
190	<i>Trematosphaeria pertusa</i>	Dothideo	Asco	72	60	44	69	245	GCA_010094035.1	DOE Joint Genome Institute
191	<i>Fusarium oxysporum</i>	Sordario	Asco	64	91	39	50	244	GCA_014154955.1	University of Amsterdam
192	<i>Fusarium sp. NRRL 25303</i>	Sordario	Asco	60	86	49	49	244	GCA_013396255.1	US Department of Agriculture, Agriculture Research Service
193	<i>Fusarium oxysporum</i>	Sordario	Asco	63	86	46	49	244	GCA_001703455.1	University of Amsterdam
194	<i>Neofusicoccum kwambonambiense</i>	Dothideo	Asco	62	84	31	67	244	GCA_009829855.1	University of Pretoria
195	<i>Pseudogymnoascus sp. VKM F-3775</i>	Leotio	Asco	66	86	52	40	244	GCA_000750715.1	Moscow State University Wageningen University & Research
196	<i>Verticillium nubilum</i>	Sordario	Asco	72	95	37	40	244	GCA_002851675.1	US Department of Agriculture, Agriculture Research Service
197	<i>Fusarium sp. NRRL 66088</i>	Sordario	Asco	77	86	36	44	243	GCA_013186415.1	US Department of Agriculture, Agriculture Research Service
198	<i>Fusarium sp. NRRL 25184</i>	Sordario	Asco	63	78	51	51	243	GCA_013755755.1	US Department of Agriculture, Agriculture Research Service
199	<i>Neofusicoccum parvum</i>	Dothideo	Asco	62	85	30	66	243	GCA_000385595.1	UC Davis
200	<i>Hymenopellis radicata</i>	Agarico	Basidio	58	55	34	96	243	GCA_003314005.1	Kunming University of Science and Technology
201	<i>Hymenotorrendiella dingleyae</i>	Leotio	Asco	69	68	40	66	243	GCA_003988905.1	Manaaki Whenua Landcare Research
202	<i>Fusarium ambrosium</i>	Sordario	Asco	74	82	37	49	242	GCA_003947045.1	University of California, Riverside

203	<i>Penicillium janthinellum</i>	Eurotio	Asco	59	104	49	30	242	GCA_002369805.1	CSIR-NIIST
204	<i>Neofusicoccum ribis</i>	Dothideo	Asco	63	81	30	68	242	GCA_009829435.1	University of Pretoria
205	<i>Neofusicoccum umdonicola</i>	Dothideo	Asco	63	82	30	67	242	GCA_009829365.1	University of Pretoria
206	<i>Lachnellula suecica</i>	Leotio	Asco	67	62	51	62	242	GCA_007825345.1	Canadian Food Inspection Agency (CFIA)
207	<i>Fusarium tupiense</i>	Sordario	Asco	56	85	51	49	241	GCA_013364945.1	US Department of Agriculture, Agriculture Research Service
208	<i>Arthrinium malaysianum</i>	Sordario	Asco	75	54	54	58	241	GCA_006508115.1	Indian Institute Of Chemical biology
209	<i>Juglanconis oblonga</i>	Sordario	Asco	74	79	32	56	241	GCA_003012965.1	USDA-ARS
210	<i>Colletotrichum orchidophilum</i>	Sordario	Asco	62	86	38	55	241	GCA_001831195.1	University of Western Brittany
211	<i>Pseudogymnoascus sp. BL308</i>	Leotio	Asco	71	91	45	34	241	GCA_001630595.1	Ohio State University
212	<i>Auricularia cornea</i>	Agarico	Basidio	65	42	53	80	240	GCA_008368385.1	Jilin Agricultural University
213	<i>Fusarium oxysporum</i>	Sordario	Asco	56	91	43	50	240	GCA_009746015.1	University of Massachusetts Amherst
214	<i>Botryosphaeria dothidea</i>	Dothideo	Asco	68	80	26	66	240	GCA_011503125.2	Shandong Agricultural University
215	<i>Fusarium odoratissimum</i>	Sordario	Asco	59	88	45	48	240	GCA_000260195.2	Broad Institute
216	<i>Colletotrichum tanacetii</i>	Sordario	Asco	60	92	38	50	240	GCA_005350895.1	The University of Melbourne
217	<i>Fusarium sp. NRRL 53293</i>	Sordario	Asco	55	83	54	47	239	GCA_013759125.1	US Department of Agriculture, Agriculture Research Service
218	<i>Juglanconis juglandina</i>	Sordario	Asco	72	80	33	54	239	GCA_003012975.1	USDA-ARS
219	<i>Fusarium begoniae</i>	Sordario	Asco	57	82	53	47	239	GCA_013186755.1	US Department of Agriculture, Agriculture Research Service
220	<i>Neonectria sp. DH2</i>	Sordario	Asco	72	90	38	39	239	GCA_003934905.1	Sun Yat-sen University
221	<i>Alternaria tenuissima</i>	Dothideo	Asco	70	68	42	59	239	GCA_004156035.1	NIAB-East Malling Research
222	<i>Fusarium foetens</i>	Sordario	Asco	64	82	43	49	238	GCA_013623845.1	US Department of Agriculture, Agriculture Research Service
223	<i>Fusarium euwallaceae</i>	Sordario	Asco	72	83	37	46	238	GCA_003957675.1	University of California, Riverside
224	<i>Colletotrichum lentis</i>	Sordario	Asco	60	91	37	50	238	GCA_003386485.1	University of Saskatchewan
225	<i>Alternaria burnsii</i>	Dothideo	Asco	67	69	43	59	238	GCA_013036055.1	Northwest A&F University
226	<i>Fusarium mexicanum</i>	Sordario	Asco	55	84	51	47	237	GCA_013396015.1	US Department of Agriculture, Agriculture Research Service
227	<i>Fusarium commune</i>	Sordario	Asco	59	86	45	46	236	GCA_001599515.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
228	<i>Fusarium oxysporum</i>	Sordario	Asco	62	81	41	52	236	GCA_001757345.1	ICRISAT
229	<i>Colletotrichum sublineola</i>	Sordario	Asco	64	66	48	58	236	GCA_001951195.1	University of Kentucky
230	<i>Fusarium udum</i>	Sordario	Asco	56	86	44	50	236	GCA_013186905.1	US Department of Agriculture, Agriculture Research Service
231	<i>Alternaria arborescens</i>	Dothideo	Asco	69	68	40	59	236	GCA_004634205.1	USFDA
232	<i>Verticillium nonalfalfae</i>	Sordario	Asco	69	89	38	40	236	GCA_002776445.1	University of Ljubljana, Biotechnical faculty

233	<i>Fusarium guttiforme</i>	Sordario	Asco	57	81	49	48	235	GCA_013186795.1	US Department of Agriculture, Agriculture Research Service
234	<i>Fusarium nygamai</i>	Sordario	Asco	59	77	48	51	235	GCA_001262555.1	University of Pretoria
235	<i>Lentithecium fluviatile</i>	Dothideo	Asco	71	53	38	73	235	GCA_010405425.1	DOE Joint Genome Institute
236	<i>Alternaria alternata</i>	Dothideo	Asco	66	68	41	60	235	GCA_011420255.1	National Institute of Biological Resources
237	<i>Alternaria sp. MG1</i>	Dothideo	Asco	68	68	41	58	235	GCA_003574525.1	Northwestern Polytechnical University
238	<i>Fusarium subglutinans</i>	Sordario	Asco	58	77	49	50	234	GCA_012071885.1	UNRC
239	<i>Fusarium anthophilum</i>	Sordario	Asco	57	80	49	48	234	GCA_013364935.1	US Department of Agriculture, Agriculture Research Service
240	<i>Fusarium pininemorale</i>	Sordario	Asco	56	81	51	46	234	GCA_002165215.1	Forestry and Agricultural Biotechnology Institute
241	<i>Fusarium mangiferae</i>	Sordario	Asco	57	85	47	45	234	GCA_900044065.1	Institute of Bioinformatics and Systems Biology
242	<i>Clarireedia monteithiana</i>	Leotio	Asco	63	75	36	60	234	GCA_002242835.1	Rutgers University
243	<i>Fusarium sp. AF-4</i>	Sordario	Asco	73	80	36	45	234	GCA_003946995.1	University of California, Riverside
244	<i>Verticillium alfalfae</i>	Sordario	Asco	70	86	38	40	234	GCA_002851655.1	Wageningen University & Research
245	<i>Rhynchostyrium rufulum</i>	Dothideo	Asco	63	55	57	59	234	GCA_000467735.1	Assembling the Fungal Tree of Life (AFTOL)
246	<i>Trametes villosa</i>	Agarico	Basidio	66	38	35	94	233	GCA_002964805.1	Universidade Federal de Minas Gerais
247	<i>Phoma sp. XZ068</i>	Dothideo	Asco	59	88	31	55	233	GCA_004835665.1	Institute Of Microbiology
248	<i>Talaromyces purpureogenus</i>	Eurotio	Asco	56	94	50	33	233	GCA_001270325.1	Chinese Academy of Sciences
249	<i>Alternaria atra</i>	Dothideo	Asco	67	66	44	56	233	GCA_004634305.1	Mathomics
250	<i>Cladosporium sp. SL-16</i>	Dothideo	Asco	68	71	42	52	233	GCA_002921095.1	USFDA
251	<i>Cylindrocarpon cylindroides</i>	Sordario	Asco	68	93	34	37	232	GCA_013756995.1	Chinese academy of agricultural sciences
252	<i>Fusarium floridanum</i>	Sordario	Asco	72	76	38	46	232	GCA_003947005.1	US Department of Agriculture, Agriculture Research Service
253	<i>Macrophomina phaseolina</i>	Dothideo	Asco	60	80	26	66	232	GCA_008729105.1	University of California, Riverside
254	<i>Karstenula rhodostoma</i>	Dothideo	Asco	64	72	40	56	232	GCA_010093485.1	USDA
255	<i>Pseudogymnoascus pannorum</i>	Leotio	Asco	63	82	50	37	232	GCA_001630605.1	DOE Joint Genome Institute
256	<i>Lophiostoma macrostomum</i>	Dothideo	Asco	72	59	37	64	232	GCA_010405375.1	Ohio State University
257	<i>Phaeosphaeria sp. A1 3.1a</i>	Dothideo	Asco	73	51	51	57	232	GCA_003501895.1	DOE Joint Genome Institute
258	<i>Auricularia subglabra</i>	Agarico	Basidio	64	38	54	75	231	GCA_000265015.1	Centre for Crop & Disease Management, Curtin University
259	<i>Fusarium acuminatum</i>	Sordario	Asco	66	76	41	48	231	GCA_013363215.1	JGI
										US Department of Agriculture, Agriculture Research Service

260	<i>Fusarium succisae</i>	Sordario	Asco	56	81	49	45	231	GCA_013186925.1	US Department of Agriculture, Agriculture Research Service
261	<i>Phoma herbarum</i>	Dothideo	Asco	65	79	32	55	231	GCA_001599375.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
262	<i>Alternaria consortialis</i>	Dothideo	Asco	66	68	42	55	231	GCA_001950455.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
263	<i>Xylaria sp. MSU_SB201401</i>	Sordario	Asco	66	67	44	54	231	GCA_002288965.1	University of Arkansas
264	<i>Preussia sp. BSL10</i>	Dothideo	Asco	66	74	40	51	231	GCA_001553865.1	Macrogen, Korea
265	<i>Fusarium fractiflexum</i>	Sordario	Asco	61	76	43	50	230	GCA_013758875.1	US Department of Agriculture, Agriculture Research Service
266	<i>Fusarium azukicola</i>	Sordario	Asco	66	80	34	50	230	GCA_001680625.1	Iowa State University
267	<i>Phaeosphaeria sp. H6.2b</i>	Dothideo	Asco	72	51	51	56	230	GCA_003503105.1	Centre for Crop & Disease Management, Curtin University
268	<i>Amylostereum areolatum</i>	Agarico	Basidio	70	40	26	94	230	GCA_012932865.1	Beijing Forestry University
269	<i>Stachybotrys chlorohalonata</i>	Sordario	Asco	79	58	42	51	230	GCA_000732775.1	UT Southwestern
270	<i>Fibularhizoctonia sp. CBS 109695</i>	Agarico	Basidio	70	40	31	88	229	GCA_001630335.1	DOE Joint Genome Institute
271	<i>Lindgomyces ingoldianus</i>	Dothideo	Asco	74	42	44	69	229	GCA_010093535.1	DOE Joint Genome Institute
272	<i>Rachicladosporium antarcticum</i>	Dothideo	Asco	68	32	72	56	228	GCA_002077065.1	University of California, Riverside
273	<i>Helotiales sp. F229</i>	Leotio	Asco	66	64	42	56	228	GCA_002554605.1	CEPLAS/University of Cologne
274	<i>Fusarium tjaetaba</i>	Sordario	Asco	56	79	46	47	228	GCA_013396195.1	US Department of Agriculture, Agriculture Research Service
275	<i>Fusarium kuroshium</i>	Sordario	Asco	70	79	35	44	228	GCA_003698175.1	University of California, Riverside
276	<i>Didymella heteroderae</i>	Dothideo	Asco	63	79	33	53	228	GCA_011058895.1	University of Campinas
277	<i>Ophiobolus disseminans</i>	Dothideo	Asco	67	61	40	60	228	GCA_010093685.1	DOE Joint Genome Institute
278	<i>Fusarium ramigenum</i>	Sordario	Asco	56	79	42	50	227	GCA_013186855.1	US Department of Agriculture, Agriculture Research Service
279	<i>Fusarium sp. Na10</i>	Sordario	Asco	53	80	48	46	227	GCA_002234255.1	University of Amsterdam
280	<i>Fusarium globosum</i>	Sordario	Asco	56	77	45	49	227	GCA_013396165.1	US Department of Agriculture, Agriculture Research Service
281	<i>Lasiodiplodia sp. COLG20</i>	Dothideo	Asco	59	83	26	59	227	GCA_009801085.1	University of Agriculture, Faisalabad Pakistan.
282	<i>Penicillium subrubescens</i>	Eurotio	Asco	56	86	51	33	226	GCA_001908125.1	CBS-KNAW Fungal Biodiversity Centre Institute of the Royal Netherlands Academy of Arts and Science
283	<i>Fusarium proliferatum</i>	Sordario	Asco	58	75	43	50	226	GCA_003290285.1	University of Pisa
284	<i>Bimuria novae-zelandiae</i>	Dothideo	Asco	64	69	39	54	226	GCA_010015655.1	DOE Joint Genome Institute
285	<i>Fusarium fujikuroi</i>	Sordario	Asco	56	78	43	49	226	GCA_900096635.1	Technische Universitat Munchen - WZW
286	<i>Colletotrichum graminicola</i>	Sordario	Asco	62	60	47	57	226	GCA_000149035.1	Broad Institute

287	<i>Fusarium setosum</i>	Sordario	Asco	65	83	38	40	226	GCA_013623625.1	US Department of Agriculture, Agriculture Research Service
288	<i>Didymella segeticola</i>	Dothideo	Asco	58	91	29	48	226	GCA_004522025.1	Guizhou University
289	<i>Fusarium phyllophilum</i>	Sordario	Asco	54	80	44	47	225	GCA_013396025.1	US Department of Agriculture, Agriculture Research Service
290	<i>Fusarium xylarioides</i>	Sordario	Asco	54	83	42	46	225	GCA_013183765.1	University of Pretoria
291	<i>Aspergillus sergii</i>	Eurotio	Asco	53	100	28	44	225	GCA_009193525.1	DOE Joint Genome Institute
292	<i>Lasiodiplodia theobromae</i>	Dothideo	Asco	58	80	28	59	225	GCA_012971845.1	Beltsville Agricultural Research Center
293	<i>Lasiodiplodia pseudotheobromae</i>	Dothideo	Asco	58	82	27	58	225	GCA_009829805.1	University of Pretoria
294	<i>Ganoderma sp. BRIUMSc</i>	Agarico	Basidio	62	31	34	98	225	GCA_008694245.1	Universiti Malaysia Sabah
295	<i>Fusarium denticulatum</i>	Sordario	Asco	56	82	39	47	224	GCA_013396175.1	US Department of Agriculture, Agriculture Research Service
296	<i>Monosporascus sp. MG133</i>	Sordario	Asco	69	60	39	56	224	GCA_004155925.1	University of New Mexico
297	<i>Fusarium sacchari</i>	Sordario	Asco	53	78	46	47	224	GCA_013759005.1	US Department of Agriculture, Agriculture Research Service
298	<i>Fusarium temperatum</i>	Sordario	Asco	55	77	47	45	224	GCA_001513835.1	Forestry and Agricultural Biotechnology Institute (FABI)
299	<i>Fusarium pseudoanthophilum</i>	Sordario	Asco	57	76	44	47	224	GCA_013395995.1	US Department of Agriculture, Agriculture Research Service
300	<i>Pseudocercospora fijiensis</i>	Dothideo	Asco	58	81	26	59	224	GCA_011057605.1	Instituto de Investigacion Lightbourn
301	<i>Aspergillus ustus</i>	Eurotio	Asco	62	78	42	42	224	GCA_000812125.1	Institute of developmentive and regenerative biology
302	<i>Fusarium sp. AF-8</i>	Sordario	Asco	70	78	34	42	224	GCA_003946985.1	University of California, Riverside
303	<i>Monosporascus sp. mg162</i>	Sordario	Asco	65	66	40	53	224	GCA_004155945.1	University of New Mexico Collaboration between Erik Lysøe (Department of Plant Health and Plant Protection, Bioforsk - Norwegian Institute of Agricultural and Environmental Research) and Linda Harris (Eastern Cereal & Oilseed Research Centre, Agriculture & Agri-Food Canada).
304	<i>Fusarium avenaceum</i>	Sordario	Asco	62	74	40	47	223	GCA_000769295.1	US Department of Agriculture, Agriculture Research Service
305	<i>Fusarium mundagurra</i>	Sordario	Asco	58	70	46	49	223	GCA_013396205.1	Moscow State University
306	<i>Pseudogymnoascus sp. VKM F-4517 (FW-2822)</i>	Leotio	Asco	62	76	48	37	223	GCA_000750875.1	Tokyo Institute of Technology
307	<i>Aspergillus sojae</i>	Eurotio	Asco	52	100	28	43	223	GCA_009687765.1	Moscow State University
308	<i>Pseudogymnoascus sp. VKM F-4246</i>	Leotio	Asco	66	79	43	35	223	GCA_000750735.1	University Malaya
309	<i>Neoscytalidium dimidiatum</i>	Dothideo	Asco	61	78	24	59	222	GCA_900092665.1	

310	<i>Fusarium pseudonygamai</i>	Sordario	Asco	57	76	43	45	221	GCA_013186785.1	US Department of Agriculture, Agriculture Research Service
311	<i>Botryosphaeria kuwatsukai</i>	Dothideo	Asco	63	72	26	60	221	GCA_004016305.1	Northwest A&F University
312	<i>Rutstroemia sydowiana</i>	Leotio	Asco	62	69	24	66	221	GCA_000812895.1	USDA-ARS
313	<i>Pseudogymnoascus sp. VKM F-4514 (FW-929)</i>	Leotio	Asco	60	71	51	39	221	GCA_000750795.1	Moscow State University
314	<i>Fusarium bulbicola</i>	Sordario	Asco	54	76	45	45	220	GCA_013758895.1	US Department of Agriculture, Agriculture Research Service
315	<i>Fusarium concolor</i>	Sordario	Asco	54	71	47	48	220	GCA_013184415.1	US Department of Agriculture, Agriculture Research Service
316	<i>Polyposphaeria fusca</i>	Dothideo	Asco	65	48	44	63	220	GCA_010093805.1	DOE Joint Genome Institute
317	<i>Rutstroemia sp. NJR-2017a BVV2</i>	Leotio	Asco	56	73	39	52	220	GCA_002946415.1	Brigham Young University
318	<i>Didymella pinodes</i>	Dothideo	Asco	55	85	32	48	220	GCA_004151525.1	Curtin University
319	<i>Pseudogymnoascus sp. VKM F-3808</i>	Leotio	Asco	63	72	50	35	220	GCA_000750675.1	Moscow State University
320	<i>Amniculicola lignicola</i>	Dothideo	Asco	64	53	42	61	220	GCA_010015725.1	DOE Joint Genome Institute
321	<i>Monosporascus sp. 5C6A</i>	Sordario	Asco	68	56	37	58	219	GCA_004155035.1	University of New Mexico
322	<i>Fusarium coicis</i>	Sordario	Asco	54	74	45	46	219	GCA_013781345.1	US Department of Agriculture, Agriculture Research Service
323	<i>Fusarium sp. NRRL 47473</i>	Sordario	Asco	51	76	50	42	219	GCA_013759115.1	US Department of Agriculture, Agriculture Research Service
324	<i>Colletotrichum falcatum</i>	Sordario	Asco	59	57	46	57	219	GCA_001484525.1	ICAR-Sugarcane Breeding Institute
325	<i>Pyrenochaeta sp. UM 256</i>	Dothideo	Asco	62	64	40	53	219	GCA_000359685.2	UNIVERSITY OF MALAYA
326	<i>Pseudogymnoascus sp. 05NY08</i>	Leotio	Asco	60	85	44	30	219	GCA_001662605.1	US Forest Service
327	<i>Verticillium dahliae</i>	Sordario	Asco	62	80	39	38	219	GCA_004798895.1	Wageningen University and Research
328	<i>Monosporascus sp. CRB-9-2</i>	Sordario	Asco	63	64	39	52	218	GCA_004155915.1	University of New Mexico
329	<i>Fusarium hostae</i>	Sordario	Asco	62	73	37	46	218	GCA_002234235.1	University of Amsterdam
330	<i>Fusarium brevicatenuatum</i>	Sordario	Asco	57	71	44	46	218	GCA_013363135.1	US Department of Agriculture, Agriculture Research Service
331	<i>Didymella lethalis</i>	Dothideo	Asco	54	88	30	46	218	GCA_004335245.1	Curtin University
332	<i>Ascochyta lentis</i>	Dothideo	Asco	56	84	26	52	218	GCA_004011705.1	Curtin University
333	<i>Pseudogymnoascus sp. VKM F-4516 (FW-969)</i>	Leotio	Asco	61	70	48	39	218	GCA_000750815.1	Moscow State University
334	<i>Ascochyta viciae</i>	Dothideo	Asco	56	83	28	51	218	GCA_004335155.1	Curtin University
335	<i>Ascochyta fabae</i>	Dothideo	Asco	57	82	28	51	218	GCA_004335285.1	Curtin University
336	<i>Aspergillus sp. ATCC 12892</i>	Eurotio	Asco	51	95	29	42	217	GCA_002894705.1	Pacific Northwest National Lab
337	<i>Hyaloscypha bicolor</i>	Leotio	Asco	52	64	40	61	217	GCA_002865645.1	DOE Joint Genome Institute
338	<i>Lasiodiplodia gonubiensis</i>	Dothideo	Asco	55	81	27	54	217	GCA_009829795.1	University of Pretoria
339	<i>Fusarium dlamini</i>	Sordario	Asco	54	72	46	45	217	GCA_013186775.1	US Department of Agriculture, Agriculture Research Service
340	<i>Neonectria galligena</i>	Sordario	Asco	59	90	34	34	217	GCA_013759035.1	US Department of Agriculture, Agriculture Research Service
341	<i>Xylaria grammica</i>	Sordario	Asco	66	56	43	52	217	GCA_004353285.1	National Institute of Biological Resources
342	<i>Phoma sp. RAV-16-625</i>	Dothideo	Asco	57	85	30	45	217	GCA_004335185.1	Curtin University

343	<i>Pseudogymnoascus sp. VKM F-3557</i>	Leotio	Asco	60	67	50	40	217	GCA_000750665.1	Moscow State University
344	<i>Aspergillus novoparasiticus</i>	Eurotio	Asco	55	84	30	47	216	GCA_009176405.1	DOE Joint Genome Institute
345	<i>Fusarium verticillioides</i>	Sordario	Asco	54	71	45	46	216	GCA_003317015.2	CSIRO
346	<i>Setomelanomma holmii</i>	Dothideo	Asco	58	66	36	56	216	GCA_010015745.1	DOE Joint Genome Institute
347	<i>Ascochyta viciae-villosae</i>	Dothideo	Asco	56	83	26	51	216	GCA_004335205.1	Curtin University
348	<i>Hymenoscyphus repandus</i>	Leotio	Asco	66	60	34	56	216	GCA_001414415.1	University of Exeter
349	<i>Fusarium sp. QHM</i>	Sordario	Asco	54	69	46	46	215	GCA_013416755.1	Liaoning Technical University
350	<i>Fusarium sp. BWC</i>	Sordario	Asco	54	69	46	46	215	GCA_013416785.1	Liaoning Technical University
351	<i>Aspergillus pseudocaelatus</i>	Eurotio	Asco	57	87	31	40	215	GCA_009193665.1	DOE Joint Genome Institute
352	<i>Aspergillus amoenus</i>	Eurotio	Asco	57	79	37	42	215	GCA_009812435.1	Universidad de Antioquia
353	<i>Aspergillus versicolor</i>	Eurotio	Asco	54	85	40	36	215	GCA_001890125.1	DOE Joint Genome Institute
354	<i>Pseudogymnoascus sp. VKM F-4515 (FW-2607)</i>	Leotio	Asco	60	75	45	35	215	GCA_000750805.1	Moscow State University
355	<i>Didymella keratinophila</i>	Dothideo	Asco	58	76	32	49	215	GCA_011058865.1	University of Campinas
356	<i>fungal sp. EF0021</i>	0	0	63	58	38	56	215	GCA_000292665.1	Fraunhofer
357	<i>Hymenoscyphus scutula</i>	Leotio	Asco	62	61	38	54	215	GCA_001399465.1	University of Exeter
358	<i>Fusarium securum</i>	Sordario	Asco	48	81	40	45	214	GCA_013363185.1	US Department of Agriculture, Agriculture Research Service
359	<i>Fusarium brasiliense</i>	Sordario	Asco	59	78	34	43	214	GCA_001680685.1	Iowa State University
360	<i>Fusarium napiforme</i>	Sordario	Asco	55	72	42	45	214	GCA_013396005.1	US Department of Agriculture, Agriculture Research Service
361	<i>Monosporascus sp. CRB-8-3</i>	Sordario	Asco	65	62	36	51	214	GCA_004155055.1	University of New Mexico
362	<i>Stemphylium vesicarium</i>	Dothideo	Asco	61	62	36	55	214	GCA_004380135.1	University of Bologna
363	<i>Chaetomium cochliodes</i>	Sordario	Asco	67	42	59	46	214	GCA_001752565.1	BOKU University
364	<i>Xylaria flabelliformis</i>	Sordario	Asco	61	60	40	53	214	GCA_007182795.1	Vanderbilt University
365	<i>Alternaria solani</i>	Dothideo	Asco	60	62	38	54	214	GCA_002837235.1	Institute Of Microbiology Chinese Academy of Sciences
366	<i>Madurella mycetomatis</i>	Sordario	Asco	69	32	61	52	214	GCA_001275765.2	ErasmusMC
367	<i>Lomentospora prolificans</i>	Sordario	Asco	74	39	52	49	214	GCA_002276285.1	Johns Hopkins University
368	<i>Fusarium musae</i>	Sordario	Asco	53	70	45	45	213	GCA_013623345.1	US Department of Agriculture, Agriculture Research Service
369	<i>Aspergillus caelatus</i>	Eurotio	Asco	57	85	31	40	213	GCA_009193585.1	DOE Joint Genome Institute
370	<i>Pseudogymnoascus sp. WSF 3629</i>	Leotio	Asco	64	79	36	34	213	GCA_001662585.1	US Forest Service
371	<i>Massarina eburnea</i>	Dothideo	Asco	57	65	42	49	213	GCA_010093635.1	DOE Joint Genome Institute
372	<i>Calonectria henricotiae</i>	Sordario	Asco	54	76	38	44	212	GCA_004380885.1	USDA-ARS
373	<i>Fusarium algeriense</i>	Sordario	Asco	54	67	41	50	212	GCA_002982035.1	US Department of Agriculture, Agriculture Research Service
374	<i>Fusarium bactridioides</i>	Sordario	Asco	53	71	44	44	212	GCA_013623355.1	US Department of Agriculture, Agriculture Research Service
375	<i>Monosporascus ibericus</i>	Sordario	Asco	62	60	38	52	212	GCA_004154915.1	University of New Mexico
376	<i>Aspergillus sp. MA 6037</i>	Eurotio	Asco	54	83	35	40	212	GCA_003138035.1	University of Natural Resources and Life Sciences, Vienna
377	<i>Sclerotiophoma versabilis</i>	Dothideo	Asco	54	80	30	48	212	GCA_012274445.1	Fujian Agriculture and Forestry University

378	<i>Rutstroemia sp. NJR-2017a WRK4</i>	Leotio	Asco	56	66	36	54	212	GCA_002946385.1	Brigham Young University
379	<i>Glarea lozoyensis</i>	Leotio	Asco	67	49	45	51	212	GCA_000409485.1	Institute Of Microbiology, Chinese Academy of Sciences
380	<i>Fusarium beomiforme</i>	Sordario	Asco	54	64	41	52	211	GCA_002980475.2	US Department of Agriculture, Agriculture Research Service
381	<i>Neonothopanus nambi</i>	Agarico	Basidio	58	18	33	102	211	GCA_003987895.1	Universidade de Sao Paulo
382	<i>Epicoccum sorghinum</i>	Dothideo	Asco	59	64	36	52	211	GCA_001879705.1	University of Sao Paulo
383	<i>Fusarium solani</i>	Sordario	Asco	58	80	31	42	211	GCA_002215905.1	National Institute of Biological Resources
384	<i>Hymenoscyphus infarciens</i>	Leotio	Asco	60	65	36	50	211	GCA_001414345.1	University of Exeter
385	<i>Aspergillus sydowii</i>	Eurotio	Asco	52	78	36	44	210	GCA_009193685.1	Hamburg University
386	<i>Neonectria ditissima</i>	Sordario	Asco	58	84	34	34	210	GCA_001305495.1	The New Zealand Institute for Plant & Food Research Ltd
387	<i>Xylaria longipes</i>	Sordario	Asco	65	52	38	55	210	GCA_003426265.1	IHI Zittau / TU Dresden
388	<i>Curvularia kusanoi</i>	Dothideo	Asco	58	64	36	52	210	GCA_011058905.1	University of Campinas
389	<i>Pseudogymnoascus sp. VKM F-4513 (FW-928)</i>	Leotio	Asco	58	72	46	34	210	GCA_000750755.1	Moscow State University
390	<i>Sphaerobolus stellatus</i>	Agarico	Basidio	59	18	46	87	210	GCA_000827215.1	DOE Joint Genome Institute
391	<i>Zasmidium citrigriseum</i>	Dothideo	Asco	52	62	34	61	209	GCA_002786025.1	Northwest A&F University
392	<i>Aspergillus pseudotamarii</i>	Eurotio	Asco	55	88	28	38	209	GCA_009193445.1	DOE Joint Genome Institute
393	<i>Fusarium sp. NRRL 29148</i>	Sordario	Asco	54	68	41	46	209	GCA_013759095.1	US Department of Agriculture, Agriculture Research Service
394	<i>Aspergillus transmontanensis</i>	Eurotio	Asco	52	86	28	43	209	GCA_009193505.1	DOE Joint Genome Institute
395	<i>Hypomontagnella monticulosa</i>	Sordario	Asco	68	42	45	54	209	GCA_902825475.1	CEBITEC
396	<i>Xylaria sp. BCC 1067</i>	Sordario	Asco	64	54	40	51	209	GCA_005188305.1	King Mongkut's University of Technology Thonburi
397	<i>Rachicladosporium sp. CCFEE 5018</i>	Dothideo	Asco	64	32	64	48	208	GCA_002077045.2	University of California, Riverside
398	<i>Fusarium burgessii</i>	Sordario	Asco	51	61	40	56	208	GCA_002980515.1	US Department of Agriculture, Agriculture Research Service
399	<i>Talaromyces adpressus</i>	Eurotio	Asco	51	72	49	36	208	GCA_002775195.1	University of Naples "Federico II"
400	<i>Fusarium tricinctum</i>	Sordario	Asco	54	68	41	45	208	GCA_900382705.2	INRA (Nouvelle-Aquitaine- Bordeaux)
401	<i>Aspergillus arachidicola</i>	Eurotio	Asco	52	84	28	44	208	GCA_009193545.1	DOE Joint Genome Institute
402	<i>Aspergillus parasiticus</i>	Eurotio	Asco	51	86	28	43	208	GCA_013146005.1	USDA
403	<i>Fusarium sp. JS626</i>	Sordario	Asco	54	72	40	42	208	GCA_000966865.1	Seoul National University
404	<i>Fusarium circinatum</i>	Sordario	Asco	54	71	38	45	208	GCA_000497325.3	Pitch canker sequencing project
405	<i>Xylaria polymorpha</i>	Sordario	Asco	60	56	42	50	208	GCA_003426235.1	IHI Zittau / TU Dresden
406	<i>Fusarium sambucinum</i>	Sordario	Asco	54	76	36	42	208	GCA_001567575.1	Central Potato Research Institute
407	<i>Didymobotryum rigidum</i>	Sordario	Asco	64	49	38	57	208	GCA_001600575.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
408	<i>Xylaria multiplex</i>	Sordario	Asco	63	54	42	49	208	GCA_011057905.1	TU Dresden - IHI Zittau

409	<i>Aspergillus sp. Z5</i>	Eurotio	Asco	52	76	35	44	207	GCA_001044295.1	Zhejiang University
410	<i>Fusarium citri</i>	Sordario	Asco	54	73	42	38	207	GCA_004367485.1	US Department of Agriculture, Agriculture Research Service
411	<i>Fusarium sp. AF-6</i>	Sordario	Asco	62	72	31	42	207	GCA_003947015.1	University of California, Riverside
412	<i>Rosellinia necatrix</i>	Sordario	Asco	60	60	44	43	207	GCA_001445595.3	NARO Institute of Fruit Tree Science
413	<i>Chrysosporthe deuterocubensis</i>	Sordario	Asco	56	70	32	49	207	GCA_001513825.1	Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
414	<i>Scedosporium apiospermum</i>	Sordario	Asco	73	22	56	56	207	GCA_000732125.1	LUNAM - Angers University
415	<i>Arachnopeziza araneosa</i>	Leotio	Asco	66	40	49	51	206	GCA_003988855.1	Manaaki Whenua Landcare Research
416	<i>Aspergillus steynii</i>	Eurotio	Asco	58	84	32	32	206	GCA_002849105.1	DOE Joint Genome Institute
417	<i>Psilocybe cf. subviscida</i>	Agarico	Basidio	58	33	51	64	206	GCA_013368295.1	Lund University
418	<i>Panaeolus cyanescens</i>	Agarico	Basidio	56	34	50	66	206	GCA_002938355.1	Ohio State University
419	<i>Monosporascus sp. GIB2</i>	Sordario	Asco	60	56	40	49	205	GCA_004155935.1	University of New Mexico
420	<i>Aspergillus minisclerotigenes</i>	Eurotio	Asco	48	90	28	39	205	GCA_009176455.1	DOE Joint Genome Institute
421	<i>Fusarium agapanthi</i>	Sordario	Asco	51	72	39	43	205	GCA_001654545.1	US Department of Agriculture, Agriculture Research Service
422	<i>Hymenoscyphus laetus</i>	Leotio	Asco	66	42	44	53	205	GCA_001414375.1	University of Exeter
423	<i>Diplocarpon rosae</i>	Leotio	Asco	48	82	20	54	204	GCA_002317995.1	Leibniz Universitaet Hannover
424	<i>Aspergillus oryzae</i>	Eurotio	Asco	50	88	32	34	204	GCA_002007945.1	Bioprocess Technology Laboratory, BIOTEC, Thailand
425	<i>Parastagonospora nodorum</i>	Dothideo	Asco	65	43	45	51	204	GCA_002267045.1	North Dakota State University
426	<i>Chrysosporthe austroafricana</i>	Sordario	Asco	55	70	32	47	204	GCA_001051155.1	Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
427	<i>Talaromyces verruculosus</i>	Eurotio	Asco	48	67	48	40	203	GCA_001305275.1	Penicillium verruculosum
428	<i>Aspergillus tamarii</i>	Eurotio	Asco	56	86	26	35	203	GCA_009193485.1	DOE Joint Genome Institute
429	<i>Fusarium sp. NRRL 52700</i>	Sordario	Asco	50	65	44	44	203	GCA_013396095.1	US Department of Agriculture, Agriculture Research Service
430	<i>Fusarium thapsinum</i>	Sordario	Asco	51	67	40	45	203	GCA_013186935.1	US Department of Agriculture, Agriculture Research Service
431	<i>Bipolaris maydis</i>	Dothideo	Asco	65	48	35	55	203	GCA_000338975.1	JGI
432	<i>Coniothyrium glycines</i>	Dothideo	Asco	56	64	36	47	203	GCA_004523985.2	Oklahoma State University
433	<i>Sarocladium strictum</i>	Sordario	Asco	67	42	54	40	203	GCA_900290465.1	CEBITEC
434	<i>Helminthosporium solani</i>	Dothideo	Asco	58	58	39	48	203	GCA_000498615.1	University of Wisconsin- Madison
435	<i>Proliferodiscus dingleyae</i>	Leotio	Asco	53	58	46	46	203	GCA_003988795.1	Manaaki Whenua Landcare Research
436	<i>Pseudogymnoascus sp. BL549</i>	Leotio	Asco	58	75	41	29	203	GCA_001630585.1	Ohio State University
437	<i>Scytalidium sp. 3C</i>	Leotio	Asco	46	62	46	48	202	GCA_000743665.3	Saint-Petersburg State University

438	<i>Talaromyces cellulolyticus</i>	Eurotio	Asco	48	67	45	42	202	GCA_009805475.1	JNU
439	<i>Pseudohalonestria lignicola</i>	Sordario	Asco	60	47	46	49	202	GCA_003049395.1	Agricultural Research Service, United States Department of Agriculture
440	<i>Penicillium sp. MT2 MMC-2018</i>	Eurotio	Asco	51	77	46	28	202	GCA_003852855.1	Florida A&M University
441	<i>Fusarium scirpi</i>	Sordario	Asco	51	71	40	40	202	GCA_004367495.1	US Department of Agriculture, Agriculture Research Service
442	<i>Plenodomus tracheiphilus</i>	Dothideo	Asco	56	64	31	51	202	GCA_010093695.1	DOE Joint Genome Institute
443	<i>Rutstroemia sp. NJR-2017a BBW</i>	Leotio	Asco	53	65	33	51	202	GCA_002946425.1	Brigham Young University
444	<i>Ascochyta koolunga</i>	Dothideo	Asco	52	79	27	44	202	GCA_004151165.1	Curtin University
445	<i>Coniochaeta ligniaria</i>	Sordario	Asco	61	46	50	44	201	GCA_001879275.1	DOE Joint Genome Institute
446	<i>Fusarium venenatum</i>	Sordario	Asco	54	71	36	40	201	GCA_900007375.1	ROTHAMSTED RESEARCH
447	<i>Aspergillus hancockii</i>	Eurotio	Asco	54	78	29	40	201	GCA_001696595.1	CSIRO
448	<i>Ganoderma multipileum</i>	Agarico	Basidio	54	40	33	74	201	GCA_000338015.1	Ganoderma lucidum Research Consortium
449	<i>Cladosporium cladosporioides</i>	Dothideo	Asco	55	57	40	49	201	GCA_002901145.1	Yeungnam University
450	<i>Hymenoscyphus fraxineus</i>	Leotio	Asco	59	54	32	56	201	GCA_001414365.1	University of Exeter
451	<i>Chaetomium globosum</i>	Sordario	Asco	62	43	54	42	201	GCA_000143365.1	The Genome Sequencing Platform, The Genome Assembly Team
452	<i>Penicillium sp. 'occitanis'</i>	Eurotio	Asco	48	67	45	40	200	GCA_002382835.1	Center for Genomic Regulation (CRG)
453	<i>Talaromyces pinophilus</i>	Eurotio	Asco	50	66	46	38	200	GCA_011392495.1	Embrapa Agroenergia
454	<i>Fusarium tanahbumbuense</i>	Sordario	Asco	52	65	43	40	200	GCA_012977735.1	US Department of Agriculture, Agriculture Research Service
455	<i>Macroventuria anomochaeta</i>	Dothideo	Asco	48	82	27	43	200	GCA_010093625.1	DOE Joint Genome Institute
456	<i>Aspergillus westerdijkiae</i>	Eurotio	Asco	52	84	30	34	200	GCA_001307345.1	Nanyang Technological University
457	<i>Fusarium nisikadoi</i>	Sordario	Asco	50	63	41	45	199	GCA_013623555.1	US Department of Agriculture, Agriculture Research Service
458	<i>Fusarium austroafricanum</i>	Sordario	Asco	52	61	45	41	199	GCA_012932025.1	US Department of Agriculture, Agriculture Research Service
459	<i>Fusarium humuli</i>	Sordario	Asco	50	66	43	40	199	GCA_004366955.1	US Department of Agriculture, Agriculture Research Service
460	<i>Fusarium albidum</i>	Sordario	Asco	53	77	32	37	199	GCA_013618265.1	US Department of Agriculture, Agriculture Research Service
461	<i>Neonectria punicea</i>	Sordario	Asco	54	78	32	35	199	GCA_003385315.1	USDA-ARS
462	<i>fungal sp. No.14919</i>	0	0	59	50	40	50	199	GCA_002003505.1	Tsukuba Biotechnology Research Center, Astellas Pharma Inc.
463	<i>Curvularia geniculata</i>	Dothideo	Asco	62	52	36	49	199	GCA_002982235.1	Universidade Federal de Mato Grosso
464	<i>Curvularia lunata</i>	Dothideo	Asco	62	52	36	49	199	GCA_005212705.1	Universidade Federal de Mato Grosso

465	<i>Hymenoscyphus occultus</i>	Leotio	Asco	58	56	32	53	199	GCA_900536445.1	UNIVERSITY OF COPENHAGEN, DEPARTMENT OF GEOSCIENCES AND NATURAL RESOURCE MANAGEMENT
466	<i>Hymenoscyphus koreanus</i>	Leotio	Asco	58	56	32	53	199	GCA_902652825.1	UNIVERSITY OF COPENHAGEN, DEPARTMENT OF GEOSCIENCES AND NATURAL RESOURCE MANAGEMENT
467	<i>Fusarium flagelliforme</i>	Sordario	Asco	52	68	38	40	198	GCA_004367175.1	US Department of Agriculture, Agriculture Research Service Jet Propulsion Laboratory, California Institute of Technology USDA-ARS
468	<i>Aspergillus aff. floccosus IMV 01167</i>	Eurotio	Asco	51	70	39	38	198	GCA_001931935.1	US Department of Agriculture, Agriculture Research Service Royal Botanic Gardens, Kew USDA-ARS
469	<i>Chrysosporthe cubensis</i>	Sordario	Asco	54	64	30	50	198	GCA_004802525.1	US Department of Agriculture, Agriculture Research Service Royal Botanic Gardens, Kew USDA-ARS
470	<i>Neonectria coccinea</i>	Sordario	Asco	53	78	32	35	198	GCA_013757005.1	US Department of Agriculture, Agriculture Research Service Royal Botanic Gardens, Kew USDA-ARS
471	<i>Baeospora myosura</i>	Agarico	Basidio	58	38	23	79	198	GCA_001179705.1	Biotechnology and Nuclear Technology Research Institute
472	<i>Limonomyces culmigenus</i>	Agarico	Basidio	58	42	45	52	197	GCA_002233555.1	US Department of Agriculture, Agriculture Research Service The Energy and Resources Institute
473	<i>Ganoderma tsugae</i>	Agarico	Basidio	52	30	35	80	197	GCA_003057275.1	Centro de Investigaciones en Fitopatologias (CIDEFI)
474	<i>Fusarium babinda</i>	Sordario	Asco	52	63	38	44	197	GCA_012977765.1	DOE Joint Genome Institute Beltsville Agricultural Research Center
475	<i>Aspergillus flavus</i>	Eurotio	Asco	47	86	31	33	197	GCA_004150275.1	UES / AFRL
476	<i>Stemphylium lycopersici</i>	Dothideo	Asco	52	61	36	48	197	GCA_003268315.1	US Department of Agriculture, Agriculture Research Service Gansu Academy of Agricultural Sciences
477	<i>Pleomassaria siparia</i>	Dothideo	Asco	56	60	34	47	197	GCA_010093715.1	The Institute of Medicinal Plant Development, China
478	<i>Ceratobasidium theobromae</i>	Agarico	Basidio	54	72	18	53	197	GCA_009078325.1	Iowa State University IHI Zittau / TU Dresden
479	<i>Phialemoniopsis curvata</i>	Sordario	Asco	64	48	36	48	196	GCA_004353045.1	US Department of Agriculture, Agriculture Research Service
480	<i>Fusarium sp. NRRL 53497</i>	Sordario	Asco	51	64	37	44	196	GCA_013184445.1	US Department of Agriculture, Agriculture Research Service
481	<i>Fusarium equiseti</i>	Sordario	Asco	50	65	41	40	196	GCA_003313175.1	US Department of Agriculture, Agriculture Research Service
482	<i>Ganoderma sinense</i>	Agarico	Basidio	52	34	34	76	196	GCA_002760635.1	UNIVERSITY OF MALAYA
483	<i>Fusarium cuneirostrum</i>	Sordario	Asco	54	70	37	35	196	GCA_001680505.1	
484	<i>Kretzschmaria deusta</i>	Sordario	Asco	56	56	38	46	196	GCA_002081935.3	
485	<i>Fusarium incarnatum</i>	Sordario	Asco	53	65	40	38	196	GCA_004367075.1	
486	<i>Fusarium caatingaense</i>	Sordario	Asco	52	66	40	38	196	GCA_013624355.1	
487	<i>Curvularia papendorffii</i>	Dothideo	Asco	61	51	35	49	196	GCA_000817285.1	

488	<i>Hymenoscyphus linearis</i>	Leotio	Asco	56	60	31	49	196	GCA_900536425.1	UNIVERSITY OF COPENHAGEN, DEPARTMENT OF GEOSCIENCES AND NATURAL RESOURCE MANAGEMENT
489	<i>Bipolaris oryzae</i>	Dothideo	Asco	60	52	34	50	196	GCA_000523455.1	JGI
490	<i>Cryphonectria radicalis</i>	Sordario	Asco	50	71	34	41	196	GCA_003054855.1	USDA-ARS
491	<i>Tinctoporellus epimiltinus</i>	Agarico	Basidio	55	36	34	71	196	GCA_900155495.1	BIOTECHNOLOGY RESEARCH INSTITUTE
492	<i>Cucurbitaria berberidis</i>	Dothideo	Asco	57	61	36	42	196	GCA_010015615.1	DOE Joint Genome Institute
493	<i>Talaromyces amestolkiae</i>	Eurotio	Asco	44	73	43	35	195	GCA_001896365.1	Centro de Investigaciones Biologicas
494	<i>Fusarium gaditjirri</i>	Sordario	Asco	51	60	40	44	195	GCA_013266175.1	US Department of Agriculture, Agriculture Research Service
495	<i>Fusarium tucumaniae</i>	Sordario	Asco	55	68	36	36	195	GCA_001680535.1	Iowa State University
496	<i>Neonectria hederiae</i>	Sordario	Asco	54	77	30	34	195	GCA_003385265.1	USDA-ARS
497	<i>Cladosporium phlei</i>	Dothideo	Asco	60	54	35	46	195	GCA_003614995.1	National Institute of Agricultural Science
498	<i>Scedosporium boydii</i>	Sordario	Asco	66	25	49	55	195	GCA_002221725.1	GEIHP, UPRES EA 3142
499	<i>Epicoccum nigrum</i>	Dothideo	Asco	53	61	33	47	194	GCA_002116315.1	The University of Auckland
500	<i>Bipolaris victoriae</i>	Dothideo	Asco	60	49	36	49	194	GCA_000527765.1	JGI
501	<i>Shiraia sp. slf14</i>	Dothideo	Asco	59	49	40	46	194	GCA_000498155.1	Jiangxi Normal University
502	<i>Amphirosellinia nigrospora</i>	Sordario	Asco	56	55	36	47	194	GCA_004123355.1	National Institute of Biological Resources
503	<i>Bipolaris zeicola</i>	Dothideo	Asco	60	50	36	48	194	GCA_000523435.1	JGI
504	<i>Glonium stellatum</i>	Dothideo	Asco	55	43	35	61	194	GCA_001692915.1	1000 Fungal Genome Project
505	<i>Pseudogymnoascus sp. 03VT05</i>	Leotio	Asco	53	72	40	28	193	GCA_001662645.1	US Forest Service
506	<i>Hypoxyton pulvicidum</i>	Sordario	Asco	61	42	40	50	193	GCA_902806525.1	CEBITEC
507	<i>Parastagonospora avenae</i>	Dothideo	Asco	62	41	43	47	193	GCA_003503115.1	Centre for Crop & Disease Management, Curtin University
508	<i>Tulasnella calospora</i>	Agarico	Basidio	68	46	44	35	193	GCA_000827465.1	DOE Joint Genome Institute
509	<i>Auricularia auricula-judae</i>	Agarico	Basidio	52	35	44	61	192	GCA_002092955.1	Jilin Agricultural University
510	<i>Fusarium torulosum</i>	Sordario	Asco	49	62	40	41	192	GCA_013623875.1	US Department of Agriculture, Agriculture Research Service
511	<i>Magnaporthe sp. MG03</i>	Sordario	Asco	64	37	40	51	192	GCA_001936055.1	Centre for Cellular and Molecular Platforms
512	<i>Pseudogymnoascus sp. 23342-1-11</i>	Leotio	Asco	60	66	34	32	192	GCA_001662575.1	US Forest Service
513	<i>Fusarium coffeatum</i>	Sordario	Asco	49	63	43	37	192	GCA_003316985.1	CSIRO
514	<i>Cryphonectria macrospora</i>	Sordario	Asco	48	70	33	41	192	GCA_004802535.1	USDA-ARS
515	<i>Cryphonectria nitschkei</i>	Sordario	Asco	48	70	33	41	192	GCA_006503525.1	USDA
516	<i>Hypomontagnella submonticulosa</i>	Sordario	Asco	63	41	40	48	192	GCA_902806495.1	CEBITEC
517	<i>Clarireedia sp. CPB17</i>	Leotio	Asco	54	57	32	49	192	GCA_002242865.1	Rutgers University
518	<i>Piromyces finnis</i>	Neocallimastigo	Chytridio	91	30	71	0	192	GCA_002104945.1	DOE Joint Genome Institute
519	<i>Auricularia heimuer</i>	Agarico	Basidio	53	37	41	60	191	GCA_002287115.1	Beijing Forestry University
520	<i>Zasmidium cellare</i>	Dothideo	Asco	49	50	31	61	191	GCA_010093935.1	DOE Joint Genome Institute

521	<i>Falciphora oryzae</i>	Sordario	Asco	67	36	36	52	191	GCA_000733355.1	Institute of Biotechnology
522	<i>Ascochyta rabiei</i>	Dothideo	Asco	47	78	26	40	191	GCA_004011695.1	Curtin University
523	<i>Diplodia seriata</i>	Dothideo	Asco	52	66	24	49	191	GCA_001975905.1	INRA
524	<i>Fusarium irregulare</i>	Sordario	Asco	50	63	40	38	191	GCA_004367085.1	US Department of Agriculture, Agriculture Research Service
525	<i>Bipolaris sorokiniana</i>	Dothideo	Asco	59	51	36	45	191	GCA_004329375.1	ICAR-Indian Agricultural Research Institute
526	<i>Cryphonectria parasitica</i>	Sordario	Asco	47	68	34	42	191	GCA_011745365.1	DOE Joint Genome Institute
527	<i>Xylaria sp. JS573</i>	Sordario	Asco	57	50	34	50	191	GCA_000966885.1	Seoul National University
528	<i>Xylaria hypoxylon</i>	Sordario	Asco	58	47	39	47	191	GCA_902806585.1	CEBITEC
529	<i>Golovinomyces magnicellulatus</i>	Leotio	Asco	38	70	38	44	190	GCA_006912115.1	The Ohio State University
530	<i>Morchella eximia</i>	Pezizo	Asco	51	80	26	33	190	GCA_003314645.1	Kunming University of Science and Technology
531	<i>Paraphaeosphaeria minitans</i>	Dothideo	Asco	57	50	35	48	190	GCA_009707825.1	State Key Laboratory of Agriculture Microbiology
532	<i>Aspergillus bombycis</i>	Eurotio	Asco	52	74	26	38	190	GCA_001792695.1	USDA-ARS-SRRC
533	<i>Aspergillus nomiae</i>	Eurotio	Asco	52	72	28	38	190	GCA_001204775.2	USDA-ARS-SRRC
534	<i>Fusarium sporotrichioides</i>	Sordario	Asco	49	65	37	39	190	GCA_003012315.1	Robert Proctor's shared submissions
535	<i>Fusarium armeniacum</i>	Sordario	Asco	50	60	39	41	190	GCA_013618295.1	US Department of Agriculture, Agriculture Research Service
536	<i>Fusarium camptoceras</i>	Sordario	Asco	50	65	38	37	190	GCA_004367475.1	US Department of Agriculture, Agriculture Research Service
537	<i>Fusarium cerealis</i>	Sordario	Asco	50	57	40	43	190	GCA_012600195.1	University of Minnesota
538	<i>Ophioceras dolichostomum</i>	Sordario	Asco	61	36	42	51	190	GCA_003049485.1	Agricultural Research Service, United States Department of Agriculture
539	<i>Aspergillus ochraceus</i>	Eurotio	Asco	50	81	27	32	190	GCA_005784425.1	Shanghai Institute of Technology
540	<i>Hypoxylon sp. E7406B</i>	Sordario	Asco	60	41	39	50	190	GCA_000931505.1	Yale University
541	<i>Fusarium clavum</i>	Sordario	Asco	50	66	36	37	189	GCA_004367155.1	US Department of Agriculture, Agriculture Research Service
542	<i>Phialocephala sp. D728</i>	Leotio	Asco	48	43	40	58	189	GCA_003988865.1	Manaaki Whenua Landcare Research
543	<i>Annulohypoxylon stygium</i>	Sordario	Asco	58	43	38	50	189	GCA_003314315.1	Kunming University of Science and Technology
544	<i>Hypoxylon sp. CO27-5</i>	Sordario	Asco	59	40	41	49	189	GCA_002120305.1	DOE Joint Genome Institute Laboratory for Conservation and Utilization of Bio-Resources
545	<i>Dactylellina cionopaga</i>	Orbilio	Asco	49	73	35	32	189	GCA_012184355.1	and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
546	<i>Calonectria pseudonaviculata</i>	Sordario	Asco	49	69	34	36	188	GCA_001696505.1	USDA-ARS

547	<i>Magnaporthe sp. MG07</i>	Sordario	Asco	61	37	42	48	188	GCA_001936455.1	Centre for Cellular and Molecular Platforms
548	<i>Fusarium sp. NRRL 6227</i>	Sordario	Asco	49	60	39	40	188	GCA_013623825.1	US Department of Agriculture, Agriculture Research Service
549	<i>Fusarium luffae</i>	Sordario	Asco	48	64	38	38	188	GCA_013184325.1	US Department of Agriculture, Agriculture Research Service
550	<i>Claviceps homoeocarpa</i>	Leotio	Asco	48	67	30	43	188	GCA_001465935.1	UMass Amherst
551	<i>Alternaria brassicae</i>	Dothideo	Asco	53	56	35	44	188	GCA_004936725.1	University of Delhi South Campus
552	<i>Fusarium hainanense</i>	Sordario	Asco	50	60	40	38	188	GCA_013618405.1	US Department of Agriculture, Agriculture Research Service
553	<i>Claviceps sp. SE16F4</i>	Leotio	Asco	50	63	31	44	188	GCA_002242985.1	Rutgers University
554	<i>Peniophora sp. CBMAI 1063</i>	Agarico	Basidio	45	45	24	73	187	GCA_900536885.1	LABORATORIO NACIONAL DE CIENCIA E TECNOLOGIA DO BI
555	<i>Hysterium pulicare</i>	Dothideo	Asco	55	40	36	56	187	GCA_000467715.1	Assembling the Fungal Tree of Life (AFTOL)
556	<i>Hypoxylon sp. EC38</i>	Sordario	Asco	58	40	40	49	187	GCA_002120335.1	DOE Joint Genome Institute
557	<i>Pleurotus salmoneostramineus</i>	Agarico	Basidio	56	33	28	70	187	GCA_002933715.1	Applied Bioscience, Kindai University, Faculty of Agriculture
558	<i>Coniochaeta prunicola</i>	Sordario	Asco	54	50	46	36	186	GCA_007388105.1	University of Arizona
559	<i>Aspergillus pseudonomius</i>	Eurotio	Asco	51	73	26	36	186	GCA_009176395.1	DOE Joint Genome Institute
560	<i>Aspergillus fumigatiaffinis</i>	Eurotio	Asco	53	70	33	30	186	GCA_012656285.1	UNICAMP
561	<i>Fusarium virguliforme</i>	Sordario	Asco	55	65	30	36	186	GCA_013363175.1	US Department of Agriculture, Agriculture Research Service
562	<i>Fusarium compactum</i>	Sordario	Asco	49	62	34	41	186	GCA_013618385.1	US Department of Agriculture, Agriculture Research Service
563	<i>Daldinia childiae</i>	Sordario	Asco	64	38	34	50	186	GCA_008694065.1	National Institute of Biological Resources
564	<i>Spermospora avenae</i>	0	Asco	57	49	42	38	186	GCA_014282315.1	Agribio-Center for Agribioscience
565	<i>Hypoxylon sp. CI-4A</i>	Sordario	Asco	60	40	36	50	186	GCA_002120315.1	DOE Joint Genome Institute
566	<i>Fusarium nanum</i>	Sordario	Asco	46	60	43	36	185	GCA_004367095.1	US Department of Agriculture, Agriculture Research Service
567	<i>Entonaema liquescens</i>	Sordario	Asco	63	36	36	50	185	GCA_902805475.1	CEBITEC
568	<i>Magnaportheales sp. P1609</i>	Sordario	Asco	66	33	37	48	184	GCA_003709005.1	Fujian Agriculture and Forestry University
569	<i>Monosporascus cannonballus</i>	Sordario	Asco	52	54	32	46	184	GCA_004155895.1	University of New Mexico
570	<i>Pyricularia oryzae</i>	Sordario	Asco	63	34	38	49	184	GCA_004785725.1	Kansas State University
571	<i>Fusarium graminearum</i>	Sordario	Asco	48	61	36	39	184	GCA_900044135.1	ROTHAMSTED RESEARCH
572	<i>Helotiales sp. DMI_Dod_Qol</i>	Leotio	Asco	47	40	42	55	184	GCA_009613015.1	ARS
573	<i>Rhynchosporium agropyri</i>	Leotio	Asco	54	47	41	42	184	GCA_900074905.1	Technische Universitat Munchen - WZW

574	<i>Rhynchosporium commune</i>	Leotio	Asco	53	46	43	42	184	GCA_900074885.1	Technische Universitat Munchen - WZW
575	<i>Elsinoe arachidis</i>	Dothideo	Asco	46	68	32	38	184	GCA_013372555.1	Shenyang Agricultural University
576	<i>Pleurotus pulmonarius</i>	Agarico	Basidio	66	26	20	72	184	GCA_012980535.1	Academia Sinica
577	<i>Zasmidium angulare</i>	Dothideo	Asco	46	57	26	54	183	GCA_002786045.1	Northwest A&F University
578	<i>Pyricularia sp. CBS 133598</i>	Sordario	Asco	62	36	39	46	183	GCA_004337975.1	Academia Sinica
579	<i>Aspergillus lentulus</i>	Eurotio	Asco	53	69	34	27	183	GCA_010724575.1	Medical Mycology Research Center
580	<i>Coniochaeta sp. YLH0009</i>	Sordario	Asco	52	48	47	36	183	GCA_007388125.1	University of Arizona
581	<i>Fusarium anguioides</i>	Sordario	Asco	50	49	40	44	183	GCA_012977745.1	US Department of Agriculture, Agriculture Research Service
582	<i>Fusarium cortaderiae</i>	Sordario	Asco	49	59	34	41	183	GCA_009617495.1	University of Sao Paulo
583	<i>Fusarium transvaalense</i>	Sordario	Asco	52	58	35	38	183	GCA_013623685.1	US Department of Agriculture, Agriculture Research Service
584	<i>Diplodia sapinea</i>	Dothideo	Asco	47	67	23	46	183	GCA_000671355.1	Forestry and Agricultural Biotechnology Institute, University of Pretoria
585	<i>Fusarium subclunatum</i>	Sordario	Asco	44	72	29	38	183	GCA_013623665.1	US Department of Agriculture, Agriculture Research Service
586	<i>Clariireedia jacksonii</i>	Leotio	Asco	46	66	30	41	183	GCA_002242905.1	Rutgers University
587	<i>Podospora comata</i>	Sordario	Asco	58	23	48	54	183	GCA_900290415.1	IED
588	<i>Podospora anserina</i>	Sordario	Asco	58	23	48	54	183	GCA_005222925.1	Lomonosov Moscow State University
589	<i>Pseudocercospora macadamiae</i>	Dothideo	Asco	46	60	22	54	182	GCA_012978405.1	University of Queensland
590	<i>Magnaporthe sp. MG05</i>	Sordario	Asco	60	35	39	48	182	GCA_001936065.1	Centre for Cellular and Molecular Platforms
591	<i>Coniochaeta sp. NC1642</i>	Sordario	Asco	52	48	46	36	182	GCA_007388135.1	University of Arizona
592	<i>Coniochaeta sp. AEA 9055</i>	Sordario	Asco	53	48	45	36	182	GCA_007388195.1	University of Arizona
593	<i>Coniochaeta sp. AEA 9094</i>	Sordario	Asco	53	48	45	36	182	GCA_007388145.1	University of Arizona
594	<i>Didymella exigua</i>	Dothideo	Asco	46	78	19	39	182	GCA_010094145.1	DOE Joint Genome Institute
595	<i>Fusarium meridionale</i>	Sordario	Asco	48	59	35	40	182	GCA_009617515.1	University of Sao Paulo
596	<i>Valsa mali</i>	Sordario	Asco	52	66	20	44	182	GCA_000818155.1	Northwest A&F University
597	<i>Tubaria furfuracea</i>	Agarico	Basidio	38	93	30	20	181	GCA_900069095.1	Royal Botanic Gardens, Kew
598	<i>Coniochaeta sp. IL0111</i>	Sordario	Asco	53	48	44	36	181	GCA_007388115.1	University of Arizona
599	<i>Aspergillus leporis</i>	Eurotio	Asco	48	72	28	33	181	GCA_009176345.1	DOE Joint Genome Institute
600	<i>Fusarium austroamericanum</i>	Sordario	Asco	47	60	35	39	181	GCA_009617525.1	University of Sao Paulo
601	<i>Fusarium kyushuense</i>	Sordario	Asco	49	57	34	41	181	GCA_013184315.1	US Department of Agriculture, Agriculture Research Service
602	<i>Alternaria brassicicola</i>	Dothideo	Asco	50	56	34	41	181	GCA_002796735.1	IRHS
603	<i>Dendrothele bispora</i>	Agarico	Basidio	46	26	19	90	181	GCA_004369135.1	DOE Joint Genome Institute
604	<i>Gaeumannomyces sp. JS-464</i>	Sordario	Asco	64	31	35	50	180	GCA_002197995.1	National Institute of Biological Resources
605	<i>Monosporascus sp. MC13-8B</i>	Sordario	Asco	52	53	32	43	180	GCA_004154975.1	University of New Mexico

606	<i>Lizonia empirigonia</i>	Dothideo	Asco	50	62	26	42	180	GCA_009982855.1	DOE Joint Genome Institute
607	<i>Fusarium brasilicum</i>	Sordario	Asco	47	59	35	39	180	GCA_013184295.1	US Department of Agriculture, Agriculture Research Service
608	<i>Polyporus brumalis</i>	Agarico	Basidio	59	28	26	67	180	GCA_001792895.1	National Institute of Forest Science
609	<i>Didymosphaeria enalia</i>	Dothideo	Asco	59	33	32	56	180	GCA_010094045.1	DOE Joint Genome Institute
610	<i>Laburnicola sp. R22_1</i>	Dothideo	Asco	52	54	32	41	179	GCA_014281115.1	Chinese Academy of Forestry
611	<i>Fusarium asiaticum</i>	Sordario	Asco	48	58	35	38	179	GCA_001717845.1	Government of Canada
612	<i>Penicillium sclerotiorum</i>	Eurotio	Asco	46	70	28	35	179	GCA_001750025.1	Rutgers, The State University of New Jersey
613	<i>Fusarium culmorum</i>	Sordario	Asco	46	58	36	39	179	GCA_003033665.1	NIOO-KNAW
614	<i>Fusarium heterosporum</i>	Sordario	Asco	49	53	38	39	179	GCA_013396295.1	US Department of Agriculture, Agriculture Research Service
615	<i>Scedosporium dehoogii</i>	Sordario	Asco	64	20	44	51	179	GCA_002812735.1	GEIHP, UPRES EA 3142
616	<i>Magnaporthe sp. MG08</i>	Sordario	Asco	59	35	38	46	178	GCA_001936555.1	Centre for Cellular and Molecular Platforms
617	<i>Diplodia corticola</i>	Dothideo	Asco	46	66	22	44	178	GCA_001883845.1	University of Aveiro
618	<i>Fusarium dimerum</i>	Sordario	Asco	45	68	32	33	178	GCA_013623525.1	US Department of Agriculture, Agriculture Research Service
619	<i>Fusarium praegraminearum</i>	Sordario	Asco	48	57	36	37	178	GCA_002093855.1	US Department of Agriculture, Agriculture Research Service
620	<i>Pyrenophora tritici-repentis</i>	Dothideo	Asco	51	49	31	47	178	GCA_008692205.1	Curtin University
621	<i>Rhynchosporium secalis</i>	Leotio	Asco	54	42	41	41	178	GCA_900074895.1	Technische Universitat Munchen - WZW
622	<i>Grammothele lineata</i>	Agarico	Basidio	49	30	30	69	178	GCA_002150815.3	Molecular Biology Lab
623	<i>Fusarium illudens</i>	Sordario	Asco	50	63	30	35	178	GCA_013623515.1	US Department of Agriculture, Agriculture Research Service
624	<i>Auriculariopsis ampla</i>	Agarico	Basidio	48	54	32	43	177	GCA_007026445.1	DOE Joint Genome Institute
625	<i>Aspergillus felis</i>	Eurotio	Asco	47	66	37	27	177	GCA_014281915.1	UNICAMP
626	<i>Aspergillus bertholletiae</i>	Eurotio	Asco	48	72	23	34	177	GCA_009193595.1	DOE Joint Genome Institute
627	<i>Curvularia sp. IFB-Z10</i>	Dothideo	Asco	55	42	33	47	177	GCA_002161795.1	Nanjing University
628	<i>Annulohypoxylon truncatum</i>	Sordario	Asco	51	42	36	48	177	GCA_902805465.1	CEBITEC
629	<i>Exserohilum turcicum</i>	Dothideo	Asco	53	48	33	43	177	GCA_000359705.1	JGI
630	<i>Taxomyces andreae</i>	0	Asco	61	18	31	67	177	GCA_001969225.1	Fraunhofer
631	<i>Moniliophthora roleri</i>	Agarico	Basidio	54	31	22	70	177	GCA_001466705.1	Purdue University
632	<i>Phanerochaete chrysosporium</i>	Agarico	Basidio	60	18	25	74	177	GCA_001910725.1	National Institute of Forest Science
633	<i>Scedosporium sp. IMV 00882</i>	Sordario	Asco	63	20	43	51	177	GCA_001931805.1	Jet Propulsion Laboratory, California Institute of Technology
634	<i>Magnaporthe sp. MG12</i>	Sordario	Asco	59	35	37	45	176	GCA_001936955.1	Centre for Cellular and Molecular Platforms
635	<i>Gaeumannomyces tritici</i>	Sordario	Asco	61	32	34	49	176	GCA_000145635.1	Broad Institute
636	<i>Aspergillus quadrilineatus</i>	Eurotio	Asco	46	69	30	31	176	GCA_013305525.1	Vanderbilt University

637	<i>Fusarium pseudograminearum</i>	Sordario	Asco	46	57	36	37	176	GCA_000303195.2	CSIRO
638	<i>Aspergillus udagawae</i>	Eurotio	Asco	49	64	32	30	175	GCA_010724255.1	Medical Mycology Research Center
639	<i>Hawksworthiomyces lignivorus</i>	Sordario	Asco	49	37	44	45	175	GCA_002917075.1	University of Pretoria
640	<i>Bipolaris cookei</i>	Dothideo	Asco	56	44	30	45	175	GCA_002286855.1	University of Arkansas
641	<i>Fusarium zanthoxyli</i>	Sordario	Asco	40	69	31	35	175	GCA_013623745.1	US Department of Agriculture, Agriculture Research Service
642	<i>Daldinia eschscholtzii</i>	Sordario	Asco	57	38	34	46	175	GCA_001951055.1	nanjing university
643	<i>Daldinia concentrica</i>	Sordario	Asco	57	38	34	46	175	GCA_902805455.1	CEBITEC
644	<i>Alternaria gansuensis</i>	Dothideo	Asco	51	51	30	43	175	GCA_009289805.1	Lanzhou University
645	<i>Clavaria fumosa</i>	Agarico	Basidio	26	78	45	25	174	GCA_001179745.1	Royal Botanic Gardens, Kew
646	<i>Microdochium bolleyi</i>	Sordario	Asco	52	52	27	43	174	GCA_001566295.1	DOE Joint Genome Institute
647	<i>Aspergillus terreus</i>	Eurotio	Asco	49	57	39	29	174	GCA_009834425.1	Nanyang Technological University
648	<i>Fusarium longipes</i>	Sordario	Asco	46	51	37	40	174	GCA_013618495.1	US Department of Agriculture, Agriculture Research Service
649	<i>Diplodia scrobiculata</i>	Dothideo	Asco	44	64	20	46	174	GCA_001455585.1	Forestry & Agricultural Biotechnology Institute, University of Pretoria
650	<i>Fusarium subtropicale</i>	Sordario	Asco	47	57	33	37	174	GCA_003670145.1	US Department of Agriculture, Agriculture Research Service
651	<i>Lanzia echinophila</i>	Leotio	Asco	53	53	18	50	174	GCA_000812885.1	USDA-ARS
652	<i>Corioloopsis trogii</i>	Agarico	Basidio	48	32	24	70	174	GCA_007896425.1	Kunming University of Science and Technology
653	<i>Hypoxylon rickii</i>	Sordario	Asco	55	37	36	46	174	GCA_902806535.1	CEBITEC
654	<i>Armillaria cepistipes</i>	Agarico	Basidio	47	39	20	68	174	GCA_900157415.1	Technische Universitat Munchen - WZW
655	<i>Uromyces transversalis</i>	Puccinio	Basidio	50	64	19	40	173	GCA_002994575.1	University of Georgia
656	<i>Cercospora brassicicola</i>	Dothideo	Asco	47	40	28	58	173	GCA_013365245.1	Banaras Hindu University
657	<i>Fusarium poae</i>	Sordario	Asco	45	54	33	41	173	GCA_001675295.1	Wageningen UR
658	<i>Sarocladium brachiariae</i>	Sordario	Asco	55	41	47	30	173	GCA_008271525.1	Environment and Plant Protection Institute
659	<i>Dactylellina haptotyla</i>	Orbilio	Asco	47	72	27	27	173	GCA_000441935.1	Lund University
660	<i>Armillaria gallica</i>	Agarico	Basidio	51	32	17	73	173	GCA_012064365.1	Yunnan Minzu University
661	<i>Cantharellus lutescens</i>	Agarico	Basidio	30	81	41	20	172	GCA_003314295.1	Kunming University of Science and Technology
662	<i>Penicillium arizonense</i>	Eurotio	Asco	50	64	23	35	172	GCA_001773325.1	Chalmers University of Technology
663	<i>Valsa malicola</i>	Sordario	Asco	44	68	23	37	172	GCA_003795315.1	Northwest A&F University
664	<i>Aspergillus mulundensis</i>	Eurotio	Asco	50	70	25	27	172	GCA_003369625.1	The University of Texas Health Science Center at Houston
665	<i>Daldinia sp. EC12</i>	Sordario	Asco	54	36	38	44	172	GCA_002120325.1	DOE Joint Genome Institute
666	<i>Leptosphaeria biglobosa</i>	Dothideo	Asco	48	54	31	39	172	GCA_900465125.1	GSC

667	<i>Penicillium capsulatum</i>	Eurotio	Asco	52	58	23	38	171	GCA_000943775.1	Shanghai Key Laboratory of Molecular Medical Mycology, Department of Dermatology, Shanghai Changzheng Hospital; Academy of Military Medical Sciences
668	<i>Magnaportheopsis rhizophila</i>	Sordario	Asco	58	35	35	43	171	GCA_003049465.1	Agricultural Research Service, United States Department of Agriculture
669	<i>Laburnicola</i> sp. JP-R-44	Dothideo	Asco	46	56	31	38	171	GCA_009805535.1	Chinese Academy of Forestry
670	<i>Coniochaeta hoffmannii</i>	Sordario	Asco	51	37	44	39	171	GCA_002798055.1	IHI Zittau / TU Dresden
671	<i>Aspergillus spinulosporus</i>	Eurotio	Asco	48	69	25	29	171	GCA_013305485.1	Vanderbilt University
672	<i>Polyporus arcularius</i>	Agarico	Basidio	46	28	26	71	171	GCA_004369055.1	DOE Joint Genome Institute
673	<i>Pseudogymnoascus</i> sp. VKM F-4281 (FW-2241)	Leotio	Asco	53	52	36	30	171	GCA_000750745.1	Moscow State University
674	<i>Magnaportheopsis incrustans</i>	Sordario	Asco	55	35	35	45	170	GCA_003049425.1	Agricultural Research Service, United States Department of Agriculture
675	<i>Pyricularia grisea</i>	Sordario	Asco	59	32	35	44	170	GCA_003933175.1	IARI
676	<i>Pyricularia pennisetigena</i>	Sordario	Asco	60	32	35	43	170	GCA_004337985.1	Academia Sinica
677	<i>Talaromyces stollii</i>	Eurotio	Asco	36	65	38	31	170	GCA_014065225.1	Beijing University of Chemical Technology
678	<i>Ganoderma lucidum</i>	Agarico	Basidio	44	34	28	64	170	GCA_000271565.1	The Institute of Medicinal Plant Development
679	<i>Aureobasidium pullulans</i>	Dothideo	Asco	47	60	28	35	170	GCA_000721785.1	DOE Joint Genome Institute
680	<i>Elsinoe fawcettii</i>	Dothideo	Asco	42	69	26	33	170	GCA_012977835.1	University of Southern Queensland
681	<i>Basipetospora chlamydospora</i>	Eurotio	Asco	52	17	59	42	170	GCA_001599675.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
682	<i>Aspergillus novofumigatus</i>	Eurotio	Asco	46	70	29	24	169	GCA_002847465.1	DOE Joint Genome Institute
683	<i>Penicillium brasilianum</i>	Eurotio	Asco	49	63	28	29	169	GCA_001048715.1	HKI JENA
684	<i>Aspergillus pseudoterreus</i>	Eurotio	Asco	48	52	39	30	169	GCA_002927005.1	Pacific Northwest National Lab
685	<i>Fusarium langsethiae</i>	Sordario	Asco	49	52	32	36	169	GCA_001292635.1	Bioforsk
686	<i>Pirottaea palmicola</i>	Leotio	Asco	54	40	30	45	169	GCA_003988945.1	Manaaki Whenua Landcare Research
687	<i>Talaromyces rugulosus</i>	Eurotio	Asco	36	58	30	44	168	GCA_013368755.1	Xi'an Jiaotong University
688	<i>Fusarium penzigii</i>	Sordario	Asco	47	59	32	30	168	GCA_013623535.1	US Department of Agriculture, Agriculture Research Service
689	<i>Sarocladium oryzae</i>	Sordario	Asco	55	38	43	32	168	GCA_001972265.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
690	<i>Stereum hirsutum</i>	Agarico	Basidio	46	41	21	60	168	GCA_000264905.1	JGI
691	<i>Botrytis tulipae</i>	Leotio	Asco	48	58	18	44	168	GCA_004786125.1	Wageningen University

692	<i>Nakataea oryzae</i>	Sordario	Asco	56	30	36	45	167	GCA_003049435.1	Agricultural Research Service, United States Department of Agriculture
693	<i>Jackrogersella multiformis</i>	Sordario	Asco	49	41	34	43	167	GCA_902806575.1	CEBITEC
694	<i>Cladosporium sphaerospermum</i>	Dothideo	Asco	42	54	32	39	167	GCA_000261425.2	UNIVERSITY OF MALAYA
695	<i>Talaromyces wortmannii</i>	Eurotio	Asco	36	58	34	38	166	GCA_001939245.1	Universidad Nacional Agraria La Molina,
696	<i>Mycena chlorophos</i>	Agarico	Basidio	40	35	27	64	166	GCA_001612595.1	KEIO UNIVERSITY
697	<i>Pseudocercospora pini-densiflorae</i>	Dothideo	Asco	44	51	21	50	166	GCA_000504365.2	Canada's Michael Smith Genome Sciences Centre
698	<i>Aspergillus thermomutatus</i>	Eurotio	Asco	47	62	30	27	166	GCA_002237265.2	University of Montreal
699	<i>Valsa sordida</i>	Sordario	Asco	42	66	23	35	166	GCA_003795275.1	Northwest A&F University
700	<i>Penicillium paxilli</i>	Eurotio	Asco	42	68	21	35	166	GCA_000347475.1	Massey University
701	<i>Aspergillus brasiliensis</i>	Eurotio	Asco	44	65	18	39	166	GCA_001889945.1	DOE Joint Genome Institute
702	<i>Fusarium nurragi</i>	Sordario	Asco	44	51	36	35	166	GCA_012977755.1	US Department of Agriculture, Agriculture Research Service
703	<i>Fusarium continuum</i>	Sordario	Asco	40	64	28	34	166	GCA_013184455.1	US Department of Agriculture, Agriculture Research Service
704	<i>Cladosporium sp. TM138-S3</i>	Dothideo	Asco	42	53	32	39	166	GCA_011745625.1	Hellenic Centre of Marine Research (HCMR)
705	<i>Botrytis fabae</i>	Leotio	Asco	45	59	20	42	166	GCA_004335055.1	Curtin University
706	<i>Botrytis elliptica</i>	Leotio	Asco	45	58	22	41	166	GCA_004786205.1	Wageningen University
707	<i>Botrytis galanthina</i>	Leotio	Asco	46	59	20	41	166	GCA_004916875.1	Wageningen University
708	<i>Pterula gracilis</i>	Agarico	Basidio	55	28	22	61	166	GCA_004369125.1	DOE Joint Genome Institute
709	<i>Fusarium zealandicum</i>	Sordario	Asco	42	68	24	32	166	GCA_013266195.1	US Department of Agriculture, Agriculture Research Service
710	<i>Dictyopanus pusillus</i>	Agarico	Basidio	36	26	32	72	166	GCA_013387415.1	INRS-Institut Armand-Frappier
711	<i>Puccinia arachidis</i>	Puccinio	Basidio	52	54	34	25	165	GCA_001013415.1	Junagadh Agricultural University
712	<i>Aspergillus fischeri</i>	Eurotio	Asco	50	62	27	26	165	GCA_008711165.1	UMass Amherst
713	<i>Lentinus tigrinus</i>	Agarico	Basidio	43	28	24	70	165	GCA_003813185.1	DOE Joint Genome Institute
714	<i>Massariosphaeria phaeospora</i>	Dothideo	Asco	51	30	35	49	165	GCA_011032825.1	DOE Joint Genome Institute
715	<i>Aspergillus sp. CLMG-2019a</i>	Eurotio	Asco	47	60	22	35	164	GCA_013421405.1	The University of Western Australia
716	<i>Aspergillus nidulans</i>	Eurotio	Asco	42	64	26	32	164	GCA_011074995.1	Barcelona Supercomputing center (BSC)
717	<i>Pyrenophora teres</i>	Dothideo	Asco	48	40	32	44	164	GCA_008086845.1	NDSU
718	<i>Botrytis cinerea</i>	Leotio	Asco	44	59	20	41	164	GCA_000292645.1	Wageningen University
719	<i>Aspergillus welwitschiae</i>	Eurotio	Asco	42	67	16	39	164	GCA_009761105.1	Universidade Federal de Minas Gerais
720	<i>Aureobasidium namibiae</i>	Dothideo	Asco	46	53	29	36	164	GCA_000721765.1	DOE Joint Genome Institute
721	<i>Pyrenophora graminea</i>	Dothideo	Asco	48	40	32	43	163	GCA_012365135.1	USDA-ARS
722	<i>Pyrenophora seminiperda</i>	Dothideo	Asco	48	41	33	41	163	GCA_000465215.2	Brigham Young University
723	<i>Aspergillus phoenicis</i>	Eurotio	Asco	42	68	14	39	163	GCA_003344505.1	DOE Joint Genome Institute

724	<i>Botrytis hyacinthi</i>	Leotio	Asco	44	58	20	41	163	GCA_004786245.1	Wageningen University
725	<i>Coprinellus angulatus</i>	Agarico	Basidio	44	12	50	57	163	GCA_013368325.1	Lund University
726	<i>Delitschia confertasporea</i>	Dothideo	Asco	48	26	36	53	163	GCA_010093945.1	DOE Joint Genome Institute
727	<i>Pseudocercospora fuligena</i>	Dothideo	Asco	46	50	18	48	162	GCA_014298035.1	University of California
728	<i>Leptosphaeria maculans</i>	Dothideo	Asco	47	50	28	37	162	GCA_900465115.1	GSC
729	<i>Botrytis paeoniae</i>	Leotio	Asco	46	55	18	43	162	GCA_001005785.1	Washington State University
730	<i>Dichomitus squalens</i>	Agarico	Basidio	46	31	21	64	162	GCA_004307925.1	DOE Joint Genome Institute CBS-KNAW Fungal Biodiversity Centre Institute of the Royal Netherlands Academy of Arts and Science
731	<i>Trametes pubescens</i>	Agarico	Basidio	48	23	23	68	162	GCA_001895945.1	IHI Zittau / TU Dresden
732	<i>Psathyrella aberdarensis</i>	Agarico	Basidio	56	8	36	62	162	GCA_004126415.1	The Federal Research Centre "Fundamentals of Biotechnology" of the Russian Academy of Sciences
733	<i>Steccherinum ochraceum</i>	Agarico	Basidio	50	16	30	66	162	GCA_004332605.1	University of California, Riverside
734	<i>Friedmanniomyces simplex</i>	Dothideo	Asco	43	34	44	40	161	GCA_005059865.1	JGI
735	<i>Trametes versicolor</i>	Agarico	Basidio	46	24	23	68	161	GCA_000271585.1	University of Maryland, College Park
736	<i>Botrytis fragariae</i>	Leotio	Asco	45	56	18	42	161	GCA_013461495.1	Beijing Institute of Genomics, CAS
737	<i>Agrocybe cylindracea</i>	Agarico	Basidio	55	20	24	62	161	GCA_013376435.1	Australian National University
738	<i>Scedosporium aurantiacum</i>	Sordario	Asco	58	17	40	46	161	GCA_000812075.1	Kunming University of Science and Technology
739	<i>Macrolepiota dolichaula</i>	Agarico	Basidio	45	18	26	72	161	GCA_003315915.1	USDA-ARS
740	<i>Thelonectria rubi</i>	Sordario	Asco	42	58	29	31	160	GCA_013420875.1	Wageningen University
741	<i>Botryotinia calthae</i>	Leotio	Asco	46	54	20	40	160	GCA_004379285.1	Wageningen University
742	<i>Botryotinia narcissicola</i>	Leotio	Asco	45	56	18	41	160	GCA_004786225.1	Manaaki Whenua Landcare Research
743	<i>Neobulgaria alba</i>	Leotio	Asco	48	58	30	24	160	GCA_003988965.1	Technische Universitat Munchen - WZW
744	<i>Armillaria ostoyae</i>	Agarico	Basidio	39	42	22	57	160	GCA_900157425.1	Banaras Hindu University
745	<i>Pseudocercospora cruenta</i>	Dothideo	Asco	41	49	21	48	159	GCA_013365205.1	DOE Joint Genome Institute
746	<i>Aspergillus alliaceus</i>	Eurotio	Asco	43	61	22	33	159	GCA_009176365.1	University of Montana
747	<i>Raffaelea albimanens</i>	Sordario	Asco	50	34	34	41	159	GCA_002778245.1	Uppsala University
748	<i>Aureobasidium sp. FSWF8-4</i>	Dothideo	Asco	44	58	24	33	159	GCA_001914275.1	DOE Joint Genome Institute
749	<i>Clathrospora elyngae</i>	Dothideo	Asco	46	38	35	40	159	GCA_010015635.1	University of Pretoria
750	<i>Graphilbum fragrans</i>	Sordario	Asco	49	40	32	37	158	GCA_001513895.1	Northwest A&F University
751	<i>Cytospora leucostoma</i>	Sordario	Asco	40	60	24	34	158	GCA_003795295.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
752	<i>Penicillium citrinum</i>	Eurotio	Asco	42	62	20	34	158	GCA_001950535.1	USDA-ARS
753	<i>Corinectria fuckeliana</i>	Sordario	Asco	44	61	22	31	158	GCA_003385255.1	

754	<i>Botryotinia convoluta</i>	Leotio	Asco	46	52	19	41	158	GCA_004786275.1	Wageningen University
755	<i>Venustampulla echinocandica</i>	Leotio	Asco	48	32	39	39	158	GCA_003357145.1	The University of Texas Health Science Center at Houston
756	<i>Punctularia strigosozonata</i>	Agarico	Basidio	36	44	24	54	158	GCA_000264995.1	JGI
757	<i>Crucibulum laeve</i>	Agarico	Basidio	54	19	22	63	158	GCA_004379715.1	DOE Joint Genome Institute
758	<i>Leucoagaricus leucothites</i>	Agarico	Basidio	50	20	20	68	158	GCA_013368445.1	Lund University
759	<i>Pleurotus citrinopileatus</i>	Agarico	Basidio	46	24	20	68	158	GCA_003314595.1	Kunming University of Science and Technology
760	<i>Aspergillus unguis</i>	Eurotio	Asco	52	55	20	30	157	GCA_003324175.1	CSIR-NIIST
761	<i>Raffaelea ambrosiae</i>	Sordario	Asco	47	36	34	40	157	GCA_002778195.1	University of Montana
762	<i>Aspergillus incahuasiensis</i>	Eurotio	Asco	44	60	29	24	157	GCA_003719405.1	National Center For Agricultural Utilization Research
763	<i>Sporothrix pallida</i>	Sordario	Asco	48	38	38	33	157	GCA_000710705.2	University of Messina
764	<i>Aspergillus aculeatinus</i>	Eurotio	Asco	40	64	21	32	157	GCA_003184765.1	DOE Joint Genome Institute
765	<i>Lachnellula willkommii</i>	Leotio	Asco	50	46	12	49	157	GCA_007825375.1	Canadian Food Inspection Agency (CFIA)
766	<i>Penicillium steckii</i>	Eurotio	Asco	42	62	18	35	157	GCA_002072375.1	Chalmers University of Technology
767	<i>Aspergillus tubingensis</i>	Eurotio	Asco	42	66	16	33	157	GCA_010614855.1	Hankyong National University
768	<i>Elsinoe ampelina</i>	Dothideo	Asco	42	54	30	31	157	GCA_005959805.1	Northwest A&F University
769	<i>Armillaria solidipes</i>	Agarico	Basidio	38	40	24	55	157	GCA_002307675.1	DOE Joint Genome Institute
770	<i>Aspergillus avenaceus</i>	Eurotio	Asco	40	66	20	30	156	GCA_009193465.1	DOE Joint Genome Institute
771	<i>Xenoacremonium recifei</i>	Sordario	Asco	53	52	22	29	156	GCA_012184525.1	Belgian Coordinated Collection of Microorganisms, BCCM
772	<i>Pyrenopolyporus hunteri</i>	Sordario	Asco	47	35	34	40	156	GCA_902806595.1	CEBITEC
773	<i>Aspergillus piperis</i>	Eurotio	Asco	42	64	14	36	156	GCA_003184755.1	DOE Joint Genome Institute
774	<i>Fusarium verrucosum</i>	Sordario	Asco	44	41	35	36	156	GCA_013623715.1	US Department of Agriculture, Agriculture Research Service
775	<i>Rhizoctonia solani</i>	Agarico	Basidio	39	58	16	43	156	GCA_001899475.2	Universiti Kebangsaan Malaysia
776	<i>Aspergillus viridinutans</i>	Eurotio	Asco	44	60	26	24	154	GCA_004368095.1	University of Melbourne
777	<i>Cylindrobasidium torrendii</i>	Agarico	Basidio	44	52	25	33	154	GCA_000934385.1	DOE Joint Genome Institute
778	<i>Aspergillus luchuensis</i>	Eurotio	Asco	41	64	14	35	154	GCA_001890685.1	DOE Joint Genome Institute
779	<i>Lachnellula arida</i>	Leotio	Asco	49	42	14	48	153	GCA_007821475.1	Canadian Food Inspection Agency (CFIA)
780	<i>Pezoloma ericae</i>	Leotio	Asco	40	55	22	36	153	GCA_002865625.1	DOE Joint Genome Institute
781	<i>Aspergillus brunneoviolaceus</i>	Eurotio	Asco	38	64	18	33	153	GCA_003184695.1	DOE Joint Genome Institute
782	<i>Fusarium xyrophilum</i>	Sordario	Asco	34	50	35	34	153	GCA_008711595.1	US Department of Agriculture, Agriculture Research Service
783	<i>Trametes polyzona</i>	Agarico	Basidio	42	26	27	58	153	GCA_001939255.1	Universidad Nacional Agraria La Molina,
784	<i>Aspergillus hiratsukae</i>	Eurotio	Asco	43	55	26	28	152	GCA_014281905.1	UNICAMP
785	<i>Venturia oleaginea</i>	Dothideo	Asco	43	48	14	47	152	GCA_013176395.1	FUJIAN AGRICULTURE AND FORESTRY UNIVERSITY

786	<i>Fusarium sp. KOD 1611</i>	Sordario	Asco	34	49	35	34	152	GCA_013624395.1	US Department of Agriculture, Agriculture Research Service
787	<i>Penicillium rolfsii</i>	Eurotio	Asco	44	59	27	22	152	GCA_011392555.1	Embrapa Agroenergia
788	<i>Trametes sp. AH28-2</i>	Agarico	Basidio	44	24	20	64	152	GCA_001304625.1	Anhui University
789	<i>Phanerochaete carnosae</i>	Agarico	Basidio	53	16	21	62	152	GCA_000300595.1	DOE Joint Genome Institute
790	<i>Aspergillus olivimuriae</i>	Eurotio	Asco	42	53	32	24	151	GCA_003719415.1	National Center For Agricultural Utilization Research
791	<i>Aspergillus oerlinghausenensis</i>	Eurotio	Asco	42	58	27	24	151	GCA_014250555.1	Vanderbilt University
792	<i>Esteya vermicola</i>	Sordario	Asco	59	25	32	35	151	GCA_002778215.1	University of Montana
793	<i>Lachnellula cervina</i>	Leotio	Asco	46	46	15	44	151	GCA_007825325.1	Canadian Food Inspection Agency (CFIA)
794	<i>Aspergillus costaricensis</i>	Eurotio	Asco	40	64	14	33	151	GCA_003184835.1	DOE Joint Genome Institute
795	<i>Aspergillus niger</i>	Eurotio	Asco	40	63	14	34	151	GCA_011316255.1	South China Agricultural University
796	<i>Hericium coralloides</i>	Agarico	Basidio	54	21	24	52	151	GCA_003675405.1	Tibet Vocational Technical College
797	<i>Agrocybe pediades</i>	Agarico	Basidio	44	17	24	66	151	GCA_013053245.1	Lund University
798	<i>Pleurotus ostreatus</i>	Agarico	Basidio	54	21	18	58	151	GCA_003313235.2	Chinese Academy of Agricultural Sciences
799	<i>Pallidocercospora crystallina</i>	Dothideo	Asco	41	46	15	48	150	GCA_003666085.1	Xijing Hospital, Fourth Military Medical University
800	<i>Passalora fulva</i>	Dothideo	Asco	38	52	20	40	150	GCA_000301015.1	Wageningen UR (University & Research centre)
801	<i>Magnaportheiopsis poae</i>	Sordario	Asco	48	33	30	39	150	GCA_000193285.1	Broad Institute
802	<i>Aspergillus turcosus</i>	Eurotio	Asco	42	58	25	25	150	GCA_002234965.2	University of Montreal
803	<i>Penicillium fuscoglaucum</i>	Eurotio	Asco	46	50	18	36	150	GCA_000576735.1	INRA-LIPM
804	<i>Coniella lustricola</i>	Sordario	Asco	38	60	26	26	150	GCA_003019895.1	DOE Joint Genome Institute
805	<i>Penicillium sp. MA 6036</i>	Eurotio	Asco	46	49	17	38	150	GCA_003138045.1	University of Natural Resources and Life Sciences, Vienna
806	<i>Aspergillus fijiensis</i>	Eurotio	Asco	39	62	18	31	150	GCA_003184825.1	DOE Joint Genome Institute
807	<i>Aspergillus uvarum</i>	Eurotio	Asco	38	62	18	32	150	GCA_003184745.1	DOE Joint Genome Institute
808	<i>Crepidotus sp. BD-2015</i>	Agarico	Basidio	36	28	24	62	150	GCA_001179765.1	Royal Botanic Gardens, Kew
809	<i>Aspergillus awamori</i>	Eurotio	Asco	40	64	14	32	150	GCA_001599415.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
810	<i>Trametes hirsuta</i>	Agarico	Basidio	42	22	24	62	150	GCA_001302255.2	A.N. Bach Institute of Biochemistry
811	<i>Lepista sordida</i>	Agarico	Basidio	44	22	22	62	150	GCA_900168675.1	UNIVERSITY OF BRISTOL
812	<i>Cercospora sesami</i>	Dothideo	Asco	42	38	27	42	149	GCA_013365235.1	Banaras Hindu University
813	<i>Penicillium sp. SPG-F15</i>	Eurotio	Asco	46	46	17	40	149	GCA_003800485.1	Texas A&M University - Corpus Christi
814	<i>Aspergillus japonicus</i>	Eurotio	Asco	39	62	16	32	149	GCA_003184785.1	DOE Joint Genome Institute
815	<i>Aspergillus indologenus</i>	Eurotio	Asco	38	63	18	30	149	GCA_003184685.1	DOE Joint Genome Institute
816	<i>Aspergillus violaceofuscus</i>	Eurotio	Asco	40	60	16	33	149	GCA_003184705.1	DOE Joint Genome Institute

817	<i>Penicillium expansum</i>	Eurotio	Asco	51	48	16	34	149	GCA_004302965.1	ARS
818	<i>Aspergillus vadensis</i>	Eurotio	Asco	38	64	14	33	149	GCA_003184925.1	DOE Joint Genome Institute
819	<i>Aureobasidium subglaciale</i>	Dothideo	Asco	44	53	24	28	149	GCA_000721755.1	JGI
820	<i>Dothidotthia symphoricarpi</i>	Dothideo	Asco	42	60	16	31	149	GCA_010015815.1	DOE Joint Genome Institute
821	<i>Aspergillus floridensis</i>	Eurotio	Asco	41	60	16	32	149	GCA_012184565.1	Belgian Coordinated Collection of Microorganisms, BCCM
822	<i>Aureobasidium melanogenum</i>	Dothideo	Asco	42	45	24	38	149	GCA_002156615.1	Ocean University of China
823	<i>Thermothielavioides terrestris</i>	Sordario	Asco	45	32	36	36	149	GCA_900343105.1	CHALMERS UNIVERSITY OF TECHNOLOGY
824	<i>Armillaria borealis</i>	Agarico	Basidio	40	31	22	56	149	GCA_013427175.2	Genome Research and Education Center, Siberian Federal University
825	<i>Coniella vitis</i>	Sordario	Asco	35	60	24	29	148	GCA_011317545.1	qingdao agricultural university
826	<i>Elsinoe australis</i>	Dothideo	Asco	38	58	24	28	148	GCA_003013795.1	Nanjing Forestry University
827	<i>Aspergillus neoniger</i>	Eurotio	Asco	38	60	14	35	147	GCA_003184625.1	DOE Joint Genome Institute
828	<i>Monilinia laxa</i>	Leotio	Asco	41	50	20	36	147	GCA_009299455.1	UniBa - Univpm
829	<i>Galerina marginata</i>	Agarico	Basidio	42	26	27	52	147	GCA_000697645.1	DOE Joint Genome Institute
830	<i>Rhizodiscina lignyota</i>	Dothideo	Asco	34	46	24	42	146	GCA_010015805.1	DOE Joint Genome Institute
831	<i>Fusarium aywerte</i>	Sordario	Asco	36	46	34	30	146	GCA_013186375.1	US Department of Agriculture, Agriculture Research Service
832	<i>Botrytis porri</i>	Leotio	Asco	42	52	16	36	146	GCA_004786265.1	Wageningen University
833	<i>Viridothelium virens</i>	Dothideo	Asco	36	39	32	39	146	GCA_010094025.1	DOE Joint Genome Institute
834	<i>Morchella crassipes</i>	Pezizo	Asco	44	56	22	24	146	GCA_009192285.1	Huazhong Agricultural University
835	<i>Aspergillus eucalypticola</i>	Eurotio	Asco	38	60	14	33	145	GCA_003184535.1	DOE Joint Genome Institute
836	<i>Fusarium domesticum</i>	Sordario	Asco	43	66	16	20	145	GCA_013618395.1	US Department of Agriculture, Agriculture Research Service
837	<i>Marssonina brunnea</i>	Leotio	Asco	41	46	22	36	145	GCA_011750725.1	Nanjing Forestry University
838	<i>Morchella septimelata</i>	Pezizo	Asco	42	54	22	27	145	GCA_003062385.1	Biotechnology and Nuclear Technology Research Institute
839	<i>Friedmanniomyces endolithicus</i>	Dothideo	Asco	40	24	46	34	144	GCA_005059855.1	University of California, Riverside
840	<i>Penicillium sp. str. #12</i>	Eurotio	Asco	46	48	18	32	144	GCA_013138035.1	None
841	<i>Microthyrium microscopicum</i>	Dothideo	Asco	38	33	24	49	144	GCA_010405405.1	DOE Joint Genome Institute
842	<i>Penicillium sp. BW_12</i>	Eurotio	Asco	46	48	18	32	144	GCA_008931925.1	Tufts University
843	<i>Penicillium antarcticum</i>	Eurotio	Asco	44	54	16	30	144	GCA_002072345.1	Chalmers University of Technology
844	<i>Aspergillus wentii</i>	Eurotio	Asco	40	50	16	38	144	GCA_001890725.1	DOE Joint Genome Institute
845	<i>Agrocybe aegerita</i>	Agarico	Basidio	52	18	22	52	144	GCA_902728275.1	Integrative Pilzforschung
846	<i>Monilinia fructicola</i>	Leotio	Asco	42	45	18	38	143	GCA_008692225.1	UniBa - Univpm
847	<i>Chondrostereum purpureum</i>	Agarico	Basidio	35	23	16	69	143	GCA_004354395.1	Internationales Hochschulinstitut Zittau
848	<i>Raffaelea sp. RL272</i>	Sordario	Asco	51	43	16	32	142	GCA_002777955.1	University of Montana

849	<i>Schizophyllum commune</i>	Agarico	Basidio	40	40	26	36	142	GCA_001599475.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
850	<i>Scytalidium lignicola</i>	Leotio	Asco	40	30	30	42	142	GCA_002812745.2	IHI Zittau / TU Dresden
851	<i>Aspergillus neoellipticus</i>	Eurotio	Asco	39	58	25	20	142	GCA_003116565.1	personal
852	<i>Mycosphaerelloides madeirae</i>	Dothideo	Asco	42	38	16	46	142	GCA_002785995.1	Northwest A&F University
853	<i>Aspergillus homomorphus</i>	Eurotio	Asco	39	59	16	28	142	GCA_003184865.1	DOE Joint Genome Institute
854	<i>Aspergillus sclerotiiicarbonarius</i>	Eurotio	Asco	38	57	12	35	142	GCA_003184635.1	DOE Joint Genome Institute
855	<i>Ciborinia camelliae</i>	Leotio	Asco	42	48	14	38	142	GCA_001247705.1	Massey University
856	<i>Monilinia polystroma</i>	Leotio	Asco	40	51	17	34	142	GCA_002909645.1	United States Department of Agriculture
857	<i>Gymnopus androsaceus</i>	Agarico	Basidio	34	27	26	55	142	GCA_009733575.1	DOE Joint Genome Institute
858	<i>Aspergillus persii</i>	Eurotio	Asco	42	44	20	35	141	GCA_002215965.1	National Institute of Biological Resources
859	<i>Aspergillus fumigatus</i>	Eurotio	Asco	40	57	25	19	141	GCA_005768625.2	Nanyang Technological University
860	<i>Aspergillus carbonarius</i>	Eurotio	Asco	36	58	12	35	141	GCA_001990825.1	DOE Joint Genome Institute
861	<i>Aureobasidium sp. P6</i>	Dothideo	Asco	37	48	26	30	141	GCA_003992365.1	Ocean University of China
862	<i>Serendipita vermifera</i>	Agarico	Basidio	50	23	34	34	141	GCA_003073295.1	DOE Joint Genome Institute
863	<i>Penicillium sp. SPG-F1</i>	Eurotio	Asco	46	46	18	30	140	GCA_003800495.1	Texas A&M University Corpus Christi
864	<i>Aspergillus sclerotioniger</i>	Eurotio	Asco	38	56	12	34	140	GCA_003184525.1	DOE Joint Genome Institute
865	<i>Coprinopsis cinerea</i>	Agarico	Basidio	46	9	33	52	140	GCA_000182895.1	Broad Institute
866	<i>Lignosus rhinocerotis</i>	Agarico	Basidio	40	20	20	60	140	GCA_000743315.1	University of Malaya
867	<i>Paradendryphiella salina</i>	Dothideo	Asco	40	40	25	35	140	GCA_900634815.1	DTU Bioengineering
868	<i>Patellaria atrata</i>	Dothideo	Asco	50	23	29	38	140	GCA_010093705.1	DOE Joint Genome Institute
869	<i>Pleurotus tuoliensis</i>	Agarico	Basidio	48	26	14	52	140	GCA_003243755.1	Northeast Normal University
870	<i>Armillaria fuscipes</i>	Agarico	Basidio	40	28	18	54	140	GCA_001679825.1	Forestry and Agricultural Biotechnology Institute, University of Pretoria
871	<i>Penicillium sp. BW_162_3FA</i>	Eurotio	Asco	44	47	16	32	139	GCA_008931945.1	Tufts University
872	<i>Venturia pyrina</i>	Dothideo	Asco	33	48	14	44	139	GCA_000738655.1	La Trobe University
873	<i>Neurospora pannonica</i>	Sordario	Asco	43	25	37	34	139	GCA_009805235.1	Department of Botany, University of California, Berkeley
874	<i>Decorospora gaudefroyi</i>	Dothideo	Asco	44	27	32	36	139	GCA_010015605.1	DOE Joint Genome Institute
875	<i>Pleurotus ostreatoroseus</i>	Agarico	Basidio	43	18	22	56	139	GCA_005298045.1	Amazonian macromicets: knowing their diversity and evaluating their biotechnological potential in a sustainable way
876	<i>Irpex lacteus</i>	Agarico	Basidio	46	23	22	48	139	GCA_001986395.2	Anhui university
877	<i>Penicillium bifforme</i>	Eurotio	Asco	43	47	16	32	138	GCA_000577785.1	INRA-LIPM
878	<i>Venturia aucupariae</i>	Dothideo	Asco	33	49	14	42	138	GCA_003693225.1	INRA

879	<i>Neurospora sp. FGSC 6877</i>	Sordario	Asco	41	24	36	37	138	GCA_009805295.1	University of California, Berkeley
880	<i>Morchella sextelata</i>	Pezizo	Asco	41	54	19	24	138	GCA_009741755.1	Inner Mongolia International Mongolian Hospital
881	<i>Morchella importuna</i>	Pezizo	Asco	42	52	20	24	138	GCA_003444635.1	Huazhong Agricultural University
882	<i>Penicillium solitum</i>	Eurotio	Asco	43	48	18	28	137	GCA_000952775.2	JCVI
883	<i>Monilinia aucupariae</i>	Leotio	Asco	40	47	18	32	137	GCA_002162555.1	University of Toronto Mississauga
884	<i>Lyophyllum decastes</i>	Agarico	Basidio	40	22	16	59	137	GCA_001950495.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
885	<i>Penicillium flavigenum</i>	Eurotio	Asco	40	46	18	32	136	GCA_002072365.1	Chalmers University of Technology
886	<i>Cercospora cf. sigesbeckiae</i>	Dothideo	Asco	39	35	22	40	136	GCA_005356805.1	University of Arkansas
887	<i>Cercospora beticola</i>	Dothideo	Asco	38	36	22	40	136	GCA_003370525.1	University of Southern Queensland
888	<i>Hypoxylon fragiforme</i>	Sordario	Asco	40	31	31	34	136	GCA_902806515.1	CEBITEC
889	<i>Flammulina velutipes</i>	Agarico	Basidio	43	24	25	44	136	GCA_011800155.1	Fujian Agriculture and Forestry University
890	<i>Aspergillus ellipticus</i>	Eurotio	Asco	36	58	14	28	136	GCA_003184645.1	DOE Joint Genome Institute
891	<i>Thermothelomyces thermophilus</i>	Sordario	Asco	40	32	36	28	136	GCA_000226095.1	DOE Joint Genome Institute
892	<i>Lentinus polychrous</i>	Agarico	Basidio	40	20	22	54	136	GCA_000787475.1	none
893	<i>Morchella conica</i>	Pezizo	Asco	40	52	20	24	136	GCA_003790465.1	DOE Joint Genome Institute
894	<i>Ascobolus immersus</i>	Pezizo	Asco	50	12	38	36	136	GCA_003788565.2	DOE Joint Genome Institute
895	<i>Gymnopilus dilepis</i>	Agarico	Basidio	42	12	20	62	136	GCA_002938385.1	Ohio State University
896	<i>Pleurotus eryngii</i>	Agarico	Basidio	48	22	14	52	136	GCA_001717165.1	Shanghai Academy of Agricultural Sciences
897	<i>Venturia inaequalis</i>	Dothideo	Asco	33	46	12	44	135	GCA_003689225.1	INRA
898	<i>Trametes sanguinea</i>	Agarico	Basidio	42	18	22	53	135	GCA_008973685.1	School of Bioscience and Technology
899	<i>Lachnellula subtilissima</i>	Leotio	Asco	41	42	16	36	135	GCA_007821545.1	Canadian Food Inspection Agency (CFIA)
900	<i>Sclerotium cepivorum</i>	0	Asco	39	44	18	34	135	GCA_002162485.1	University of Toronto Mississauga
901	<i>Myriosclerotinia duriaeana</i>	Leotio	Asco	40	41	18	36	135	GCA_002162615.1	University of Toronto Mississauga
902	<i>Stropharia rugosoannulata</i>	Agarico	Basidio	44	12	17	62	135	GCA_003314255.1	Kunming University of Science and Technology
903	<i>Leucoagaricus sp. SymC.cos</i>	Agarico	Basidio	37	15	21	62	135	GCA_001563735.1	BGI
904	<i>Phlebia tremellosa</i>	Agarico	Basidio	44	11	23	56	134	GCA_011032875.1	Ningxia University
905	<i>Pleurotus tuber-regium</i>	Agarico	Basidio	45	14	14	61	134	GCA_014058305.1	Huazhong Agricultural University
906	<i>Talaromyces islandicus</i>	Eurotio	Asco	32	46	24	31	133	GCA_000985935.1	CEBITEC

907	<i>Cercospora kikuchii</i>	Dothideo	Asco	38	34	22	39	133	GCA_009193115.1	School of Agriculture of the University of Buenos Aires
908	<i>Cercospora cf. flagellaris</i>	Dothideo	Asco	39	34	22	38	133	GCA_005356885.1	University of Arkansas
909	<i>Venturia nashicola</i>	Dothideo	Asco	30	48	15	40	133	GCA_004522665.1	POSTECH
910	<i>Penicillium polonicum</i>	Eurotio	Asco	42	44	17	30	133	GCA_013466175.1	National Institute of Agricultural Sciences, RDA
911	<i>Aspergillus sclerotiorum</i>	Eurotio	Asco	41	42	20	30	133	GCA_000530345.1	SVSB
912	<i>Ciboria shiraiana</i>	Leotio	Asco	37	46	20	30	133	GCA_008122225.1	Southwest University
913	<i>Aspergillus ibericus</i>	Eurotio	Asco	34	56	11	32	133	GCA_003184845.1	DOE Joint Genome Institute
914	<i>Myriosclerotinia scirpicola</i>	Leotio	Asco	39	41	16	37	133	GCA_002162505.1	University of Toronto
915	<i>Pholiota adiposa</i>	Agarico	Basidio	46	11	20	56	133	GCA_009935795.1	Mississauga Dezhou University
916	<i>Trichoderma virens</i>	Sordario	Asco	42	28	36	26	132	GCA_001835465.1	Bhabha Atomic Research Centre
917	<i>Cercospora canescens</i>	Dothideo	Asco	37	36	19	40	132	GCA_000347735.1	Banaras Hindu University
918	<i>Cercospora nicotianae</i>	Dothideo	Asco	38	34	22	38	132	GCA_002994015.1	VIB
919	<i>Penicillium camemberti</i>	Eurotio	Asco	40	46	16	30	132	GCA_000513335.1	INRA-LIPM
920	<i>Lachnellula hyalina</i>	Leotio	Asco	41	43	12	36	132	GCA_007821495.1	Canadian Food Inspection Agency (CFIA)
921	<i>Neurospora sp. FGSC 26632</i>	Sordario	Asco	38	24	36	34	132	GCA_009804965.1	University of California, Berkeley
922	<i>Neurospora cerealis</i>	Sordario	Asco	41	22	33	36	132	GCA_009806135.1	University of California, Berkeley
923	<i>Hypholoma sublateritium</i>	Agarico	Basidio	38	15	19	60	132	GCA_000827495.1	JGI
924	<i>Cercospora citrullina</i>	Dothideo	Asco	38	34	22	37	131	GCA_013365195.1	Banaras Hindu University
925	<i>Penicillium vulpinum</i>	Eurotio	Asco	42	37	15	37	131	GCA_002072255.1	Chalmers University of Technology
926	<i>Neurospora sp. FGSC 26635</i>	Sordario	Asco	36	24	36	35	131	GCA_009804975.1	University of California, Berkeley
927	<i>Sclerotinia sclerotiorum</i>	Leotio	Asco	36	45	20	30	131	GCA_001857865.1	Curtin University
928	<i>Trametes cinnabarina</i>	Agarico	Basidio	40	16	24	51	131	GCA_000787515.1	Aalborg University
929	<i>Sordaria macrospora</i>	Sordario	Asco	40	20	34	36	130	GCA_008692325.1	Ruhr-University Bochum
930	<i>Ascocoryne sarcoides</i>	Leotio	Asco	44	45	20	21	130	GCA_000328965.1	Yale University
931	<i>Tricholomella constricta</i>	Agarico	Basidio	36	26	16	52	130	GCA_013368375.1	Lund University
932	<i>Ploettnerulaceae sp. D365</i>	Leotio	Asco	41	38	18	33	130	GCA_003988805.1	Manaaki Whenua Landcare Research
933	<i>Dactylella cylindrospora</i>	Orbilio	Asco	40	44	20	26	130	GCA_012184295.1	Laboratory for Conservation and Utilization of Bio-Resources and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
934	<i>Coprinosopsis marcescibilis</i>	Agarico	Basidio	38	7	27	58	130	GCA_004369085.1	DOE Joint Genome Institute
935	<i>Rhizophlyctis rosea</i>	Chytridio	Chytridio	39	25	42	24	130	GCA_002214945.1	DTU

936	<i>Penicillium sp. BW_MB</i>	Eurotio	Asco	38	42	21	28	129	GCA_008931935.1	Tufts University
937	<i>Penicillium freii</i>	Eurotio	Asco	37	44	20	28	129	GCA_001513925.1	Agriculture and Agri-Food Canada
938	<i>Neurospora terricola</i>	Sordario	Asco	39	22	34	34	129	GCA_009805285.1	University of California, Berkeley
939	<i>Neurospora sp. CHS-2018c</i>	Sordario	Asco	38	21	34	36	129	GCA_009806235.1	University of California, Berkeley
940	<i>Trametes coccinea</i>	Agarico	Basidio	38	18	23	50	129	GCA_002092935.1	DOE Joint Genome Institute
941	<i>Cercospora berteroae</i>	Dothideo	Asco	38	33	20	37	128	GCA_002933655.1	VIB
942	<i>Venturia asperata</i>	Dothideo	Asco	30	44	14	40	128	GCA_003689065.1	INRA
943	<i>Neurospora sp. FGSC 26631</i>	Sordario	Asco	37	23	33	35	128	GCA_009805105.1	University of California, Berkeley
944	<i>Venturia carpophila</i>	Dothideo	Asco	35	44	11	38	128	GCA_001990985.1	USDA-ARS
945	<i>Neurospora sp. FGSC 26628</i>	Sordario	Asco	39	22	30	37	128	GCA_009805345.1	University of California, Berkeley
946	<i>Neurospora sp. FGSC 26638</i>	Sordario	Asco	36	23	34	35	128	GCA_009804825.1	University of California, Berkeley
947	<i>Ampelomyces quisqualis</i>	Dothideo	Asco	39	34	25	30	128	GCA_010094095.1	DOE Joint Genome Institute
948	<i>Sphaceloma murrayae</i>	Dothideo	Asco	34	46	21	27	128	GCA_002895985.1	Nanjing Forestry University
949	<i>Volvariella volvacea</i>	Agarico	Basidio	45	17	26	40	128	GCA_001691835.3	Harvard University
950	<i>Neurospora sp. FGSC 26637</i>	Sordario	Asco	37	21	34	35	127	GCA_009804845.1	University of California, Berkeley
951	<i>Neurospora sp. FGSC 26636</i>	Sordario	Asco	37	23	32	35	127	GCA_009804955.1	University of California, Berkeley
952	<i>Sclerotinia borealis</i>	Leotio	Asco	38	45	12	32	127	GCA_000503235.1	Centre Bioengineering RAS
953	<i>Venturia effusa</i>	Dothideo	Asco	32	42	13	40	127	GCA_001901625.1	USDA-ARS
954	<i>Sclerotinia glacialis</i>	Leotio	Asco	37	43	17	30	127	GCA_002162575.1	University of Toronto Mississauga
955	<i>Neurospora sp. CHS-2018a</i>	Sordario	Asco	38	20	34	35	127	GCA_009802375.1	University of California, Berkeley
956	<i>Westerdykella ornata</i>	Dothideo	Asco	40	21	33	33	127	GCA_010094085.1	DOE Joint Genome Institute
957	<i>Arthrobotrys oligospora</i>	Orbilio	Asco	40	42	22	23	127	GCA_004768765.1	Academia Sinica
958	<i>Hypsizygus marmoreus</i>	Agarico	Basidio	40	17	14	56	127	GCA_013433165.1	Fujian Agriculture and Forestry University
959	<i>Tothia fuscella</i>	Dothideo	Asco	34	36	14	42	126	GCA_010583015.1	DOE Joint Genome Institute
960	<i>Penicillium sp. MA 6040</i>	Eurotio	Asco	38	42	16	30	126	GCA_003138025.1	University of Natural Resources and Life Sciences, Vienna
961	<i>Penicillium chrysogenum</i>	Eurotio	Asco	38	42	16	30	126	GCA_000710275.1	Ruhr-Universitaet Bochum
962	<i>Penicillium rubens</i>	Eurotio	Asco	38	42	16	30	126	GCA_902636305.1	IMPERIAL COLLEGE LONDON
963	<i>Neurospora sp. LNF1-2</i>	Sordario	Asco	35	23	33	35	126	GCA_009805125.1	University of California, Berkeley
964	<i>Neurospora sp. FGSC 26633</i>	Sordario	Asco	36	23	33	34	126	GCA_009804945.1	University of California, Berkeley

965	<i>Neurospora sp. FGSC 26623</i>	Sordario	Asco	37	24	31	34	126	GCA_009805935.1	University of California, Berkeley
966	<i>Heterobasidion parviporum</i>	Agarico	Basidio	36	22	12	56	126	GCA_002994785.1	University of Helsinki
967	<i>Neurospora sp. FGSC 26629</i>	Sordario	Asco	35	23	33	34	125	GCA_009805155.1	University of California, Berkeley
968	<i>Neurospora sp. LNF1-1</i>	Sordario	Asco	35	23	33	34	125	GCA_009805225.1	University of California, Berkeley
969	<i>Neurospora sp. FGSC 26630</i>	Sordario	Asco	35	23	33	34	125	GCA_009805085.1	University of California, Berkeley
970	<i>Neurospora sp. FGSC 26627</i>	Sordario	Asco	35	23	33	34	125	GCA_009805365.1	University of California, Berkeley
971	<i>Neurospora sp. FGSC 26634</i>	Sordario	Asco	37	22	30	36	125	GCA_009804985.1	University of California, Berkeley
972	<i>Neurospora sp. FGSC 26625</i>	Sordario	Asco	38	22	30	35	125	GCA_009805435.1	University of California, Berkeley
973	<i>Neurospora africana</i>	Sordario	Asco	36	21	34	34	125	GCA_000604205.2	EBC
974	<i>Lyophyllum shimeji</i>	Agarico	Basidio	34	16	14	61	125	GCA_001950515.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
975	<i>Sporormia fimetaria</i>	Dothideo	Asco	40	14	37	34	125	GCA_010093795.1	DOE Joint Genome Institute
976	<i>Fragosphaeria purpurea</i>	Sordario	Asco	38	22	32	32	124	GCA_002778095.1	University of Montana
977	<i>Penicillium sp. HKF2</i>	Eurotio	Asco	38	40	16	30	124	GCA_002000375.1	CSIR-NEERI
978	<i>Penicillium verrucosum</i>	Eurotio	Asco	40	42	16	26	124	GCA_000970515.2	Max Rubner-Institut
979	<i>Ramularia coccinea</i>	Dothideo	Asco	41	22	35	26	124	GCA_013461505.1	Yancheng Institute of Technology
980	<i>Sporothrix globosa</i>	Sordario	Asco	35	31	28	30	124	GCA_001630435.1	University of Messina
981	<i>Neurospora sp. CHS-2018b</i>	Sordario	Asco	36	19	34	35	124	GCA_009806015.1	University of California, Berkeley
982	<i>Monilinia fructigena</i>	Leotio	Asco	34	46	14	30	124	GCA_003260565.1	Rita Milvia De Miccolis
983	<i>Macrocybe gigantea</i>	Agarico	Basidio	36	20	14	54	124	GCA_011319805.1	Angelini's shared submissions
984	<i>Amorphotheca resiniae</i>	Leotio	Asco	25	39	14	45	123	GCA_001270345.1	Yunnan Agricultural University
985	<i>Sporothrix insectorum</i>	Sordario	Asco	37	21	32	33	123	GCA_001636815.1	East China University of Science and Technology
986	<i>Pseudocercospora musae</i>	Dothideo	Asco	34	39	16	34	123	GCA_001578225.1	Shanghai Institutes for Biological Sciences, CAS
987	<i>Trichothecium roseum</i>	Sordario	Asco	37	36	26	24	123	GCA_003012185.1	University of California Davis
988	<i>Penicillium nordicum</i>	Eurotio	Asco	40	42	16	25	123	GCA_001278595.1	USDA, ARS, NCAUR
989	<i>Penicillium coprophilum</i>	Eurotio	Asco	41	32	18	32	123	GCA_002072405.1	Agriculture and Agri-Food Canada
990	<i>Sporothrix schenckii</i>	Sordario	Asco	38	27	28	30	123	GCA_000961545.1	Chalmers University of Technology
991	<i>Agaricales sp. HM26-F1</i>	Agarico	Basidio	31	26	16	50	123	GCA_002718315.1	LNCC
										Shanghai Academy of Agricultural Sciences

992	<i>Polytolypa hystricis</i>	Eurotio	Asco	41	24	32	26	123	GCA_002573605.1	Broad Institute
993	<i>Lachnellula occidentalis</i>	Leotio	Asco	38	36	14	34	122	GCA_007821535.1	Canadian Food Inspection Agency (CFIA)
994	<i>Neurospora sp. FGSC 26626</i>	Sordario	Asco	37	22	28	35	122	GCA_009805385.1	University of California, Berkeley
995	<i>Pseudovirgaria hyperparasitica</i>	Dothideo	Asco	28	36	24	34	122	GCA_010093815.1	DOE Joint Genome Institute Laboratory for Conservation and Utilization of Bio-Resources and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
996	<i>Arthrobotrys entomopaga</i>	Orbilio	Asco	42	30	25	25	122	GCA_012184315.1	University of Toronto Mississauga
997	<i>Myriosclerotinia curreyana</i>	Leotio	Asco	38	36	18	30	122	GCA_002162495.1	Institute for Applied Biosciences
998	<i>Arthrobotrys flagrans</i>	Orbilio	Asco	36	42	20	24	122	GCA_004000055.1	University of California, Berkeley
999	<i>Neurospora sp. FGSC 26624</i>	Sordario	Asco	35	22	30	34	121	GCA_009805485.1	DOE Joint Genome Institute
1000	<i>Lophium mytilinum</i>	Dothideo	Asco	44	20	15	42	121	GCA_010093605.1	Institute of Bast Fiber Crops, Chinese Academy of Agricultural Sciences
1001	<i>Hericium erinaceus</i>	Agarico	Basidio	42	15	16	48	121	GCA_006506795.2	Canada's Michael Smith Genome Sciences Centre
1002	<i>Nothophaeocryptopus gaeumannii</i>	Dothideo	Asco	37	34	8	41	120	GCA_002116385.1	INAIL-Research Area
1003	<i>Penicillium sp. CF05</i>	Eurotio	Asco	34	44	15	27	120	GCA_002916455.1	Shandong Agricultural University
1004	<i>Talaromyces funiculosus</i>	Eurotio	Asco	29	36	28	27	120	GCA_004299765.1	University of Turin
1005	<i>Penicillium griseofulvum</i>	Eurotio	Asco	40	33	19	28	120	GCA_001561935.1	University of Florida
1006	<i>Raffaelea lauricola</i>	Sordario	Asco	40	28	22	30	120	GCA_014183025.1	LNCC
1007	<i>Sporothrix brasiliensis</i>	Sordario	Asco	37	26	28	29	120	GCA_000820605.1	Korea University
1008	<i>Dentipellis sp. KUC8613</i>	Agarico	Basidio	41	17	16	46	120	GCA_002286715.1	EBC
1009	<i>Neurospora sublineolata</i>	Sordario	Asco	33	22	33	32	120	GCA_000604185.2	Nanyang Technological University
1010	<i>Penicillium oxalicum</i>	Eurotio	Asco	32	47	26	15	120	GCA_005546515.1	DOE Joint Genome Institute JGI
1011	<i>Phlebiopsis gigantea</i>	Agarico	Basidio	37	21	17	45	120	GCA_000832265.1	Canada's Michael Smith Genome Sciences Centre
1012	<i>Heterobasidion irregulare</i>	Agarico	Basidio	34	23	11	52	120	GCA_000320585.2	University of California Davis
1013	<i>Ramularia endophylla</i>	Dothideo	Asco	38	38	13	30	119	GCA_002116395.1	University of California, Berkeley
1014	<i>Pseudocercospora eumusae</i>	Dothideo	Asco	32	42	16	29	119	GCA_001578235.1	Citrus Research and Education Center, University of Florida
1015	<i>Neurospora tetraspora</i>	Sordario	Asco	34	23	30	32	119	GCA_009806155.1	Seoul National University
1016	<i>Phyllosticta capitalensis</i>	Dothideo	Asco	32	38	10	39	119	GCA_001604925.1	
1017	<i>Heterobasidion annosum</i>	Agarico	Basidio	32	24	10	53	119	GCA_000633895.1	

1018	<i>Claviceps aff. purpurea</i>	Sordario	Asco	18	58	28	14	118	GCA_004016085.1	Agriculture and Agri-Food Canada
1019	<i>Penicillium nalgiovense</i>	Eurotio	Asco	34	43	15	26	118	GCA_000577395.2	INRA-LIPM
1020	<i>Hyphodiscus sp. D1413</i>	Leotio	Asco	34	34	20	30	118	GCA_003988895.1	Manaaki Whenua Landcare Research
1021	<i>Trichocladium griseum</i>	Sordario	Asco	39	17	35	27	118	GCA_011316235.1	Embrapa Agroenergia
1022	<i>Cercospora soja</i>	Dothideo	Asco	33	32	20	32	117	GCA_002534735.1	Chinese Academy of Sciences
1023	<i>Gelatoporia subvermispora</i>	Agarico	Basidio	31	14	26	46	117	GCA_000320605.2	DOE Joint Genome Institute
1024	<i>Macrocystidia cucumis</i>	Agarico	Basidio	36	12	13	56	117	GCA_001179725.1	Royal Botanic Gardens, Kew
1025	<i>Aspergillus saccharolyticus</i>	Eurotio	Asco	32	45	13	26	116	GCA_003184585.1	DOE Joint Genome Institute
1026	<i>Cyanoderma asteris</i>	Lecanoro	Asco	34	34	18	30	116	GCA_900618795.1	CEBITEC
1027	<i>Gloeostereum incarnatum</i>	Agarico	Basidio	37	18	16	45	116	GCA_010588315.1	Jilin Agricultural University
1028	<i>Hericium alpestre</i>	Agarico	Basidio	40	16	18	42	116	GCA_004681135.1	IHI Zittau / TU Dresden
1029	<i>Leucocalocybe mongolica</i>	Agarico	Basidio	34	22	16	44	116	GCA_013420905.1	Jilin Agricultural University
1030	<i>Trichoderma sp. IMV 00454</i>	Sordario	Asco	38	22	33	22	115	GCA_001931985.1	Jet Propulsion Laboratory, California Institute of Technology
1031	<i>Talaromyces stipitatus</i>	Eurotio	Asco	28	31	27	29	115	GCA_000003125.1	J. Craig Venter Institute
1032	<i>Dentipellis fragilis</i>	Agarico	Basidio	40	16	16	43	115	GCA_004679275.1	IHI Zittau / TU Dresden
1033	<i>Morchella sp. a71</i>	Pezizo	Asco	39	41	15	20	115	GCA_013407065.1	Chongqing Normal University
1034	<i>Raffaelea arxii</i>	Sordario	Asco	37	26	14	36	113	GCA_002778165.1	University of Montana
1035	<i>Teratosphaeria zuluensis</i>	Dothideo	Asco	30	35	13	35	113	GCA_007113905.1	University of Pretoria
1036	<i>Sistotremastrum suecicum</i>	Agarico	Basidio	38	3	18	54	113	GCA_001632355.1	DOE Joint Genome Institute
1037	<i>Trichoderma hamatum</i>	Sordario	Asco	34	30	28	20	112	GCA_000331835.2	University of Exeter
1038	<i>Trichoderma guizhouense</i>	Sordario	Asco	37	22	32	21	112	GCA_002022785.1	Nanjing Agricultural University
1039	<i>Coniophora puteana</i>	Agarico	Basidio	40	24	14	34	112	GCA_000271625.1	DOE Joint Genome Institute
1040	<i>Acidomyces sp. 'richmondensis'</i>	Dothideo	Asco	25	46	20	21	112	GCA_003545705.1	University of Massachusetts
1041	<i>Aspergillus heteromorphus</i>	Eurotio	Asco	31	44	12	25	112	GCA_003184545.1	DOE Joint Genome Institute
1042	<i>Microcyclosporella mali</i>	Dothideo	Asco	30	30	20	32	112	GCA_002785985.1	Northwest A&F University
1043	<i>Bondarzewia mesenterica</i>	Agarico	Basidio	40	10	10	52	112	GCA_004802705.1	IHI Zittau / TU Dresden
1044	<i>Phyllosticta citricarpa</i>	Dothideo	Asco	29	36	10	36	111	GCA_000382785.1	Zhejiang university
1045	<i>Serendipita indica</i>	Agarico	Basidio	28	19	36	28	111	GCA_000313545.1	Institute of Bioinformatics and Systems Biology, Helmholtz Zentrum München, Neuherberg, Germany
1046	<i>Trichoderma atrobrunneum</i>	Sordario	Asco	37	22	30	21	110	GCA_003439915.1	Institute of Sciences of Food Production (ISPA)
1047	<i>Trichoderma lentiforme</i>	Sordario	Asco	37	20	32	21	110	GCA_011066345.1	Embrapa Agroenergia
1048	<i>Mycosphaerella arachidis</i>	Dothideo	Asco	30	34	14	32	110	GCA_001297265.1	USDA
1049	<i>Cladophialophora immunda</i>	Eurotio	Asco	28	15	15	52	110	GCA_000835495.1	Broad Institute
1050	<i>Hydnomerulius pinastri</i>	Agarico	Basidio	44	18	14	34	110	GCA_000827185.1	DOE Joint Genome Institute
1051	<i>Dothistroma pini</i>	Dothideo	Asco	31	30	16	32	109	GCA_002116355.1	Canada's Michael Smith Genome Sciences Centre

1052	<i>Saitozyma sp. JCM 24511</i>	Tremello	Basidio	27	48	18	16	109	GCA_001600855.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1053	<i>Saitozyma podzolica</i>	Tremello	Basidio	28	46	17	18	109	GCA_003942215.1	Karlsruhe Institute of Technology
1054	<i>Porodaedalea pini</i>	Agarico	Basidio	26	22	14	47	109	GCA_002794775.1	Academia Sinica
1055	<i>Obba rivulosa</i>	Agarico	Basidio	30	12	23	44	109	GCA_001687445.1	DOE Joint Genome Institute
1056	<i>Grifola frondosa</i>	Agarico	Basidio	30	13	14	52	109	GCA_001683735.1	Korea University
1057	<i>Psilocybe cyanescens</i>	Agarico	Basidio	32	8	22	47	109	GCA_002938375.1	Ohio State University
1058	<i>Rickenella mellea</i>	Agarico	Basidio	29	23	2	55	109	GCA_004355085.1	DOE Joint Genome Institute
1059	<i>Penicillium sp. OUCMDZ-019</i>	Eurotio	Asco	32	33	14	29	108	GCA_011750695.1	ocean university of China
1060	<i>Mycosphaerella populi</i>	Dothideo	Asco	28	37	13	30	108	GCA_002153405.1	Canada's Michael Smith Genome Sciences Centre
1061	<i>Acremonium chrysogenum</i>	Sordario	Asco	38	24	25	21	108	GCA_000769265.1	Ruhr-Universitaet Bochum
1062	<i>Pseudonectria buxi</i>	Sordario	Asco	34	44	12	18	108	GCA_003693545.1	USDA-ARS
1063	<i>Marssonina coronariae</i>	Leotio	Asco	25	43	11	29	108	GCA_002204255.1	Nanjing Forestry University
1064	<i>Phyllosticta citriasiana</i>	Dothideo	Asco	29	34	10	35	108	GCA_009193405.1	Zhejiang University
1065	<i>Collybia sp. MG36</i>	Agarico	Basidio	35	14	8	51	108	GCA_003313185.1	Kunming University of Science and Technology
1066	<i>Cercospora zae-maydis</i>	Dothideo	Asco	32	26	18	31	107	GCA_010093985.1	JGI
1067	<i>Teratosphaeria gauchensis</i>	Dothideo	Asco	29	36	12	30	107	GCA_007113925.1	University of Pretoria
1068	<i>Marssonina rosae</i>	Leotio	Asco	25	42	10	30	107	GCA_011750715.1	Nanjing Forestry University
1069	<i>Botryobasidium botryosum</i>	Agarico	Basidio	42	9	25	30	106	GCA_000697705.1	JGI
1070	<i>Pseudonectria foliicola</i>	Sordario	Asco	32	46	12	16	106	GCA_002911195.1	USDA
1071	<i>Coprinopsis strossmayeri</i>	Agarico	Basidio	34	6	26	40	106	GCA_900156845.1	UNIVERSITY OF BRISTOL
1072	<i>Trichoderma harzianum</i>	Sordario	Asco	36	19	30	20	105	GCA_010015525.1	The University of Adelaide
1073	<i>Talaromyces borbonicus</i>	Eurotio	Asco	22	40	29	14	105	GCA_002916415.1	University of Naples "Federico II"
1074	<i>Aspergillus sclerotialis</i>	Eurotio	Asco	35	30	16	24	105	GCA_003589665.1	University of Natural Resources and Life Sciences, Vienna
1075	<i>Byssoschlamys sp. AF001</i>	Eurotio	Asco	24	28	11	42	105	GCA_002914405.1	University of Oklahoma
1076	<i>Sodiomyces alkalinus</i>	Sordario	Asco	39	16	24	26	105	GCA_003711515.1	DOE Joint Genome Institute
1077	<i>Pluteus cervinus</i>	Agarico	Basidio	32	8	13	52	105	GCA_004369065.1	DOE Joint Genome Institute
1078	<i>Sistotremastrum niveocremeum</i>	Agarico	Basidio	34	3	18	50	105	GCA_001630475.1	DOE Joint Genome Institute
1079	<i>Trichoderma koningiopsis</i>	Sordario	Asco	30	25	29	20	104	GCA_002246955.1	INBIOMIS
1080	<i>Passalora sequoiae</i>	Dothideo	Asco	29	28	12	35	104	GCA_013248845.1	USDA
1081	<i>Cutaneotrichosporon mucooides</i>	Tremello	Basidio	27	26	20	31	104	GCA_003116955.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1082	<i>Schizopora paradoxa</i>	Agarico	Basidio	31	8	14	51	104	GCA_001020605.1	DOE Joint Genome Institute
1083	<i>Jaapia argillacea</i>	Agarico	Basidio	48	10	16	30	104	GCA_000697665.1	DOE Joint Genome Institute
1084	<i>Trichoderma gamsii</i>	Sordario	Asco	29	25	30	19	103	GCA_002894205.1	CSIRO
1085	<i>Cercospora zeina</i>	Dothideo	Asco	30	28	17	28	103	GCA_002844615.1	University of Pretoria

1086	<i>Chlorenchocelia torta</i>	Leotio	Asco	38	20	18	27	103	GCA_003988815.1	Manaaki Whenua Landcare Research
1087	<i>Delphinella strobiligena</i>	Dothideo	Asco	25	34	8	36	103	GCA_009982845.1	DOE Joint Genome Institute
1088	<i>Antrodiella citrinella</i>	Agarico	Basidio	33	10	20	40	103	GCA_004802725.1	IHI Zittau / TU Dresden
1089	<i>Trichothecium sympodiale</i>	Sordario	Asco	32	20	29	21	102	GCA_003012115.1	USDA, ARS, NCAUR
1090	<i>Aspergillus clavatus</i>	Eurotio	Asco	34	28	21	19	102	GCA_000002715.1	J. Craig Venter Institute
1091	<i>Rasamsonia emersonii</i>	Eurotio	Asco	28	32	16	26	102	GCA_000968595.1	DSM Bio-based Products & Services B.V.
1092	<i>Neurospora tetrasperma</i>	Sordario	Asco	29	22	25	26	102	GCA_000213195.1	US DOE Joint Genome Institute (JGI-PGF)
1093	<i>Aspergillus ochraceoroseus</i>	Eurotio	Asco	30	34	18	20	102	GCA_002846915.2	DOE Joint Genome Institute
1094	<i>Coccinonectria pachysandricola</i>	Sordario	Asco	30	42	10	20	102	GCA_013283235.1	USDA-ARS
1095	<i>Aspergillus chevalieri</i>	Eurotio	Asco	32	28	12	30	102	GCA_001599875.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1096	<i>Neurospora crassa</i>	Sordario	Asco	27	23	25	26	101	GCA_007478085.1	Ronin Genetics
1097	<i>Ochroconis constricta</i>	Dothideo	Asco	32	18	9	42	101	GCA_000611715.1	UNIVERSITY OF MALAYA
1098	<i>Thermoascaceae sp. COH1141</i>	Eurotio	Asco	26	25	12	38	101	GCA_003123655.1	Jet Propulsion Laboratory, California Institute of Technology
1099	<i>Aspergillus rambellii</i>	Eurotio	Asco	29	34	17	21	101	GCA_000986645.1	USDA-ARS-SRRC
1100	<i>Lineolata rhizophorae</i>	Dothideo	Asco	35	10	28	28	101	GCA_010093515.1	DOE Joint Genome Institute
1101	<i>Calcarisporium arbuscula</i>	Sordario	Asco	32	22	19	27	100	GCA_009828645.1	Zhejiang University
1102	<i>Trichoderma erinaceum</i>	Sordario	Asco	29	25	29	17	100	GCA_013365115.1	None
1103	<i>Ramularia collo-cygni</i>	Dothideo	Asco	36	20	16	28	100	GCA_900074925.1	Technische Universitat Munchen - WZW
1104	<i>Talaromyces marneffeii</i>	Eurotio	Asco	24	28	18	30	100	GCA_009650675.1	Broad Institute
1105	<i>Drechslerella brochopaga</i>	Orbilio	Asco	31	32	16	21	100	GCA_012184305.1	Laboratory for Conservation and Utilization of Bio-Resources and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
1106	<i>Gymnopus luxurians</i>	Agarico	Basidio	30	22	14	34	100	GCA_000827265.1	DOE JGI
1107	<i>Trichoderma atroviride</i>	Sordario	Asco	28	26	29	16	99	GCA_001599035.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1108	<i>[Talaromyces] leycettanus</i>	Eurotio	Asco	28	32	23	16	99	GCA_000787455.1	none
1109	<i>Trichothecium ovalisporum</i>	Sordario	Asco	33	17	29	20	99	GCA_003012195.1	USDA, ARS, NCAUR
1110	<i>Saccharata proteae</i>	Dothideo	Asco	30	28	10	31	99	GCA_010015785.1	DOE Joint Genome Institute
1111	<i>Fomitiporia mediterranea</i>	Agarico	Basidio	30	13	10	46	99	GCA_000271605.1	JGI
1112	<i>Trichoderma viride</i>	Sordario	Asco	31	18	30	19	98	GCA_007896495.1	Institute of Biology, Shnaodong Academy of Science, China
1113	<i>Trichoderma asperellum</i>	Sordario	Asco	30	22	28	18	98	GCA_013423425.1	Chubu university

1114	<i>Cantharellus appalachiensis</i>	Agarico	Basidio	27	24	29	18	98	GCA_003314335.1	Kunming University of Science and Technology
1115	<i>Chlorociboria aeruginascens</i>	Leotio	Asco	32	19	20	27	98	GCA_002276475.2	IHI Zittau / TU Dresden
1116	<i>Heliocybe sulcata</i>	Agarico	Basidio	30	20	18	30	98	GCA_004369045.1	DOE Joint Genome Institute
1117	<i>Aspergillus tritici</i>	Eurotio	Asco	34	24	16	24	98	GCA_009812425.1	Universidad de Antioquia
1118	<i>Dothiostroma septosporum</i>	Dothideo	Asco	28	21	14	34	97	GCA_002236755.2	Massey University
1119	<i>Neurospora discreta</i>	Sordario	Asco	27	21	23	26	97	GCA_009805215.1	University of California, Berkeley
1120	<i>Blumeriella jaapii</i>	Leotio	Asco	28	28	12	29	97	GCA_009599575.1	Michigan State University
1121	<i>Plicaturopsis crispa</i>	Agarico	Basidio	28	20	10	38	96	GCA_000827205.1	DOE Joint Genome Institute
1122	<i>Ophiostoma novo-ulmi</i>	Sordario	Asco	32	26	14	24	96	GCA_000317715.1	Association of Biomolecular Resource Facilities
1123	<i>Coniferiporia sulphurascens</i>	Agarico	Basidio	26	14	12	44	96	GCA_002794785.1	Biodiversity Research Center, Academia Sinica
1124	<i>Pochonia chlamydosporia</i>	Sordario	Asco	30	22	16	27	95	GCA_001653235.2	The Institute of Vegetables and Flowers CAAS
1125	<i>Cryomyces minteri</i>	Dothideo	Asco	22	9	12	52	95	GCA_005059845.1	University of California, Riverside
1126	<i>Fomitopsis palustris</i>	Agarico	Basidio	23	30	18	24	95	GCA_001937815.1	National Institute of Forest Science
1127	<i>Byssochlamys nivea</i>	Eurotio	Asco	25	26	11	33	95	GCA_003116535.1	Cornell University
1128	<i>Aspergillus campestris</i>	Eurotio	Asco	30	25	18	22	95	GCA_002847485.1	DOE Joint Genome Institute
1129	<i>Aulographum hederæ</i>	Dothideo	Asco	22	26	14	32	94	GCA_010015705.1	DOE Joint Genome Institute
1130	<i>Penicillium italicum</i>	Eurotio	Asco	34	27	9	24	94	GCA_000769765.1	Center for Genomic Regulation (CRG)
1131	<i>Pseudophaeomoniella oleicola</i>	Eurotio	Asco	25	38	11	20	94	GCA_003868215.1	University of Bari "A. Moro"
1132	<i>Hortaea thailandica</i>	Dothideo	Asco	26	32	12	24	94	GCA_005059885.1	University of California, Riverside
1133	<i>Aspergillus taichungensis</i>	Eurotio	Asco	30	25	17	22	94	GCA_002850765.1	DOE Joint Genome Institute
1134	<i>Aspergillus coremiiformis</i>	Eurotio	Asco	27	38	10	19	94	GCA_009193565.1	DOE Joint Genome Institute
1135	<i>Chaetomium thermophilum</i>	Sordario	Asco	34	14	26	20	94	GCA_000221225.1	EMBL
1136	<i>Sarcomyxa edulis</i>	Agarico	Basidio	24	16	14	40	94	GCA_009761415.1	Engineering Research Center of Chinese Ministry of Education for Edible and Medicinal Fungi
1137	<i>Clitocybe nebularis</i>	Agarico	Basidio	28	16	12	38	94	GCA_900068955.1	Royal Botanic Gardens, Kew
1138	<i>Fomitopsis pinicola</i>	Agarico	Basidio	24	27	16	26	93	GCA_000344655.2	DOE Joint Genome Institute
1139	<i>Aspergillus cristatus</i>	Eurotio	Asco	28	24	11	30	93	GCA_001693355.1	Shandong Freda Pharmaceutical Group Corporation
1140	<i>Gymnopus confluens</i>	Agarico	Basidio	25	12	10	46	93	GCA_013368555.1	Lund University
1141	<i>Talaromyces atroroseus</i>	Eurotio	Asco	26	30	13	23	92	GCA_001907595.1	Technical University of Denmark
1142	<i>Talaromyces piceae</i>	Eurotio	Asco	22	32	18	20	92	GCA_001657655.1	Tianjin Institute of Biotechnology, CAS

1143	<i>Amesia nigricolor</i>	Sordario	Asco	30	20	20	22	92	GCA_004802645.1	Qingdao University
1144	<i>Teratosphaeria nubilosa</i>	Dothideo	Asco	23	33	11	25	92	GCA_010093825.1	DOE Joint Genome Institute
1145	<i>Penicillium digitatum</i>	Eurotio	Asco	30	32	10	20	92	GCA_012295545.1	Huazhong Agricultural University
1146	<i>Gloeophyllum trabeum</i>	Agarico	Basidio	26	24	16	26	92	GCA_000344685.1	JGI
1147	<i>Pholiota microspora</i>	Agarico	Basidio	29	10	11	42	92	GCA_003314615.1	Kunming University of Science and Technology
1148	<i>Lecanicillium fungicola</i>	Sordario	Asco	34	12	5	40	91	GCA_900169235.1	UNIVERSITY OF BRISTOL
1149	<i>Mytilinidion resinicola</i>	Dothideo	Asco	27	14	10	40	91	GCA_010093595.1	DOE Joint Genome Institute
1150	<i>Penicillium carneum</i>	Eurotio	Asco	32	25	8	26	91	GCA_000577495.1	INRA-LIPM
1151	<i>Cyphellophora europaea</i>	Eurotio	Asco	28	10	18	35	91	GCA_000365145.2	Broad Institute
1152	<i>Ophiostoma piceae</i>	Sordario	Asco	30	26	13	22	91	GCA_000410735.1	University of British Columbia
1153	<i>Choiromyces venosus</i>	Pezizo	Asco	29	30	10	22	91	GCA_003788595.2	DOE Joint Genome Institute
1154	<i>Aspergillus glaucus</i>	Eurotio	Asco	28	28	8	27	91	GCA_001890805.1	DOE Joint Genome Institute
1155	<i>Teratosphaeria pseudoeucalypti</i>	Dothideo	Asco	22	32	10	26	90	GCA_013403795.1	University of Pretoria
1156	<i>Penicillium roqueforti</i>	Eurotio	Asco	30	25	10	25	90	GCA_001599855.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1157	<i>Zymoseptoria pseudotritici</i>	Dothideo	Asco	30	24	16	20	90	GCA_000223685.2	University of Aarhus, Bioinformatics Research Center
1158	<i>Athelia rolfsii</i>	Agarico	Basidio	20	32	18	20	90	GCA_002940785.1	Southwest University
1159	<i>Termitomyces sp. MG145</i>	Agarico	Basidio	26	9	20	35	90	GCA_003313055.1	Kunming University of Science and Technology
1160	<i>Podosphaera xanthii</i>	Leotio	Asco	24	21	8	36	89	GCA_010015925.1	National Academy of Agricultural Science, Rural Development Administration
1161	<i>Dicyma pulvinata</i>	Sordario	Asco	26	30	13	20	89	GCA_006538405.1	National Agriculture and Food Research Organization
1162	<i>Lecanosticta acicola</i>	Dothideo	Asco	24	21	12	32	89	GCA_002441625.1	Mississippi State University
1163	<i>Zymoseptoria tritici</i>	Dothideo	Asco	30	23	14	22	89	GCA_900184105.1	ETH
1164	<i>Teratosphaeria destructans</i>	Dothideo	Asco	23	31	11	24	89	GCA_010367415.1	Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
1165	<i>Zymoseptoria brevis</i>	Dothideo	Asco	30	24	15	20	89	GCA_000966595.1	Christian-Albrechts University of Kiel
1166	<i>Penicillium zonata</i>	Eurotio	Asco	24	34	10	21	89	GCA_001890105.1	DOE Joint Genome Institute
1167	<i>Penicillium paneum</i>	Eurotio	Asco	30	24	10	24	88	GCA_000577715.1	INRA-LIPM
1168	<i>Exophiala xenobiotica</i>	Eurotio	Asco	20	19	13	36	88	GCA_000835505.1	Broad Institute
1169	<i>Baudoinia panamericana</i>	Dothideo	Asco	25	20	19	24	88	GCA_000338955.1	JGI
1170	<i>Termitomyces sp. J132</i>	Agarico	Basidio	26	8	22	32	88	GCA_001263195.1	BGI
1171	<i>Termitomyces sp. MG148</i>	Agarico	Basidio	27	17	15	29	88	GCA_003313785.1	Kunming University of Science and Technology
1172	<i>Aspergillus tanneri</i>	Eurotio	Asco	30	22	4	31	87	GCA_003426965.1	JCVI

1173	<i>Cladosporiaceae sp. IMV 00236</i>	Dothideo	Asco	20	26	10	31	87	GCA_001931875.2	Jet Propulsion Laboratory, California Institute of Technology
1174	<i>Epichloe uncinata</i>	Sordario	Asco	26	15	16	29	86	GCA_001043855.1	University of Kentucky
1175	<i>Trichoderma arundinaceum</i>	Sordario	Asco	32	14	22	18	86	GCA_003012105.1	USDA, ARS, NCAUR
1176	<i>Epichloe glyceriae</i>	Sordario	Asco	18	30	24	14	86	GCA_000225285.2	University of Kentucky, Dept of Plant Pathology
1177	<i>Trichoderma pleuroti</i>	Sordario	Asco	33	14	20	19	86	GCA_001721665.1	University of Pecc
1178	<i>Zymoseptoria ardabiliae</i>	Dothideo	Asco	30	20	16	20	86	GCA_000223765.2	University of Aarhus, Bioinformatics Research Center
1179	<i>Exutisphaerella laricina</i>	Dothideo	Asco	26	20	14	26	86	GCA_000504385.2	Canada's Michael Smith Genome Sciences Centre
1180	<i>Phialophora attinorum</i>	Eurotio	Asco	27	12	16	31	86	GCA_001299255.1	CBS-KNAW Fungal Biodiversity Centre
1181	<i>Trichodelitschia bisporula</i>	Dothideo	Asco	21	28	10	27	86	GCA_010356995.1	DOE Joint Genome Institute
1182	<i>Phialophora verrucosa</i>	Eurotio	Asco	22	14	14	36	86	GCA_002099365.1	Peking University First Hospital
1183	<i>Periglandula ipomoeae</i>	Sordario	Asco	26	23	18	18	85	GCA_000222875.2	University of Kentucky, Dept of Plant Pathology
1184	<i>Exophiala oligosperma</i>	Eurotio	Asco	20	10	13	42	85	GCA_000835515.1	Broad Institute
1185	<i>Exophiala lecanii-corni</i>	Eurotio	Asco	28	20	9	28	85	GCA_003955835.1	Naval Research Laboratory CBS-KNAW Fungal Biodiversity Centre
1186	<i>Phlebia centrifuga</i>	Agarico	Basidio	26	7	14	38	85	GCA_001913855.2	Institute of the Royal Netherlands Academy of Arts and Science
1187	<i>Gymnopilus junonius</i>	Agarico	Basidio	26	3	14	42	85	GCA_900068935.1	Royal Botanic Gardens, Kew
1188	<i>Myriangium duriaei</i>	Dothideo	Asco	22	22	14	26	84	GCA_010093895.1	DOE Joint Genome Institute
1189	<i>Apiotrichum porosum</i>	Tremello	Basidio	22	32	12	18	84	GCA_003942205.1	Karlsruhe Institute of Technology
1190	<i>Termitomyces sp. JCM 13351</i>	Agarico	Basidio	24	10	20	30	84	GCA_001972325.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1191	<i>Trichoderma brevicompactum</i>	Sordario	Asco	32	11	22	18	83	GCA_003012085.1	USDA, ARS, NCAUR
1192	<i>Raffaelea quercivora</i>	Sordario	Asco	27	24	8	24	83	GCA_002778125.1	University of Montana
1193	<i>Raffaelea quercus-mongolicae</i>	Sordario	Asco	28	21	8	26	83	GCA_002215975.1	Seoul National University
1194	<i>Cenococcum geophilum</i>	Dothideo	Asco	27	14	10	32	83	GCA_001692895.1	DOE Joint Genome Institute
1195	<i>Fonsecaea multimorphosa</i>	Eurotio	Asco	23	10	12	38	83	GCA_000836435.1	Broad Institute
1196	<i>Termitomyces eurrhizus</i>	Agarico	Basidio	25	8	14	36	83	GCA_003316525.1	Kunming University of Science and Technology
1197	<i>Knoxdaviesia capensis</i>	Sordario	Asco	32	6	21	23	82	GCA_001510575.1	University of Stellenbosch
1198	<i>Simplicillium aogashimaense</i>	Sordario	Asco	26	16	13	26	81	GCA_012273805.1	AgResearch
1199	<i>Fomitopsis rosea</i>	Agarico	Basidio	24	18	14	25	81	GCA_004679265.1	IHI Zittau / TU Dresden
1200	<i>Mycosphaerella sp. Ston1</i>	Dothideo	Asco	22	26	7	26	81	GCA_000504405.2	Canada's Michael Smith Genome Sciences Centre

1201	<i>Fusarium ventricosum</i>	Sordario	Asco	24	24	10	23	81	GCA_013623725.1	US Department of Agriculture, Agriculture Research Service
1202	<i>Cladophialophora psammophila</i>	Eurotio	Asco	20	10	11	40	81	GCA_000585535.1	Broad Institute
1203	<i>Laetiporus sulphureus</i>	Agarico	Basidio	26	15	14	26	81	GCA_001632365.1	DOE Joint Genome Institute
1204	<i>Geosmithia putterillii</i>	Sordario	Asco	28	18	10	24	80	GCA_900188575.1	UNIVERSITY OF NEW HAMPSHIRE
1205	<i>Arthonia radiata</i>	Arthonio	Asco	22	23	18	17	80	GCA_002989075.1	Stanford University
1206	<i>Thielaviopsis ethacetica</i>	Sordario	Asco	27	18	18	17	80	GCA_001599055.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1207	<i>Sanghuangporus sanghuang</i>	Agarico	Basidio	26	5	8	41	80	GCA_009806525.1	Anhui Provincial Key Laboratory of Microbial Pest Control
1208	<i>Lepiota venenata</i>	Agarico	Basidio	25	8	9	38	80	GCA_004296355.1	Kunming Institute of Botany
1209	<i>Lecanicillium psalliotae</i>	Sordario	Asco	26	16	9	28	79	GCA_002796755.1	Western Sydney University
1210	<i>Aeminium ludgeri</i>	Dothideo	Asco	22	30	16	11	79	GCA_004216415.1	Centre for Functional Diversity
1211	<i>Grosmannia penicillata</i>	Sordario	Asco	23	26	8	22	79	GCA_002778075.1	University of Montana
1212	<i>Leptographium lundbergii</i>	Sordario	Asco	24	28	6	21	79	GCA_001455505.1	University of Pretoria
1213	<i>Megacollybia marginata</i>	Agarico	Basidio	26	8	9	36	79	GCA_003313965.1	Kunming University of Science and Technology
1214	<i>Purpureocillium lilacinum</i>	Sordario	Asco	23	16	12	27	78	GCA_001468795.1	The Energy and Resources Institute
1215	<i>Moniliella sp. 'wahieum'</i>	Moniliello	Basidio	18	12	0	48	78	GCA_003971905.1	Kyungpook National University
1216	<i>Trichoderma sp. TW21990_1</i>	Sordario	Asco	26	12	24	16	78	GCA_010015515.1	The University of Adelaide
1217	<i>Exophiala aquamarina</i>	Eurotio	Asco	24	12	8	34	78	GCA_000709125.1	Broad Institute
1218	<i>Apiotrichum akiyoshidainum</i>	Tremello	Basidio	22	15	18	23	78	GCA_002973495.1	PROIMI - CONICET
1219	<i>Phyllachora maydis</i>	Sordario	Asco	19	24	14	21	78	GCA_011801745.1	Purdue University, Botany and Plant Pathology
1220	<i>Knoxdaviesia proteae</i>	Sordario	Asco	30	8	19	21	78	GCA_001510565.1	University of Stellenbosch
1221	<i>Cantharellus cibarius</i>	Agarico	Basidio	18	26	22	11	77	GCA_003521295.1	Kunming University of Science and Technology
1222	<i>Trichoderma parareesei</i>	Sordario	Asco	24	12	24	17	77	GCA_001050175.1	Vienna University of Technology
1223	<i>Geosmithia flava</i>	Sordario	Asco	28	20	6	23	77	GCA_900188565.1	UNIVERSITY OF NEW HAMPSHIRE
1224	<i>Sphaerulina musiva</i>	Dothideo	Asco	21	27	6	23	77	GCA_000320565.2	JGI
1225	<i>Leptographium procerum</i>	Sordario	Asco	28	24	2	23	77	GCA_000806385.1	University of Pretoria
1226	<i>Mycosphaerella sp. PB-2012b</i>	Dothideo	Asco	21	25	7	23	76	GCA_002116345.1	Canada's Michael Smith Genome Sciences Centre
1227	<i>Zymoseptoria passerinii</i>	Dothideo	Asco	26	18	16	16	76	GCA_000223825.2	University of Aarhus, Bioinformatics Research Center
1228	<i>Apiotrichum laibachii</i>	Tremello	Basidio	20	18	18	20	76	GCA_001600735.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies

1229	<i>Grosmannia clavigera</i>	Sordario	Asco	26	24	4	22	76	GCA_000143105.2	Michael Smith Laboratories at UBC
1230	<i>Thielaviopsis euricoi</i>	Sordario	Asco	25	19	15	17	76	GCA_001599615.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1231	<i>Omphalotus olearius</i>	Agarico	Basidio	25	6	7	38	76	GCA_000296255.1	University of Minnesota
1232	<i>Trichoderma reesei</i>	Sordario	Asco	24	10	24	17	75	GCA_000167675.2	DOE Joint Genome Institute
1233	<i>Exophiala sideris</i>	Eurotio	Asco	20	16	11	28	75	GCA_000835395.1	Broad Institute
1234	<i>Sanghuangporus baumii</i>	Agarico	Basidio	22	8	10	35	75	GCA_001481415.2	China University of Petroleum
1235	<i>Aspergillus sp. HF37</i>	Eurotio	Asco	26	20	12	16	74	GCA_003698115.1	University of Natural Resources and Life Sciences, Vienna
1236	<i>Cladophialophora bantiana</i>	Eurotio	Asco	20	8	10	36	74	GCA_000835475.1	Broad Institute
1237	<i>Byssochlamys spectabilis</i>	Eurotio	Asco	16	20	10	28	74	GCA_003990805.1	Kweichow moutai Co.,Ltd.
1238	<i>Sphaerosporella brunnea</i>	Pezizo	Asco	23	19	12	20	74	GCA_008704415.1	DOE Joint Genome Institute
1239	<i>Infundibulicybe gibba</i>	Agarico	Basidio	25	8	5	36	74	GCA_900068925.1	Royal Botanic Gardens, Kew
1240	<i>Tolypocladium sp. Sup5 PDA-1</i>	Sordario	Asco	26	12	8	27	73	GCA_000750105.3	OMRF
1241	<i>Trichoderma longibrachiatum</i>	Sordario	Asco	23	10	24	16	73	GCA_000332775.1	Shandong University
1242	<i>Trichoderma koningii</i>	Sordario	Asco	23	10	24	16	73	GCA_001950475.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1243	<i>Verruconis gallopava</i>	Dothideo	Asco	17	20	6	30	73	GCA_000836295.1	Broad Institute
1244	<i>Lecanicillium sp. MT-2017a</i>	Sordario	Asco	22	17	11	22	72	GCA_003056605.1	Northern Arizona University
1245	<i>Lepidopterella palustris</i>	Dothideo	Asco	18	15	6	33	72	GCA_001692735.1	DOE Joint Genome Institute
1246	<i>Daedalea quercina</i>	Agarico	Basidio	21	13	16	22	72	GCA_001632345.1	DOE Joint Genome Institute
1247	<i>Pascua guehoae</i>	Tremello	Basidio	20	14	16	22	72	GCA_001600415.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1248	<i>Fonsecaea erecta</i>	Eurotio	Asco	21	9	12	30	72	GCA_001651985.1	Federal University of Parana
1249	<i>Postia placenta</i>	Agarico	Basidio	26	14	10	22	72	GCA_002117355.1	DOE Joint Genome Institute
1250	<i>Neolentinus lepideus</i>	Agarico	Basidio	24	13	11	23	71	GCA_001632425.1	DOE Joint Genome Institute
1251	<i>Phialophora americana</i>	Eurotio	Asco	18	8	15	30	71	GCA_000835435.1	Broad Institute
1252	<i>Exophiala alcalophila</i>	Eurotio	Asco	21	6	12	32	71	GCA_001599775.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1253	<i>Malbranchea cinnamomea</i>	Eurotio	Asco	25	16	14	16	71	GCA_900128795.2	CHALMERS UNIVERSITY OF TECHNOLOGY
1254	<i>Ophiostoma ips</i>	Sordario	Asco	18	24	8	19	69	GCA_002917055.1	University of Pretoria
1255	<i>Apiotrichum gamsii</i>	Tremello	Basidio	19	23	9	18	69	GCA_001600315.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1256	<i>Fistulina hepatica</i>	Agarico	Basidio	17	18	13	21	69	GCA_000934395.1	DOE Joint Genome Institute
1257	<i>Calocera cornea</i>	Dacry	Basidio	20	14	17	18	69	GCA_001632435.1	DOE Joint Genome Institute
1258	<i>Penicillium decumbens</i>	Eurotio	Asco	16	20	7	26	69	GCA_002072245.1	Chalmers University of Technology

1259	<i>Phellinidium pouzarii</i>	Agarico	Basidio	21	6	8	34	69	GCA_004802695.1	IHI Zittau / TU Dresden
1260	<i>Thermoascus crustaceus</i>	Eurotio	Asco	20	14	11	23	68	GCA_001599835.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1261	<i>Cladophialophora carrionii</i>	Eurotio	Asco	16	12	14	26	68	GCA_000365165.2	Broad Institute
1262	<i>Pseudogymnoascus destructans</i>	Leotio	Asco	18	26	8	16	68	GCA_001641265.1	US Forest Service
1263	<i>Chiuva virens</i>	Agarico	Basidio	16	8	6	38	68	GCA_003316485.1	Kunming University of Science and Technology
1264	<i>Metarhizium majus</i>	Sordario	Asco	24	7	6	30	67	GCA_000814945.1	Shanghai Insititutes for Biological Sciences, CAS
1265	<i>Microcyclospora tardicrescens</i>	Dothideo	Asco	16	13	14	24	67	GCA_003012245.1	USDA, ARS, NCAUR
1266	<i>Thielaviopsis punctulata</i>	Sordario	Asco	22	16	12	17	67	GCA_002925815.1	Forestry and Agricultural Biotechnology Institute RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1267	<i>Trichosporon coremiiforme</i>	Tremello	Basidio	17	8	6	35	66	GCA_001752605.1	University of Pretoria
1268	<i>Grosmannia galeiformis</i>	Sordario	Asco	21	16	5	24	66	GCA_004028395.1	Federal University of Parana
1269	<i>Fonsecaea nubica</i>	Eurotio	Asco	18	8	10	30	66	GCA_001646965.1	DOE Joint Genome Institute
1270	<i>Calocera viscosa</i>	Dacry	Basidio	20	12	15	19	66	GCA_001630345.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1271	<i>Apiotrichum veenhuisii</i>	Tremello	Basidio	16	15	15	20	66	GCA_001600595.1	Broad Institute
1272	<i>Cladophialophora yegresii</i>	Eurotio	Asco	15	11	12	28	66	GCA_000585515.1	Metarhizium genome sequencing Consortium
1273	<i>Metarhizium robertsii</i>	Sordario	Asco	22	7	6	30	65	GCA_000187425.2	University of British Columbia
1274	<i>Mycosphaerella populicola</i>	Dothideo	Asco	18	22	5	20	65	GCA_000291705.1	DOE Joint Genome Institute
1275	<i>Eremomyces bilateralis</i>	Dothideo	Asco	15	16	12	22	65	GCA_010015585.1	Kunming University of Science and Technology
1276	<i>Boletus edulis</i>	Agarico	Basidio	17	4	10	34	65	GCA_003316165.1	Universidade Estadual de Campinas (UNICAMP), Brazil
1277	<i>Moniliophthora perniciosa</i>	Agarico	Basidio	15	12	10	28	65	GCA_000183025.1	Shanghai Insititutes for Biological Sciences, CAS
1278	<i>Metarhizium guizhouense</i>	Sordario	Asco	23	7	6	28	64	GCA_000814955.1	Gujarat Biotechnology Research Centre
1279	<i>Dirinaria sp. GBRC AP01</i>	Lecanoro	Asco	25	4	5	30	64	GCA_013315955.1	Kunming University of Science and Technology
1280	<i>Lactarius sp. MG50</i>	Agarico	Basidio	16	0	1	47	64	GCA_003314065.1	University of Ottawa
1281	<i>Basidioascus undulatus</i>	Geminibasidio	Basidio	18	12	5	29	64	GCA_000826855.1	FEDERAL UNIVERSITY OF PARANA
1282	<i>Fonsecaea pugnacius</i>	Eurotio	Asco	16	8	10	30	64	GCA_011800825.1	Broad Institute
1283	<i>Rhinocladiella mackenziei</i>	Eurotio	Asco	17	13	8	26	64	GCA_000835555.1	University of Pretoria
1284	<i>Thielaviopsis musarum</i>	Sordario	Asco	22	14	12	16	64	GCA_001513885.1	Technische Universitat Munchen - WZW
1285	<i>Ustilago trichophora</i>	Ustilagino	Basidio	16	16	5	26	63	GCA_900323505.1	

1286	<i>Raffaelea sulphurea</i>	Sordario	Asco	24	17	3	19	63	GCA_002778055.1	University of Montana
1287	<i>Fonsecaea pedrosoi</i>	Eurotio	Asco	16	7	10	30	63	GCA_000835455.1	Broad Institute
1288	<i>Exophiala spinifera</i>	Eurotio	Asco	18	6	11	28	63	GCA_010882955.1	Research Center for Medical Mycology - Peking University First Hospital
1289	<i>Knufia petricola</i>	Eurotio	Asco	18	18	7	20	63	GCA_002319055.1	University of Natural Resources and Life Sciences
1290	<i>Davidsoniella eucalypti</i>	Sordario	Asco	17	21	6	19	63	GCA_004009845.1	Forestry and Agricultural Biotechnology Institute
1291	<i>Akanthomyces lecanii</i>	Sordario	Asco	19	13	8	22	62	GCA_001636795.1	Shanghai Institutes for Biological Sciences, CAS
1292	<i>Ramichloridium luteum</i>	Dothideo	Asco	15	9	12	26	62	GCA_002368545.1	Northwest A&F University
1293	<i>Sporothrix phasma</i>	Sordario	Asco	24	10	10	18	62	GCA_011037845.1	University of Pretoria
1294	<i>Apiotrichum mycotoxinovorans</i>	Tremello	Basidio	18	10	14	20	62	GCA_013177335.1	Nanjing TECH University
1295	<i>Exophiala sp.</i>	Eurotio	Asco	20	14	8	20	62	GCA_004026505.1	Jill Banfield's Lab at Berkeley
1296	<i>Calocybe gambosa</i>	Agarico	Basidio	14	7	11	30	62	GCA_900068965.1	Royal Botanic Gardens, Kew
1297	<i>Tolypocladium inflatum</i>	Sordario	Asco	20	8	9	24	61	GCA_003945705.1	University of Minnesota
1298	<i>Acaromyces ingoldii</i>	Exobasidio	Basidio	14	18	5	24	61	GCA_003144295.1	DOE Joint Genome Institute
1299	<i>Eurotiomycetes sp.</i>	Eurotio	Asco	18	18	7	18	61	GCA_002917005.1	Jill Banfield's Lab at Berkeley
1300	<i>Boletus sp. MG55</i>	Agarico	Basidio	15	6	4	36	61	GCA_003313885.1	Kunming University of Science and Technology
1301	<i>Bretziella fagacearum</i>	Sordario	Asco	18	17	11	15	61	GCA_002018255.1	Forestry and Agricultural Biotechnology Institute
1302	<i>Termitomyces heimii</i>	Agarico	Basidio	22	6	10	23	61	GCA_003313675.1	Kunming University of Science and Technology
1303	<i>Metarhizium anisopliae</i>	Sordario	Asco	21	6	6	27	60	GCA_013305495.1	Chonbuk National University
1304	<i>Hirsutella minnesotensis</i>	Sordario	Asco	20	4	4	32	60	GCA_000956045.1	Institute of Microbiology, Chinese Academy of Sciences
1305	<i>Usnea hakonensis</i>	Lecanoro	Asco	23	4	1	32	60	GCA_013423325.1	Swedish Museum of Natural History
1306	<i>Fonsecaea monophora</i>	Eurotio	Asco	16	6	8	30	60	GCA_001642475.1	Federal University of Parana
1307	<i>Suillus luteus</i>	Agarico	Basidio	18	4	6	32	60	GCA_000827255.1	DOE Joint Genome Institute
1308	<i>Torrubiella hemipterigena</i>	Sordario	Asco	18	14	7	20	59	GCA_000825705.1	HKI JENA
1309	<i>Paecilomyces hepiali</i>	Sordario	Asco	17	12	8	22	59	GCA_001455915.2	Beijing Normal University
1310	<i>Hypomyces rosellus</i>	Sordario	Asco	24	4	11	20	59	GCA_011799845.1	Jilin Agricultural University
1311	<i>Metarhizium brunneum</i>	Sordario	Asco	19	6	6	28	59	GCA_000814965.1	Shanghai Insitutes for Biological Sciences, CAS
1312	<i>Lentinula edodes</i>	Agarico	Basidio	16	12	3	28	59	GCA_001562095.1	Chungbuk National University
1313	<i>Megacollybia platyphylla</i>	Agarico	Basidio	20	4	9	26	59	GCA_900068915.1	Royal Botanic Gardens, Kew
1314	<i>Cordyceps javanica</i>	Sordario	Asco	18	12	8	20	58	GCA_006981985.1	The Institute of Vegetables and Flowers CAAS
1315	<i>Trichosporon ovoides</i>	Tremello	Basidio	14	6	6	32	58	GCA_009833065.1	Heilongjiang bayi agricultural university
1316	<i>Tolypocladium sp. Salcha MEA-2</i>	Sordario	Asco	19	8	9	22	58	GCA_000750145.2	INPART

1317	<i>Exophiala mesophila</i>	Eurotio	Asco	24	3	6	25	58	GCA_000836275.1	Broad Institute
1318	<i>Wolfiporia cocos</i>	Agarico	Basidio	16	12	14	16	58	GCA_000344635.1	DOE Joint Genome Institute
1319	<i>Davidsoniella neocaledoniae</i>	Sordario	Asco	18	17	6	17	58	GCA_009806295.1	Forestry and Agricultural Biotechnology Institute
1320	<i>Davidsoniella australis</i>	Sordario	Asco	17	17	7	17	58	GCA_009806335.1	Forestry and Agricultural Biotechnology Institute
1321	<i>Davidsoniella virescens</i>	Sordario	Asco	18	19	6	15	58	GCA_001513805.1	University of Pretoria, Forestry and Agricultural Biotechnology Institute
1322	<i>Suillus pictus</i>	Agarico	Basidio	20	2	6	30	58	GCA_003313085.1	Kunming University of Science and Technology
1323	<i>Suillus alpinus</i>	Agarico	Basidio	15	4	5	34	58	GCA_003316505.1	Kunming University of Science and Technology
1324	<i>Auricularia polytricha</i>	Agarico	Basidio	16	2	6	34	58	GCA_003316125.1	Kunming University of Science and Technology
1325	<i>Cordyceps farinosa</i>	Sordario	Asco	17	12	8	20	57	GCA_000733625.1	CSIR- Institute of Microbial technology (IMTECH)
1326	<i>Geosmithia morbida</i>	Sordario	Asco	19	16	5	17	57	GCA_900108815.1	UNIVERSITY OF NEW HAMPSHIRE
1327	<i>Cutaneotrichosporon dermatis</i>	Tremello	Basidio	14	16	11	16	57	GCA_003116895.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1328	<i>Prillingeria fragicola</i>	Tremello	Basidio	14	13	12	18	57	GCA_002335605.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1329	<i>Rhizopus oryzae</i>	Mucoro	Mucoro	16	24	0	16	56	GCA_000697195.1	IGS
1330	<i>Evernia prunastri</i>	Lecanoro	Asco	20	3	2	31	56	GCA_003184365.1	Senckenberg
1331	<i>Lactarius indigo</i>	Agarico	Basidio	16	2	2	36	56	GCA_003313985.1	Kunming University of Science and Technology
1332	<i>Dacryopinax primogenitus</i>	Dacry	Basidio	17	8	14	17	56	GCA_000292625.1	DOE Joint Genome Institute
1333	<i>Albatrellus ellisii</i>	Agarico	Basidio	12	4	6	34	56	GCA_003314395.1	Kunming University of Science and Technology
1334	<i>Suillus brevipes</i>	Agarico	Basidio	18	2	4	32	56	GCA_011800875.1	DOE Joint Genome Institute
1335	<i>Agaricus bisporus</i>	Agarico	Basidio	16	2	8	30	56	GCA_008271545.1	Jilin Agricultural University
1336	<i>Pterula multifida</i>	Agarico	Basidio	12	8	6	30	56	GCA_900068985.1	Royal Botanic Gardens, Kew
1337	<i>Moesziomyces sp. F16C1</i>	Ustilagino	Basidio	14	13	10	18	55	GCA_003004725.1	Universidade de Sao Paulo
1338	<i>Lactarius hatsudake</i>	Agarico	Basidio	16	2	1	36	55	GCA_003315955.1	Kunming University of Science and Technology
1339	<i>Berkeleyomyces basicola</i>	Sordario	Asco	15	19	6	15	55	GCA_003671435.1	Forestry and Agricultural Biotechnology Institute
1340	<i>Huntiaella moniliformis</i>	Sordario	Asco	16	14	5	20	55	GCA_000712465.1	Forestry and Agricultural Biotechnology Institute
1341	<i>Gomphus sp. MG54</i>	Agarico	Basidio	10	0	0	45	55	GCA_003314385.1	Kunming University of Science and Technology

1342	<i>Coprinus comatus</i>	Agarico	Basidio	19	4	9	23	55	GCA_003316025.1	Kunming University of Science and Technology National Institute of Horticultural and Herbal Science, Rural Development Administration Institute of Microbial Technology Broad Institute Broad Institute IGS Research Center for Medical Mycology - Peking University First Hospital Forest Products, Mississippi State University DOE Joint Genome Institute DOE Joint Genome Institute Jilin Agricultural University National Institute of Horticultural and Herbal Science, Rural Development Administration IGS Chinese Academy of Sciences Seoul National University RIKEN Center for Life Science Technologies, Division of Genomic Technologies DOE Joint Genome Institute Kunming University of Science and Technology Kunming University of Science and Technology Anhui Agricultural University Research Center for Medical Mycology - Peking University First Hospital Universidade de Sao Paulo Senckenberg Lake Superior State University RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1343	<i>Beauveria pseudobassiana</i>	Sordario	Asco	20	8	2	24	54	GCA_003267905.1	
1344	<i>Hirsutella thompsonii</i>	Sordario	Asco	17	4	4	29	54	GCA_000472145.1	
1345	<i>Rhizopus delemar</i>	Mucoro	Mucoro	13	25	0	16	54	GCA_000149305.1	
1346	<i>Coniosporium apollinis</i>	Dothideo	Asco	17	12	4	21	54	GCA_000281105.1	
1347	<i>Rhizopus stolonifer</i>	Mucoro	Mucoro	12	26	1	15	54	GCA_000697035.1	
1348	<i>Exophiala dermatitidis</i>	Eurotio	Asco	14	6	10	24	54	GCA_010883545.1	
1349	<i>Fibroporia radiculosa</i>	Agarico	Basidio	18	12	10	14	54	GCA_000313525.1	
1350	<i>Rhizopogon vinicolor</i>	Agarico	Basidio	16	2	6	30	54	GCA_001658105.1	
1351	<i>Rhizoclostridium globosum</i>	Chytridio	Chytridio	8	16	0	29	53	GCA_002104985.1	
1352	<i>Cladobotryum protrusum</i>	Sordario	Asco	22	2	10	19	53	GCA_004303015.1	
1353	<i>Cordyceps pruinosa</i>	Sordario	Asco	16	11	6	20	53	GCA_003025255.1	
1354	<i>Umbelopsis isabellina</i>	Umbelopsido	Mucoro	10	22	6	15	53	GCA_000697415.1	
1355	<i>Hirsutella rhossiliensis</i>	Sordario	Asco	16	5	6	26	53	GCA_004142005.1	
1356	<i>Gyalolechia flavorubescens</i>	Lecanoro	Asco	16	6	7	24	53	GCA_000442125.1	
1357	<i>Takashimella koratensis</i>	Tremello	Basidio	12	17	12	12	53	GCA_003116875.1	
1358	<i>Gonapodya prolifera</i>	Monoblepharido	Chytridio	9	26	0	18	53	GCA_001574975.1	
1359	<i>Boletus sp. MG95</i>	Agarico	Basidio	12	4	5	32	53	GCA_003313155.1	
1360	<i>Neoboletus brunneissimus</i>	Agarico	Basidio	14	2	5	32	53	GCA_003316195.1	
1361	<i>Cordyceps cicadae</i>	Sordario	Asco	15	8	6	23	52	GCA_010211705.1	
1362	<i>Exophiala phaeomuriformis</i>	Eurotio	Asco	14	6	8	24	52	GCA_010883475.1	
1363	<i>Moesziomyces sp. F5C1</i>	Ustilagino	Basidio	12	12	10	18	52	GCA_003004715.1	
1364	<i>Pseudevernia furfuracea</i>	Lecanoro	Asco	18	2	2	30	52	GCA_003184345.1	
1365	<i>Cladonia rangiferina</i>	Lecanoro	Asco	14	4	2	32	52	GCA_006146055.1	
1366	<i>Cutaneotrichosporon daszewskae</i>	Tremello	Basidio	12	14	10	16	52	GCA_002335585.1	

1367	<i>Endoconidiophora laricicola</i>	Sordario	Asco	18	15	4	15	52	GCA_001640655.1	Forestry and Agricultural Biotechnology Institute
1368	<i>Huntiaella savannae</i>	Sordario	Asco	16	14	5	17	52	GCA_001483325.1	Forestry and Agricultural Biotechnology Institute
1369	<i>Huntiaella decipiens</i>	Sordario	Asco	16	14	5	17	52	GCA_003032515.1	Forestry and Agricultural Biotechnology Institute
1370	<i>Albatrellus sp. MG142</i>	Agarico	Basidio	14	2	6	30	52	GCA_003314695.1	Kunming University of Science and Technology
1371	<i>Beauveria sp. IMV 00265</i>	Sordario	Asco	18	9	2	22	51	GCA_001931865.2	Jet Propulsion Laboratory, California Institute of Technology
1372	<i>Beauveria rudraprayagi</i>	Sordario	Asco	16	8	4	23	51	GCA_000733645.1	CSIR- Institute of Microbial technology (IMTECH)
1373	<i>Paecilomyces penicillatus</i>	Sordario	Asco	22	10	5	14	51	GCA_005765155.1	Biotechnology and Nuclear Technology Research Institute
1374	<i>Cordyceps sp. RAO-2017</i>	Sordario	Asco	16	5	4	26	51	GCA_002591385.1	Utrecht University
1375	<i>Moesziomyces aphidis</i>	Ustilagino	Basidio	12	12	10	17	51	GCA_000517465.1	Fraunhofer IGB
1376	<i>Symbiotaphrina buchneri</i>	Xylono	Asco	10	14	8	19	51	GCA_001599915.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1377	<i>Sparassis latifolia</i>	Agarico	Basidio	18	4	9	20	51	GCA_009812315.1	Chosun University
1378	<i>Gigaspora margarita</i>	Glomero	Mucoro	12	3	0	36	51	GCA_009809945.1	CNR
1379	<i>Paxillus involutus</i>	Agarico	Basidio	12	4	5	30	51	GCA_000827475.1	JGI
1380	<i>Endoconidiophora polonica</i>	Sordario	Asco	17	15	4	15	51	GCA_001856765.1	Forestry and Agricultural Biotechnology Institute
1381	<i>Huntiaella bhutanensis</i>	Sordario	Asco	16	13	5	17	51	GCA_002018275.1	Forestry and Agricultural Biotechnology Institute
1382	<i>Huntiaella omanensis</i>	Sordario	Asco	16	13	5	17	51	GCA_000833645.1	FABI
1383	<i>Chroogomphus rutilus</i>	Agarico	Basidio	12	0	2	37	51	GCA_003314275.1	Kunming University of Science and Technology
1384	<i>Cordyceps fumosorosea</i>	Sordario	Asco	16	8	4	22	50	GCA_001636725.1	Shanghai Institutes for Biological Sciences, CAS
1385	<i>Ceratocystiopsis minuta</i>	Sordario	Asco	14	16	4	16	50	GCA_001676865.1	University of Pretoria
1386	<i>Claviceps fusiformis</i>	Sordario	Asco	14	12	10	14	50	GCA_000223055.1	University of Kentucky, Dept of Plant Pathology
1387	<i>Ceratocystis manginecans</i>	Sordario	Asco	15	15	6	14	50	GCA_006408425.1	University of Pretoria
1388	<i>Leucosporidium scottii</i>	Microbotryo	Basidio	11	12	6	21	50	GCA_003054985.1	UCIBIO-REQUIMTE, Faculdade de Ciencias e Tecnologia, Universidade Nova da Lisboa
1389	<i>Ceratocystis eucalypticola</i>	Sordario	Asco	15	15	6	14	50	GCA_001513815.1	University of pretoria
1390	<i>Ceratocystis cacaofunesta</i>	Sordario	Asco	15	15	6	14	50	GCA_002776505.1	University of Campinas
1391	<i>Ceratocystis fimbriata</i>	Sordario	Asco	15	15	6	14	50	GCA_009914735.1	Universidade Federal de Vicosa
1392	<i>Eurotiomycetes sp. MA 6038</i>	Eurotio	Asco	15	12	6	17	50	GCA_003004525.2	University of Natural Resources and Life Sciences, Vienna

1393	<i>Ceratocystis platani</i>	Sordario	Asco	15	15	6	14	50	GCA_000978885.1	University of Neuchatel Research Institute of Tropical Forestry, Chinese Academy of Forestry Forestry and Agricultural Biotechnology Institute University of Florida University of Pretoria Metarhizium genome sequencing Consortium Shanghai Institutes for Biological Sciences, CAS University of California, Riverside RIKEN Center for Life Science Technologies, Division of Genomic Technologies Tsukuba Biotechnology Research Center, Astellas Pharma Inc., Technische Universitat Munchen - WZW Department of Pediatric Cardiology, Tokyo Women's Medical University University of Manitoba University of Natural Resources and Life Sciences, Vienna Forestry and Agricultural Biotechnology Institute RIKEN Center for Life Science Technologies, Division of Genomic Technologies Oregon State University IGS Biotechnology Institute- National University of Colombia- Bogota DOE Joint Genome Institute UNIVERSITY OF MALAYA RWTH Aachen University Kunming University of Science and Technology
1394	<i>Russula griseocarnosa</i>	Agarico	Basidio	10	0	2	38	50	GCA_004801975.1	
1395	<i>Ceratocystis harringtonii</i>	Sordario	Asco	15	15	6	14	50	GCA_002018265.1	
1396	<i>Rhizopogon vesiculosus</i>	Agarico	Basidio	13	2	7	28	50	GCA_001882365.1	
1397	<i>Ceratocystis albifundus</i>	Sordario	Asco	15	15	6	14	50	GCA_002742255.2	
1398	<i>Metarhizium acridum</i>	Sordario	Asco	16	6	3	24	49	GCA_000187405.1	
1399	<i>Beauveria brongniartii</i>	Sordario	Asco	16	9	2	22	49	GCA_001636735.1	
1400	<i>Bifiguratus adelaidae</i>	Endogono	Mucoro	16	12	5	16	49	GCA_002261195.1	
1401	<i>Albophoma yamanashiensis</i>	Sordario	Asco	15	8	5	21	49	GCA_001600555.1	
1402	<i>fungal sp. No.11243</i>	0	0	14	12	5	18	49	GCA_000836255.1	
1403	<i>Moesziomyces antarcticus</i>	Ustilagino	Basidio	12	11	10	16	49	GCA_900322835.1	
1404	<i>Sparassis crispa</i>	Agarico	Basidio	18	6	9	16	49	GCA_003851025.1	
1405	<i>Cladonia uncialis</i>	Lecanoro	Asco	14	4	3	28	49	GCA_002927785.1	
1406	<i>Eurotiomycetes sp. MA 6039</i>	Eurotio	Asco	16	13	4	16	49	GCA_003004485.1	
1407	<i>Ceratocystis adiposa</i>	Sordario	Asco	14	13	7	15	49	GCA_001640685.1	
1408	<i>Chalaropsis thielavioides</i>	Sordario	Asco	15	14	5	15	49	GCA_001599435.1	
1409	<i>Rhizopogon sp. AM-2018a</i>	Agarico	Basidio	12	3	6	28	49	GCA_002995095.1	
1410	<i>Mucor racemosus</i>	Mucoro	Mucoro	16	7	1	24	48	GCA_000697255.1	
1411	<i>Beauveria bassiana</i>	Sordario	Asco	16	8	2	22	48	GCA_003337105.1	
1412	<i>Polychaeton citri</i>	Dothideo	Asco	12	8	5	23	48	GCA_010093785.1	
1413	<i>Herpotrichiellaceae sp. UM238</i>	Eurotio	Asco	18	8	0	22	48	GCA_000315175.1	
1414	<i>Pseudozyma tsukubaensis</i>	Ustilagino	Basidio	12	14	6	16	48	GCA_001736125.1	
1415	<i>Tylophilus plumbeoviolaceoides</i>	Agarico	Basidio	10	2	5	31	48	GCA_003316375.1	

1416	<i>Ceratocystis smalleyi</i>	Sordario	Asco	15	14	6	13	48	GCA_003449175.1	Forestry and Agricultural Biotechnology Institute
1417	<i>Verruconis sp.</i>	Dothideo	Asco	13	12	5	18	48	GCA_004026245.1	Jill Banfield's Lab at Berkeley
1418	<i>Floccularia luteovirens</i>	Agarico	Basidio	12	2	8	26	48	GCA_009739215.1	Zhejiang University
1419	<i>Basidiobolus meristosporus</i>	Basidiobolo	Zoopago	10	3	0	34	47	GCA_002104905.1	DOE Joint Genome Institute
1420	<i>Linderina pennispora</i>	Kickxello	Zoopago	3	4	1	39	47	GCA_002104995.1	DOE Joint Genome Institute
1421	<i>Tolypocladium paradoxum</i>	Sordario	Asco	17	6	7	17	47	GCA_002916505.1	Oregon State University
1422	<i>Tuber microsphaerosporum</i>	Pezizo	Asco	15	12	2	18	47	GCA_003521225.1	Kunming University of Science and Technology
1423	<i>Cryomyces antarcticus</i>	Dothideo	Asco	10	7	4	26	47	GCA_000504465.1	VIBT Extremophile Center, University of Natural Resources and Life Sciences Vienna, Austria
1424	<i>Claviceps paspali</i>	Sordario	Asco	11	12	10	14	47	GCA_013435705.1	INIA
1425	<i>Atkinsonella hypoxylon</i>	Sordario	Asco	11	14	9	13	47	GCA_000729835.1	University of Kentucky
1426	<i>Arthrocladium fulminans</i>	Eurotio	Asco	20	10	4	13	47	GCA_003614865.1	Westerdijk Fungal Biodiversity Institute
1427	<i>Peltaster fructicola</i>	Dothideo	Asco	10	9	8	20	47	GCA_001592805.2	Northwest A&F University
1428	<i>Capronia coronata</i>	Eurotio	Asco	15	6	6	20	47	GCA_000585585.1	Broad Institute
1429	<i>Suillus sp. MG131</i>	Agarico	Basidio	14	5	4	24	47	GCA_003313855.1	Kunming University of Science and Technology
1430	<i>Cordyceps tenuipes</i>	Sordario	Asco	14	8	4	20	46	GCA_003025305.1	National Institute of Horticultural and Herbal Science, Rural Development Administration
1431	<i>Rhizopus azygosporus</i>	Mucoro	Mucoro	18	10	0	18	46	GCA_003325435.1	University of California, Riverside
1432	<i>Moelleriella libera</i>	Sordario	Asco	14	4	6	22	46	GCA_001636675.1	Shanghai Institutes for Biological Sciences, CAS
1433	<i>Epichloe brachyelytri</i>	Sordario	Asco	14	8	8	16	46	GCA_000222915.1	University of Kentucky, Dept of Plant Pathology
1434	<i>Pseudozyma hubeiensis</i>	Ustilagino	Basidio	12	10	8	16	46	GCA_000403515.1	Kitami Institute of Technology
1435	<i>Bullera alba</i>	Tremello	Basidio	10	12	14	10	46	GCA_001600095.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1436	<i>Rusavskia elegans</i>	Lecanoro	Asco	16	4	6	20	46	GCA_011316305.1	Yunnan Academy of Forestry
1437	<i>Apiotrichum gracile</i>	Tremello	Basidio	14	4	9	19	46	GCA_001600335.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1438	<i>Cladonia metacorallifera</i>	Lecanoro	Asco	13	4	3	26	46	GCA_000482085.2	Seoul National University
1439	<i>Drechlerella stenobrocha</i>	Orbilio	Asco	17	8	8	13	46	GCA_000525045.1	Institute of Microbiology, Chinese Academy of Sciences
1440	<i>Boletus speciosus</i>	Agarico	Basidio	11	4	5	26	46	GCA_003316055.1	Kunming University of Science and Technology

1441	<i>Ramaria sp. MG151</i>	Agarico	Basidio	14	2	2	28	46	GCA_003314545.1	Kunming University of Science and Technology
1442	<i>Epichloe gansuensis</i>	Sordario	Asco	13	8	9	15	45	GCA_000222895.2	University of Kentucky, Dept of Plant Pathology
1443	<i>Epichloe inebrians</i>	Sordario	Asco	13	7	9	16	45	GCA_000309355.1	University of Kentucky
1444	<i>Atkinsonella texensis</i>	Sordario	Asco	10	14	7	14	45	GCA_001008035.1	University of Kentucky
1445	<i>Epichloe bromicola</i>	Sordario	Asco	12	10	8	15	45	GCA_002319005.1	University of Kentucky
1446	<i>Balansia obtecta</i>	Sordario	Asco	12	12	7	14	45	GCA_000709145.1	University of Kentucky
1447	<i>Sporisorium reilianum</i>	Ustilagino	Basidio	12	9	8	16	45	GCA_900162835.1	Technische Universitat Munchen - WZW
1448	<i>Pseudozyma sp. F8B2</i>	Ustilagino	Basidio	11	10	8	16	45	GCA_003004685.1	Universidade de Sao Paulo
1449	<i>Sporisorium iseilematis-ciliati</i>	Ustilagino	Basidio	11	10	8	16	45	GCA_001748505.1	RWTH Aachen University
1450	<i>Capronia epimyces</i>	Eurotio	Asco	12	4	4	25	45	GCA_000585565.1	Broad Institute
1451	<i>Gigaspora rosea</i>	Glomero	Mucoro	10	3	0	32	45	GCA_003550325.1	INRA
1452	<i>Solicoccozyma phenolica</i>	Tremello	Basidio	10	16	5	14	45	GCA_001600015.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1453	<i>Paxillus rubicundulus</i>	Agarico	Basidio	10	2	5	28	45	GCA_000827395.1	DOE Joint Genome Institute
1454	<i>Rhizopogon rudus</i>	Agarico	Basidio	12	3	2	28	45	GCA_002995055.1	Oregon State University
1455	<i>Retiboletus ornatipes</i>	Agarico	Basidio	12	3	6	24	45	GCA_003316065.1	Kunming University of Science and Technology
1456	<i>Boletus bicolor</i>	Agarico	Basidio	13	2	6	24	45	GCA_003316205.1	Kunming University of Science and Technology
1457	<i>Hypomyces perniciosus</i>	Sordario	Asco	18	6	6	14	44	GCA_008477525.1	Jilin Agricultural University
1458	<i>Cordyceps militaris</i>	Sordario	Asco	16	6	2	20	44	GCA_003332165.1	pangugene
1459	<i>Epichloe sylvatica</i>	Sordario	Asco	12	8	8	16	44	GCA_001008265.1	University of Kentucky
1460	<i>Epichloe baconii</i>	Sordario	Asco	14	8	8	14	44	GCA_000729845.1	University of Kentucky
1461	<i>Sporisorium graminicola</i>	Ustilagino	Basidio	11	11	6	16	44	GCA_005498985.1	University of Liverpool, Institute of Integrative Biology
1462	<i>Epichloe aotearoae</i>	Sordario	Asco	12	8	10	14	44	GCA_000729855.1	University of Kentucky
1463	<i>Aciculosporium take</i>	Sordario	Asco	12	10	6	16	44	GCA_000222935.2	University of Kentucky, Dept of Plant Pathology
1464	<i>Tuber borchii</i>	Pezizo	Asco	16	12	2	14	44	GCA_003070745.1	DOE Joint Genome Institute
1465	<i>Tuber brumale</i>	Pezizo	Asco	14	12	3	15	44	GCA_014065205.1	INRAE
1466	<i>Synchytrium microbalum</i>	Chytridio	Chytridio	14	6	0	24	44	GCA_006535985.1	Agriculture and Agri-Food Canada
1467	<i>Lactarius sp. MG121</i>	Agarico	Basidio	12	1	1	30	44	GCA_003315925.1	Kunming University of Science and Technology
1468	<i>Cutaneotrichosporon cutaneum</i>	Tremello	Basidio	10	6	10	18	44	GCA_001600715.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1469	<i>Russula foetens</i>	Agarico	Basidio	12	0	4	28	44	GCA_003316565.1	Kunming University of Science and Technology
1470	<i>Lactarius deliciosus</i>	Agarico	Basidio	12	0	0	32	44	GCA_006680135.1	UCSI University

1471	<i>Serpula lacrymans</i>	Agarico	Basidio	17	6	7	14	44	GCA_002891385.1	University of Oslo
1472	<i>Xerocomus impolitus</i>	Agarico	Basidio	10	6	6	22	44	GCA_003316335.1	Kunming University of Science and Technology
1473	<i>Suillellus subvelutipes</i>	Agarico	Basidio	11	2	4	27	44	GCA_003316035.1	Kunming University of Science and Technology
1474	<i>Solicoccozyma terricola</i>	Tremello	Basidio	16	16	2	10	44	GCA_001600875.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1475	<i>Butyriboletus roseoflavus</i>	Agarico	Basidio	12	4	4	24	44	GCA_003315995.1	Kunming University of Science and Technology
1476	<i>Mucor indicus</i>	Mucoro	Mucoro	12	3	0	28	43	GCA_000697295.1	IGS
1477	<i>Microcycluspora pomicola</i>	Dothideo	Asco	10	6	12	15	43	GCA_002786065.1	Northwest A&F University
1478	<i>Syncephalastrum monosporum</i>	Mucoro	Mucoro	9	16	2	16	43	GCA_000697355.1	IGS
1479	<i>Ophiocordyceps camponoti-leonardi (nom. inval.)</i>	Sordario	Asco	12	7	3	21	43	GCA_003339455.1	National Center for Genetic Engineering and Biotechnology
1480	<i>Ophiocordyceps polyrhachis-furcata</i>	Sordario	Asco	12	6	5	20	43	GCA_001633055.2	National Center for Genetic Engineering and Biotechnology (BIOTEC)
1481	<i>Claviceps cf. purpurea</i>	Sordario	Asco	12	12	7	12	43	GCA_004016475.1	Agriculture and Agri-Food Canada
1482	<i>Ophiocordyceps sinensis</i>	Sordario	Asco	14	2	3	24	43	GCA_002077885.1	Institute of Microbiology, Chinese Academy of Sciences
1483	<i>Papiliotrema flavescens</i>	Tremello	Basidio	8	12	11	12	43	GCA_000442785.1	OSU/OARDC
1484	<i>Letharia lupina</i>	Lecanoro	Asco	16	2	2	23	43	GCA_014066315.1	Eastern Washington University
1485	<i>Vanrija humicola</i>	Tremello	Basidio	16	6	5	16	43	GCA_008065275.1	Ruhr-University Bochum
1486	<i>Ustilago tritici</i>	Ustilagino	Basidio	12	8	7	16	43	GCA_002993085.1	University of Sao Paulo
1487	<i>Violaceomyces palustris</i>	Ustilagino	Basidio	10	10	4	19	43	GCA_003144235.1	DOE Joint Genome Institute
1488	<i>Ambrosiella xylebori</i>	Sordario	Asco	12	11	6	14	43	GCA_002778035.1	University of Montana
1489	<i>Gomphus bonarii</i>	Agarico	Basidio	10	0	1	32	43	GCA_003316585.1	Kunming University of Science and Technology
1490	<i>Ophio. camponoti-saundersi (nom. inval.)</i>	Sordario	Asco	12	5	3	22	42	GCA_003339415.1	National Center for Genetic Engineering and Biotechnology
1491	<i>Epichloe festucae</i>	Sordario	Asco	12	8	8	14	42	GCA_002318955.1	University of Kentucky
1492	<i>Claviceps purpurea</i>	Sordario	Asco	12	12	6	12	42	GCA_004016095.1	Agriculture and Agri-Food Canada
1493	<i>Claviceps spartinae</i>	Sordario	Asco	12	11	7	12	42	GCA_004016175.1	Agriculture and Agri-Food Canada
1494	<i>Claviceps humidiphila</i>	Sordario	Asco	12	11	7	12	42	GCA_004016155.1	Agriculture and Agri-Food Canada
1495	<i>Epichloe typhina</i>	Sordario	Asco	12	8	8	14	42	GCA_000308955.1	University of Kentucky
1496	<i>Epichloe elymi</i>	Sordario	Asco	12	8	8	14	42	GCA_002591845.1	Massey University
1497	<i>Epichloe amarillans</i>	Sordario	Asco	12	8	8	14	42	GCA_000223075.2	University of Kentucky, Dept of Plant Pathology
1498	<i>Letharia columbiana</i>	Lecanoro	Asco	15	3	2	22	42	GCA_014066305.1	Eastern Washington University

1499	<i>Ustilago cynodontis</i>	Ustilagino	Basidio	12	8	6	16	42	GCA_001736195.1	RWTH Aachen University
1500	<i>Tuber umbilicatum</i>	Pezizo	Asco	12	14	2	14	42	GCA_003313605.1	Kunming University of Science and Technology
1501	<i>Ustilago xerochloae</i>	Ustilagino	Basidio	10	8	8	16	42	GCA_001736075.1	RWTH Aachen University
1502	<i>Tuber magnatum</i>	Pezizo	Asco	14	10	4	14	42	GCA_003182015.1	INRA
1503	<i>Lactarius trivialis</i>	Agarico	Basidio	11	0	1	30	42	GCA_003315845.1	Kunming University of Science and Technology
1504	<i>Papiliotrema laurentii</i>	Tremello	Basidio	8	12	10	12	42	GCA_012922615.1	Jet Propulsion Laboratory, California Institute of Technology
1505	<i>Piloderma croceum</i>	Agarico	Basidio	14	2	0	26	42	GCA_000827315.1	DOE Joint Genome Institute
1506	<i>Lactifluus pinguis</i>	Agarico	Basidio	7	0	0	35	42	GCA_003313945.1	Kunming University of Science and Technology
1507	<i>Ramaria cf. rubripermanens</i>	Agarico	Basidio	12	0	2	28	42	GCA_003316465.1	Kunming University of Science and Technology
1508	<i>Tolypocladium ophioglossoides</i>	Sordario	Asco	13	6	7	15	41	GCA_001189435.1	Oregon State University
1509	<i>Anthracoystis flocculosa</i>	Ustilagino	Basidio	10	15	4	12	41	GCA_900322975.1	Technische Universitat Munchen - WZW
1510	<i>Hypocrella siamensis</i>	Sordario	Asco	12	4	5	20	41	GCA_000731825.1	CSIR- Institute of Microbial technology (IMTECH)
1511	<i>Syncephalastrum racemosum</i>	Mucoro	Mucoro	9	16	2	14	41	GCA_002105135.1	DOE Joint Genome Institute
1512	<i>Leptoxyphium fumago</i>	Dothideo	Asco	9	4	4	24	41	GCA_001660795.1	International Institute Zittau - TU Dresden
1513	<i>Claviceps arundinis</i>	Sordario	Asco	10	12	7	12	41	GCA_004016465.1	Agriculture and Agri-Food Canada
1514	<i>Monascus purpureus</i>	Eurotio	Asco	11	10	4	16	41	GCA_011319195.1	Beijing Technology and Business University
1515	<i>Dioszegia crocea</i>	Tremello	Basidio	12	12	10	7	41	GCA_001600615.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1516	<i>Kalmanozyma brasiliensis</i>	Ustilagino	Basidio	10	10	6	15	41	GCA_000497045.1	Laboratorio Nacional de Ciencia e Tecnologia do Bioetanol
1517	<i>Tuber indicum</i>	Pezizo	Asco	14	10	3	14	41	GCA_006112555.1	College of Pharmacy and Biological Engineering
1518	<i>Dioszegia aurantiaca</i>	Tremello	Basidio	10	14	9	8	41	GCA_001600655.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1519	<i>Cladonia macilenta</i>	Lecanoro	Asco	10	4	3	24	41	GCA_000444155.1	Seoul National University
1520	<i>Russula aff. compacta</i>	Agarico	Basidio	9	0	2	30	41	GCA_003313875.1	Kunming University of Science and Technology
1521	<i>Amanita thiersii</i>	Agarico	Basidio	10	4	5	22	41	GCA_002554575.1	JGI
1522	<i>Caloboletus calopus</i>	Agarico	Basidio	10	2	3	26	41	GCA_003316085.1	Kunming University of Science and Technology
1523	<i>Rhizopogon villosulus</i>	Agarico	Basidio	11	2	4	24	41	GCA_002995315.1	Oregon State University

1524	<i>Metarhizium rileyi</i>	Sordario	Asco	14	6	2	18	40	GCA_007866325.1	Embrapa Anhui University Computational Biology Research Center (CBRC), National Institute of Advanced Industrial Science and Technology (AIST) University of Melbourne DOE Joint Genome Institute University of Kentucky RIKEN Center for Life Science Technologies, Division of Genomic Technologies The French-Italian Tuber Genome Consortium RIKEN Center for Life Science Technologies, Division of Genomic Technologies Jawaharlal Nehru Centre for Advanced Scientific Research Kunming University of Science and Technology Oregon State University Oregon State University Kunming University of Science and Technology University of East Anglia Utrecht University Oregon State University RIKEN Center for Life Science Technologies, Division of Genomic Technologies DOE Joint Genome Institute Academia Sinica Oregon State University Kunming University of Science and Technology Kunming University of Science and Technology Utrecht University RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1525	<i>Gongronella sp. w5</i>	Mucoro	Mucoro	8	12	4	16	40	GCA_001650995.1	
1526	<i>Ustilaginoidea virens</i>	Sordario	Asco	12	10	4	14	40	GCA_000965225.2	
1527	<i>Syncephalastrum sp. IA-2019</i>	Mucoro	Mucoro	7	16	2	15	40	GCA_013461545.1	
1528	<i>Dissoconium aciculare</i>	Dothideo	Asco	12	2	8	18	40	GCA_010015565.1	
1529	<i>Epichloe sp. AL9924</i>	Sordario	Asco	12	8	8	12	40	GCA_000729825.1	
1530	<i>Apiotrichum brassicae</i>	Tremello	Basidio	8	2	14	16	40	GCA_001600295.1	
1531	<i>Tuber melanosporum</i>	Pezizo	Asco	13	10	3	14	40	GCA_000151645.1	
1532	<i>Cutaneotrichosporon arboriformis</i>	Tremello	Basidio	8	5	9	18	40	GCA_002335565.1	
1533	<i>Ustilago hordei</i>	Ustilagino	Basidio	11	8	8	13	40	GCA_003012045.1	
1534	<i>Suillus placidus</i>	Agarico	Basidio	12	2	4	22	40	GCA_003313645.1	
1535	<i>Rhizopogon vulgaris</i>	Agarico	Basidio	10	1	3	26	40	GCA_002995295.1	
1536	<i>Rhizopogon hawkerae</i>	Agarico	Basidio	10	4	4	22	40	GCA_002995035.1	
1537	<i>Neoboletus magnificus</i>	Agarico	Basidio	10	0	2	28	40	GCA_003316145.1	
1538	<i>Escovopsis sp. TC</i>	Sordario	Asco	16	6	9	8	39	GCA_003055185.1	
1539	<i>Ophiocordyceps camponoti-rufipedis</i>	Sordario	Asco	10	6	3	20	39	GCA_002591395.1	
1540	<i>Elaphomyces granulatus</i>	Eurotio	Asco	10	4	2	23	39	GCA_002240705.1	
1541	<i>Leucosporidium creatinivorum</i>	Microbotryo	Basidio	10	6	2	21	39	GCA_001600635.1	
1542	<i>Neohortaea acidophila</i>	Dothideo	Asco	10	10	3	16	39	GCA_010093505.1	
1543	<i>Taiwanofungus camphoratus</i>	Agarico	Basidio	14	2	7	16	39	GCA_000766995.1	
1544	<i>Rhizopogon parksii</i>	Agarico	Basidio	10	4	3	22	39	GCA_002994865.1	
1545	<i>Lactifluus hygrophoroides</i>	Agarico	Basidio	10	0	1	28	39	GCA_003314055.1	
1546	<i>Lactarius piperatus</i>	Agarico	Basidio	8	0	0	31	39	GCA_003315875.1	
1547	<i>Ophiocordyceps australis</i>	Sordario	Asco	15	4	3	16	38	GCA_002591415.1	
1548	<i>Ustilago maydis</i>	Ustilagino	Basidio	10	5	6	17	38	GCA_001599495.1	

1549	<i>Sporisorium scitamineum</i>	Ustilagino	Basidio	10	10	4	14	38	GCA_000772675.1	Key Lab of Sugarcane Biology and Genetic Breeding, Ministry of Agriculture, P.R.China
1550	<i>Kockovaella imperatae</i>	Tremello	Basidio	8	10	10	10	38	GCA_002102565.1	DOE Joint Genome Institute
1551	<i>Kwonella heveanensis</i>	Tremello	Basidio	8	12	6	12	38	GCA_000507405.3	Broad Institute
1552	<i>Tricholoma saponaceum</i>	Agarico	Basidio	13	2	3	20	38	GCA_003313625.1	Kunming University of Science and Technology
1553	<i>Ustilago bromivora</i>	Ustilagino	Basidio	10	8	6	14	38	GCA_900101485.1	Institute of Bioinformatics and Systems Biology
1554	<i>Russula abietina</i>	Agarico	Basidio	7	0	2	29	38	GCA_003313715.1	Kunming University of Science and Technology
1555	<i>Powellomyces hirtus</i>	Chytridio	Chytridio	9	12	1	16	38	GCA_006536005.1	Agriculture and Agri-Food Canada
1556	<i>Pulveroboletus ravenelii</i>	Agarico	Basidio	6	2	4	26	38	GCA_003316545.1	Kunming University of Science and Technology
1557	<i>Conidiobolus incongruus</i>	Entomophthoro	Zoopago	7	2	1	27	37	GCA_000697335.1	IGS
1558	<i>Metarhizium album</i>	Sordario	Asco	11	4	6	16	37	GCA_000804445.1	Shanghai Institutes for Biological Sciences, CAS
1559	<i>Escovopsis weberi</i>	Sordario	Asco	15	4	7	11	37	GCA_003055145.1	University of East Anglia
1560	<i>Ophiocordyceps camponoti-floridani</i>	Sordario	Asco	9	6	3	19	37	GCA_012980515.1	University of Central Florida
1561	<i>Ophiocordyceps unilateralis</i>	Sordario	Asco	10	4	3	20	37	GCA_001272575.2	Utrecht University
1562	<i>Monascus ruber</i>	Eurotio	Asco	9	10	4	14	37	GCA_002976275.1	Fujian Institute of Microbiology
1563	<i>Apiotrichum domesticum</i>	Tremello	Basidio	9	2	12	14	37	GCA_001599015.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1564	<i>Trichosporon asahii</i>	Tremello	Basidio	11	4	4	18	37	GCA_001972365.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1565	<i>Trichosporon faecale</i>	Tremello	Basidio	10	5	4	18	37	GCA_001752585.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1566	<i>Cerataphis brasiliensis yeast-like symbiont</i>	0	Asco	8	4	4	21	37	GCA_000372705.1	University of Arizona
1567	<i>Ustilago vetiveriae</i>	Ustilagino	Basidio	12	7	6	12	37	GCA_001735935.1	RWTH Aachen University
1568	<i>Russula virescens</i>	Agarico	Basidio	10	0	1	26	37	GCA_003316435.1	Kunming University of Science and Technology
1569	<i>Ascodesmis nigricans</i>	Pezizo	Asco	14	6	5	12	37	GCA_004786065.1	DOE Joint Genome Institute
1570	<i>Leucoagaricus gongylophorus</i>	Agarico	Basidio	12	3	7	15	37	GCA_000382605.1	UW-Madison
1571	<i>Ceratocystiopsis brevicomis</i>	Sordario	Asco	8	12	2	14	36	GCA_002778105.1	University of Montana
1572	<i>Blastomyces emzantsi</i>	Eurotio	Asco	10	5	7	14	36	GCA_003206725.1	National Institute for Communicable Diseases
1573	<i>Apiotrichum montevidense</i>	Tremello	Basidio	9	2	12	13	36	GCA_001598995.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1574	<i>Ramalina peruviana</i>	Lecanoro	Asco	10	4	2	20	36	GCA_001956345.1	Yunnan Academy of Forestry

1575	<i>Umbilicaria muehlenbergii</i>	Lecanoro	Asco	12	2	2	20	36	GCA_000611775.1	Seoul National University
1576	<i>Lasallia hispanica</i>	Lecanoro	Asco	10	2	2	22	36	GCA_003254425.1	Senckenberg
1577	<i>Cutaneotrichosporon oleaginosum</i>	Tremello	Basidio	7	4	8	17	36	GCA_008065305.1	Ruhr-University Bochum
1578	<i>Hebeloma cylindrosporum</i>	Agarico	Basidio	12	2	2	20	36	GCA_000827355.1	DOE Joint Genome Institute
1579	<i>Rhizopogon salebrosus</i>	Agarico	Basidio	12	2	2	20	36	GCA_002995475.1	Oregon State University
1580	<i>Lactarius echinatus</i>	Agarico	Basidio	10	1	1	24	36	GCA_003315975.1	Kunming University of Science and Technology
1581	<i>Tremella fuciformis</i>	Tremello	Basidio	15	4	7	9	35	GCA_000987905.1	Fujian Agriculture and Forestry University
1582	<i>Ramalina intermedia</i>	Lecanoro	Asco	10	3	2	20	35	GCA_003073195.1	Yunnan Academy of Forestry
1583	<i>Tuber calosporum</i>	Pezizo	Asco	12	8	1	14	35	GCA_003316355.1	Kunming University of Science and Technology
1584	<i>Chaetothyriales sp. CBS 134920</i>	Eurotio	Asco	12	3	2	18	35	GCA_003693665.1	Westerdijk Fungal Biodiversity Institute
1585	<i>Phycomyces blakesleeanus</i>	Mucoro	Mucoro	8	14	0	13	35	GCA_001638985.2	JGI-PSF
1586	<i>Cutaneotrichosporon cyanovorans</i>	Tremello	Basidio	9	4	5	17	35	GCA_002335625.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1587	<i>Mrakia frigida</i>	Tremello	Basidio	8	10	3	14	35	GCA_001600395.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1588	<i>Naganishia sp. IF7SW-B1</i>	Tremello	Basidio	10	12	5	8	35	GCA_012922685.1	Jet Propulsion Laboratory, California Institute of Technology
1589	<i>Naganishia adeliensis</i>	Tremello	Basidio	10	12	5	8	35	GCA_012922715.1	Jet Propulsion Laboratory, California Institute of Technology
1590	<i>Glomus cerebriforme</i>	Glomero	Mucoro	4	1	0	30	35	GCA_003833025.1	University of Ottawa
1591	<i>Lactarius volemus</i>	Agarico	Basidio	5	0	1	29	35	GCA_003315835.1	Kunming University of Science and Technology
1592	<i>Diversispora epigaea</i>	Glomero	Mucoro	4	1	0	30	35	GCA_003547095.1	Cornell University
1593	<i>Erythrobasidium hasegawianum</i>	Cystobasidio	Basidio	10	2	6	16	34	GCA_001972285.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1594	<i>Escovopsis sp. AC</i>	Sordario	Asco	15	4	5	10	34	GCA_003055955.1	University of East Anglia
1595	<i>Lichtheimia ramosa</i>	Mucoro	Mucoro	6	12	2	14	34	GCA_000945115.1	HKI JENA
1596	<i>Apophysomyces elegans</i>	Mucoro	Mucoro	16	0	0	18	34	GCA_000696995.1	IGS
1597	<i>Apophysomyces variabilis</i>	Mucoro	Mucoro	16	0	0	18	34	GCA_002749535.1	Postgraduate Institute of medical education and research
1598	<i>Choanephora cucurbitarum</i>	Mucoro	Mucoro	9	10	0	15	34	GCA_001683725.1	Korea University
1599	<i>Cryptococcus amylolentus</i>	Tremello	Basidio	9	8	4	13	34	GCA_001720205.1	Broad Institute
1600	<i>Cryptococcus floricola</i>	Tremello	Basidio	8	8	4	14	34	GCA_006352305.1	Duke University

1601	<i>Naganishia liquefaciens</i>	Tremello	Basidio	10	12	4	8	34	GCA_013423385.1	School of Life Science and Technology, Tokyo Institute of Technology
1602	<i>Hygrocybe conica</i>	Agarico	Basidio	4	6	2	22	34	GCA_900068975.1	Royal Botanic Gardens, Kew
1603	<i>Ascospaera apis</i>	Eurotio	Asco	4	18	2	10	34	GCA_001636715.1	Shanghai Institutes for Biological Sciences, CAS
1604	<i>Escovopsis sp. Ae720</i>	Sordario	Asco	15	2	5	11	33	GCA_003055925.1	University of East Anglia
1605	<i>Escovopsis sp. Ae733</i>	Sordario	Asco	15	2	5	11	33	GCA_003055945.1	University of East Anglia
1606	<i>Lichtheimia corymbifera</i>	Mucoro	Mucoro	6	11	2	14	33	GCA_000697175.1	IGS
1607	<i>Tilletia indica</i>	Exobasidio	Basidio	11	2	2	18	33	GCA_001689995.1	ICAR-Indian Institute of Wheat and Barley Research, Karnal
1608	<i>Jimgerdemannia lactiflua</i>	Endogono	Mucoro	7	6	3	17	33	GCA_003951145.1	Oregon State University
1609	<i>Endocarpon pusillum</i>	Eurotio	Asco	12	2	0	19	33	GCA_000611755.1	Seoul National University
1610	<i>Terfezia boudieri</i>	Pezizo	Asco	11	8	6	8	33	GCA_003788615.2	DOE Joint Genome Institute
1611	<i>Alectoria sarmentosa</i>	Lecanoro	Asco	11	2	2	18	33	GCA_009733775.1	Universidad Complutense de Madrid
1612	<i>Nilaparvata lugens yeast-like symbiont</i>	0	Asco	8	4	4	17	33	GCA_000758425.1	Nilaparvata lugens Genome Consortium
1613	<i>Entoloma clypeatum</i>	Agarico	Basidio	12	4	1	16	33	GCA_900068945.1	Royal Botanic Gardens, Kew
1614	<i>Phlebopus portentosus</i>	Agarico	Basidio	6	2	1	24	33	GCA_000766925.2	Yunnan University
1615	<i>Tricholoma matsutake</i>	Agarico	Basidio	14	2	2	15	33	GCA_002939025.2	Korea University
1616	<i>Tilletia controversa</i>	Exobasidio	Basidio	8	7	1	16	32	GCA_001645045.2	Agriculture and Agri-Food Canada
1617	<i>Cystobasidiaceae sp. HBUAS51001</i>	Cystobasidio	Basidio	8	2	5	17	32	GCA_003351005.1	Hubei University of Arts and Science
1618	<i>Escovopsis sp. Ae724</i>	Sordario	Asco	14	2	5	11	32	GCA_003055165.1	University of East Anglia
1619	<i>Tolypocladium capitatum</i>	Sordario	Asco	10	4	6	12	32	GCA_002901185.1	Oregon State University
1620	<i>Chytriumyces confervae</i>	Chytridio	Chytridio	2	12	2	16	32	GCA_006535975.1	Agriculture and Agri-Food Canada
1621	<i>Tilletia caries</i>	Exobasidio	Basidio	8	7	1	16	32	GCA_001645005.2	Agriculture and Agri-Food Canada
1622	<i>Trichosporon inkin</i>	Tremello	Basidio	8	4	2	18	32	GCA_001752625.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1623	<i>Thecaphora thlaspeos</i>	Ustilagino	Basidio	9	10	1	12	32	GCA_900260175.1	RWTH Aachen University
1624	<i>Lasallia pustulata</i>	Lecanoro	Asco	10	2	2	18	32	GCA_008636195.1	University of Frankfurt
1625	<i>Emmonsia crescens</i>	Eurotio	Asco	10	6	4	12	32	GCA_002572855.1	Broad Institute
1626	<i>Rhodotorula paludigena</i>	Microbotryo	Basidio	8	4	4	16	32	GCA_005281665.1	Suranaree University of Technology
1627	<i>Kwoniella shandongensis</i>	Tremello	Basidio	8	8	4	12	32	GCA_008629635.1	Broad Institute
1628	<i>Microbotryum silenes-dioicae</i>	Microbotryo	Basidio	8	5	1	18	32	GCA_900120095.1	ESE
1629	<i>Absidia repens</i>	Mucoro	Mucoro	8	1	0	22	31	GCA_002105175.1	DOE Joint Genome Institute
1630	<i>Rhizomucor pusillus</i>	Mucoro	Mucoro	7	8	0	16	31	GCA_900175165.2	CHALMERS UNIVERSITY OF TECHNOLOGY

1631	<i>Ustilago esculenta</i>	Ustilagino	Basidio	8	5	2	16	31	GCA_000819925.1	Zhejiang Provincial Key Laboratory of Biometrology and Inspection & Quarantine
1632	<i>Emergomyces orientalis</i>	Eurotio	Asco	11	5	3	12	31	GCA_002110485.1	Beijing Institute of Radiation Medicine
1633	<i>Laccaria bicolor</i>	Agarico	Basidio	6	1	0	24	31	GCA_000143565.1	Laccaria Genome Consortium
1634	<i>Smittium culicis</i>	Harpello	Zoopago	1	0	0	30	31	GCA_001970855.1	University of Toronto
1635	<i>Hygrophorus pudorinus</i>	Agarico	Basidio	6	4	1	20	31	GCA_003314045.1	Kunming University of Science and Technology
1636	<i>Melampsora pinitorqua</i>	Puccinio	Basidio	6	12	5	8	31	GCA_000464645.1	Tree Aggressors Identification using Genomic Approaches
1637	<i>Lactifluus rugatus</i>	Agarico	Basidio	7	1	2	21	31	GCA_003315895.1	Kunming University of Science and Technology
1638	<i>Russula lepida</i>	Agarico	Basidio	8	0	2	21	31	GCA_003316425.1	Kunming University of Science and Technology
1639	<i>Mucor velutinosus</i>	Mucoro	Mucoro	6	2	2	20	30	GCA_000696895.1	IGS
1640	<i>Mucor circinelloides</i>	Mucoro	Mucoro	8	2	0	20	30	GCA_001599575.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1641	<i>Mucor irregularis</i>	Mucoro	Mucoro	8	1	1	20	30	GCA_000587855.1	Nanjing Biozeron
1642	<i>Jimgerdemannia flammicorona</i>	Endogono	Mucoro	3	6	4	17	30	GCA_003990745.1	DOE Joint Genome Institute
1643	<i>Chaetothyriales sp. CBS 134916</i>	Eurotio	Asco	10	0	2	18	30	GCA_003709845.1	Westerdijk Fungal Biodiversity Institute
1644	<i>Apophysomyces trapeziformis</i>	Mucoro	Mucoro	12	0	0	18	30	GCA_000696975.1	IGS
1645	<i>Chaetothyriales sp. CBS 135597</i>	Eurotio	Asco	10	3	1	16	30	GCA_003709825.1	Westerdijk Fungal Biodiversity Institute
1646	<i>Thermomyces lanuginosus</i>	Eurotio	Asco	11	4	3	12	30	GCA_000315935.1	Durban University of Technology
1647	<i>Naganishia albida</i>	Tremello	Basidio	8	8	4	10	30	GCA_001599735.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1648	<i>Blastomyces silvaeae</i>	Eurotio	Asco	10	5	3	12	30	GCA_001014755.1	Broad Institute
1649	<i>Emergomyces pasteurianus</i>	Eurotio	Asco	11	4	2	13	30	GCA_001883825.1	Broad Institute
1650	<i>Rhizopogon fuscorubens</i>	Agarico	Basidio	8	0	2	20	30	GCA_002995455.1	Oregon State University
1651	<i>Rhizophagus irregularis</i>	Glomero	Mucoro	3	1	0	26	30	GCA_002897155.1	NIBB core research facilities, National Institutes for Basic Biology
1652	<i>Tricholoma terreum</i>	Agarico	Basidio	6	2	2	20	30	GCA_003316345.1	Kunming University of Science and Technology
1653	<i>Rhizophagus clarus</i>	Glomero	Mucoro	6	1	0	23	30	GCA_003203555.1	National Institute for Basic Biology
1654	<i>Pyrrhoderma noxium</i>	Agarico	Basidio	9	4	0	17	30	GCA_002287475.2	Academia Sinica
1655	<i>Chrysosporium queenslandicum</i>	Eurotio	Asco	8	1	2	18	29	GCA_001430955.1	UC Berkeley
1656	<i>Cryptococcus wingfieldii</i>	Tremello	Basidio	4	8	4	13	29	GCA_001720155.1	Broad Institute

1657	<i>Erythrobasidium yunnanense</i>	Cystobasidio	Basidio	8	4	5	12	29	GCA_001600175.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1658	<i>Naganishia randhawae</i>	Tremello	Basidio	8	10	2	9	29	GCA_013461525.1	Wits University
1659	<i>Microbotryum saponariae</i>	Microbotryo	Basidio	8	3	1	17	29	GCA_900102585.1	ESE
1660	<i>Tricholoma sp. MG99</i>	Agarico	Basidio	11	0	1	17	29	GCA_003521275.1	Kunming University of Science and Technology
1661	<i>Laccaria amethystina</i>	Agarico	Basidio	8	1	2	18	29	GCA_000827195.1	DOE Joint Genome Institute
1662	<i>Allomyces macrogynus</i>	Blastocladio	Blastocladio	2	7	9	10	28	GCA_000151295.1	Broad Institute
1663	<i>Amauroascus niger</i>	Eurotio	Asco	8	2	1	17	28	GCA_001430945.1	UC Berkeley
1664	<i>Rhizomucor miehei</i>	Mucoro	Mucoro	6	8	2	12	28	GCA_000611695.1	Department of Biotechnology, College of Food Science and Nutritional Engineering, China Agricultural University
1665	<i>Rhizopus microsporus</i>	Mucoro	Mucoro	12	6	0	10	28	GCA_006680115.1	TGen-North
1666	<i>Thermomucor indicae-seudaticae</i>	Mucoro	Mucoro	4	8	2	14	28	GCA_000787465.1	Aalborg University
1667	<i>Rhodotorula graminis</i>	Microbotryo	Basidio	6	5	5	12	28	GCA_001329695.1	DOE Joint Genome Institute
1668	<i>Ceraceosorus guamensis</i>	Exobasidio	Basidio	8	4	1	15	28	GCA_003144195.1	DOE Joint Genome Institute
1669	<i>Blastomyces parvus</i>	Eurotio	Asco	10	5	3	10	28	GCA_002572885.1	Broad Institute
1670	<i>Cutaneotrichosporon curvatum</i>	Tremello	Basidio	8	4	4	12	28	GCA_001600275.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1671	<i>Coemansia reversa</i>	Kickxello	Zoopago	4	2	0	22	28	GCA_002705745.1	JGI
1672	<i>Cetradonia linearis</i>	Lecanoro	Asco	7	2	1	18	28	GCA_003521265.1	The New York Botanical Garden
1673	<i>Blyttomyces helicus</i>	Chytridio	Chytridio	6	4	0	18	28	GCA_003614705.1	DOE Joint Genome Institute
1674	<i>Microbotryum silenae-acaulis</i>	Microbotryo	Basidio	6	5	1	16	28	GCA_003665825.1	Universite Paris Sud
1675	<i>Naematelia encephala</i>	Tremello	Basidio	4	12	4	8	28	GCA_002105065.1	DOE Joint Genome Institute
1676	<i>Filobasidium wieringae</i>	Tremello	Basidio	10	6	6	6	28	GCA_001600055.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1677	<i>Chaetothyriales sp. CBS 132003</i>	Eurotio	Asco	8	0	1	18	27	GCA_003709865.1	Westerdijk Fungal Biodiversity Institute
1678	<i>Ceraceosorus bombacis</i>	Exobasidio	Basidio	8	3	1	15	27	GCA_900000165.1	IPF
1679	<i>Blastomyces percursus</i>	Eurotio	Asco	8	7	2	10	27	GCA_001883805.1	Broad Institute
1680	<i>Scleroderma citrinum</i>	Agarico	Basidio	4	1	5	17	27	GCA_000827425.1	DOE Joint Genome Institute
1681	<i>Microbotryum intermedium</i>	Microbotryo	Basidio	6	4	1	16	27	GCA_900096595.1	ESE
1682	<i>Mucor lusitanicus</i>	Mucoro	Mucoro	6	2	0	18	26	GCA_010203745.1	DOE Joint Genome Institute
1683	<i>Drechmeria coniospora</i>	Sordario	Asco	8	5	1	12	26	GCA_001625195.1	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences
1684	<i>Parasitella parasitica</i>	Mucoro	Mucoro	6	1	1	18	26	GCA_000938895.1	FRIEDRICH SCHILLER UNIVERSITY JENA
1685	<i>Aspergillus cejpaii</i>	Eurotio	Asco	10	4	0	12	26	GCA_004769165.1	Guangdong Institute of Microbiology

1686	<i>Antarctomyces pellizariae</i>	Leotio	Asco	13	5	0	8	26	GCA_010623925.1	UFMG - Universidade Federal de Minas Gerais
1687	<i>Histoplasma capsulatum</i>	Eurotio	Asco	9	3	2	12	26	GCA_000313325.1	Taipei Medical University
1688	<i>Blastomyces gilchristii</i>	Eurotio	Asco	10	4	2	10	26	GCA_000003855.2	Broad Institute
1689	<i>Tricholoma sp. MG77</i>	Agarico	Basidio	6	2	0	18	26	GCA_003314665.1	Kunming University of Science and Technology
1690	<i>Sarcodon aspratus</i>	Agarico	Basidio	6	2	5	13	26	GCA_003313825.1	Kunming University of Science and Technology
1691	<i>Kwoniella bestiolae</i>	Tremello	Basidio	4	8	4	10	26	GCA_000512585.2	Broad Institute
1692	<i>Basidiobolus heterosporus</i>	Basidiobolo	Zoopago	6	0	1	18	25	GCA_000697455.1	IGS
1693	<i>Mucor ambiguus</i>	Mucoro	Mucoro	7	2	0	16	25	GCA_000950595.1	National Institute of Advanced Industrial Science and Technology (AIST)
1694	<i>Actinomucor elegans</i>	Mucoro	Mucoro	6	2	0	17	25	GCA_001599635.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1695	<i>Quambalaria eucalypti</i>	Exobasidio	Basidio	4	8	1	12	25	GCA_004016185.1	University of Pretoria
1696	<i>Jaminaea rosea</i>	Exobasidio	Basidio	6	8	1	10	25	GCA_003144245.1	DOE Joint Genome Institute
1697	<i>Holtermannia corniformis</i>	Tremello	Basidio	9	4	1	11	25	GCA_001599935.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1698	<i>Cryptococcus neoformans AD hybrid</i>	Tremello	Basidio	5	2	0	18	25	GCA_006992865.1	Weill Cornell Medicine
1699	<i>Kwoniella dejecticola</i>	Tremello	Basidio	5	8	2	10	25	GCA_000512565.2	Broad Institute
1700	<i>Salmacisia buchloeana</i>	Exobasidio	Basidio	9	2	0	13	24	GCA_001990185.1	Pennsylvania State University
1701	<i>Entomophthora muscae</i>	Entomophthoro	Zoopago	6	0	0	18	24	GCA_900018355.1	UNIVERSITY OF COPENHAGEN
1702	<i>Saksenaea vasiformis</i>	Mucoro	Mucoro	8	0	0	16	24	GCA_000697055.1	IGS
1703	<i>Saksenaea oblongispora</i>	Mucoro	Mucoro	8	0	0	16	24	GCA_000697495.1	IGS
1704	<i>Cystobasidiopsis lactophilus</i>	Agaricostilbo	Basidio	6	1	1	16	24	GCA_001599975.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1705	<i>Endogone sp. FLAS-F59071</i>	Endogono	Mucoro	4	3	1	16	24	GCA_003990785.1	DOE Joint Genome Institute
1706	<i>Blastomyces dermatitidis</i>	Eurotio	Asco	8	4	2	10	24	GCA_000003525.2	Broad Institute
1707	<i>Rhodotorula toruloides</i>	Microbotryo	Basidio	6	1	3	14	24	GCA_001255795.1	UCB
1708	<i>Pseudomicrostroma glucosiphilum</i>	Exobasidio	Basidio	8	2	4	10	24	GCA_003144135.1	DOE Joint Genome Institute
1709	<i>Microbotryum violaceum</i>	Microbotryo	Basidio	5	3	1	15	24	GCA_900015485.1	INRA-LIPM
1710	<i>Tricholoma flavovirens</i>	Agarico	Basidio	5	0	2	17	24	GCA_003313805.1	Kunming University of Science and Technology
1711	<i>Oehlia diaphana</i>	Glomero	Mucoro	3	1	0	20	24	GCA_003833135.1	University of Ottawa
1712	<i>Mortierella elongata</i>	Mortierello	Mucoro	4	4	1	14	23	GCA_001651415.1	DOE Joint Genome Institute
1713	<i>Tilletiopsis washingtonensis</i>	Exobasidio	Basidio	4	5	2	12	23	GCA_003144115.1	DOE Joint Genome Institute
1714	<i>Microsporium canis</i>	Eurotio	Asco	6	2	1	14	23	GCA_000151145.1	Broad Institute
1715	<i>Xeromyces bisporus</i>	Eurotio	Asco	7	5	3	8	23	GCA_900006255.1	UPPSALA UNIVERSITET
1716	<i>Rhodotorula sp. ZM1</i>	Microbotryo	Basidio	6	0	3	14	23	GCA_009806315.1	Zhejiang Normal University

1717	<i>Tricholoma bakamatsutake</i>	Agarico	Basidio	9	0	1	13	23	GCA_003313665.1	Kunming University of Science and Technology
1718	<i>Holtermanniella nyarrowii</i>	Tremello	Basidio	7	7	2	7	23	GCA_001600035.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1719	<i>Hygrophorus russula</i>	Agarico	Basidio	2	1	2	18	23	GCA_003314125.1	Kunming University of Science and Technology
1720	<i>Rhizophagus sp. MUCL 43196</i>	Glomero	Mucoro	3	1	0	19	23	GCA_003549995.1	INRA
1721	<i>Phellinus lamaoensis</i>	Agarico	Basidio	6	2	1	14	23	GCA_002794735.1	Academia Sinica
1722	<i>Mortierella verticillata</i>	Mortierello	Mucoro	4	2	0	16	22	GCA_000739165.1	Broad Institute
1723	<i>Mortierella alpina</i>	Mortierello	Mucoro	4	2	2	14	22	GCA_000507065.1	IGS
1724	<i>Tilletia walkeri</i>	Exobasidio	Basidio	6	3	1	12	22	GCA_009428295.1	Agriculture and Agri-Food Canada
1725	<i>Cunninghamella bertholletiae</i>	Mucoro	Mucoro	6	2	0	14	22	GCA_000697215.1	IGS
1726	<i>Nannizzia gypsea</i>	Eurotio	Asco	7	0	0	15	22	GCA_000150975.2	Broad Institute
1727	<i>Cokeromyces recurvatus</i>	Mucoro	Mucoro	4	0	0	18	22	GCA_000697235.1	IGS
1728	<i>Emmonsia sp. CAC-2015a</i>	Eurotio	Asco	8	2	2	10	22	GCA_001660665.1	Broad Institute
1729	<i>Symmetrospora coprosmae</i>	Cystobasidio	Basidio	7	4	2	9	22	GCA_008802785.1	University College Dublin
1730	<i>Glaciozyma antarctica</i>	Microbotryo	Basidio	6	0	2	14	22	GCA_002917775.1	Malaysia Genome Institute
1731	<i>Cryptococcus neoformans</i>	Tremello	Basidio	5	4	2	11	22	GCA_002216725.1	Washington University in St. Louis
1732	<i>Phaeotremella skinneri</i>	Tremello	Basidio	4	5	3	10	22	GCA_001599695.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1733	<i>Puccinia novopanici</i>	Puccinio	Basidio	10	0	0	12	22	GCA_004348175.1	Noble Research Institute
1734	<i>Takashimella tepidaria</i>	Tremello	Basidio	3	7	4	8	22	GCA_003116915.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1735	<i>fungus sp. Mo6-1</i>	0	0	6	2	5	8	21	GCA_002939055.1	University of Montana
1736	<i>Absidia glauca</i>	Mucoro	Mucoro	4	1	1	15	21	GCA_900079185.1	FRIEDRICH SCHILLER UNIVERSITY JENA
1737	<i>Amauroascus mutatus</i>	Eurotio	Asco	6	2	1	12	21	GCA_001430935.1	UC Berkeley
1738	<i>Hesseltinella vesiculosa</i>	Mucoro	Mucoro	4	0	0	17	21	GCA_002104935.1	DOE Joint Genome Institute
1739	<i>Conidiobolus coronatus</i>	Entomophthoro	Zoopago	5	1	0	15	21	GCA_001566745.1	JGI-PSF
1740	<i>Rhodotorula diobovata</i>	Microbotryo	Basidio	5	2	2	12	21	GCA_006352295.1	University of Manitoba
1741	<i>Tilletiaria anomala</i>	Exobasidio	Basidio	6	3	0	12	21	GCA_000711695.1	DOE Joint Genome Institute
1742	<i>Puccinia coronata</i>	Puccinio	Basidio	6	0	0	15	21	GCA_002873275.1	University of Minnesota
1743	<i>Cryptococcus gattii VGII</i>	Tremello	Basidio	4	3	1	13	21	GCA_003011995.1	Jawaharlal Nehru Centre for Advanced Scientific Research
1744	<i>Puccinia graminis</i>	Puccinio	Basidio	9	0	0	12	21	GCA_008522505.1	University of Minnesota
1745	<i>Synchytrium endobioticum</i>	Chytridio	Chytridio	6	2	0	13	21	GCA_006536045.1	Agriculture and Agri-Food Canada
1746	<i>Amanita muscaria</i>	Agarico	Basidio	4	1	0	16	21	GCA_000827485.1	DOE Joint Genome Institute
1747	<i>Cunninghamella elegans</i>	Mucoro	Mucoro	6	2	0	12	20	GCA_000697015.1	IGS

1748	<i>Arthroderma uncinatum</i>	Eurotio	Asco	6	0	1	13	20	GCA_011692745.1	Chinese Academy of Medical Science and Peking Union Medical College
1749	<i>Mrakia blollopis</i>	Tremello	Basidio	4	2	4	10	20	GCA_000950635.1	National Institute of Advanced Industrial Science and Technology (AIST)
1750	<i>Piedraia hortae</i>	Dothideo	Asco	2	2	4	12	20	GCA_010093745.1	DOE Joint Genome Institute
1751	<i>Mrakia psychrophila</i>	Tremello	Basidio	4	4	4	8	20	GCA_001889225.1	Institute Of Microbiology Chinese Academy of Sciences
1752	<i>Protomyces lactucaedebilis</i>	Taphrino	Asco	4	6	2	8	20	GCA_002105105.1	DOE Joint Genome Institute
1753	<i>Paracoccidioides lutzii</i>	Eurotio	Asco	7	1	2	10	20	GCA_000150705.2	Broad Institute
1754	<i>Protomyces macrosporus</i>	Taphrino	Asco	4	6	2	8	20	GCA_003717175.1	University of Helsinki
1755	<i>Zoophagus insidians</i>	Zoopago	Zoopago	0	10	0	10	20	GCA_004114325.1	University of Michigan
1756	<i>Trichophyton mentagrophytes</i>	Eurotio	Asco	5	2	0	12	19	GCA_003664465.1	North-Western State Medical University named after I.I. Mechnikov
1757	<i>Trichophyton benhamiae</i>	Eurotio	Asco	5	2	0	12	19	GCA_001858085.1	Swiss Institute of Bioinformatics
1758	<i>Trichophyton equinum</i>	Eurotio	Asco	5	0	0	14	19	GCA_000151175.1	Broad Institute
1759	<i>Trichophyton tonsurans</i>	Eurotio	Asco	5	0	0	14	19	GCA_000151455.1	Broad Institute
1760	<i>Protomyces inouyei</i>	Taphrino	Asco	4	4	3	8	19	GCA_003717155.1	University of Helsinki
1761	<i>Saitoella complicata</i>	0	Asco	6	2	1	10	19	GCA_000227095.3	Saitoella complicata genome sequencing consortium
1762	<i>Malassezia furfur</i>	Malassezio	Basidio	6	1	0	12	19	GCA_002551515.1	University of Utrecht
1763	<i>Onygena corvina</i>	Eurotio	Asco	6	0	0	12	18	GCA_000812245.1	Aalborg University
1764	<i>Coccidioides immitis</i>	Eurotio	Asco	6	1	1	10	18	GCA_004115165.2	TGen North
1765	<i>Paracoccidioides brasiliensis</i>	Eurotio	Asco	6	1	2	9	18	GCA_000150475.2	Broad Institute
1766	<i>Cryptococcus gattii VGIV</i>	Tremello	Basidio	4	1	1	12	18	GCA_000835755.1	Broad Institute
1767	<i>Pisolithus tinctorius</i>	Agarico	Basidio	3	0	1	14	18	GCA_000827335.1	DOE Joint Genome Institute
1768	<i>Amanita brunnescens</i>	Agarico	Basidio	4	4	1	9	18	GCA_001691785.2	Harvard University
1769	<i>Trichophyton verrucosum</i>	Eurotio	Asco	5	0	0	12	17	GCA_000151505.1	Arthroderma Genome Sequencing Consortium
1770	<i>Trichophyton rubrum</i>	Eurotio	Asco	5	0	0	12	17	GCA_000616845.1	Broad Institute
1771	<i>Trichophyton soudanense</i>	Eurotio	Asco	5	0	0	12	17	GCA_000616865.1	Broad Institute
1772	<i>Trichophyton interdigitale</i>	Eurotio	Asco	5	0	0	12	17	GCA_000622975.1	Broad Institute
1773	<i>Trichophyton kuryangei</i>	Eurotio	Asco	5	0	0	12	17	GCA_012184535.1	Belgian Coordinated Collection of Microorganisms, BCCM
1774	<i>Trichophyton violaceum</i>	Eurotio	Asco	5	0	0	12	17	GCA_001651435.1	Chinese Academy of Medical Science & Peking Union Medical College
1775	<i>Trichophyton yaoundei</i>	Eurotio	Asco	5	0	0	12	17	GCA_012184575.1	Belgian Coordinated Collection of Microorganisms, BCCM
1776	<i>Bysoonygena ceratinophila</i>	Eurotio	Asco	6	1	0	10	17	GCA_001430925.1	UC Berkeley
1777	<i>Rhodotorula mucilaginosa</i>	Microbotryo	Basidio	4	3	0	10	17	GCA_003055205.1	Indian Institute Of Chemical biology

1778	<i>Rhodotorula sp. JG-1b</i>	Microbotryo	Basidio	3	3	1	10	17	GCA_001541205.1	DOE Joint Genome Institute
1779	<i>Thelephora aurantiotincta</i>	Agarico	Basidio	4	0	3	10	17	GCA_003316405.1	Kunming University of Science and Technology
1780	<i>Cryptococcus cf. gattii</i>	Tremello	Basidio	4	2	1	10	17	GCA_009650685.1	Broad Institute
1781	<i>Cryptococcus gattii VGIII</i>	Tremello	Basidio	4	2	1	10	17	GCA_000836335.1	Broad Institute
1782	<i>Pisolithus microcarpus</i>	Agarico	Basidio	2	2	1	12	17	GCA_000827275.1	JGI
1783	<i>Sarcodon sp. MG97</i>	Agarico	Basidio	5	2	1	9	17	GCA_003313065.1	Kunming University of Science and Technology
1784	<i>Xylona heveae</i>	Xylono	Asco	6	0	0	10	16	GCA_001619985.1	DOE Joint Genome Institute
1785	<i>Uncinocarpus reesii</i>	Eurotio	Asco	6	1	1	8	16	GCA_000003515.2	Broad Institute
1786	<i>Taphrina betulina</i>	Taphrino	Asco	4	2	2	8	16	GCA_008802775.1	University College Dublin
1787	<i>Protomyces sp. C29</i>	Taphrino	Asco	4	4	0	8	16	GCA_003568695.1	University of Helsinki
1788	<i>Protomyces gravidus</i>	Taphrino	Asco	4	4	0	8	16	GCA_003717255.1	University of Helsinki
1789	<i>Cryptococcus gattii VGI</i>	Tremello	Basidio	3	1	1	11	16	GCA_000836355.1	Broad Institute
1790	<i>Wallemia hederiae</i>	Wallemio	Basidio	7	2	0	7	16	GCA_004918325.1	Biotechnical Faculty, University of Ljubljana
1791	<i>Malassezia globosa</i>	Malassezio	Basidio	4	0	0	12	16	GCA_001264805.1	Genome Institute of Singapore
1792	<i>Caulochytrium protostelioides</i>	Chytridio	Chytridio	2	2	3	8	15	GCA_003615045.1	DOE Joint Genome Institute
1793	<i>Podosphaera leucotricha</i>	Leotio	Asco	2	2	2	9	15	GCA_013170925.1	Washington State University
1794	<i>Rhodotorula taiwanensis</i>	Microbotryo	Basidio	3	1	1	10	15	GCA_002922495.1	Lawrence Livermore National Laboratory
1795	<i>Taphrina sp. SM11</i>	Taphrino	Asco	4	2	2	7	15	GCA_004000165.1	University of Helsinki
1796	<i>Erysiphe pulchra</i>	Leotio	Asco	2	6	2	5	15	GCA_002918395.1	USDA-ARS
1797	<i>Kwoniella mangrovensis</i>	Tremello	Basidio	2	3	2	8	15	GCA_000507485.3	Broad Institute
1798	<i>Lobosporangium transversale</i>	Mortierello	Mucoro	2	2	0	10	14	GCA_002105155.1	DOE Joint Genome Institute
1799	<i>Spizellomyces sp. 'palustris'</i>	Chytridio	Chytridio	5	0	0	9	14	GCA_006535965.1	Agriculture and Agri-Food Canada
1800	<i>Protomyces pachydermus</i>	Taphrino	Asco	4	4	0	6	14	GCA_003717275.1	University of Helsinki
1801	<i>Taphrina pruni</i>	Taphrino	Asco	2	5	1	6	14	GCA_005281585.1	Northwest A&F University
1802	<i>Taphrina flavorubra</i>	Taphrino	Asco	2	5	1	6	14	GCA_000836175.1	University of Miyazaki
1803	<i>Golovinomyces cichoracearum</i>	Leotio	Asco	2	3	2	7	14	GCA_003611215.1	University of Maryland
1804	<i>Golubevia sp. BC0812</i>	Exobasidio	Basidio	3	2	0	9	14	GCA_012976215.1	Wageningen UR
1805	<i>Amanita phalloides</i>	Agarico	Basidio	4	0	0	10	14	GCA_001983385.1	Michigan State University
1806	<i>Malassezia caprae</i>	Malassezio	Basidio	4	0	0	10	14	GCA_001264625.1	Genome Institute of Singapore
1807	<i>Rhodotorula sp. CCFEE 5036</i>	Microbotryo	Basidio	4	1	0	8	13	GCA_005059875.1	University of California, Riverside
1808	<i>Taphrina confusa</i>	Taphrino	Asco	2	4	1	6	13	GCA_005281535.1	Northwest A&F University
1809	<i>Blumeria graminis</i>	Leotio	Asco	1	3	1	8	13	GCA_900237765.1	MAX PLANCK INSTITUTE FOR PLANT BREEDING RESEARCH
1810	<i>Ophidiomyces ophioidicola</i>	Eurotio	Asco	5	0	0	8	13	GCA_002167195.1	University of Arizona
1811	<i>Taphrina communis</i>	Taphrino	Asco	2	4	1	6	13	GCA_005281525.1	Northwest A&F University
1812	<i>Taphrina deformans</i>	Taphrino	Asco	4	2	1	6	13	GCA_005281805.1	Northwest A&F University
1813	<i>Golubevia sp. BC0902</i>	Exobasidio	Basidio	3	2	0	8	13	GCA_012976205.1	Wageningen UR
1814	<i>Sporidiobolus pararoseus</i>	Microbotryo	Basidio	4	0	1	8	13	GCA_010758995.1	Shenyang Agricultural University

1815	<i>Malassezia obtusa</i>	Malassezio	Basidio	3	1	0	9	13	GCA_001264985.1	Genome Institute of Singapore
1816	<i>Mortierella sp. BCC40632</i>	Mortierello	Mucoro	2	0	0	10	12	GCA_011634665.1	National Center for Genetic Engineering and Biotechnology
1817	<i>Taphrina wiesneri</i>	Taphrino	Asco	3	3	0	6	12	GCA_005281515.1	Northwest A&F University
1818	<i>Spizellomyces punctatus</i>	Chytridio	Chytridio	4	0	0	8	12	GCA_000182565.2	Broad Institute
1819	<i>Mixia osmundae</i>	Mixio	Basidio	2	0	0	10	12	GCA_000708205.1	DOE Joint Genome Institute
1820	<i>Zoopage sp. CT-All</i>	Zoopago	Zoopago	0	0	4	8	12	GCA_004114245.1	University of Michigan
1821	<i>Malassezia japonica</i>	Malassezio	Basidio	3	0	0	9	12	GCA_001600795.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1822	<i>Golubevia sp. BC0850</i>	Exobasidio	Basidio	2	2	0	8	12	GCA_012976225.1	Wageningen UR
1823	<i>Amanita bisporigera</i>	Agarico	Basidio	4	0	0	8	12	GCA_001983365.1	Michigan State University
1824	<i>Malassezia equina</i>	Malassezio	Basidio	2	0	0	10	12	GCA_001264685.1	Genome Institute of Singapore
1825	<i>Neolecta irregularis</i>	Neolecto	Asco	3	2	2	5	12	GCA_001929475.1	University of California, Riverside
1826	<i>Malassezia nana</i>	Malassezio	Basidio	3	0	0	9	12	GCA_001600835.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1827	<i>Malassezia dermatis</i>	Malassezio	Basidio	2	0	0	10	12	GCA_001600775.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1828	<i>Puccinia striiformis</i>	Puccinio	Basidio	8	1	1	2	12	GCA_011750755.1	Australian National University
1829	<i>Golubevia pallescens</i>	Exobasidio	Basidio	3	3	0	6	12	GCA_001599655.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1830	<i>Smittium angustum</i>	Harpello	Zoopago	0	0	0	11	11	GCA_003097675.1	University of Toronto
1831	<i>Furculomyces boomerangus</i>	Harpello	Zoopago	0	0	0	11	11	GCA_003086725.1	University of Toronto
1832	<i>Taphrina populina</i>	Taphrino	Asco	3	3	0	5	11	GCA_000836195.1	University of Miyazaki
1833	<i>fungus sp. ARF18</i>	0	0	4	0	0	7	11	GCA_002224055.1	University of Arkansas
1834	<i>Puccinia triticina</i>	Puccinio	Basidio	6	0	0	5	11	GCA_013090125.1	University of Sydney
1835	<i>Malassezia cuniculi</i>	Malassezio	Basidio	3	0	0	8	11	GCA_001264635.1	Genome Institute of Singapore
1836	<i>Malassezia slooffiae</i>	Malassezio	Basidio	3	0	0	8	11	GCA_010577765.1	Jawaharlal Nehru Centre for Advanced Scientific Research
1837	<i>Amanita pseudoporphyria</i>	Agarico	Basidio	4	0	0	7	11	GCA_003316615.1	Kunming University of Science and Technology
1838	<i>Smittium mucronatum</i>	Harpello	Zoopago	0	2	1	7	10	GCA_001953115.1	University of Toronto
1839	<i>Puccinia sorghi</i>	Puccinio	Basidio	4	0	0	6	10	GCA_001263375.1	BIA - FCEN - UBA
1840	<i>Piptocephalis cylindrospora</i>	Zoopago	Zoopago	1	0	0	9	10	GCA_003614145.1	DOE Joint Genome Institute
1841	<i>Malassezia sympodialis</i>	Malassezio	Basidio	2	0	0	8	10	GCA_001264715.1	Genome Institute of Singapore
1842	<i>Malassezia pachydermatis</i>	Malassezio	Basidio	3	0	0	7	10	GCA_001264975.1	Genome Institute of Singapore
1843	<i>Amanita polypyramis</i>	Agarico	Basidio	2	0	0	8	10	GCA_001691755.2	Harvard University
1844	<i>Kwonilella pini</i>	Tremello	Basidio	2	2	2	4	10	GCA_000512605.2	Broad Institute
1845	<i>Massospora cicadina</i>	Entomophthoro	Zoopago	2	0	0	7	9	GCA_006912075.1	University of Michigan

1846	<i>Massospora platyediae</i>	Entomophthoro	Zoopago	4	0	0	5	9	GCA_006912095.1	University of California, Riverside
1847	<i>Thamnocephalis sphaerospora</i>		Zoopago	0	0	2	7	9	GCA_003614735.1	DOE Joint Genome Institute
1848	<i>Oidium heveae</i>	Leotio	Asco	1	2	0	6	9	GCA_003957845.1	Hainan University
1849	<i>Amanita inopinata</i>	Agarico	Basidio	2	0	0	7	9	GCA_001691775.3	Harvard University
1850	<i>Acaulopage tetraceros</i>	Zoopago	Zoopago	1	0	0	8	9	GCA_004114255.1	University of Michigan
1851	<i>Wallemia ichthyophaga</i>	Wallemio	Basidio	4	1	0	4	9	GCA_004918895.1	Biotechnical Faculty, University of Ljubljana
1852	<i>Amanita jacksonii</i>	Agarico	Basidio	1	0	0	8	9	GCA_000497225.1	University of Toronto
1853	<i>Malassezia vespertilionis</i>	Malassezio	Basidio	2	0	0	7	9	GCA_002818225.1	US Forest Service
1854	<i>Homolaphlyctis polyrhiza</i>	Chytridio	Chytridio	0	0	0	8	8	GCA_000235945.1	University of Idaho, Initiative for Bioinformatics and Evolutionary Studies
1855	<i>Capniomyces stellatus</i>	Harpello	Zoopago	0	0	0	8	8	GCA_001661515.1	University of Toronto
1856	<i>Smittium simulii</i>	Harpello	Zoopago	0	0	0	8	8	GCA_003086735.1	University of Toronto
1857	<i>Oidium neolycopersici</i>	Leotio	Asco	2	1	0	5	8	GCA_003610855.1	University of Maryland
1858	<i>Cystobasidium pallidum</i>	Cystobasidio	Basidio	2	0	2	4	8	GCA_001599955.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1859	<i>uncultured Malassezia</i>	Malassezio	Basidio	2	0	0	6	8	GCA_903798065.1	EBI
1860	<i>Malassezia restricta</i>	Malassezio	Basidio	2	0	0	6	8	GCA_001264725.1	Genome Institute of Singapore
1861	<i>Puccinia hordei</i>	Puccinio	Basidio	4	0	0	4	8	GCA_007896445.1	University of Sydney
1862	<i>Malassezia yamatoensis</i>	Malassezio	Basidio	2	0	0	6	8	GCA_001264885.1	Genome Institute of Singapore
1863	<i>Catenaria anguillulae</i>	Blastocladio	Blastocladio	0	1	2	4	7	GCA_002102555.1	DOE Joint Genome Institute
1864	<i>Zancudomyces culisetae</i>	Harpello	Zoopago	2	1	0	4	7	GCA_001969505.1	University of Toronto
1865	<i>Batrachochytrium dendrobatidis</i>	Chytridio	Chytridio	1	0	0	6	7	GCA_003595275.1	University of Otago
1866	<i>Smittium megazygosporum</i>	Harpello	Zoopago	0	0	0	7	7	GCA_003086715.1	University of Toronto
1867	<i>Syncephalis pseudoplumigaleata</i>	Zoopago	Zoopago	2	1	0	4	7	GCA_003614755.1	DOE Joint Genome Institute
1868	<i>Cryptococcus depauperatus</i>	Tremello	Basidio	2	0	1	4	7	GCA_001720245.1	Broad Institute
1869	<i>Puccinia horiana</i>	Puccinio	Basidio	3	0	0	4	7	GCA_001624995.1	National Academy of Agricultural Science
1870	<i>Phaeotremella fagi</i>	Tremello	Basidio	0	0	3	4	7	GCA_001599715.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1871	<i>Dimargaris cristalligena</i>	Dimargarito	Zoopago	1	1	0	4	6	GCA_003614675.1	DOE Joint Genome Institute
1872	<i>Erysiphe pisi</i>	Leotio	Asco	1	1	0	4	6	GCA_000208805.1	Max-Planck-Institute for Plant Breeding Research
1873	<i>Malassezia sp.</i>	Malassezio	Basidio	2	0	0	4	6	GCA_004026415.1	Jill Banfield's Lab at Berkeley
1874	<i>Batrachochytrium salamandrivorans</i>	Chytridio	Chytridio	0	0	0	5	5	GCA_002006685.1	Broad Institute
1875	<i>Erysiphe necator</i>	Leotio	Asco	1	0	0	4	5	GCA_000798715.1	University of California, Davis
1876	<i>Phaffia rhodozyma</i>	Tremello	Basidio	0	1	0	4	5	GCA_001600435.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies

1877	<i>Cronartium ribicola</i>	Puccinio	Basidio	3	0	0	2	5	GCA_000500245.1	Tree Aggressors Identification using Genomic Approaches
1878	<i>Cochlonema odontosperma</i>	Zoopago	Zoopago	0	0	0	4	4	GCA_004114315.1	University of Michigan
1879	<i>Stylopaga hadra</i>	Zoopago	Zoopago	0	1	0	3	4	GCA_005111325.1	University of Michigan
1880	<i>Rozella allomyces</i>	0	Crypto	0	0	0	4	4	GCA_000442015.1	University of Michigan
1881	<i>Wallemia mellicola</i>	Wallemio	Basidio	2	0	0	2	4	GCA_004919005.1	Biotechnical Faculty, University of Ljubljana
1882	<i>Tremella mesenterica</i>	Tremello	Basidio	0	0	0	4	4	GCA_004117975.1	Broad Institute
1883	<i>Melampsora medusae</i>	Puccinio	Basidio	2	1	0	0	3	GCA_002157035.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1884	<i>Melampsora abietis-canadensis</i>	Puccinio	Basidio	3	0	0	0	3	GCA_002157025.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1885	<i>Schizosaccharomyces japonicus</i>	Schizosaccharo	Asco	0	0	0	2	2	GCA_000149845.2	Broad Institute
1886	<i>Schizosaccharomyces cryophilus</i>	Schizosaccharo	Asco	0	0	0	2	2	GCA_000004155.2	Broad Institute
1887	<i>Schizosaccharomyces octosporus</i>	Schizosaccharo	Asco	0	0	0	2	2	GCA_000150505.2	Broad Institute
1888	<i>Schizosaccharomyces pombe</i>	Schizosaccharo	Asco	0	0	0	2	2	GCA_003086255.1	Uppsala University
1889	<i>Herpomyces periplanetae</i>	Laboulbenio	Asco	2	0	0	0	2	GCA_009733715.1	University of Warsaw
1890	<i>Nosema bombycis</i>	0	Microsporidia	1	0	1	0	2	GCA_000383075.1	The Institute of Sericulture and Systems Biology (ISSB) of Southwest University (SWU)
1891	<i>Melampsora occidentalis</i>	Puccinio	Basidio	2	0	0	0	2	GCA_002157085.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1892	<i>Endocronartium harknessii</i>	Puccinio	Basidio	0	2	0	0	2	GCA_000500795.1	Tree Aggressors Identification using Genomic Approaches
1893	<i>Uromyces viciae-fabae</i>	Puccinio	Basidio	2	0	0	0	2	GCA_000785685.1	Universitaet Hohenheim
1894	<i>Melampsora larici-populina</i>	Puccinio	Basidio	1	0	0	0	1	GCA_000204055.1	US DOE Joint Genome Institute (JGI-PGF)
1895	<i>Cronartium comandrae</i>	Puccinio	Basidio	0	0	0	1	1	GCA_000464975.1	Tree Aggressors Identification using Genomic Approaches
1896	<i>Meira miltonrushii</i>	Exobasidio	Basidio	0	0	0	1	1	GCA_003144205.1	DOE Joint Genome Institute
1897	<i>Mitosporidium daphniae</i>	0	Microsporidia	0	0	0	1	1	GCA_000760515.2	Illinois Institute of Technology
1898	<i>Melampsora allii-populina</i>	Puccinio	Basidio	0	0	0	1	1	GCA_002157005.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1899	<i>Microbotryum lychnidis-dioicae</i>	Microbotryo	Basidio	0	1	0	0	1	GCA_001244265.1	INRA-LIPM
1900	<i>Pseudoloma neurophilia</i>	0	Microsporidia	1	0	0	0	1	GCA_001432165.1	University of Ottawa
1901	<i>Melampsora aecidioides</i>	Puccinio	Basidio	0	0	0	1	1	GCA_002157015.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1902	<i>Paramicrosporidium saccamoebae</i>	0	Crypto	0	0	0	0	0	GCA_002794465.1	University of Michigan
1903	<i>Nosema ceranae</i>	0	Microsporidia	0	0	0	0	0	GCA_004919615.1	Jiangxi Agricultural University

1904	<i>Amphiambllys sp. WSBS2006</i>	0	Microsporidia	0	0	0	0	0	GCA_001875675.1	A.N. Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University
1905	<i>Vavraia culicis</i>	0	Microsporidia	0	0	0	0	0	GCA_000192795.1	Broad Institute
1906	<i>Tubulinosema ratisbonensis</i>	0	Microsporidia	0	0	0	0	0	GCA_004000155.1	Universite Clermont Auvergne, CNRS UMR 6023
1907	<i>Edhazardia aedis</i>	0	Microsporidia	0	0	0	0	0	GCA_000230595.3	Broad Institute
1908	<i>Nematocida displodere</i>	0	Microsporidia	0	0	0	0	0	GCA_001642395.1	University of California San Diego
1909	<i>Hamiltosporidium tvaerminnensis</i>	0	Microsporidia	0	0	0	0	0	GCA_004325075.1	Illinois Institute of Technology
1910	<i>Trachipleistophora hominis</i>	0	Microsporidia	0	0	0	0	0	GCA_000316135.1	Institute for Cell and Molecular Biosciences, Newcastle University
1911	<i>Hamiltosporidium magnivora</i>	0	Microsporidia	0	0	0	0	0	GCA_004325065.1	Illinois Institute of Technology
1912	<i>Austropuccinia psidii</i>	Puccinio	Basidio	0	0	0	0	0	GCA_902702905.1	UNIVERSITY OF SYDNEY
1913	<i>Encephalitozoon intestinalis</i>	0	Microsporidia	0	0	0	0	0	GCA_000146465.1	Keeling lab, University of British Columbia
1914	<i>Nematocida parisii</i>	0	Microsporidia	0	0	0	0	0	GCA_000190615.1	Broad Institute
1915	<i>Enterocytozoon bieneusi</i>	0	Microsporidia	0	0	0	0	0	GCA_000209485.1	Tufts Cummings School of Veterinary Medicine
1916	<i>Vittaforma corneae</i>	0	Microsporidia	0	0	0	0	0	GCA_000231115.1	Broad Institute
1917	<i>Encephalitozoon hellem</i>	0	Microsporidia	0	0	0	0	0	GCA_000277815.3	University of British Columbia
1918	<i>Encephalitozoon romaleae</i>	0	Microsporidia	0	0	0	0	0	GCA_000280035.2	University of Ottawa
1919	<i>Nematocida sp. 1</i>	0	Microsporidia	0	0	0	0	0	GCA_000738915.1	Broad Institute
1920	<i>Ordospora colligata</i>	0	Microsporidia	0	0	0	0	0	GCA_000803265.1	University of British Columbia
1921	<i>Encephalitozoon cuniculi</i>	0	Microsporidia	0	0	0	0	0	GCA_001078035.1	University of Ottawa
1922	<i>Nematocida sp. ERTm5</i>	0	Microsporidia	0	0	0	0	0	GCA_001642415.1	University of California San Diego
1923	<i>Hemileia vastatrix</i>	Puccinio	Basidio	0	0	0	0	0	GCA_004125335.1	Universidade Federal de Lavras (UFLA)
1924	<i>Antonospora locustae</i>	0	Microsporidia	0	0	0	0	0	GCA_007674295.1	Zhengzhou Normal University
1925	<i>Cronartium quercuum</i>	Puccinio	Basidio	0	0	0	0	0	GCA_000500775.1	Tree Aggressors Identification using Genomic Approaches
1926	<i>Pneumocystis jirovecii</i>	Pneumocystido	Asco	0	0	0	0	0	GCA_001477535.1	Broad Institute
1927	<i>Hepatospora eriocheir</i>	0	Microsporidia	0	0	0	0	0	GCA_002087885.1	University of Exeter
1928	<i>Metchnikovella incurvata</i>	0	Microsporidia	0	0	0	0	0	GCA_003600395.1	SINGEK
1929	<i>Enterocytozoon hepatopenaei</i>	0	Microsporidia	0	0	0	0	0	GCA_003709115.1	Korea Research Institute of Bioscience & Biotechnology
1930	<i>Pneumocystis carinii</i>	Pneumocystido	Asco	0	0	0	0	0	GCA_001477545.1	Broad Institute
1931	<i>Meira nashicola</i>	Exobasidio	Basidio	0	0	0	0	0	GCA_001600355.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1932	<i>Enterospora canceri</i>	0	Microsporidia	0	0	0	0	0	GCA_002087915.1	University of Exeter

Table S2. List of all 1.932 fungal species/strains analyzed based on genome sequence. The species are ranked with regard to the total number of unique “Function;Family” observations, reflecting the enzyme function specificity diversity of the fungal species analyzed, specifying the number of “Function;Family” observations for each type of biomass substrate as well. The data shown is the full list of data supporting Table 2 in the main manuscript.

No	Species	Class	Phylum	ACC					Submitter	
				Cellulose	Pectin	Xylan	Lignin	Total		
1	<i>Colletotrichum tropicale</i>	Sordario	Asco	16	53	25	18	112	GCA_013201785.1	RIKEN
2	<i>Colletotrichum aenigma</i>	Sordario	Asco	16	53	25	18	112	GCA_013390185.1	RIKEN
3	<i>Colletotrichum sp. COLG25</i>	Sordario	Asco	17	53	24	18	112	GCA_009801095.1	University of Agriculture, Faisalabad Pakistan.
4	<i>Colletotrichum asianum</i>	Sordario	Asco	16	53	24	18	111	GCA_009806415.1	Northwest A&F University
5	<i>Colletotrichum sp. COLG31</i>	Sordario	Asco	16	53	24	18	111	GCA_009800995.1	University of Agriculture, Faisalabad Pakistan.
6	<i>Colletotrichum siamense</i>	Sordario	Asco	16	53	23	18	110	GCA_013390195.1	RIKEN
7	<i>Colletotrichum fructicola</i>	Sordario	Asco	15	52	24	18	109	GCA_000319635.2	RIKEN Plant Science Center
8	<i>Colletotrichum viniferum</i>	Sordario	Asco	16	51	23	19	109	GCA_013201765.1	RIKEN
9	<i>Paramyothecium roridum</i>	Sordario	Asco	18	49	25	17	109	GCA_003012165.1	USDA, ARS, NCAUR
10	<i>Colletotrichum gloeosporioides</i>	Sordario	Asco	15	52	24	18	109	GCA_003243855.1	Nanjing Forestry University
11	<i>Colletotrichum camelliae</i>	Sordario	Asco	16	51	23	18	108	GCA_011947485.1	Central South University of Forestry and Technology
12	<i>Colletotrichum karsti</i>	Sordario	Asco	16	49	22	18	105	GCA_011947395.1	Central South University of Forestry and Technology
13	<i>Stagonosporopsis tanacetii</i>	Dothideo	Asco	17	46	23	18	104	GCA_000812845.1	The University of Melbourne
14	<i>Colletotrichum musae</i>	Sordario	Asco	16	47	22	19	104	GCA_002814275.1	CAPES
15	<i>Cadophora sp. DSE1049</i>	Leotio	Asco	16	45	26	16	103	GCA_003073865.1	DOE Joint Genome Institute
16	<i>Xylaria striata</i>	Sordario	Asco	17	43	25	17	102	GCA_002749545.1	Zhejiang University Institute of microbiology,
17	<i>Pestalotiopsis fici</i>	Sordario	Asco	15	46	23	18	102	GCA_000516985.1	chinese academy of sciences
18	<i>Fusarium sp. JS1030</i>	Sordario	Asco	15	46	24	17	102	GCA_000966855.1	Seoul National University

19	<i>Fusarium oxysporum</i>	Sordario	Asco	15	46	23	18	102	GCA_001652425.1	CSIRO
20	<i>Hymenoscyphus herbarum</i>	Leotio	Asco	18	43	22	19	102	GCA_001414485.1	University of Exeter
21	<i>Clonostachys rosea</i>	Sordario	Asco	16	45	25	15	101	GCA_000963775.2	Chinese Academy of Agricultural Sciences
22	<i>Fusarium oxysporum</i>	Sordario	Asco	16	44	22	19	101	GCA_001703215.1	University of Amsterdam
23	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	23	18	101	GCA_012610815.1	Contact; Kurt. A. Zeller, USDA-APHIS-PPQ-S&T Washington State
24	<i>Fusarium oxysporum</i>	Sordario	Asco	16	45	23	17	101	GCA_013347345.1	University Mount Vernon Northwestern Research and Extension Center
25	<i>Diaporthe sp. HANT25</i>	Sordario	Asco	15	47	21	17	100	GCA_013435955.1	Faculty of Science, Mahidol University
26	<i>Phialocephala subalpina</i>	Leotio	Asco	16	45	24	15	100	GCA_900073065.1	Institute of Bioinformatics and Systems Biology
27	<i>Colletotrichum nymphaeae</i>	Sordario	Asco	15	47	21	17	100	GCA_001563115.1	Universidad de Salamanca
28	<i>Fusarium oxysporum</i>	Sordario	Asco	16	44	22	18	100	GCA_000260075.2	Broad Institute
29	<i>Colletotrichum scovillei</i>	Sordario	Asco	15	46	22	17	100	GCA_011075155.1	Tianjin Institute of Plant Protection
30	<i>Colletotrichum acutatum</i>	Sordario	Asco	15	46	22	17	100	GCA_001593745.1	Seoul National University
31	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	23	17	100	GCA_002234115.1	University of Amsterdam
32	<i>Fusarium oxysporum</i>	Sordario	Asco	16	45	22	17	100	GCA_009602545.1	Auburn University
33	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	23	17	100	GCA_002234045.1	University of Amsterdam
34	<i>Fusarium oxysporum</i>	Sordario	Asco	16	44	22	18	100	GCA_009746015.1	University of Massachusetts Amherts
35	<i>Morchella eximia</i>	Pezizo	Asco	17	48	18	16	99	GCA_003314645.1	Kunming University of Science and Technology
36	<i>Diaporthe ampelina</i>	Sordario	Asco	16	44	21	18	99	GCA_001630405.1	Bangalore University
37	<i>Diaporthe longicolla</i>	Sordario	Asco	16	45	20	18	99	GCA_000800745.1	Purdue University
38	<i>Paraphaeosphaeria sporulosa</i>	Dothideo	Asco	17	41	24	17	99	GCA_001642045.1	DOE Joint Genome Institute
39	<i>Neopestalotiopsis sp. 37M</i>	Sordario	Asco	15	45	21	18	99	GCA_011058875.1	University of Campinas
40	<i>Pestalotiopsis sp. JCM 9685</i>	Sordario	Asco	16	44	22	17	99	GCA_001599175.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
41	<i>Fusarium oxysporum</i>	Sordario	Asco	15	44	24	16	99	GCA_002233775.1	University of Amsterdam
42	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	22	17	99	GCA_001702785.1	University of Amsterdam
43	<i>Fusarium decemcellulare</i>	Sordario	Asco	14	46	22	17	99	GCA_013266205.1	US Department of Agriculture, Agriculture Research Service

44	<i>Fusarium sp. NRRL 25184</i>	Sordario	Asco	16	44	22	17	99	GCA_013755755.1	US Department of Agriculture, Agriculture Research Service
45	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	22	17	99	GCA_002234135.1	University of Amsterdam
46	<i>Fusarium oxysporum</i>	Sordario	Asco	15	44	22	18	99	GCA_002233865.1	University of Amsterdam
47	<i>Colletotrichum sidae</i>	Sordario	Asco	16	45	21	17	99	GCA_004367935.1	RIKEN
48	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	23	16	99	GCA_003615085.1	NIAB-EMR
49	<i>Fusarium oxysporum</i>	Sordario	Asco	15	44	23	17	99	GCA_001702645.1	University of Amsterdam
50	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	22	17	99	GCA_002234105.1	University of Amsterdam
51	<i>Diaporthe capsici</i>	Sordario	Asco	15	45	21	17	98	GCA_013364905.1	Sichuan agricultural university
52	<i>Diaporthe sp. NJD1</i>	Sordario	Asco	15	45	21	17	98	GCA_013842865.1	Anhui Agricultural University
53	<i>Colletotrichum fioriniae</i>	Sordario	Asco	14	46	22	16	98	GCA_002930455.1	VIB
54	<i>Colletotrichum salicis</i>	Sordario	Asco	15	45	21	17	98	GCA_001563125.1	Universidad de Salamanca
55	<i>Colletotrichum simmondsii</i>	Sordario	Asco	14	46	22	16	98	GCA_001563135.1	Universidad de Salamanca
56	<i>Colletotrichum truncatum</i>	Sordario	Asco	15	45	21	17	98	GCA_014235925.1	University of Salamanca
57	<i>Colletotrichum musicola</i>	Sordario	Asco	16	45	20	17	98	GCA_014235935.1	University of Salamanca
58	<i>Fusarium oxysporum</i>	Sordario	Asco	15	44	23	16	98	GCA_002233805.1	University of Amsterdam
59	<i>Fusarium oxysporum</i>	Sordario	Asco	15	45	22	16	98	GCA_002233895.1	University of Amsterdam
60	<i>Fusarium udum</i>	Sordario	Asco	15	45	23	15	98	GCA_013186905.1	US Department of Agriculture, Agriculture Research Service
61	<i>Fusarium oxysporum</i>	Sordario	Asco	15	43	23	17	98	GCA_001702695.2	University of Amsterdam
62	<i>Aspergillus versicolor</i>	Eurotio	Asco	17	46	21	14	98	GCA_001890125.1	DOE Joint Genome Institute
63	<i>Fusarium oxysporum</i>	Sordario	Asco	15	44	22	17	98	GCA_005930515.1	RIKEN
64	<i>Fusarium oxysporum</i>	Sordario	Asco	15	44	22	17	98	GCA_000350345.1	BGI
65	<i>Gliomastix tumulicola</i>	Sordario	Asco	18	40	24	15	97	GCA_001599755.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
66	<i>Lachnum nothofagi</i>	Leotio	Asco	16	42	21	18	97	GCA_003988875.1	Manaaki Whenua Landcare Research
67	<i>Diaporthe aspalathi</i>	Sordario	Asco	15	43	21	18	97	GCA_001447215.1	Beltsville Agricultural Research Center
68	<i>Pleosporales sp. UM 1110 2012</i>	Dothideo	Asco	16	39	25	17	97	GCA_000263175.2	UNIVERSITY OF MALAYA
69	<i>Fusarium commune</i>	Sordario	Asco	15	44	22	16	97	GCA_001599515.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
70	<i>Fusarium oxysporum</i>	Sordario	Asco	16	42	22	17	97	GCA_013423245.1	St. Petersburg University

71	<i>Fusarium oxysporum</i>	Sordario	Asco	15	44	22	16	97	GCA_003977725.1	University of California at Davis
72	<i>Fusarium oxysporum</i>	Sordario	Asco	15	43	23	16	97	GCA_009755825.1	University of Massachusetts Amherst
73	<i>Colletotrichum sansevieriae</i>	Sordario	Asco	15	46	20	16	97	GCA_002749775.1	Kagoshima University
74	<i>Fusarium oxysporum</i>	Sordario	Asco	15	43	23	16	97	GCA_000260155.3	Broad Institute
75	<i>Fusarium sp. Na10</i>	Sordario	Asco	15	43	23	16	97	GCA_002234255.1	University of Amsterdam
76	<i>Aaosphaeria arxii</i>	Dothideo	Asco	18	41	22	16	97	GCA_010015735.1	DOE Joint Genome Institute
77	<i>Fusarium sterilihyposum</i>	Sordario	Asco	15	43	22	17	97	GCA_013186845.1	US Department of Agriculture, Agriculture Research Service
78	<i>Colletotrichum orbiculare</i>	Sordario	Asco	15	44	21	17	97	GCA_000350065.2	RIKEN Plant Science Center
79	<i>Fusarium oxysporum</i>	Sordario	Asco	15	42	22	18	97	GCA_000260235.2	Broad Institute
80	<i>Colletotrichum trifolii</i>	Sordario	Asco	16	44	20	17	97	GCA_004367215.1	RIKEN
81	<i>Hymenoscyphus salicellus</i>	Leotio	Asco	16	42	20	19	97	GCA_001414355.1	University of Exeter
82	<i>Aspergillus sp. Z5</i>	Eurotio	Asco	16	45	22	14	97	GCA_001044295.1	Zhejiang University
83	<i>Memnoniella echinata</i>	Sordario	Asco	18	41	21	17	97	GCA_001599555.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
84	<i>Fusarium oxysporum</i>	Sordario	Asco	15	42	21	19	97	GCA_001757345.1	ICRISAT
85	<i>Fusarium subglutinans</i>	Sordario	Asco	15	41	24	16	96	GCA_012071885.1	UNRC
86	<i>Colletotrichum incanum</i>	Sordario	Asco	16	43	21	16	96	GCA_001625285.1	Max Planck Genome Center Cologne
87	<i>Colletotrichum tofieldiae</i>	Sordario	Asco	15	44	21	16	96	GCA_001618725.1	Max Planck Genome Center Cologne
88	<i>Aspergillus sp. MA 6041</i>	Eurotio	Asco	15	44	22	15	96	GCA_003138005.1	University of Natural Resources and Life Sciences, Vienna
89	<i>Fusarium sp. NRRL 62957</i>	Sordario	Asco	16	41	21	18	96	GCA_012978535.1	US Department of Agriculture, Agriculture Research Service
90	<i>Fusarium phyllophilum</i>	Sordario	Asco	14	43	24	15	96	GCA_013396025.1	US Department of Agriculture, Agriculture Research Service
91	<i>Pezicula radicola</i>	Leotio	Asco	14	45	20	17	96	GCA_003008705.1	The University of Texas Health Science Center at Houston
92	<i>Fusarium sp. NRRL 25303</i>	Sordario	Asco	15	42	23	16	96	GCA_013396255.1	US Department of Agriculture, Agriculture Research Service
93	<i>Aspergillus amoenus</i>	Eurotio	Asco	15	45	22	14	96	GCA_009812435.1	Universidad de Antioquia

94	<i>Eutypa lata</i>	Sordario	Asco	16	39	21	19	95	GCA_000349385.1	UC Davis
95	<i>Colletotrichum sp. JS-367</i>	Sordario	Asco	15	45	19	16	95	GCA_003122705.1	National Institute of Biological Resources
96	<i>Pseudogymnoascus sp. BL308</i>	Leotio	Asco	13	47	24	11	95	GCA_001630595.1	Ohio State University
97	<i>Colletotrichum plurivorum</i>	Sordario	Asco	15	45	18	17	95	GCA_014235945.1	University of Salamanca
98	<i>Aspergillus sp. MA 6037</i>	Eurotio	Asco	15	44	22	14	95	GCA_003138035.1	University of Natural Resources and Life Sciences, Vienna
99	<i>Xylaria sp. MSU_SB201401</i>	Sordario	Asco	17	40	22	16	95	GCA_002288965.1	University of Arkansas Collaboration between Erik Lysøe (Department of Plant Health and Plant Protection, Bioforsk - Norwegian Institute of Agricultural and Environmental Research) and Linda Harris (Eastern Cereal & Oilseed Research Centre, Agriculture & Agri-Food Canada).
100	<i>Fusarium avenaceum</i>	Sordario	Asco	16	41	21	17	95	GCA_000769295.1	University of Pretoria
101	<i>Fusarium nygamai</i>	Sordario	Asco	15	42	22	16	95	GCA_001262555.1	DOE Joint Genome Institute
102	<i>Bimuria novae-zelandiae</i>	Dothideo	Asco	16	39	24	16	95	GCA_010015655.1	University of Amsterdam
103	<i>Fusarium oxysporum</i>	Sordario	Asco	14	42	23	16	95	GCA_001703455.1	Nakdonggang National Institute of Biological Resources
104	<i>Articulospora tetracladia</i>	Leotio	Asco	15	43	21	16	95	GCA_003415645.1	RIKEN
105	<i>Colletotrichum spinosum</i>	Sordario	Asco	16	42	20	17	95	GCA_004366825.1	Institute of Bioinformatics and Systems Biology
106	<i>Fusarium mangiferae</i>	Sordario	Asco	14	42	24	15	95	GCA_900044065.1	Hamburg University
107	<i>Aspergillus sydowii</i>	Eurotio	Asco	16	44	21	14	95	GCA_009193685.1	Broad Institute
108	<i>Colletotrichum graminicola</i>	Sordario	Asco	17	37	23	18	95	GCA_000149035.1	University of Exeter
109	<i>Hymenoscyphus infarciens</i>	Leotio	Asco	16	40	20	19	95	GCA_001414345.1	University of Arkansas
110	<i>Stenocarpella maydis</i>	Sordario	Asco	17	39	21	17	94	GCA_002270565.1	DOE Joint Genome Institute
111	<i>Chalara longipes</i>	Leotio	Asco	16	39	23	16	94	GCA_009732865.1	US Department of Agriculture, Agriculture Research Service
112	<i>Fusarium tupiense</i>	Sordario	Asco	14	42	23	15	94	GCA_013364945.1	Wageningen University & Research
113	<i>Verticillium zaregamsianum</i>	Sordario	Asco	17	41	20	16	94	GCA_002851755.1	

114	<i>Fusarium oxysporum</i>	Sordario	Asco	15	42	21	16	94	GCA_001888865.1	ZhongKai University of Agriculture and Engineering
115	<i>Fusarium fracticaudum</i>	Sordario	Asco	14	42	23	15	94	GCA_003353625.1	Forestry and Agricultural Biotechnology Institute, University of Pretoria
116	<i>Fusarium sp. NRRL 53293</i>	Sordario	Asco	14	42	23	15	94	GCA_013759125.1	US Department of Agriculture, Agriculture Research Service
117	<i>Fusarium pseudocircinatum</i>	Sordario	Asco	14	41	23	16	94	GCA_013396035.1	US Department of Agriculture, Agriculture Research Service
118	<i>Paraphoma sp. B47-9</i>	Dothideo	Asco	15	43	21	15	94	GCA_001748405.1	National Institute for Agro-Environmental Sciences (NIAES)
119	<i>Fusarium sacchari</i>	Sordario	Asco	14	43	22	15	94	GCA_013759005.1	US Department of Agriculture, Agriculture Research Service
120	<i>Neofusicoccum kwambonambiense</i>	Dothideo	Asco	15	41	19	19	94	GCA_009829855.1	University of Pretoria
121	<i>Fusarium begoniae</i>	Sordario	Asco	15	40	23	16	94	GCA_013186755.1	US Department of Agriculture, Agriculture Research Service
122	<i>Fusarium odoratissimum</i>	Sordario	Asco	14	42	23	15	94	GCA_000260195.2	Broad Institute
123	<i>Fusarium pininemorale</i>	Sordario	Asco	14	41	24	15	94	GCA_002165215.1	Forestry and Agricultural Biotechnology Institute
124	<i>Fusarium mexicanum</i>	Sordario	Asco	14	42	23	15	94	GCA_013396015.1	US Department of Agriculture, Agriculture Research Service
125	<i>Fusarium acuminatum</i>	Sordario	Asco	16	40	21	17	94	GCA_013363215.1	US Department of Agriculture, Agriculture Research Service
126	<i>Fusarium foetens</i>	Sordario	Asco	14	43	21	16	94	GCA_013623845.1	US Department of Agriculture, Agriculture Research Service
127	<i>Fusarium secorum</i>	Sordario	Asco	15	42	21	16	94	GCA_013363185.1	US Department of Agriculture, Agriculture Research Service
128	<i>Pseudopyrenochaeta lycopersici</i>	Dothideo	Asco	16	41	21	16	94	GCA_003313425.1	University of Verona
129	<i>Hymenoscyphus fructigenus</i>	Leotio	Asco	16	39	21	18	94	GCA_001414455.1	University of Exeter
130	<i>Byssothecium circinans</i>	Dothideo	Asco	15	40	23	15	93	GCA_010015675.1	DOE Joint Genome Institute
131	<i>Pseudogymnoascus sp. VKM F-3775</i>	Leotio	Asco	15	42	22	14	93	GCA_000750715.1	Moscow State University
132	<i>Colletotrichum sojae</i>	Sordario	Asco	14	44	19	16	93	GCA_014235955.1	University of Salamanca

133	<i>Fusarium pseudoanthophilum</i>	Sordario	Asco	15	40	22	16	93	GCA_013395995.1	US Department of Agriculture, Agriculture Research Service
134	<i>Cairneyella variabilis</i>	Leotio	Asco	15	43	18	17	93	GCA_001625345.1	CSIRO
135	<i>Corynespora cassicola</i>	Dothideo	Asco	15	41	20	17	93	GCA_900169545.1	UNIVERSITY OF BRISTOL
136	<i>Fusarium temperatum</i>	Sordario	Asco	14	41	23	15	93	GCA_001513835.1	Forestry and Agricultural Biotechnology Institute (FABI)
137	<i>Fusarium anthophilum</i>	Sordario	Asco	13	43	23	14	93	GCA_013364935.1	US Department of Agriculture, Agriculture Research Service
138	<i>Fusarium succisae</i>	Sordario	Asco	14	42	22	15	93	GCA_013186925.1	US Department of Agriculture, Agriculture Research Service
139	<i>Phoma sp. XZ068</i>	Dothideo	Asco	16	39	21	17	93	GCA_004835665.1	Institute Of Microbiology Chinese Academy of Sciences
140	<i>Fusarium agapanthi</i>	Sordario	Asco	14	42	21	16	93	GCA_001654545.1	US Department of Agriculture, Agriculture Research Service
141	<i>Fusarium ramigenum</i>	Sordario	Asco	14	43	21	15	93	GCA_013186855.1	US Department of Agriculture, Agriculture Research Service
142	<i>Neofusicoccum cordaticola</i>	Dothideo	Asco	15	42	18	18	93	GCA_009830905.1	University of Pretoria
143	<i>Neofusicoccum parvum</i>	Dothideo	Asco	15	42	17	19	93	GCA_000385595.1	UC Davis
144	<i>Fusarium mundagurra</i>	Sordario	Asco	14	41	23	15	93	GCA_013396205.1	US Department of Agriculture, Agriculture Research Service
145	<i>Neofusicoccum ribis</i>	Dothideo	Asco	15	41	18	19	93	GCA_009829435.1	University of Pretoria
146	<i>Fusarium bactridioides</i>	Sordario	Asco	15	38	24	16	93	GCA_013623355.1	US Department of Agriculture, Agriculture Research Service
147	<i>Fusarium dlamini</i>	Sordario	Asco	14	41	23	15	93	GCA_013186775.1	US Department of Agriculture, Agriculture Research Service
148	<i>Ilyonectria destructans</i>	Sordario	Asco	14	42	20	17	93	GCA_001913115.1	Northeast Normal University
149	<i>Margaritispora aquatica</i>	Leotio	Asco	14	42	21	16	93	GCA_007644065.1	Nakdonggang National Institute of Biological Resources
150	<i>Pseudogymnoascus sp. VKM F-4519 (FW-2642)</i>	Leotio	Asco	13	45	23	11	92	GCA_000750935.1	Moscow State University
151	<i>Phialocephala scopiformis</i>	Leotio	Asco	15	39	22	16	92	GCA_001500285.1	DOE Joint Genome Institute

152	<i>Monosporascus sp. MG133</i>	Sordario	Asco	17	36	23	16	92	GCA_004155925.1	University of New Mexico
153	<i>Karstenula rhodostoma</i>	Dothideo	Asco	16	38	21	17	92	GCA_010093485.1	DOE Joint Genome Institute
154	<i>Verticillium klebahnii</i>	Sordario	Asco	17	38	20	17	92	GCA_002851715.1	Wageningen University & Research
155	<i>Dactylonectria macrodidyma</i>	Sordario	Asco	14	43	20	15	92	GCA_000935225.1	USDA-ARS
156	<i>Melanomma pulvis-pyrius</i>	Dothideo	Asco	15	39	21	17	92	GCA_010093585.1	DOE Joint Genome Institute
157	<i>Colletotrichum higginsianum</i>	Sordario	Asco	15	40	20	17	92	GCA_001672515.1	GATC Biotech AG
158	<i>Fusarium guttiforme</i>	Sordario	Asco	14	41	22	15	92	GCA_013186795.1	US Department of Agriculture, Agriculture Research Service
159	<i>Dactylonectria torresensis</i>	Sordario	Asco	14	41	21	16	92	GCA_011426275.1	AIT-Austrian Institute of Technology
160	<i>Lophiotrema nucula</i>	Dothideo	Asco	15	41	19	17	92	GCA_010015825.1	DOE Joint Genome Institute
161	<i>Trematosphaeria pertusa</i>	Dothideo	Asco	16	38	21	17	92	GCA_010094035.1	DOE Joint Genome Institute
162	<i>Fusarium citri</i>	Sordario	Asco	16	40	20	16	92	GCA_004367485.1	US Department of Agriculture, Agriculture Research Service
163	<i>Fusarium albosuccineum</i>	Sordario	Asco	14	41	19	18	92	GCA_012931995.1	US Department of Agriculture, Agriculture Research Service
164	<i>Fusarium verticillioides</i>	Sordario	Asco	14	39	23	16	92	GCA_003317015.2	CSIRO
165	<i>Fusarium proliferatum</i>	Sordario	Asco	14	41	22	15	92	GCA_003290285.1	University of Pisa
166	<i>Colletotrichum destructivum</i>	Sordario	Asco	15	40	21	16	92	GCA_009900065.1	Chinese Academy of Agricultural Sciences
167	<i>Colletotrichum orchidophilum</i>	Sordario	Asco	15	40	19	18	92	GCA_001831195.1	University of Western Brittany
168	<i>Fusarium fractiflexum</i>	Sordario	Asco	14	41	22	15	92	GCA_013758875.1	US Department of Agriculture, Agriculture Research Service
169	<i>Fusarium fujikuroi</i>	Sordario	Asco	14	41	22	15	92	GCA_900096635.1	Technische Universitat Munchen - WZW
170	<i>Fusarium tricinctum</i>	Sordario	Asco	14	40	22	16	92	GCA_900382705.2	INRA (Nouvelle-Aquitaine-Bordeaux)
171	<i>Hymenoscyphus scutula</i>	Leotio	Asco	15	39	20	18	92	GCA_001399465.1	University of Exeter
172	<i>Fusarium concolor</i>	Sordario	Asco	15	39	21	17	92	GCA_013184415.1	US Department of Agriculture, Agriculture Research Service

173	<i>Fusarium sp. NRRL 29148</i>	Sordario	Asco	15	39	21	17	92	GCA_013759095.1	US Department of Agriculture, Agriculture Research Service
174	<i>Xylaria flabelliformis</i>	Sordario	Asco	17	38	20	17	92	GCA_007182795.1	Vanderbilt University
175	<i>Fusarium phaseoli</i>	Sordario	Asco	15	40	20	17	92	GCA_013364925.1	US Department of Agriculture, Agriculture Research Service
176	<i>Calonectria leucothoes</i>	Sordario	Asco	15	39	22	16	92	GCA_002179835.1	USDA-ARS
177	<i>Fusarium sp. JS626</i>	Sordario	Asco	14	42	20	16	92	GCA_000966865.1	Seoul National University
178	<i>Pyrenochaeta sp. DS3sAY3a</i>	Dothideo	Asco	15	40	21	16	92	GCA_001644535.1	DOE Joint Genome Institute
179	<i>Ophiobolus disseminans</i>	Dothideo	Asco	16	37	22	17	92	GCA_010093685.1	DOE Joint Genome Institute
180	<i>Aspergillus steynii</i>	Eurotio	Asco	15	43	19	15	92	GCA_002849105.1	DOE Joint Genome Institute
181	<i>Hyaloscypha variabilis</i>	Leotio	Asco	14	40	22	15	91	GCA_002865655.1	DOE Joint Genome Institute
182	<i>Zopfia rhizophila</i>	Dothideo	Asco	15	38	22	16	91	GCA_010093925.1	DOE Joint Genome Institute
183	<i>Phaeoacremonium minimum</i>	Sordario	Asco	15	42	19	15	91	GCA_000392275.1	UC Davis
184	<i>Colletotrichum coccodes</i>	Sordario	Asco	15	41	20	15	91	GCA_002249775.1	USDA-ARS
185	<i>Verticillium isaacii</i>	Sordario	Asco	17	38	19	17	91	GCA_002851775.1	Wageningen University & Research
186	<i>Fusarium sp. QHM</i>	Sordario	Asco	14	38	24	15	91	GCA_013416755.1	Liaoning Technical University
187	<i>Fusarium sp. BWC</i>	Sordario	Asco	14	38	24	15	91	GCA_013416785.1	Liaoning Technical University
188	<i>Fusarium musae</i>	Sordario	Asco	15	38	22	16	91	GCA_013623345.1	US Department of Agriculture, Agriculture Research Service
189	<i>Fusarium bulbicola</i>	Sordario	Asco	14	40	22	15	91	GCA_013758895.1	US Department of Agriculture, Agriculture Research Service
190	<i>Fusarium oxysporum</i>	Sordario	Asco	13	41	21	16	91	GCA_014154955.1	University of Amsterdam
191	<i>Lachnellula suecica</i>	Leotio	Asco	16	38	19	18	91	GCA_007825345.1	Canadian Food Inspection Agency (CFIA)
192	<i>fungal sp. EF0021</i>	0	0	16	37	22	16	91	GCA_000292665.1	Fraunhofer
193	<i>Fusarium beomiforme</i>	Sordario	Asco	16	38	20	17	91	GCA_002980475.2	US Department of Agriculture, Agriculture Research Service
194	<i>Massarina eburnea</i>	Dothideo	Asco	16	36	23	16	91	GCA_010093635.1	DOE Joint Genome Institute

195	<i>Fusarium pseudonygamai</i>	Sordario	Asco	14	41	22	14	91	GCA_013186785.1	US Department of Agriculture, Agriculture Research Service
196	<i>Fusarium tjaetaba</i>	Sordario	Asco	14	40	22	15	91	GCA_013396195.1	US Department of Agriculture, Agriculture Research Service
197	<i>Fusarium globosum</i>	Sordario	Asco	14	39	22	16	91	GCA_013396165.1	US Department of Agriculture, Agriculture Research Service
198	<i>Stagonospora sp. SRC1IsM3a</i>	Dothideo	Asco	17	34	22	18	91	GCA_001644525.1	DOE Joint Genome Institute
199	<i>Aspergillus flavus</i>	Eurotio	Asco	16	40	18	17	91	GCA_004150275.1	The Energy and Resources Institute
200	<i>Monosporascus sp. mg162</i>	Sordario	Asco	16	39	20	16	91	GCA_004155945.1	University of New Mexico
201	<i>Colletotrichum lindemuthianum</i>	Sordario	Asco	15	43	16	17	91	GCA_001693025.2	Universidade Federal de Vicosa
202	<i>Fusarium coicis</i>	Sordario	Asco	15	39	21	16	91	GCA_013781345.1	US Department of Agriculture, Agriculture Research Service
203	<i>Ilyonectria mors-panacis</i>	Sordario	Asco	14	40	21	16	91	GCA_002991585.1	Zhejiang Sci-Tech University
204	<i>Alternaria alternata</i>	Dothideo	Asco	15	36	23	17	91	GCA_011420255.1	National Institute of Biological Resources
205	<i>Phoma herbarum</i>	Dothideo	Asco	16	39	20	16	91	GCA_001599375.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
206	<i>Neofusicoccum umdonicola</i>	Dothideo	Asco	15	40	18	18	91	GCA_009829365.1	University of Pretoria
207	<i>Didymella heteroderae</i>	Dothideo	Asco	16	39	20	16	91	GCA_011058895.1	University of Campinas
208	<i>Cudoniella acicularis</i>	Leotio	Asco	15	40	20	16	91	GCA_013054445.1	TU Dresden - IHI Zittau
209	<i>Nigrograna mackinnonii</i>	Dothideo	Asco	16	37	23	15	91	GCA_001007845.1	Yale University
210	<i>Plenodomus tracheiphilus</i>	Dothideo	Asco	17	37	21	16	91	GCA_010093695.1	DOE Joint Genome Institute
211	<i>Lasiodiplodia theobromae</i>	Dothideo	Asco	16	39	18	18	91	GCA_012971845.1	Beltsville Agricultural Research Center
212	<i>Fusarium sp. NRRL 22101</i>	Sordario	Asco	14	39	19	18	90	GCA_013010345.1	US Department of Agriculture, Agriculture Research Service
213	<i>Verticillium longisporum</i>	Sordario	Asco	17	37	18	18	90	GCA_001268165.1	SLU
214	<i>Ophiognomonia clavignenti-juglandacearum</i>	Sordario	Asco	14	40	19	17	90	GCA_003671545.1	Colorado State U
215	<i>Pseudogymnoascus sp. VKM F-4517 (FW-2822)</i>	Leotio	Asco	13	41	24	12	90	GCA_000750875.1	Moscow State University
216	<i>Pseudogymnoascus sp. 24MN13</i>	Leotio	Asco	12	43	24	11	90	GCA_001662595.1	US Forest Service

217	<i>Fusarium sp. NRRL 66182</i>	Sordario	Asco	12	42	20	16	90	GCA_013266265.1	US Department of Agriculture, Agriculture Research Service
218	<i>Monosporascus sp. CRB-9-2</i>	Sordario	Asco	15	38	20	17	90	GCA_004155915.1	University of New Mexico
219	<i>Pseudogymnoascus sp. VKM F-4518 (FW-2643)</i>	Leotio	Asco	15	42	20	13	90	GCA_000750925.1	Moscow State University
220	<i>Fusarium sp. NRRL 62610</i>	Sordario	Asco	15	40	18	17	90	GCA_013186425.2	US Department of Agriculture, Agriculture Research Service
221	<i>Rosellinia necatrix</i>	Sordario	Asco	17	38	20	15	90	GCA_001445595.3	NARO Institute of Fruit Tree Science
222	<i>Beverwykella pulmonaria</i>	Dothideo	Asco	16	38	19	17	90	GCA_001599595.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
223	<i>Fusarium newnesense</i>	Sordario	Asco	14	39	22	15	90	GCA_013184375.1	US Department of Agriculture, Agriculture Research Service
224	<i>Setomelanomma holmii</i>	Dothideo	Asco	15	37	21	17	90	GCA_010015745.1	DOE Joint Genome Institute
225	<i>Pezicula neosporulosa</i>	Leotio	Asco	14	41	19	16	90	GCA_009805495.1	Chinese Academy of Forestry
226	<i>Colletotrichum capsici</i>	Sordario	Asco	15	42	18	15	90	GCA_011947275.1	KLEF Deemed to be University
227	<i>Colletotrichum chlorophyti</i>	Sordario	Asco	15	40	18	17	90	GCA_001937105.1	RIKEN
228	<i>Fusarium metavorans</i>	Sordario	Asco	15	39	19	17	90	GCA_001633045.1	USDA-ARS
229	<i>Helminthosporium solani</i>	Dothideo	Asco	16	36	21	17	90	GCA_000498615.1	University of Wisconsin-Madison
230	<i>Cladosporium sp. SL-16</i>	Dothideo	Asco	15	40	20	15	90	GCA_002921095.1	Chinese academy of agricultural sciences
231	<i>Clavariopsis aquatica</i>	Sordario	Asco	18	35	19	18	90	GCA_013620735.1	Leibniz-Institute of Freshwater Ecology and Inland Fisheries
232	<i>Pseudomassariella vexata</i>	Sordario	Asco	15	41	18	16	90	GCA_002105095.1	DOE Joint Genome Institute
233	<i>Coleophoma cylindrospora</i>	Leotio	Asco	16	39	19	16	90	GCA_003369665.1	The University of Texas Health Science Center at Houston
234	<i>Preussia sp. BSL10</i>	Dothideo	Asco	17	38	20	15	90	GCA_001553865.1	Macrogen, Korea
235	<i>Didymella pinodes</i>	Dothideo	Asco	15	40	18	17	90	GCA_004151525.1	Curtin University
236	<i>Alternaria burnsii</i>	Dothideo	Asco	15	37	22	16	90	GCA_013036055.1	Northwest A&F University
237	<i>Alternaria consortialis</i>	Dothideo	Asco	16	36	22	16	90	GCA_001950455.1	RIKEN Center for Life Science Technologies,

238	<i>Hymenotorrendiella dingleyae</i>	Leotio	Asco	16	37	19	18	90	GCA_003988905.1	Division of Genomic Technologies
239	<i>Calonectria naviculata</i>	Sordario	Asco	14	39	21	15	89	GCA_003031705.1	Manaaki Whenua Landcare Research
240	<i>Clohesyomyces aquaticus</i>	Dothideo	Asco	17	34	21	17	89	GCA_002105025.1	USDA-ARS
241	<i>Verticillium albo-atrum</i>	Sordario	Asco	17	39	18	15	89	GCA_002851705.1	DOE Joint Genome Institute
242	<i>Pseudogymnoascus sp. VKM F-103</i>	Leotio	Asco	12	43	23	11	89	GCA_000750895.1	Wageningen University & Research
243	<i>Pseudogymnoascus verrucosus</i>	Leotio	Asco	12	43	24	10	89	GCA_001662655.1	Moscow State University
244	<i>Verticillium tricorpus</i>	Sordario	Asco	17	37	19	16	89	GCA_002851695.1	US Forest Service
245	<i>Periconia macrospinoso</i>	Dothideo	Asco	17	34	21	17	89	GCA_003073855.1	Wageningen University & Research
246	<i>Lophiostoma macrostomum</i>	Dothideo	Asco	16	35	21	17	89	GCA_010405375.1	DOE Joint Genome Institute
247	<i>Helotiales sp. F229</i>	Leotio	Asco	15	37	21	16	89	GCA_002554605.1	DOE Joint Genome Institute
248	<i>Fusarium denticulatum</i>	Sordario	Asco	14	39	20	16	89	GCA_013396175.1	CEPLAS/University of Cologne
249	<i>Fusarium tuaranense</i>	Sordario	Asco	14	40	18	17	89	GCA_013363205.1	US Department of Agriculture, Agriculture Research Service
250	<i>Monosporascus sp. CRB-8-3</i>	Sordario	Asco	15	38	21	15	89	GCA_004155055.1	US Department of Agriculture, Agriculture Research Service
251	<i>Colletotrichum sublineola</i>	Sordario	Asco	15	37	21	16	89	GCA_001951195.1	University of New Mexico
252	<i>Fusarium thapsinum</i>	Sordario	Asco	14	37	21	17	89	GCA_013186935.1	University of Kentucky
253	<i>Aspergillus fumigatiaffinis</i>	Eurotio	Asco	15	39	20	15	89	GCA_012656285.1	US Department of Agriculture, Agriculture Research Service
254	<i>Verticillium nubilum</i>	Sordario	Asco	16	38	18	17	89	GCA_002851675.1	Research Service UNICAMP
255	<i>Fusarium vanettenii</i>	Sordario	Asco	15	39	18	17	89	GCA_000151355.1	Wageningen University & Research
256	<i>Phaeosphaeria sp. A1 3.1a</i>	Dothideo	Asco	16	34	23	16	89	GCA_003501895.1	DOE Joint Genome Institute
257	<i>Phaeosphaeria sp. H6.2b</i>	Dothideo	Asco	16	34	23	16	89	GCA_003503105.1	Centre for Crop & Disease Management, Curtin University

258	<i>Fusarium anguioides</i>	Sordario	Asco	16	35	20	18	89	GCA_012977745.1	US Department of Agriculture, Agriculture Research Service
259	<i>Aspergillus sergii</i>	Eurotio	Asco	16	41	15	17	89	GCA_009193525.1	DOE Joint Genome Institute
260	<i>Fusarium circinatum</i>	Sordario	Asco	14	40	19	16	89	GCA_000497325.3	Pitch canker sequencing project
261	<i>Didymella keratinophila</i>	Dothideo	Asco	15	39	20	15	89	GCA_011058865.1	University of Campinas
262	<i>Alternaria tenuissima</i>	Dothideo	Asco	15	36	22	16	89	GCA_004156035.1	NIAB-East Malling Research
263	<i>Alternaria arborescens</i>	Dothideo	Asco	16	35	22	16	89	GCA_004634205.1	USFDA
264	<i>Xylaria multiplex</i>	Sordario	Asco	17	37	20	15	89	GCA_011057905.1	TU Dresden - IHI Zittau
265	<i>Aspergillus ustus</i>	Eurotio	Asco	15	39	22	13	89	GCA_000812125.1	Institute of developmentive and regenerative biology
266	<i>Lasiodiplodia pseudotheobromae</i>	Dothideo	Asco	16	38	16	19	89	GCA_009829805.1	University of Pretoria
267	<i>Didymella segeticola</i>	Dothideo	Asco	16	39	17	17	89	GCA_004522025.1	Guizhou University
268	<i>Pseudogymnoascus sp. 04NY16</i>	Leotio	Asco	12	43	22	11	88	GCA_001630575.1	Ohio State University
269	<i>Monosporascus sp. 5C6A</i>	Sordario	Asco	17	36	19	16	88	GCA_004155035.1	University of New Mexico
270	<i>Pseudogymnoascus sp. VKM F-4513 (FW-928)</i>	Leotio	Asco	12	43	22	11	88	GCA_000750755.1	Moscow State University
271	<i>Pseudogymnoascus sp. VKM F-4514 (FW-929)</i>	Leotio	Asco	13	38	24	13	88	GCA_000750795.1	Moscow State University
272	<i>Colletotrichum tanacetii</i>	Sordario	Asco	16	38	18	16	88	GCA_005350895.1	The University of Melbourne
273	<i>Diaporthe helianthi</i>	Sordario	Asco	14	39	18	17	88	GCA_001702395.2	University of Western Brittany
274	<i>Pseudogymnoascus pannorum</i>	Leotio	Asco	13	41	22	12	88	GCA_001630605.1	Ohio State University
275	<i>Fusarium sarcochrom</i>	Sordario	Asco	13	41	18	16	88	GCA_013266185.1	US Department of Agriculture, Agriculture Research Service
276	<i>Aspergillus calidoustus</i>	Eurotio	Asco	14	41	21	12	88	GCA_001511075.1	HKI JENA
277	<i>Xylaria longipes</i>	Sordario	Asco	17	33	20	18	88	GCA_003426265.1	IHI Zittau / TU Dresden
278	<i>[Nectria] haematococca</i>	Sordario	Asco	14	39	19	16	88	GCA_010015875.1	Lishui University
279	<i>Fusarium xylarioides</i>	Sordario	Asco	14	40	19	15	88	GCA_013183765.1	University of Pretoria
280	<i>Fusarium sp. NRRL 66088</i>	Sordario	Asco	14	39	18	17	88	GCA_013186415.1	US Department of Agriculture, Agriculture Research Service
281	<i>Cladosporium cladosporioides</i>	Dothideo	Asco	16	35	22	15	88	GCA_002901145.1	Yeungnam University
282	<i>Fusarium algeriense</i>	Sordario	Asco	15	36	21	16	88	GCA_002982035.1	US Department of Agriculture, Agriculture Research Service

283	<i>Fusarium brevicatenuatum</i>	Sordario	Asco	14	38	21	15	88	GCA_013363135.1	US Department of Agriculture, Agriculture Research Service
284	<i>Fusarium napiforme</i>	Sordario	Asco	14	38	21	15	88	GCA_013396005.1	US Department of Agriculture, Agriculture Research Service
285	<i>Xylaria sp. BCC 1067</i>	Sordario	Asco	17	35	20	16	88	GCA_005188305.1	King Mongkut's University of Technology Thonburi
286	<i>Fusarium burgessii</i>	Sordario	Asco	16	35	20	17	88	GCA_002980515.1	US Department of Agriculture, Agriculture Research Service
287	<i>Fusarium sp. NRRL 52700</i>	Sordario	Asco	13	39	22	14	88	GCA_013396095.1	US Department of Agriculture, Agriculture Research Service
288	<i>Polyplosphaeria fusca</i>	Dothideo	Asco	16	34	22	16	88	GCA_010093805.1	DOE Joint Genome Institute
289	<i>Calonectria aciculata</i>	Sordario	Asco	14	37	22	15	88	GCA_013406995.1	FABI
290	<i>Calonectria honghensis</i>	Sordario	Asco	14	38	21	15	88	GCA_013403855.1	FABI
291	<i>Calonectria fujianensis</i>	Sordario	Asco	14	37	21	16	88	GCA_013406965.1	FABI
292	<i>Fusarium sp. NRRL 47473</i>	Sordario	Asco	13	38	23	14	88	GCA_013759115.1	US Department of Agriculture, Agriculture Research Service
293	<i>Alternaria atra</i>	Dothideo	Asco	16	34	22	16	88	GCA_004634305.1	USFDA
294	<i>Fusarium gaditjirri</i>	Sordario	Asco	15	36	21	16	88	GCA_013266175.1	US Department of Agriculture, Agriculture Research Service
295	<i>Stemphylium vesicarium</i>	Dothideo	Asco	15	35	21	17	88	GCA_004380135.1	University of Bologna
296	<i>Fusarium venenatum</i>	Sordario	Asco	14	38	20	16	88	GCA_900007375.1	ROTHAMSTED RESEARCH
297	<i>Fusarium nisikadoi</i>	Sordario	Asco	14	37	22	15	88	GCA_013623555.1	US Department of Agriculture, Agriculture Research Service
298	<i>Epicoccum sorghinum</i>	Dothideo	Asco	17	36	20	15	88	GCA_001879705.1	University of Sao Paulo
299	<i>Fusarium ambrosium</i>	Sordario	Asco	15	37	19	17	88	GCA_003947045.1	University of California, Riverside
300	<i>Alternaria sp. MG1</i>	Dothideo	Asco	15	35	22	16	88	GCA_003574525.1	Northwestern Polytechnical University
301	<i>Parastagonospora nodorum</i>	Dothideo	Asco	16	32	23	17	88	GCA_002267045.1	North Dakota State University
302	<i>Rutstroemia sp. NJR-2017a BVV2</i>	Leotio	Asco	15	36	22	15	88	GCA_002946415.1	Brigham Young University
303	<i>Alternaria solani</i>	Dothideo	Asco	15	35	22	16	88	GCA_002837235.1	Institute Of Microbiology Chinese Academy of Sciences

304	<i>Calonectria pseudoreteaudii</i>	Sordario	Asco	14	39	20	15	88	GCA_001879505.1	Fujian Agriculture and Forestry University
305	<i>Fusarium incarnatum</i>	Sordario	Asco	15	36	21	16	88	GCA_004367075.1	US Department of Agriculture, Agriculture Research Service
306	<i>Byssochlamys sp. IMV 00045</i>	Eurotio	Asco	16	38	19	15	88	GCA_001931905.2	Jet Propulsion Laboratory, California Institute of Technology
307	<i>Aureobasidium pullulans</i>	Dothideo	Asco	16	35	20	17	88	GCA_000721785.1	DOE Joint Genome Institute
308	<i>Pseudogymnoascus sp. VKM F-4515 (FW-2607)</i>	Leotio	Asco	12	41	23	11	87	GCA_000750805.1	Moscow State University
309	<i>Pseudogymnoascus sp. VKM F-4520 (FW-2644)</i>	Leotio	Asco	12	42	22	11	87	GCA_000750995.1	Moscow State University
310	<i>Pseudogymnoascus sp. VKM F-4246</i>	Leotio	Asco	12	44	21	10	87	GCA_000750735.1	Moscow State University
311	<i>Colletotrichum shioi</i>	Sordario	Asco	14	40	19	14	87	GCA_006783085.1	RIKEN
312	<i>Pseudogymnoascus sp. VKM F-3557</i>	Leotio	Asco	13	39	23	12	87	GCA_000750665.1	Moscow State University
313	<i>Pseudogymnoascus sp. BL549</i>	Leotio	Asco	13	41	22	11	87	GCA_001630585.1	Ohio State University
314	<i>Macrophomina phaseolina</i>	Dothideo	Asco	14	40	17	16	87	GCA_008729105.1	USDA
315	<i>Arthrinium malaysianum</i>	Sordario	Asco	16	34	21	16	87	GCA_006508115.1	Indian Institute Of Chemical biology
316	<i>Aspergillus udagawae</i>	Eurotio	Asco	15	36	21	15	87	GCA_010724255.1	Medical Mycology Research Center
317	<i>Fusarium flagelliforme</i>	Sordario	Asco	15	36	20	16	87	GCA_004367175.1	US Department of Agriculture, Agriculture Research Service
318	<i>Kretzschmaria deusta</i>	Sordario	Asco	15	38	19	15	87	GCA_002081935.3	IHI Zittau / TU Dresden
319	<i>Fusarium babinda</i>	Sordario	Asco	14	38	19	16	87	GCA_012977765.1	US Department of Agriculture, Agriculture Research Service
320	<i>Cylindrocarpon cylindroides</i>	Sordario	Asco	17	39	17	14	87	GCA_013756995.1	US Department of Agriculture, Agriculture Research Service
321	<i>Fusarium austroafricanum</i>	Sordario	Asco	15	34	22	16	87	GCA_012932025.1	US Department of Agriculture, Agriculture Research Service
322	<i>Laburnicola sp. R22_1</i>	Dothideo	Asco	15	37	21	14	87	GCA_014281115.1	Chinese Academy of Forestry
323	<i>Bipolaris oryzae</i>	Dothideo	Asco	16	34	20	17	87	GCA_000523455.1	JGI
324	<i>Bipolaris zeicola</i>	Dothideo	Asco	16	34	20	17	87	GCA_000523435.1	JGI
325	<i>Pleomassaria siparia</i>	Dothideo	Asco	15	36	20	16	87	GCA_010093715.1	DOE Joint Genome Institute
326	<i>Didymella lethalis</i>	Dothideo	Asco	15	38	18	16	87	GCA_004335245.1	Curtin University
327	<i>Fusarium euwallaceae</i>	Sordario	Asco	15	37	18	17	87	GCA_003957675.1	University of California, Riverside

328	<i>Nectria sp. B-13</i>	Sordario	Asco	16	40	17	14	87	GCA_002682825.1	Anhui University
329	<i>Aspergillus minisclerotigenes</i>	Eurotio	Asco	16	38	16	17	87	GCA_009176455.1	DOE Joint Genome Institute
330	<i>Fusarium sambucinum</i>	Sordario	Asco	14	38	19	16	87	GCA_001567575.1	Central Potato Research Institute
331	<i>Fusarium sp. NRRL 62944</i>	Sordario	Asco	13	39	19	16	87	GCA_013186395.1	US Department of Agriculture, Agriculture Research Service
332	<i>Fusarium sp. AF-4</i>	Sordario	Asco	15	38	18	16	87	GCA_003946995.1	University of California, Riverside
333	<i>Colletotrichum falcatum</i>	Sordario	Asco	16	34	20	17	87	GCA_001484525.1	ICAR-Sugarcane Breeding Institute
334	<i>Diplodia seriata</i>	Dothideo	Asco	14	39	17	17	87	GCA_001975905.1	INRA
335	<i>Pseudocercospora fijiensis</i>	Dothideo	Asco	16	37	16	18	87	GCA_011057605.1	Instituto de Investigacion Lightbourn
336	<i>Hymenoscyphus laetus</i>	Leotio	Asco	16	31	23	17	87	GCA_001414375.1	University of Exeter
337	<i>Curvularia kusanoi</i>	Dothideo	Asco	17	35	20	15	87	GCA_011058905.1	University of Campinas
338	<i>Coniothyrium glycines</i>	Dothideo	Asco	17	35	20	15	87	GCA_004523985.2	Oklahoma State University
339	<i>Sclerotiophoma versabilis</i>	Dothideo	Asco	15	37	19	16	87	GCA_012274445.1	Fujian Agriculture and Forestry University
340	<i>Hymenoscyphus occultus</i>	Leotio	Asco	15	38	16	18	87	GCA_900536445.1	UNIVERSITY OF COPENHAGEN, DEPARTMENT OF GEOSCIENCES AND NATURAL RESOURCE MANAGEMENT
341	<i>Hymenoscyphus koreanus</i>	Leotio	Asco	15	38	16	18	87	GCA_902652825.1	UNIVERSITY OF COPENHAGEN, DEPARTMENT OF GEOSCIENCES AND NATURAL RESOURCE MANAGEMENT
342	<i>Alternaria brassicae</i>	Dothideo	Asco	15	34	22	16	87	GCA_004936725.1	University of Delhi South Campus
343	<i>Pyrenochaeta sp. UM 256</i>	Dothideo	Asco	15	37	21	14	87	GCA_000359685.2	UNIVERSITY OF MALAYA
344	<i>Aspergillus ochraceus</i>	Eurotio	Asco	14	40	19	14	87	GCA_005784425.1	Shanghai Institute of Technology
345	<i>Cladosporium phlei</i>	Dothideo	Asco	16	35	19	17	87	GCA_003614995.1	National Institute of Agricultural Science
346	<i>Fusarium nanum</i>	Sordario	Asco	15	35	22	15	87	GCA_004367095.1	US Department of Agriculture, Agriculture Research Service

347	<i>Tubaria furfuracea</i>	Agarico	Basidio	15	41	21	9	86	GCA_900069095.1	Royal Botanic Gardens, Kew
348	<i>Oidiodendron maius</i>	Leotio	Asco	11	41	22	12	86	GCA_000827325.1	JGI
349	<i>Coniochaeta sp. 2T2.1</i>	Sordario	Asco	15	36	22	13	86	GCA_009194965.1	DOE Joint Genome Institute
350	<i>Penicillium janthinellum</i>	Eurotio	Asco	14	37	22	13	86	GCA_002369805.1	CSIR-NIIST
351	<i>Fusarium nematophilum</i>	Sordario	Asco	13	40	19	14	86	GCA_013623595.1	US Department of Agriculture, Agriculture Research Service
352	<i>Xylaria polymorpha</i>	Sordario	Asco	16	35	20	15	86	GCA_003426235.1	IHI Zittau / TU Dresden
353	<i>Pseudogymnoascus sp. VKM F-3808</i>	Leotio	Asco	13	38	23	12	86	GCA_000750675.1	Moscow State University
354	<i>Paraphaeosphaeria minitans</i>	Dothideo	Asco	14	35	22	15	86	GCA_009707825.1	State Key Laboratory of Agriculture Microbiology
355	<i>Pseudogymnoascus sp. WSF 3629</i>	Leotio	Asco	14	41	20	11	86	GCA_001662585.1	US Forest Service
356	<i>Monosporascus sp. GIB2</i>	Sordario	Asco	16	35	20	15	86	GCA_004155935.1	University of New Mexico
357	<i>Lentithecium fluviatile</i>	Dothideo	Asco	16	33	20	17	86	GCA_010405425.1	DOE Joint Genome Institute
358	<i>Monosporascus cannonballus</i>	Sordario	Asco	15	36	20	15	86	GCA_004155895.1	University of New Mexico
359	<i>Aspergillus lentulus</i>	Eurotio	Asco	14	38	20	14	86	GCA_010724575.1	Medical Mycology Research Center
360	<i>Aspergillus arachidicola</i>	Eurotio	Asco	16	37	16	17	86	GCA_009193545.1	DOE Joint Genome Institute
361	<i>Endocalyx cinctus</i>	0	Asco	15	33	22	16	86	GCA_001600455.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
362	<i>Aspergillus sp. ATCC 12892</i>	Eurotio	Asco	16	38	16	16	86	GCA_002894705.1	Pacific Northwest National Lab
363	<i>Fusarium torulosum</i>	Sordario	Asco	14	37	20	15	86	GCA_013623875.1	US Department of Agriculture, Agriculture Research Service
364	<i>Fusarium hostae</i>	Sordario	Asco	13	39	20	14	86	GCA_002234235.1	University of Amsterdam
365	<i>Verticillium nonalfalfae</i>	Sordario	Asco	17	36	17	16	86	GCA_002776445.1	University of Ljubljana, Biotechnical faculty
366	<i>Neonectria sp. DH2</i>	Sordario	Asco	16	39	16	15	86	GCA_003934905.1	Sun Yat-sen University
367	<i>Aspergillus novoparasiticus</i>	Eurotio	Asco	16	38	16	16	86	GCA_009176405.1	DOE Joint Genome Institute
368	<i>Fusarium armeniacum</i>	Sordario	Asco	14	35	21	16	86	GCA_013618295.1	US Department of Agriculture, Agriculture Research Service

369	<i>Fusarium sp. NRRL 53497</i>	Sordario	Asco	14	38	18	16	86	GCA_013184445.1	US Department of Agriculture, Agriculture Research Service
370	<i>Claviceps monteithiana</i>	Leotio	Asco	14	35	21	16	86	GCA_002242835.1	Rutgers University
371	<i>Aspergillus tamarii</i>	Eurotio	Asco	16	39	17	14	86	GCA_009193485.1	DOE Joint Genome Institute
372	<i>Aspergillus sojae</i>	Eurotio	Asco	16	39	15	16	86	GCA_009687765.1	Tokyo Institute of Technology
373	<i>Bipolaris victoriae</i>	Dothideo	Asco	16	33	20	17	86	GCA_000527765.1	JGI
374	<i>Fusarium sporotrichioides</i>	Sordario	Asco	14	37	20	15	86	GCA_003012315.1	Robert Proctor's shared submissions
375	<i>Fusarium transvaalense</i>	Sordario	Asco	16	34	19	17	86	GCA_013623685.1	US Department of Agriculture, Agriculture Research Service
376	<i>Fusarium sp. NRRL 62941</i>	Sordario	Asco	13	38	19	16	86	GCA_012978555.1	US Department of Agriculture, Agriculture Research Service
377	<i>Hymenoscyphus fraxineus</i>	Leotio	Asco	15	36	17	18	86	GCA_001414365.1	University of Exeter
378	<i>Rhytidhysteron rufulum</i>	Dothideo	Asco	15	36	19	16	86	GCA_000467735.1	Assembling the Fungal Tree of Life (AFTOL)
379	<i>Calonectria crousiana</i>	Sordario	Asco	13	38	22	13	86	GCA_013406985.1	FABI
380	<i>Fusarium compactum</i>	Sordario	Asco	15	34	20	17	86	GCA_013618385.1	US Department of Agriculture, Agriculture Research Service
381	<i>Fusarium sp. AF-8</i>	Sordario	Asco	15	36	18	17	86	GCA_003946985.1	University of California, Riverside
382	<i>Lasiodiplodia sp. COLG20</i>	Dothideo	Asco	16	38	14	18	86	GCA_009801085.1	University of Agriculture, Faisalabad Pakistan.
383	<i>Verticillium dahliae</i>	Sordario	Asco	17	36	18	15	86	GCA_004798895.1	Wageningen University and Research
384	<i>Fusarium camptoceras</i>	Sordario	Asco	14	36	21	15	86	GCA_004367475.1	US Department of Agriculture, Agriculture Research Service
385	<i>Fusarium culmorum</i>	Sordario	Asco	14	36	21	15	86	GCA_003033665.1	NIOO-KNAW
386	<i>Fusarium caatingaense</i>	Sordario	Asco	15	35	20	16	86	GCA_013624355.1	US Department of Agriculture, Agriculture Research Service
387	<i>Aspergillus leporis</i>	Eurotio	Asco	15	39	17	15	86	GCA_009176345.1	DOE Joint Genome Institute
388	<i>Lasiodiplodia gonubiensis</i>	Dothideo	Asco	15	39	15	17	86	GCA_009829795.1	University of Pretoria
389	<i>Fusarium coffeatum</i>	Sordario	Asco	15	35	21	15	86	GCA_003316985.1	CSIRO
390	<i>Diplodia sapinea</i>	Dothideo	Asco	14	41	15	16	86	GCA_000671355.1	Forestry and Agricultural Biotechnology Institute, University of Pretoria

391	<i>Fusarium subclunatum</i>	Sordario	Asco	14	36	19	17	86	GCA_013623665.1	US Department of Agriculture, Agriculture Research Service
392	<i>Cucurbitaria berberidis</i>	Dothideo	Asco	14	37	21	14	86	GCA_010015615.1	DOE Joint Genome Institute
393	<i>Penicillium subrubescens</i>	Eurotio	Asco	14	35	23	13	85	GCA_001908125.1	CBS-KNAW Fungal Biodiversity Centre
394	<i>Pseudogymnoascus sp. 05NY08</i>	Leotio	Asco	12	42	21	10	85	GCA_001662605.1	Institute of the Royal Netherlands Academy of Arts and Science
395	<i>Pseudogymnoascus sp. VKM F-4516 (FW-969)</i>	Leotio	Asco	13	37	23	12	85	GCA_000750815.1	US Forest Service
396	<i>Gamarada debralockiae</i>	Leotio	Asco	13	37	22	13	85	GCA_002803225.1	Moscow State University
397	<i>Aspergillus terreus</i>	Eurotio	Asco	15	34	21	15	85	GCA_009834425.1	Macquarie University
398	<i>Hyaloscypha bicolor</i>	Leotio	Asco	16	35	19	15	85	GCA_002865645.1	Nanyang Technological University
399	<i>Xylaria grammica</i>	Sordario	Asco	16	35	19	15	85	GCA_004353285.1	DOE Joint Genome Institute
400	<i>Aspergillus aff. floccosus IMV 01167</i>	Eurotio	Asco	15	34	21	15	85	GCA_001931935.1	National Institute of Biological Resources
401	<i>Fusarium azukicola</i>	Sordario	Asco	15	34	17	19	85	GCA_001680625.1	Jet Propulsion Laboratory, California Institute of Technology
402	<i>Aspergillus pseudotamarii</i>	Eurotio	Asco	16	38	16	15	85	GCA_009193445.1	Iowa State University
403	<i>Fusarium neocosmosporiellum</i>	Sordario	Asco	14	39	15	17	85	GCA_006518225.1	DOE Joint Genome Institute
404	<i>Fusarium cerealis</i>	Sordario	Asco	14	35	21	15	85	GCA_012600195.1	US Department of Agriculture, Agriculture Research Service
405	<i>Verticillium alfalfae</i>	Sordario	Asco	16	36	17	16	85	GCA_002851655.1	University of Minnesota
406	<i>Fusarium protoensiforme</i>	Sordario	Asco	14	37	17	17	85	GCA_011320165.1	Wageningen University & Research
407	<i>Aspergillus latus</i>	Eurotio	Asco	15	39	17	14	85	GCA_013306195.1	US Department of Agriculture, Agriculture Research Service
408	<i>Fusarium graminearum</i>	Sordario	Asco	13	37	21	14	85	GCA_900044135.1	Vanderbilt University
409	<i>Stemphylium lycopersici</i>	Dothideo	Asco	15	34	20	16	85	GCA_003268315.1	ROTHAMSTED RESEARCH
410	<i>Calonectria pseudoturagicola</i>	Sordario	Asco	13	38	20	14	85	GCA_013403825.1	Centro de Investigaciones en Fitopatologías (CIDEFI)
411	<i>Monosporascus sp. MC13-8B</i>	Sordario	Asco	15	36	19	15	85	GCA_004154975.1	FABI
412	<i>Fusarium floridanum</i>	Sordario	Asco	15	35	18	17	85	GCA_003947005.1	University of New Mexico
										University of California, Riverside

413	<i>Aspergillus parasiticus</i>	Eurotio	Asco	16	37	15	17	85	GCA_013146005.1	USDA
414	<i>Rutstroemia sp. NJR-2017a BBW</i>	Leotio	Asco	15	36	19	15	85	GCA_002946425.1	Brigham Young University
415	<i>Coleophoma crateriformis</i>	Leotio	Asco	16	36	16	17	85	GCA_003369635.1	The University of Texas Health Science Center at Houston
416	<i>Proliferodiscus dingleyae</i>	Leotio	Asco	14	35	22	14	85	GCA_003988795.1	Manaaki Whenua Landcare Research
417	<i>Aspergillus pseudoterreus</i>	Eurotio	Asco	15	33	21	16	85	GCA_002927005.1	Pacific Northwest National Lab
418	<i>Aspergillus quadrilineatus</i>	Eurotio	Asco	15	38	18	14	85	GCA_013305525.1	Vanderbilt University
419	<i>Fusarium solani</i>	Sordario	Asco	15	37	16	17	85	GCA_002215905.1	National Institute of Biological Resources
420	<i>Hymenoscyphus linearis</i>	Leotio	Asco	15	37	16	17	85	GCA_900536425.1	UNIVERSITY OF COPENHAGEN, DEPARTMENT OF GEOSCIENCES AND NATURAL RESOURCE MANAGEMENT
421	<i>Fusarium kuroshium</i>	Sordario	Asco	14	36	18	17	85	GCA_003698175.1	University of California, Riverside
422	<i>Fusarium praegraminearum</i>	Sordario	Asco	15	35	21	14	85	GCA_002093855.1	US Department of Agriculture, Agriculture Research Service
423	<i>Macroventuria anomochaeta</i>	Dothideo	Asco	14	38	17	16	85	GCA_010093625.1	DOE Joint Genome Institute
424	<i>Hymenoscyphus repandus</i>	Leotio	Asco	15	37	17	16	85	GCA_001414415.1	University of Exeter
425	<i>Fusarium poae</i>	Sordario	Asco	15	33	20	17	85	GCA_001675295.1	Wageningen UR
426	<i>Aureobasidium sp. FSWF8-4</i>	Dothideo	Asco	15	35	19	16	85	GCA_001914275.1	Uppsala University
427	<i>Talaromyces purpureogenus</i>	Eurotio	Asco	13	38	22	11	84	GCA_001270325.1	Mathomics
428	<i>Laburnicola sp. JP-R-44</i>	Dothideo	Asco	15	36	18	15	84	GCA_009805535.1	Chinese Academy of Forestry
429	<i>Exidia glandulosa</i>	Agarico	Basidio	16	32	20	16	84	GCA_001632375.1	DOE Joint Genome Institute
430	<i>Bipolaris sorokiniana</i>	Dothideo	Asco	15	33	20	16	84	GCA_004329375.1	ICAR-Indian Agricultural Research Institute
431	<i>Aspergillus oryzae</i>	Eurotio	Asco	16	35	17	16	84	GCA_002007945.1	Bioprocess Technology Laboratory, BIOTEC, Thailand
432	<i>Neoscytalidium dimidiatum</i>	Dothideo	Asco	14	38	15	17	84	GCA_900092665.1	University Malaya
433	<i>Aspergillus hancockii</i>	Eurotio	Asco	16	35	15	18	84	GCA_001696595.1	CSIRO
434	<i>Bipolaris maydis</i>	Dothideo	Asco	16	31	20	17	84	GCA_000338975.1	JGI
435	<i>Botryosphaeria kuwatsukai</i>	Dothideo	Asco	14	37	17	16	84	GCA_004016305.1	Northwest A&F University

436	<i>Fusarium sp. NRRL 6227</i>	Sordario	Asco	13	35	21	15	84	GCA_013623825.1	US Department of Agriculture, Agriculture Research Service
437	<i>Aspergillus transmontanensis</i>	Eurotio	Asco	16	37	15	16	84	GCA_009193505.1	DOE Joint Genome Institute
438	<i>Fusarium equiseti</i>	Sordario	Asco	14	34	21	15	84	GCA_003313175.1	Gansu Academy of Agricultural Sciences
439	<i>Fusarium brasilicum</i>	Sordario	Asco	13	36	21	14	84	GCA_013184295.1	US Department of Agriculture, Agriculture Research Service
440	<i>Aspergillus bombycis</i>	Eurotio	Asco	15	37	16	16	84	GCA_001792695.1	USDA-ARS-SRRC
441	<i>Fusarium pseudograminearum</i>	Sordario	Asco	14	35	21	14	84	GCA_000303195.2	CSIRO
442	<i>Didymella exigua</i>	Dothideo	Asco	15	38	15	16	84	GCA_010094145.1	DOE Joint Genome Institute
443	<i>Fusarium scirpi</i>	Sordario	Asco	14	35	20	15	84	GCA_004367495.1	US Department of Agriculture, Agriculture Research Service
444	<i>Clariireedia jacksonii</i>	Leotio	Asco	14	36	19	15	84	GCA_002242905.1	Rutgers University
445	<i>Fusarium longipes</i>	Sordario	Asco	15	32	20	17	84	GCA_013618495.1	US Department of Agriculture, Agriculture Research Service
446	<i>Parastagonospora avenae</i>	Dothideo	Asco	15	31	22	16	84	GCA_003503115.1	Centre for Crop & Disease Management, Curtin University
447	<i>Fusarium humuli</i>	Sordario	Asco	14	35	20	15	84	GCA_004366955.1	US Department of Agriculture, Agriculture Research Service
448	<i>Clariireedia sp. CPB17</i>	Leotio	Asco	14	34	20	16	84	GCA_002242865.1	Rutgers University
449	<i>Fusarium clavum</i>	Sordario	Asco	15	35	19	15	84	GCA_004367155.1	US Department of Agriculture, Agriculture Research Service
450	<i>Neonectria ditissima</i>	Sordario	Asco	15	39	16	14	84	GCA_001305495.1	The New Zealand Institute for Plant & Food Research Ltd
451	<i>Clariireedia sp. SE16F4</i>	Leotio	Asco	14	36	19	15	84	GCA_002242985.1	Rutgers University
452	<i>Aquanectria penicillioides</i>	Sordario	Asco	14	38	18	14	84	GCA_003415625.1	Nakdonggang National Institute of Biological Resources
453	<i>Neonectria galligena</i>	Sordario	Asco	15	40	16	13	84	GCA_013759035.1	US Department of Agriculture, Agriculture Research Service
454	<i>Diplodia corticola</i>	Dothideo	Asco	15	37	15	17	84	GCA_001883845.1	University of Aveiro

455	<i>Fusarium luffae</i>	Sordario	Asco	14	34	20	16	84	GCA_013184325.1	US Department of Agriculture, Agriculture Research Service
456	<i>Fusarium langsethiae</i>	Sordario	Asco	14	34	20	16	84	GCA_001292635.1	Bioforsk
457	<i>Aspergillus westerdijkiae</i>	Eurotio	Asco	13	39	18	14	84	GCA_001307345.1	Nanyang Technological University
458	<i>Alternaria brassicicola</i>	Dothideo	Asco	15	32	21	16	84	GCA_002796735.1	IRHS
459	<i>Elsinoe arachidis</i>	Dothideo	Asco	14	34	20	16	84	GCA_013372555.1	Shenyang Agricultural University
460	<i>Aureobasidium namibiae</i>	Dothideo	Asco	16	32	20	16	84	GCA_000721765.1	DOE Joint Genome Institute
461	<i>fungal sp. No.14919</i>	0	0	15	34	20	14	83	GCA_002003505.1	Tsukuba Biotechnology Research Center, Astellas Pharma Inc.
462	<i>Pseudogymnoascus sp. 23342-1-11</i>	Leotio	Asco	14	38	20	11	83	GCA_001662575.1	US Forest Service
463	<i>Juglanconis sp. DMW523</i>	Sordario	Asco	14	37	16	16	83	GCA_003013055.1	USDA-ARS
464	<i>Arthrinium phaeospermum</i>	Sordario	Asco	16	32	20	15	83	GCA_006503535.1	Sichuan Agricultural University
465	<i>Aspergillus pseudocaelatus</i>	Eurotio	Asco	15	38	16	14	83	GCA_009193665.1	DOE Joint Genome Institute
466	<i>Colletotrichum lentis</i>	Sordario	Asco	14	38	16	15	83	GCA_003386485.1	University of Saskatchewan
467	<i>Curvularia geniculata</i>	Dothideo	Asco	16	32	19	16	83	GCA_002982235.1	Universidade Federal de Mato Grosso
468	<i>Curvularia lunata</i>	Dothideo	Asco	16	32	19	16	83	GCA_005212705.1	Universidade Federal de Mato Grosso
469	<i>Aspergillus thermomutatus</i>	Eurotio	Asco	15	36	18	14	83	GCA_002237265.2	University of Montreal
470	<i>Fusarium meridionale</i>	Sordario	Asco	13	36	20	14	83	GCA_009617515.1	University of Sao Paulo
471	<i>Aspergillus felis</i>	Eurotio	Asco	14	36	19	14	83	GCA_014281915.1	UNICAMP
472	<i>Aspergillus nomiae</i>	Eurotio	Asco	15	36	17	15	83	GCA_001204775.2	USDA-ARS-SRRC
473	<i>Fusarium austroamericanum</i>	Sordario	Asco	13	36	20	14	83	GCA_009617525.1	University of Sao Paulo
474	<i>Glarea lozoyensis</i>	Leotio	Asco	17	32	18	16	83	GCA_000409485.1	Institute Of Microbiology, Chinese Academy of Sciences
475	<i>Xylaria sp. JS573</i>	Sordario	Asco	15	33	20	15	83	GCA_000966885.1	Seoul National University
476	<i>Fusarium irregulare</i>	Sordario	Asco	14	33	21	15	83	GCA_004367085.1	US Department of Agriculture, Agriculture Research Service
477	<i>Fusarium hainanense</i>	Sordario	Asco	15	33	20	15	83	GCA_013618405.1	US Department of Agriculture, Agriculture Research Service
478	<i>Amniculicola lignicola</i>	Dothideo	Asco	16	31	19	17	83	GCA_010015725.1	DOE Joint Genome Institute
479	<i>Clariireedia homoeocarpa</i>	Leotio	Asco	14	35	19	15	83	GCA_001465935.1	UMass Amherst

480	<i>Aspergillus nidulans</i>	Eurotio	Asco	15	36	18	14	83	GCA_011074995.1	Barcelona Supercomputing center (BSC)
481	<i>Phoma sp. RAV-16-625</i>	Dothideo	Asco	15	35	18	15	83	GCA_004335185.1	Curtin University
482	<i>Fusarium brasiliense</i>	Sordario	Asco	14	35	16	18	83	GCA_001680685.1	Iowa State University
483	<i>Fusarium tanahbumbuense</i>	Sordario	Asco	13	35	21	14	83	GCA_012977735.1	US Department of Agriculture, Agriculture Research Service
484	<i>Aspergillus mulundensis</i>	Eurotio	Asco	14	40	17	12	83	GCA_003369625.1	The University of Texas Health Science Center at Houston
485	<i>Fusarium subtropicale</i>	Sordario	Asco	14	35	20	14	83	GCA_003670145.1	US Department of Agriculture, Agriculture Research Service
486	<i>Rhynchosporium secalis</i>	Leotio	Asco	15	30	21	17	83	GCA_900074895.1	Technische Universitat Munchen - WZW
487	<i>Elsinoe fawcettii</i>	Dothideo	Asco	14	35	18	16	83	GCA_012977835.1	University of Southern Queensland
488	<i>Rhynchosporium commune</i>	Leotio	Asco	15	30	21	17	83	GCA_900074885.1	Technische Universitat Munchen - WZW
489	<i>Amphirosellinia nigrospora</i>	Sordario	Asco	15	33	19	15	82	GCA_004123355.1	National Institute of Biological Resources
490	<i>Pseudohalonectria lignicola</i>	Sordario	Asco	14	33	22	13	82	GCA_003049395.1	Agricultural Research Service, United States Department of Agriculture
491	<i>Monosporascus ibericus</i>	Sordario	Asco	14	34	20	14	82	GCA_004154915.1	University of New Mexico
492	<i>Hortaea werneckii</i>	Dothideo	Asco	14	36	21	11	82	GCA_002127715.1	University of California, Riverside
493	<i>Aspergillus novofumigatus</i>	Eurotio	Asco	13	39	18	12	82	GCA_002847465.1	DOE Joint Genome Institute
494	<i>Gaeumannomyces tritici</i>	Sordario	Asco	17	29	19	17	82	GCA_000145635.1	Broad Institute
495	<i>Nakataea oryzae</i>	Sordario	Asco	16	27	22	17	82	GCA_003049435.1	Agricultural Research Service, United States Department of Agriculture
496	<i>Fusarium asiaticum</i>	Sordario	Asco	13	34	21	14	82	GCA_001717845.1	Government of Canada
497	<i>Fusarium cortaderiae</i>	Sordario	Asco	13	36	19	14	82	GCA_009617495.1	University of Sao Paulo
498	<i>Botryosphaeria dothidea</i>	Dothideo	Asco	14	37	15	16	82	GCA_011503125.2	Shandong Agricultural University
499	<i>Shiraia sp. slf14</i>	Dothideo	Asco	15	32	21	14	82	GCA_000498155.1	Jiangxi Normal University
500	<i>Ascochyta lentis</i>	Dothideo	Asco	15	35	16	16	82	GCA_004011705.1	Curtin University
501	<i>Ascochyta rabiei</i>	Dothideo	Asco	14	37	16	15	82	GCA_004011695.1	Curtin University

502	<i>Rutstroemia sp. NJR-2017a WRK4</i>	Leotio	Asco	14	35	19	14	82	GCA_002946385.1	Brigham Young University
503	<i>Ascochyta viciae-villosae</i>	Dothideo	Asco	15	35	16	16	82	GCA_004335205.1	Curtin University
504	<i>Fusarium virguliforme</i>	Sordario	Asco	15	33	16	18	82	GCA_013363175.1	US Department of Agriculture, Agriculture Research Service
505	<i>Fusarium zanthoxyl</i>	Sordario	Asco	13	36	17	16	82	GCA_013623745.1	US Department of Agriculture, Agriculture Research Service
506	<i>Dactylellina cionopaga</i>	Orbilio	Asco	13	36	19	14	82	GCA_012184355.1	Laboratory for Conservation and Utilization of Bio-Resources and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
507	<i>Sarocladium oryzae</i>	Sordario	Asco	14	31	22	15	82	GCA_001972265.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
508	<i>Elsinoe ampelina</i>	Dothideo	Asco	14	32	20	16	82	GCA_005959805.1	Northwest A&F University
509	<i>Didymobotryum rigidum</i>	Sordario	Asco	15	31	20	15	81	GCA_001600575.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
510	<i>Penicillium sp. MT2 MMC-2018</i>	Eurotio	Asco	13	35	22	11	81	GCA_003852855.1	Florida A&M University
511	<i>Microdochium bolleyi</i>	Sordario	Asco	15	33	18	15	81	GCA_001566295.1	DOE Joint Genome Institute
512	<i>Lindgomyces ingoldianus</i>	Dothideo	Asco	15	30	21	15	81	GCA_010093535.1	DOE Joint Genome Institute
513	<i>Aspergillus caelatus</i>	Eurotio	Asco	14	37	16	14	81	GCA_009193585.1	DOE Joint Genome Institute
514	<i>Aspergillus alliaceus</i>	Eurotio	Asco	15	35	15	16	81	GCA_009176365.1	DOE Joint Genome Institute
515	<i>Chrysosporthe deuterocubensis</i>	Sordario	Asco	13	37	17	14	81	GCA_001513825.1	Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
516	<i>Auricularia cornea</i>	Agarico	Basidio	17	25	20	19	81	GCA_008368385.1	Jilin Agricultural University
517	<i>Curvularia papendorffii</i>	Dothideo	Asco	15	31	19	16	81	GCA_000817285.1	UNIVERSITY OF MALAYA
518	<i>Aspergillus viridinutans</i>	Eurotio	Asco	13	36	18	14	81	GCA_004368095.1	University of Melbourne

519	<i>Chrysosporthe austroafricana</i>	Sordario	Asco	13	37	17	14	81	GCA_001051155.1	Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
520	<i>Xylaria hypoxylon</i>	Sordario	Asco	17	32	18	14	81	GCA_902806585.1	CEBITEC
521	<i>Ophioceras dolichostomum</i>	Sordario	Asco	16	29	21	15	81	GCA_003049485.1	Agricultural Research Service, United States Department of Agriculture
522	<i>Ascochyta viciae</i>	Dothideo	Asco	14	35	16	16	81	GCA_004335155.1	Curtin University
523	<i>Ascochyta fabae</i>	Dothideo	Asco	14	35	16	16	81	GCA_004335285.1	Curtin University
524	<i>Fusarium sp. AF-6</i>	Sordario	Asco	15	33	15	18	81	GCA_003947015.1	University of California, Riverside
525	<i>Fusarium heterosporum</i>	Sordario	Asco	16	31	18	16	81	GCA_013396295.1	US Department of Agriculture, Agriculture Research Service
526	<i>Fusarium kyushuense</i>	Sordario	Asco	14	33	18	16	81	GCA_013184315.1	US Department of Agriculture, Agriculture Research Service
527	<i>Leptosphaeria maculans</i>	Dothideo	Asco	16	31	20	14	81	GCA_900465115.1	GSC
528	<i>Pseudocercospora macadamiae</i>	Dothideo	Asco	13	35	15	17	80	GCA_012978405.1	University of Queensland
529	<i>Magnaporthales sp. P1609</i>	Sordario	Asco	17	28	21	14	80	GCA_003709005.1	Fujian Agriculture and Forestry University
530	<i>Magnaporthe sp. MG07</i>	Sordario	Asco	16	27	21	16	80	GCA_001936455.1	Centre for Cellular and Molecular Platforms
531	<i>Penicillium capsulatum</i>	Eurotio	Asco	14	34	17	15	80	GCA_000943775.1	Shanghai Key Laboratory of Molecular Medical Mycology, Department of Dermatology, Shanghai Changzheng Hospital; Academy of Military Medical Sciences
532	<i>Juglanconis oblonga</i>	Sordario	Asco	14	35	16	15	80	GCA_003012965.1	USDA-ARS
533	<i>Magnaporthiopsis rhizophila</i>	Sordario	Asco	15	30	20	15	80	GCA_003049465.1	Agricultural Research Service, United States Department of Agriculture
534	<i>Magnaporthiopsis incrustans</i>	Sordario	Asco	14	30	20	16	80	GCA_003049425.1	Agricultural Research Service, United States Department of Agriculture
535	<i>Aspergillus fischeri</i>	Eurotio	Asco	12	37	17	14	80	GCA_008711165.1	UMass Amherst
536	<i>Aspergillus sp. CLMG-2019a</i>	Eurotio	Asco	15	34	15	16	80	GCA_013421405.1	The University of Western Australia

537	<i>Cryphonectria macrospora</i>	Sordario	Asco	13	36	18	13	80	GCA_004802535.1	USDA-ARS
538	<i>Cryphonectria nitschkei</i>	Sordario	Asco	13	36	18	13	80	GCA_006503525.1	USDA
539	<i>Juglanconis juglandina</i>	Sordario	Asco	14	35	16	15	80	GCA_003012975.1	USDA-ARS
540	<i>Chrysosporthe cubensis</i>	Sordario	Asco	13	36	17	14	80	GCA_004802525.1	USDA-ARS
541	<i>Annulohyphoxylon stygium</i>	Sordario	Asco	15	29	20	16	80	GCA_003314315.1	Kunming University of Science and Technology
542	<i>Epicoccum nigrum</i>	Dothideo	Asco	16	31	18	15	80	GCA_002116315.1	The University of Auckland
543	<i>Hypomontagnella monticulosa</i>	Sordario	Asco	15	29	21	15	80	GCA_902825475.1	CEBITEC
544	<i>Aspergillus unguis</i>	Eurotio	Asco	16	34	16	14	80	GCA_003324175.1	CSIR-NIIST
545	<i>Sarocladium strictum</i>	Sordario	Asco	15	29	21	15	80	GCA_900290465.1	CEBITEC
546	<i>Fusarium tucumaniae</i>	Sordario	Asco	14	33	16	17	80	GCA_001680535.1	Iowa State University Forestry & Agricultural Biotechnology Institute, University of Pretoria
547	<i>Diplodia scrobiculata</i>	Dothideo	Asco	14	36	13	17	80	GCA_001455585.1	Agribio-Center for Agribioscience
548	<i>Spermospora avenae</i>	0	Asco	15	30	20	15	80	GCA_014282315.1	Environment and Plant Protection Institute
549	<i>Sarocladium brachiariae</i>	Sordario	Asco	15	30	20	15	80	GCA_008271525.1	ARS
550	<i>Helotiales sp. DMI_Dod_Qol</i>	Leotio	Asco	14	31	20	15	80	GCA_009613015.1	US Department of Agriculture, Agriculture Research Service
551	<i>Fusarium nurragi</i>	Sordario	Asco	14	31	19	16	80	GCA_012977755.1	Vanderbilt University
552	<i>Aspergillus spinulosporus</i>	Eurotio	Asco	14	37	17	12	80	GCA_013305485.1	US Department of Agriculture, Agriculture Research Service
553	<i>Fusarium sp. KOD 1611</i>	Sordario	Asco	12	35	21	12	80	GCA_013624395.1	US Department of Agriculture, Agriculture Research Service
554	<i>Fusarium xyrophilum</i>	Sordario	Asco	12	35	21	12	80	GCA_008711595.1	US Department of Agriculture, Agriculture Research Service
555	<i>Rhynchosporium agropyri</i>	Leotio	Asco	14	30	20	16	80	GCA_900074905.1	Technische Universitat Munchen - WZW
556	<i>Cladosporium sp. TM138-S3</i>	Dothideo	Asco	14	35	18	13	80	GCA_011745625.1	Hellenic Centre of Marine Research (HCMR)
557	<i>Neobulgaria alba</i>	Leotio	Asco	13	38	18	11	80	GCA_003988965.1	Manaaki Whenua Landcare Research
558	<i>Cytospora leucostoma</i>	Sordario	Asco	13	36	17	14	80	GCA_003795295.1	Northwest A&F University
559	<i>Aureobasidium sp. P6</i>	Dothideo	Asco	15	32	19	14	80	GCA_003992365.1	Ocean University of China
560	<i>Elsinoe australis</i>	Dothideo	Asco	14	33	18	15	80	GCA_003013795.1	Nanjing Forestry University
561	<i>Gaeumannomyces sp. JS-464</i>	Sordario	Asco	16	27	20	16	79	GCA_002197995.1	National Institute of Biological Resources

562	<i>Pseudogymnoascus sp. 03VT05</i>	Leotio	Asco	11	38	21	9	79	GCA_001662645.1	US Forest Service
563	<i>Aspergillus pseudonomius</i>	Eurotio	Asco	14	35	16	14	79	GCA_009176395.1	DOE Joint Genome Institute
564	<i>Cryphonectria radicalis</i>	Sordario	Asco	12	37	17	13	79	GCA_003054855.1	USDA-ARS
565	<i>Aspergillus bertholletiae</i>	Eurotio	Asco	13	37	15	14	79	GCA_009193595.1	DOE Joint Genome Institute
566	<i>Aspergillus hiratsukae</i>	Eurotio	Asco	14	34	17	14	79	GCA_014281905.1	UNICAMP
567	<i>Curvularia sp. IFB-Z10</i>	Dothideo	Asco	15	27	20	17	79	GCA_002161795.1	Nanjing University
568	<i>Cryphonectria parasitica</i>	Sordario	Asco	12	37	17	13	79	GCA_0111745365.1	DOE Joint Genome Institute
569	<i>Auricularia subglabra</i>	Agarico	Basidio	16	23	21	19	79	GCA_000265015.1	JGI
570	<i>Lizonia empirigonia</i>	Dothideo	Asco	15	32	16	16	79	GCA_009982855.1	DOE Joint Genome Institute
571	<i>Pyrenophora seminiperda</i>	Dothideo	Asco	15	27	21	16	79	GCA_000465215.2	Brigham Young University
572	<i>Ascochyta koolunga</i>	Dothideo	Asco	14	34	16	15	79	GCA_004151165.1	Curtin University
573	<i>Bipolaris cookei</i>	Dothideo	Asco	16	28	19	16	79	GCA_002286855.1	University of Arkansas
574	<i>Pyrenophora tritici-repentis</i>	Dothideo	Asco	15	28	20	16	79	GCA_008692205.1	Curtin University
575	<i>Fusarium dimerum</i>	Sordario	Asco	11	36	19	13	79	GCA_013623525.1	US Department of Agriculture, Agriculture Research Service
576	<i>Alternaria gansuensis</i>	Dothideo	Asco	15	30	17	17	79	GCA_009289805.1	Lanzhou University
577	<i>Cladosporium sphaerospermum</i>	Dothideo	Asco	14	34	18	13	79	GCA_000261425.2	UNIVERSITY OF MALAYA
578	<i>Botrytis elliptica</i>	Leotio	Asco	14	35	15	15	79	GCA_004786205.1	Wageningen University
579	<i>Aspergillus avenaceus</i>	Eurotio	Asco	15	33	14	17	79	GCA_009193465.1	DOE Joint Genome Institute
580	<i>Talaromyces cellulolyticus</i>	Eurotio	Asco	12	31	22	13	78	GCA_009805475.1	JNU
581	<i>Talaromyces amestolkiae</i>	Eurotio	Asco	11	33	22	12	78	GCA_001896365.1	Centro de Investigaciones Biologicas
582	<i>Penicillium sp. 'occitanis'</i>	Eurotio	Asco	12	31	22	13	78	GCA_002382835.1	Center for Genomic Regulation (CRG)
583	<i>Zasmidium citrigriseum</i>	Dothideo	Asco	11	35	17	15	78	GCA_002786025.1	Northwest A&F University
584	<i>Pyricularia pennisetigena</i>	Sordario	Asco	16	26	21	15	78	GCA_004337985.1	Academia Sinica
585	<i>Pyricularia sp. CBS 133598</i>	Sordario	Asco	15	28	21	14	78	GCA_004337975.1	Academia Sinica
586	<i>Falciophora oryzae</i>	Sordario	Asco	15	28	19	16	78	GCA_000733355.1	Institute of Biotechnology
587	<i>Coniochaeta prunicola</i>	Sordario	Asco	14	32	19	13	78	GCA_007388105.1	University of Arizona
588	<i>Penicillium arizonense</i>	Eurotio	Asco	12	34	19	13	78	GCA_001773325.1	Chalmers University of Technology
589	<i>Magnaporthe sp. MG05</i>	Sordario	Asco	15	26	21	16	78	GCA_001936065.1	Centre for Cellular and Molecular Platforms
590	<i>Aspergillus turcosus</i>	Eurotio	Asco	14	34	17	13	78	GCA_002234965.2	University of Montreal

591	<i>Fusarium setosum</i>	Sordario	Asco	13	35	16	14	78	GCA_013623625.1	US Department of Agriculture, Agriculture Research Service
592	<i>Exserohilum turcicum</i>	Dothideo	Asco	14	30	20	14	78	GCA_000359705.1	JGI
593	<i>Stachybotrys chartarum</i>	Sordario	Asco	15	30	19	14	78	GCA_000732565.1	UT Southwestern
594	<i>Valsa sordida</i>	Sordario	Asco	13	36	16	13	78	GCA_003795275.1	Northwest A&F University
595	<i>Leptosphaeria biglobosa</i>	Dothideo	Asco	14	30	20	14	78	GCA_900465125.1	GSC
596	<i>Auricularia heimuer</i>	Agarico	Basidio	17	26	19	16	78	GCA_002287115.1	Beijing Forestry University
597	<i>Rutstroemia sydowiana</i>	Leotio	Asco	13	34	16	15	78	GCA_000812895.1	USDA-ARS
598	<i>Fusarium cuneirostrum</i>	Sordario	Asco	13	33	16	16	78	GCA_001680505.1	Iowa State University
599	<i>Stachybotrys chlorohalonata</i>	Sordario	Asco	16	29	19	14	78	GCA_000732775.1	UT Southwestern
600	<i>Glonium stellatum</i>	Dothideo	Asco	14	31	17	16	78	GCA_001692915.1	1000 Fungal Genome Project
601	<i>Botrytis hyacinthi</i>	Leotio	Asco	14	34	14	16	78	GCA_004786245.1	Wageningen University
602	<i>Arachnopeziza araneosa</i>	Leotio	Asco	14	27	21	16	78	GCA_003988855.1	Manaaki Whenua Landcare Research
603	<i>Botrytis galanthina</i>	Leotio	Asco	14	34	16	14	78	GCA_004916875.1	Wageningen University
604	<i>Dactylellina haptotyla</i>	Orbilio	Asco	13	32	19	14	78	GCA_000441935.1	Lund University
605	<i>Aureobasidium melanogenum</i>	Dothideo	Asco	15	30	18	15	78	GCA_002156615.1	Ocean University of China
606	<i>Sphaceloma murrayae</i>	Dothideo	Asco	14	32	17	15	78	GCA_002895985.1	Nanjing Forestry University
607	<i>Talaromyces verruculosus</i>	Eurotio	Asco	12	32	20	13	77	GCA_001305275.1	Penicillium verruculosum
608	<i>Coniochaeta ligniaria</i>	Sordario	Asco	15	31	17	14	77	GCA_001879275.1	DOE Joint Genome Institute
609	<i>Talaromyces stollii</i>	Eurotio	Asco	11	33	21	12	77	GCA_014065225.1	Beijing University of Chemical Technology
610	<i>Pyricularia oryzae</i>	Sordario	Asco	16	26	20	15	77	GCA_004785725.1	Kansas State University
611	<i>Penicillium brasilianum</i>	Eurotio	Asco	14	32	18	13	77	GCA_001048715.1	HKI JENA
612	<i>Hypoxylon sp. CI-4A</i>	Sordario	Asco	15	28	20	14	77	GCA_002120315.1	DOE Joint Genome Institute
613	<i>Magnaporthe sp. MG03</i>	Sordario	Asco	15	27	20	15	77	GCA_001936055.1	Centre for Cellular and Molecular Platforms
614	<i>Annulohypoxylon truncatum</i>	Sordario	Asco	14	29	20	14	77	GCA_902805465.1	CEBITEC
615	<i>Aspergillus oerlinghausenensis</i>	Eurotio	Asco	12	35	18	12	77	GCA_014250555.1	Vanderbilt University
616	<i>Auricularia auricula-judae</i>	Agarico	Basidio	17	24	19	17	77	GCA_002092955.1	Jilin Agricultural University
617	<i>Jackrogersella multiformis</i>	Sordario	Asco	14	28	20	15	77	GCA_902806575.1	CEBITEC
618	<i>Fusarium aywerte</i>	Sordario	Asco	14	29	19	15	77	GCA_013186375.1	US Department of Agriculture, Agriculture Research Service
619	<i>Calonectria pseudonaviculata</i>	Sordario	Asco	13	32	18	14	77	GCA_001696505.1	USDA-ARS

620	<i>Botrytis tulipae</i>	Leotio	Asco	14	34	14	15	77	GCA_004786125.1	Wageningen University
621	<i>Fusarium continuum</i>	Sordario	Asco	13	32	16	16	77	GCA_013184455.1	US Department of Agriculture, Agriculture Research Service
622	<i>Botryotinia calthae</i>	Leotio	Asco	15	33	14	15	77	GCA_004379285.1	Wageningen University
623	<i>Botrytis fragariae</i>	Leotio	Asco	14	33	14	16	77	GCA_013461495.1	University of Maryland, College Park
624	<i>Lomentospora prolificans</i>	Sordario	Asco	16	28	20	13	77	GCA_002276285.1	Johns Hopkins University
625	<i>Marssonina brunnea</i>	Leotio	Asco	15	30	16	16	77	GCA_011750725.1	Nanjing Forestry University
626	<i>Hymenopellis chiangmaiae</i>	Agarico	Basidio	16	29	15	17	77	GCA_003314085.1	Kunming University of Science and Technology
627	<i>Claviceps aff. purpurea</i>	Sordario	Asco	10	37	20	9	76	GCA_004016085.1	Agriculture and Agri- Food Canada
628	<i>Scytalidium sp. 3C</i>	Leotio	Asco	12	32	19	13	76	GCA_000743665.3	Saint-Petersburg State University
629	<i>Talaromyces wortmannii</i>	Eurotio	Asco	11	28	21	16	76	GCA_001939245.1	Universidad Nacional Agraria La Molina,
630	<i>Pyricularia grisea</i>	Sordario	Asco	16	25	21	14	76	GCA_003933175.1	IARI
631	<i>Coniochaeta sp. NC1642</i>	Sordario	Asco	14	31	18	13	76	GCA_007388135.1	University of Arizona
632	<i>Coniochaeta sp. YLH0009</i>	Sordario	Asco	14	31	18	13	76	GCA_007388125.1	University of Arizona
633	<i>Coniochaeta sp. AEA 9055</i>	Sordario	Asco	14	31	18	13	76	GCA_007388195.1	University of Arizona
634	<i>Coniochaeta sp. AEA 9094</i>	Sordario	Asco	14	31	18	13	76	GCA_007388145.1	University of Arizona
635	<i>Aspergillus neoellipticus</i>	Eurotio	Asco	11	36	18	11	76	GCA_003116565.1	personal
636	<i>Valsa malicola</i>	Sordario	Asco	12	35	16	13	76	GCA_003795315.1	Northwest A&F University
637	<i>Aspergillus persii</i>	Eurotio	Asco	15	31	16	14	76	GCA_002215965.1	National Institute of Biological Resources
638	<i>Viridothelium virens</i>	Dothideo	Asco	14	29	18	15	76	GCA_010094025.1	DOE Joint Genome Institute
639	<i>Morchella septimelata</i>	Pezizo	Asco	15	32	15	14	76	GCA_003062385.1	Biotechnology and Nuclear Technology Research Institute
640	<i>Botryotinia narcissicola</i>	Leotio	Asco	14	32	15	15	76	GCA_004786225.1	Wageningen University
641	<i>Valsa mali</i>	Sordario	Asco	14	35	13	14	76	GCA_000818155.1	Northwest A&F University
642	<i>Botrytis fabae</i>	Leotio	Asco	14	34	13	15	76	GCA_004335055.1	Curtin University
643	<i>Aureobasidium subglaciale</i>	Dothideo	Asco	13	32	18	13	76	GCA_000721755.1	JGI
644	<i>Fusarium penzigii</i>	Sordario	Asco	12	31	19	14	76	GCA_013623535.1	US Department of Agriculture, Agriculture Research Service
645	<i>Myriosclerotinia duriaeana</i>	Leotio	Asco	16	30	14	16	76	GCA_002162615.1	University of Toronto Mississauga

646	<i>Botrytis paeoniae</i>	Leotio	Asco	14	33	14	15	76	GCA_001005785.1	Washington State University
647	<i>Fusarium illudens</i>	Sordario	Asco	13	32	14	17	76	GCA_013623515.1	US Department of Agriculture, Agriculture Research Service
648	<i>Clavaria fumosa</i>	Agarico	Basidio	7	37	19	12	75	GCA_001179745.1	Royal Botanic Gardens, Kew
649	<i>Penicillium sp. CF01</i>	Eurotio	Asco	13	35	15	12	75	GCA_005250745.1	INAIL-Research Area
650	<i>Talaromyces adpressus</i>	Eurotio	Asco	11	32	20	12	75	GCA_002775195.1	University of Naples "Federico II"
651	<i>Passalora fulva</i>	Dothideo	Asco	12	32	14	17	75	GCA_000301015.1	Wageningen UR (University & Research centre)
652	<i>Magnaporthe sp. MG12</i>	Sordario	Asco	14	27	20	14	75	GCA_001936955.1	Centre for Cellular and Molecular Platforms
653	<i>Talaromyces islandicus</i>	Eurotio	Asco	13	28	18	16	75	GCA_000985935.1	CEBITEC
654	<i>Coniochaeta sp. IL0111</i>	Sordario	Asco	14	31	17	13	75	GCA_007388115.1	University of Arizona
655	<i>Magnaportheopsis poae</i>	Sordario	Asco	14	29	17	15	75	GCA_000193285.1	Broad Institute
656	<i>Hypoxylon pulvicidum</i>	Sordario	Asco	14	27	19	15	75	GCA_902806525.1	CEBITEC
657	<i>Penicillium antarcticum</i>	Eurotio	Asco	14	33	15	13	75	GCA_002072345.1	Chalmers University of Technology
658	<i>Pyrenophora teres</i>	Dothideo	Asco	15	25	19	16	75	GCA_008086845.1	NDSU
659	<i>Penicillium paxilli</i>	Eurotio	Asco	12	36	16	11	75	GCA_000347475.1	Massey University
660	<i>Zasmidium angulare</i>	Dothideo	Asco	12	33	14	16	75	GCA_002786045.1	Northwest A&F University
661	<i>Hypoxylon sp. EC38</i>	Sordario	Asco	14	27	19	15	75	GCA_002120335.1	DOE Joint Genome Institute
662	<i>Phialocephala sp. D728</i>	Leotio	Asco	13	30	18	14	75	GCA_003988865.1	Manaaki Whenua Landcare Research
663	<i>Lachnellula willkommii</i>	Leotio	Asco	15	34	10	16	75	GCA_007825375.1	Canadian Food Inspection Agency (CFIA)
664	<i>Hypoxylon sp. CO27-5</i>	Sordario	Asco	14	27	19	15	75	GCA_002120305.1	DOE Joint Genome Institute
665	<i>Calonectria henricotiae</i>	Sordario	Asco	14	31	16	14	75	GCA_004380885.1	USDA-ARS
666	<i>Pyrenophora graminea</i>	Dothideo	Asco	15	25	19	16	75	GCA_012365135.1	USDA-ARS
667	<i>Neonectria hederæ</i>	Sordario	Asco	14	33	14	14	75	GCA_003385265.1	USDA-ARS
668	<i>Botrytis cinerea</i>	Leotio	Asco	14	33	13	15	75	GCA_000292645.1	Wageningen University
669	<i>Aspergillus wentii</i>	Eurotio	Asco	14	32	13	16	75	GCA_001890725.1	DOE Joint Genome Institute
670	<i>Pirottaea palmicola</i>	Leotio	Asco	15	28	14	18	75	GCA_003988945.1	Manaaki Whenua Landcare Research
671	<i>Venturia nashicola</i>	Dothideo	Asco	14	33	12	16	75	GCA_004522665.1	POSTECH
672	<i>Myriosclerotinia scirpicola</i>	Leotio	Asco	15	31	13	16	75	GCA_002162505.1	University of Toronto Mississauga

673	<i>Sclerotinia glacialis</i>	Leotio	Asco	15	29	15	16	75	GCA_002162575.1	University of Toronto Mississauga
674	<i>Lachnellula subtilissima</i>	Leotio	Asco	15	31	14	15	75	GCA_007821545.1	Canadian Food Inspection Agency (CFIA)
675	<i>Puccinia arachidis</i>	Puccinio	Basidio	14	30	15	15	74	GCA_001013415.1	Junagadh Agricultural University
676	<i>Talaromyces pinophilus</i>	Eurotio	Asco	11	31	20	12	74	GCA_011392495.1	Embrapa Agroenergia
677	<i>Cercospora nicotianae</i>	Dothideo	Asco	13	29	16	16	74	GCA_002994015.1	VIB
678	<i>Magnaporthe sp. MG08</i>	Sordario	Asco	14	26	20	14	74	GCA_001936555.1	Centre for Cellular and Molecular Platforms
679	<i>Phialemoniopsis curvata</i>	Sordario	Asco	14	28	18	14	74	GCA_004353045.1	UES / AFRL
680	<i>Aspergillus fumigatus</i>	Eurotio	Asco	11	35	17	11	74	GCA_005768625.2	Nanyang Technological University
681	<i>Hypomontagnella submonticulosa</i>	Sordario	Asco	14	28	18	14	74	GCA_902806495.1	CEBITEC
682	<i>Hypoxylon sp. E7406B</i>	Sordario	Asco	14	26	19	15	74	GCA_000931505.1	Yale University
683	<i>Graphilbum fragrans</i>	Sordario	Asco	15	28	17	14	74	GCA_001513895.1	University of Pretoria
684	<i>Aspergillus phoenicis</i>	Eurotio	Asco	14	34	12	14	74	GCA_003344505.1	DOE Joint Genome Institute
685	<i>Aspergillus tubingensis</i>	Eurotio	Asco	14	34	14	12	74	GCA_010614855.1	Hankyong National University
686	<i>Fusarium zealandicum</i>	Sordario	Asco	14	34	10	16	74	GCA_013266195.1	US Department of Agriculture, Agriculture Research Service
687	<i>Thermothelomyces thermophilus</i>	Sordario	Asco	16	27	18	13	74	GCA_000226095.1	DOE Joint Genome Institute
688	<i>Sclerotium cepivorum</i>	0	Asco	15	28	15	16	74	GCA_002162485.1	University of Toronto Mississauga
689	<i>Paradendryphiella salina</i>	Dothideo	Asco	15	27	17	15	74	GCA_900634815.1	DTU Bioengineering
690	<i>Cantharellus lutescens</i>	Agarico	Basidio	10	37	18	8	73	GCA_003314295.1	Kunming University of Science and Technology
691	<i>Golovinomyces magnicellulatus</i>	Leotio	Asco	9	32	20	12	73	GCA_006912115.1	The Ohio State University
692	<i>Uromyces transversalis</i>	Puccinio	Basidio	14	32	12	15	73	GCA_002994575.1	University of Georgia
693	<i>Chaetomium cochliodes</i>	Sordario	Asco	15	25	21	12	73	GCA_001752565.1	BOKU University
694	<i>Mycena chlorophos</i>	Agarico	Basidio	13	26	17	17	73	GCA_001612595.1	KEIO UNIVERSITY
695	<i>Cercospora berteroa</i>	Dothideo	Asco	12	28	16	17	73	GCA_002933655.1	VIB
696	<i>Penicillium sp. MA 6036</i>	Eurotio	Asco	12	32	16	13	73	GCA_003138045.1	University of Natural Resources and Life Sciences, Vienna
697	<i>Aspergillus brasiliensis</i>	Eurotio	Asco	14	32	14	13	73	GCA_001889945.1	DOE Joint Genome Institute
698	<i>Fusarium albidum</i>	Sordario	Asco	13	31	14	15	73	GCA_013618265.1	US Department of Agriculture, Agriculture Research Service

699	<i>Hysterium pulicare</i>	Dothideo	Asco	14	28	16	15	73	GCA_000467715.1	Assembling the Fungal Tree of Life (AFTOL)
700	<i>Lachnellula cervina</i>	Leotio	Asco	15	30	12	16	73	GCA_007825325.1	Canadian Food Inspection Agency (CFIA)
701	<i>Penicillium steckii</i>	Eurotio	Asco	12	33	16	12	73	GCA_002072375.1	Chalmers University of Technology
702	<i>Ciboria shiraiana</i>	Leotio	Asco	15	27	15	16	73	GCA_008122225.1	Southwest University
703	<i>Pezoloma ericae</i>	Leotio	Asco	13	33	15	12	73	GCA_002865625.1	DOE Joint Genome Institute
704	<i>Lanzia echinophila</i>	Leotio	Asco	14	31	13	15	73	GCA_000812885.1	USDA-ARS
705	<i>Sclerotinia sclerotiorum</i>	Leotio	Asco	15	27	15	16	73	GCA_001857865.1	Curtin University
706	<i>Aspergillus vadensis</i>	Eurotio	Asco	14	34	13	12	73	GCA_003184925.1	DOE Joint Genome Institute
707	<i>Botryotinia convoluta</i>	Leotio	Asco	14	30	14	15	73	GCA_004786275.1	Wageningen University
708	<i>Aspergillus uvarum</i>	Eurotio	Asco	12	35	13	13	73	GCA_003184745.1	DOE Joint Genome Institute
709	<i>Neurospora pannonica</i>	Sordario	Asco	16	23	20	14	73	GCA_009805235.1	University of California, Berkeley
710	<i>Decorospora gaudefroyi</i>	Dothideo	Asco	15	24	20	14	73	GCA_010015605.1	DOE Joint Genome Institute
711	<i>Didymosphaeria enalia</i>	Dothideo	Asco	14	25	18	16	73	GCA_010094045.1	DOE Joint Genome Institute
712	<i>Monilinia aucupariae</i>	Leotio	Asco	14	31	13	15	73	GCA_002162555.1	University of Toronto Mississauga
713	<i>Venturia pyrina</i>	Dothideo	Asco	14	32	12	15	73	GCA_000738655.1	La Trobe University Department of Botany
714	<i>Fusarium verrucosum</i>	Sordario	Asco	14	26	18	15	73	GCA_013623715.1	US Department of Agriculture, Agriculture Research Service
715	<i>Hymenopellis radicata</i>	Agarico	Basidio	14	27	13	19	73	GCA_003314005.1	Kunming University of Science and Technology
716	<i>Pseudocercospora pini-densiflorae</i>	Dothideo	Asco	11	32	13	16	72	GCA_000504365.2	Canada's Michael Smith Genome Sciences Centre
717	<i>Talaromyces rugulosus</i>	Eurotio	Asco	13	28	16	15	72	GCA_013368755.1	Xi'an Jiaotong University
718	<i>Cercospora sesami</i>	Dothideo	Asco	12	29	16	15	72	GCA_013365235.1	Banaras Hindu University
719	<i>Cercospora cf. sigesbeckiae</i>	Dothideo	Asco	11	30	17	14	72	GCA_005356805.1	University of Arkansas National Center For Agricultural Utilization Research
720	<i>Aspergillus olivimuriae</i>	Eurotio	Asco	13	29	19	11	72	GCA_003719415.1	Agricultural Utilization Research
721	<i>Cercospora citrullina</i>	Dothideo	Asco	12	30	15	15	72	GCA_013365195.1	Banaras Hindu University
722	<i>Coniochaeta hoffmannii</i>	Sordario	Asco	14	28	17	13	72	GCA_002798055.1	IHI Zittau / TU Dresden
723	<i>Pseudogymnoascus sp. VKM F-4281 (FW-2241)</i>	Leotio	Asco	12	30	20	10	72	GCA_000750745.1	Moscow State University

724	<i>Chaetomium globosum</i>	Sordario	Asco	14	27	21	10	72	GCA_000143365.1	The Genome Sequencing Platform, The Genome Assembly Team
725	<i>Neonectria punicea</i>	Sordario	Asco	15	31	12	14	72	GCA_003385315.1	USDA-ARS
726	<i>Penicillium fuscoglaucum</i>	Eurotio	Asco	12	31	16	13	72	GCA_000576735.1	INRA-LIPM
727	<i>Penicillium sp. SPG-F1</i>	Eurotio	Asco	14	28	16	14	72	GCA_003800495.1	Texas A&M University Corpus Christi
728	<i>Massariosphaeria phaeospora</i>	Dothideo	Asco	15	24	18	15	72	GCA_011032825.1	DOE Joint Genome Institute
729	<i>Penicillium citrinum</i>	Eurotio	Asco	13	31	15	13	72	GCA_001950535.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
730	<i>Pseudovirgaria hyperparasitica</i>	Dothideo	Asco	13	25	18	16	72	GCA_010093815.1	DOE Joint Genome Institute
731	<i>Aspergillus homomorphus</i>	Eurotio	Asco	14	33	11	14	72	GCA_003184865.1	DOE Joint Genome Institute
732	<i>Aspergillus costaricensis</i>	Eurotio	Asco	14	33	13	12	72	GCA_003184835.1	DOE Joint Genome Institute
733	<i>Aspergillus indologenus</i>	Eurotio	Asco	13	34	12	13	72	GCA_003184685.1	DOE Joint Genome Institute
734	<i>Hawksworthiomyces lignivorus</i>	Sordario	Asco	14	26	19	13	72	GCA_002917075.1	University of Pretoria
735	<i>Clathrospora elyngae</i>	Dothideo	Asco	15	25	17	15	72	GCA_010015635.1	DOE Joint Genome Institute
736	<i>Aspergillus incahuasiensis</i>	Eurotio	Asco	12	32	17	11	72	GCA_003719405.1	National Center For Agricultural Utilization Research
737	<i>Aspergillus luchuensis</i>	Eurotio	Asco	14	33	12	13	72	GCA_001890685.1	DOE Joint Genome Institute
738	<i>Aspergillus awamori</i>	Eurotio	Asco	14	33	12	13	72	GCA_001599415.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
739	<i>Aspergillus aculeatinus</i>	Eurotio	Asco	13	34	12	13	72	GCA_003184765.1	DOE Joint Genome Institute
740	<i>Aspergillus brunneoviolaceus</i>	Eurotio	Asco	13	34	12	13	72	GCA_003184695.1	DOE Joint Genome Institute
741	<i>Botrytis porri</i>	Leotio	Asco	14	31	12	15	72	GCA_004786265.1	Wageningen University
742	<i>Aspergillus fijiensis</i>	Eurotio	Asco	13	34	12	13	72	GCA_003184825.1	DOE Joint Genome Institute
743	<i>Neurospora sp. FGSC 26635</i>	Sordario	Asco	14	23	19	16	72	GCA_009804975.1	University of California, Berkeley
744	<i>Neurospora sp. LNF1-2</i>	Sordario	Asco	14	23	19	16	72	GCA_009805125.1	University of California, Berkeley

745	<i>Neurospora sp. FGSC 26631</i>	Sordario	Asco	14	23	19	16	72	GCA_009805105.1	University of California, Berkeley
746	<i>Neurospora sp. FGSC 26629</i>	Sordario	Asco	14	23	19	16	72	GCA_009805155.1	University of California, Berkeley
747	<i>Neurospora sp. FGSC 26633</i>	Sordario	Asco	14	23	19	16	72	GCA_009804945.1	University of California, Berkeley
748	<i>Neurospora sp. LNF1-1</i>	Sordario	Asco	14	23	19	16	72	GCA_009805225.1	University of California, Berkeley
749	<i>Neurospora sp. FGSC 26630</i>	Sordario	Asco	14	23	19	16	72	GCA_009805085.1	University of California, Berkeley
750	<i>Neurospora sp. FGSC 26627</i>	Sordario	Asco	14	23	19	16	72	GCA_009805365.1	University of California, Berkeley
751	<i>Venturia aucupariae</i>	Dothideo	Asco	14	32	12	14	72	GCA_003693225.1	INRA
752	<i>Morchella importuna</i>	Pezizo	Asco	15	30	14	13	72	GCA_003444635.1	Huazhong Agricultural University
753	<i>Morchella sextelata</i>	Pezizo	Asco	16	30	13	13	72	GCA_009741755.1	Inner Mongolia International Mongolian Hospital
754	<i>Phyllosticta capitalensis</i>	Dothideo	Asco	13	32	10	17	72	GCA_001604925.1	Citrus Research and Education Center, University of Florida
755	<i>Cercospora brassicicola</i>	Dothideo	Asco	11	29	16	15	71	GCA_013365245.1	Banaras Hindu University
756	<i>Raffaelea albimanens</i>	Sordario	Asco	16	24	18	13	71	GCA_002778245.1	University of Montana
757	<i>Daldinia childiae</i>	Sordario	Asco	15	25	17	14	71	GCA_008694065.1	National Institute of Biological Resources
758	<i>Aspergillus sclerotiorum</i>	Eurotio	Asco	15	27	15	14	71	GCA_000530345.1	SVSB
759	<i>Penicillium sp. str. #12</i>	Eurotio	Asco	14	27	16	14	71	GCA_013138035.1	None
760	<i>Penicillium sp. BW_12</i>	Eurotio	Asco	14	27	16	14	71	GCA_008931925.1	Tufts University
761	<i>Penicillium sp. SPG-F15</i>	Eurotio	Asco	12	30	15	14	71	GCA_003800485.1	Texas A&M University - Corpus Christi
762	<i>Entonaema liquescens</i>	Sordario	Asco	15	25	17	14	71	GCA_902805475.1	CEBITEC
763	<i>Pyrenopeziza hunteri</i>	Sordario	Asco	15	24	17	15	71	GCA_902806595.1	CEBITEC
764	<i>Lachnellula hyalina</i>	Leotio	Asco	15	30	10	16	71	GCA_007821495.1	Canadian Food Inspection Agency (CFIA)
765	<i>Aspergillus welwitschiae</i>	Eurotio	Asco	14	33	12	12	71	GCA_009761105.1	Universidade Federal de Minas Gerais
766	<i>Hypoxylon rickii</i>	Sordario	Asco	15	23	19	14	71	GCA_902806535.1	CEBITEC
767	<i>Aspergillus niger</i>	Eurotio	Asco	14	32	12	13	71	GCA_011316255.1	South China Agricultural University
768	<i>Aspergillus piperis</i>	Eurotio	Asco	14	33	11	13	71	GCA_003184755.1	DOE Joint Genome Institute
769	<i>Aspergillus japonicus</i>	Eurotio	Asco	13	34	11	13	71	GCA_003184785.1	DOE Joint Genome Institute

770	<i>Aspergillus sclerotii</i>	Eurotio	Asco	14	31	11	15	71	GCA_003184635.1	DOE Joint Genome Institute
771	<i>Thelonectria rubi</i>	Sordario	Asco	12	29	16	14	71	GCA_013420875.1	USDA-ARS
772	<i>Schizophyllum commune</i>	Agarico	Basidio	16	25	14	16	71	GCA_001599475.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
773	<i>Neurospora sp. FGSC 26632</i>	Sordario	Asco	14	23	19	15	71	GCA_009804965.1	University of California, Berkeley
774	<i>Monilinia laxa</i>	Leotio	Asco	13	30	14	14	71	GCA_009299455.1	UniBa - Univpm
775	<i>Venturia oleaginea</i>	Dothideo	Asco	14	31	11	15	71	GCA_013176395.1	FUJIAN AGRICULTURE AND FORESTRY UNIVERSITY
776	<i>Morchella conica</i>	Pezizo	Asco	15	30	13	13	71	GCA_003790465.1	DOE Joint Genome Institute
777	<i>Zasmidium cellare</i>	Dothideo	Asco	12	29	13	16	70	GCA_010093935.1	DOE Joint Genome Institute
778	<i>Cercospora kikuchii</i>	Dothideo	Asco	11	29	16	14	70	GCA_009193115.1	School of Agriculture of the University of Buenos Aires
779	<i>Pseudocercospora cruenta</i>	Dothideo	Asco	12	29	13	16	70	GCA_013365205.1	Banaras Hindu University
780	<i>Penicillium flavigenum</i>	Eurotio	Asco	13	29	15	13	70	GCA_002072365.1	Chalmers University of Technology
781	<i>Cercospora beticola</i>	Dothideo	Asco	11	28	16	15	70	GCA_003370525.1	University of Southern Queensland
782	<i>Cercospora canescens</i>	Dothideo	Asco	12	28	15	15	70	GCA_000347735.1	Banaras Hindu University
783	<i>Talaromyces funiculosus</i>	Eurotio	Asco	12	26	19	13	70	GCA_004299765.1	Shandong Agricultural University
784	<i>Penicillium sclerotiorum</i>	Eurotio	Asco	12	32	15	11	70	GCA_001750025.1	Rutgers, The State University of New Jersey
785	<i>Pseudocercospora eumusae</i>	Dothideo	Asco	11	32	14	13	70	GCA_001578235.1	University of California Davis
786	<i>Daldinia sp. EC12</i>	Sordario	Asco	15	24	18	13	70	GCA_002120325.1	DOE Joint Genome Institute
787	<i>Talaromyces stipitatus</i>	Eurotio	Asco	12	25	18	15	70	GCA_000003125.1	J. Craig Venter Institute
788	<i>Trichothecium sympodiale</i>	Sordario	Asco	16	20	21	13	70	GCA_003012115.1	USDA, ARS, NCAUR
789	<i>Daldinia concentrica</i>	Sordario	Asco	15	24	17	14	70	GCA_902805455.1	CEBITEC
790	<i>Neonectria coccinea</i>	Sordario	Asco	14	32	11	13	70	GCA_013757005.1	US Department of Agriculture, Agriculture Research Service
791	<i>Delitschia confertaspora</i>	Dothideo	Asco	15	25	18	12	70	GCA_010093945.1	DOE Joint Genome Institute
792	<i>Ampelomyces quisqualis</i>	Dothideo	Asco	14	27	16	13	70	GCA_010094095.1	DOE Joint Genome Institute

793	<i>Penicillium expansum</i>	Eurotio	Asco	12	29	15	14	70	GCA_004302965.1	ARS
794	<i>Corinectria fuckeliana</i>	Sordario	Asco	13	32	13	12	70	GCA_003385255.1	USDA-ARS
795	<i>Aspergillus floridensis</i>	Eurotio	Asco	13	33	12	12	70	GCA_012184565.1	Belgian Coordinated Collection of Microorganisms, BCCM
796	<i>Aspergillus violaceofuscus</i>	Eurotio	Asco	13	33	11	13	70	GCA_003184705.1	DOE Joint Genome Institute
797	<i>Aspergillus carbonarius</i>	Eurotio	Asco	13	32	10	15	70	GCA_001990825.1	DOE Joint Genome Institute
798	<i>Limonomyces culmigenus</i>	Agarico	Basidio	12	21	22	15	70	GCA_002233555.1	USDA-ARS
799	<i>Neurospora africana</i>	Sordario	Asco	14	21	20	15	70	GCA_000604205.2	EBC
800	<i>Ascocoryne sarcoides</i>	Leotio	Asco	13	32	14	11	70	GCA_000328965.1	Yale University
801	<i>Neurospora sp. FGSC 26636</i>	Sordario	Asco	14	22	19	15	70	GCA_009804955.1	University of California, Berkeley
802	<i>Neurospora sp. FGSC 26626</i>	Sordario	Asco	15	22	18	15	70	GCA_009805385.1	University of California, Berkeley
803	<i>Monilinia fruticicola</i>	Leotio	Asco	14	28	13	15	70	GCA_008692225.1	UniBa - Univpm
804	<i>Myriosclerotinia curreyana</i>	Leotio	Asco	14	27	14	15	70	GCA_002162495.1	University of Toronto Mississauga
805	<i>Podospora anserina</i>	Sordario	Asco	16	19	19	16	70	GCA_005222925.1	Lomonosov Moscow State University
806	<i>Thermothielavioides terrestris</i>	Sordario	Asco	15	24	17	14	70	GCA_900343105.1	CHALMERS UNIVERSITY OF TECHNOLOGY
807	<i>Sporothrix globosa</i>	Sordario	Asco	14	25	18	13	70	GCA_001630435.1	University of Messina
808	<i>Pseudocercospora fuligena</i>	Dothideo	Asco	11	29	13	16	69	GCA_014298035.1	University of California
809	<i>Cercospora cf. flagellaris</i>	Dothideo	Asco	11	28	16	14	69	GCA_005356885.1	University of Arkansas
810	<i>Penicillium verrucosum</i>	Eurotio	Asco	14	28	14	13	69	GCA_000970515.2	Max Rubner-Institut
811	<i>Cercospora sojina</i>	Dothideo	Asco	12	27	15	15	69	GCA_002534735.1	Chinese Academy of Sciences
812	<i>Coniella lustricola</i>	Sordario	Asco	12	33	14	10	69	GCA_003019895.1	DOE Joint Genome Institute
813	<i>Penicillium nordicum</i>	Eurotio	Asco	14	28	14	13	69	GCA_001278595.1	Agriculture and Agri- Food Canada
814	<i>Penicillium rolfsii</i>	Eurotio	Asco	12	31	16	10	69	GCA_011392555.1	Embrapa Agroenergia
815	<i>Penicillium sp. BW_162_3FA</i>	Eurotio	Asco	12	30	14	13	69	GCA_008931945.1	Tufts University
816	<i>Penicillium bifforme</i>	Eurotio	Asco	12	30	14	13	69	GCA_000577785.1	INRA-LIPM
817	<i>Trichothecium roseum</i>	Sordario	Asco	14	28	17	10	69	GCA_003012185.1	USDA, ARS, NCAUR
818	<i>Lachnellula arida</i>	Leotio	Asco	14	29	11	15	69	GCA_007821475.1	Canadian Food Inspection Agency (CFIA)
819	<i>Lachnellula occidentalis</i>	Leotio	Asco	14	27	13	15	69	GCA_007821535.1	Canadian Food Inspection Agency (CFIA)
820	<i>Daldinia eschscholtzii</i>	Sordario	Asco	15	24	17	13	69	GCA_001951055.1	nanjing university

821	<i>Venustampulla echinocandica</i>	Leotio	Asco	13	27	17	12	69	GCA_003357145.1	The University of Texas Health Science Center at Houston
822	<i>Microthyrium microscopicum</i>	Dothideo	Asco	11	27	16	15	69	GCA_010405405.1	DOE Joint Genome Institute
823	<i>Cercospora zeae-maydis</i>	Dothideo	Asco	13	25	15	16	69	GCA_010093985.1	JGI
824	<i>Aspergillus neoniger</i>	Eurotio	Asco	14	31	12	12	69	GCA_003184625.1	DOE Joint Genome Institute
825	<i>Sporothrix pallida</i>	Sordario	Asco	14	25	18	12	69	GCA_000710705.2	University of Messina
826	<i>Aspergillus eucalypticola</i>	Eurotio	Asco	14	32	11	12	69	GCA_003184535.1	DOE Joint Genome Institute
827	<i>Neurospora sp. FGSC 26634</i>	Sordario	Asco	14	22	18	15	69	GCA_009804985.1	University of California, Berkeley
828	<i>Neurospora sp. FGSC 26628</i>	Sordario	Asco	14	22	18	15	69	GCA_009805345.1	University of California, Berkeley
829	<i>Aspergillus sclerotioniger</i>	Eurotio	Asco	14	30	10	15	69	GCA_003184525.1	DOE Joint Genome Institute
830	<i>Ciborinia camelliae</i>	Leotio	Asco	13	29	13	14	69	GCA_001247705.1	Massey University
831	<i>Neurospora sp. FGSC 26637</i>	Sordario	Asco	14	21	19	15	69	GCA_009804845.1	University of California, Berkeley
832	<i>Monilinia polystroma</i>	Leotio	Asco	13	30	12	14	69	GCA_002909645.1	United States Department of Agriculture
833	<i>Podospora comata</i>	Sordario	Asco	16	19	18	16	69	GCA_900290415.1	IED
834	<i>Westerdykella ornata</i>	Dothideo	Asco	15	21	18	15	69	GCA_010094085.1	DOE Joint Genome Institute
835	<i>Neurospora sp. FGSC 26624</i>	Sordario	Asco	14	22	18	15	69	GCA_009805485.1	University of California, Berkeley
836	<i>Monilinia fructigena</i>	Leotio	Asco	13	30	11	15	69	GCA_003260565.1	Rita Milvia De Miccolis Angelini's shared submissions
837	<i>Penicillium solitum</i>	Eurotio	Asco	13	28	14	13	68	GCA_000952775.2	JCVI
838	<i>Penicillium polonicum</i>	Eurotio	Asco	13	28	14	13	68	GCA_013466175.1	National Institute of Agricultural Sciences, RDA
839	<i>Penicillium sp. BW_MB</i>	Eurotio	Asco	13	27	14	14	68	GCA_008931935.1	Tufts University
840	<i>Penicillium freii</i>	Eurotio	Asco	13	28	15	12	68	GCA_001513925.1	Agriculture and Agri-Food Canada
841	<i>Coniella vitis</i>	Sordario	Asco	11	31	14	12	68	GCA_011317545.1	qingdao agricultural university
842	<i>Penicillium camemberti</i>	Eurotio	Asco	12	29	14	13	68	GCA_000513335.1	INRA-LIPM
843	<i>Raffaelea ambrosiae</i>	Sordario	Asco	16	22	16	14	68	GCA_002778195.1	University of Montana
844	<i>Neurospora sp. FGSC 26638</i>	Sordario	Asco	13	22	19	14	68	GCA_009804825.1	University of California, Berkeley

845	<i>Neurospora sp. FGSC 6877</i>	Sordario	Asco	13	24	18	13	68	GCA_009805295.1	University of California, Berkeley
846	<i>Peniophora sp. CBMAI 1063</i>	Agarico	Basidio	14	22	17	15	68	GCA_900536885.1	LABORATORIO NACIONAL DE CIENCIA E TECNOLOGIA DO BI
847	<i>Penicillium oxalicum</i>	Eurotio	Asco	12	29	17	10	68	GCA_005546515.1	Nanyang Technological University
848	<i>Sclerotinia borealis</i>	Leotio	Asco	13	30	11	14	68	GCA_000503235.1	Centre Bioengineering RAS
849	<i>Neurospora cerealis</i>	Sordario	Asco	15	21	16	16	68	GCA_009806135.1	University of California, Berkeley
850	<i>Venturia asperata</i>	Dothideo	Asco	14	29	11	14	68	GCA_003689065.1	INRA
851	<i>Neurospora sp. FGSC 26623</i>	Sordario	Asco	14	22	18	14	68	GCA_009805935.1	University of California, Berkeley
852	<i>Aspergillus ibericus</i>	Eurotio	Asco	13	30	10	15	68	GCA_003184845.1	DOE Joint Genome Institute
853	<i>Punctularia strigosozonata</i>	Agarico	Basidio	13	25	14	16	68	GCA_000264995.1	JGI
854	<i>Madurella mycetomatis</i>	Sordario	Asco	15	21	20	12	68	GCA_001275765.2	ErasmusMC
855	<i>Neurospora sublineolata</i>	Sordario	Asco	14	22	18	14	68	GCA_000604185.2	EBC
856	<i>Fusarium domesticum</i>	Sordario	Asco	12	33	11	12	68	GCA_013618395.1	US Department of Agriculture, Agriculture Research Service
857	<i>Morchella crassipes</i>	Pezizo	Asco	16	28	12	12	68	GCA_009192285.1	Huazhong Agricultural University
858	<i>Phyllosticta citriasiana</i>	Dothideo	Asco	13	28	10	17	68	GCA_009193405.1	Zhejiang University
859	<i>Pallidocercospora crystallina</i>	Dothideo	Asco	11	30	12	14	67	GCA_003666085.1	Xijing Hospital, Fourth Military Medical University
860	<i>Pseudocercospora musae</i>	Dothideo	Asco	11	30	13	13	67	GCA_001578225.1	University of California Davis
861	<i>Ramularia coccinea</i>	Dothideo	Asco	16	19	21	11	67	GCA_013461505.1	Yancheng Institute of Technology
862	<i>Acidomyces sp. 'richmondensis'</i>	Dothideo	Asco	13	26	16	12	67	GCA_003545705.1	University of Massachusetts
863	<i>Aspergillus ellipticus</i>	Eurotio	Asco	13	33	9	12	67	GCA_003184645.1	DOE Joint Genome Institute
864	<i>Venturia inaequalis</i>	Dothideo	Asco	13	29	10	15	67	GCA_003689225.1	INRA
865	<i>Mycosphaerelloides madeirae</i>	Dothideo	Asco	13	27	12	15	67	GCA_002785995.1	Northwest A&F University
866	<i>Neurospora sp. FGSC 26625</i>	Sordario	Asco	13	22	18	14	67	GCA_009805435.1	University of California, Berkeley
867	<i>Neurospora sp. CHS-2018a</i>	Sordario	Asco	14	20	18	15	67	GCA_009802375.1	University of California, Berkeley
868	<i>Psilocybe cf. subviscida</i>	Agarico	Basidio	12	22	20	13	67	GCA_013368295.1	Lund University

869	<i>Cylindrobasidium torrendii</i>	Agarico	Basidio	14	27	15	11	67	GCA_000934385.1	DOE Joint Genome Institute
870	<i>Diplocarpon rosae</i>	Leotio	Asco	12	29	12	14	67	GCA_002317995.1	Leibniz Universitaet Hannover
871	<i>Phyllosticta citricarpa</i>	Dothideo	Asco	12	29	10	16	67	GCA_000382785.1	Zhejiang university
872	<i>Basipetospora chlamydospora</i>	Eurotio	Asco	16	15	21	15	67	GCA_001599675.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
873	<i>Mycena citricolor</i>	Agarico	Basidio	12	24	12	18	66	GCA_003987915.1	Universidade de Sao Paulo
874	<i>Penicillium sp. MA 6040</i>	Eurotio	Asco	12	28	15	11	66	GCA_003138025.1	University of Natural Resources and Life Sciences, Vienna
875	<i>Penicillium rubens</i>	Eurotio	Asco	12	28	15	11	66	GCA_902636305.1	IMPERIAL COLLEGE LONDON
876	<i>Penicillium vulpinum</i>	Eurotio	Asco	13	24	15	14	66	GCA_002072255.1	Chalmers University of Technology
877	<i>Penicillium chrysogenum</i>	Eurotio	Asco	12	28	15	11	66	GCA_000710275.1	Ruhr-Universitaet Bochum
878	<i>Penicillium sp. HKF2</i>	Eurotio	Asco	12	28	15	11	66	GCA_002000375.1	CSIR-NEERI
879	<i>Crepidotus sp. BD-2015</i>	Agarico	Basidio	11	19	19	17	66	GCA_001179765.1	Royal Botanic Gardens, Kew
880	<i>Cyanoderrella asteris</i>	Lecanoro	Asco	14	25	14	13	66	GCA_900618795.1	CEBITEC
881	<i>Trichothecium ovalisporum</i>	Sordario	Asco	15	18	21	12	66	GCA_003012195.1	USDA, ARS, NCAUR
882	<i>Dothistroma pini</i>	Dothideo	Asco	12	25	14	15	66	GCA_002116355.1	Canada's Michael Smith Genome Sciences Centre
883	<i>Dothidotthia symphoricarpi</i>	Dothideo	Asco	12	30	11	13	66	GCA_010015815.1	DOE Joint Genome Institute
884	<i>Venturia carpophila</i>	Dothideo	Asco	14	28	10	14	66	GCA_001990985.1	USDA-ARS
885	<i>Scedosporium boydii</i>	Sordario	Asco	14	21	17	14	66	GCA_002221725.1	GEIHP, UPRES EA 3142
886	<i>Sporothrix schenckii</i>	Sordario	Asco	14	23	17	12	66	GCA_000961545.1	LNCC
887	<i>Sporothrix brasiliensis</i>	Sordario	Asco	14	22	18	12	66	GCA_000820605.1	LNCC
888	<i>Penicillium sp. CF05</i>	Eurotio	Asco	13	27	14	11	65	GCA_002916455.1	INAIL-Research Area
889	<i>Penicillium nalgiovense</i>	Eurotio	Asco	13	27	14	11	65	GCA_000577395.2	INRA-LIPM
890	<i>Arthrotrrys entomopaga</i>	Orbilio	Asco	12	23	18	12	65	GCA_012184315.1	Laboratory for Conservation and Utilization of Bio-Resources and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
891	<i>Hypoxylon fragiforme</i>	Sordario	Asco	13	22	16	14	65	GCA_902806515.1	CEBITEC

892	<i>Neurospora sp. CHS-2018c</i>	Sordario	Asco	13	21	17	14	65	GCA_009806235.1	University of California, Berkeley
893	<i>Friedmanniomyces simplex</i>	Dothideo	Asco	14	21	17	13	65	GCA_005059865.1	University of California, Riverside
894	<i>Scedosporium apiospermum</i>	Sordario	Asco	16	19	16	14	65	GCA_000732125.1	LUNAM - Angers University
895	<i>Arthrobotrys oligospora</i>	Orbilio	Asco	12	25	17	11	65	GCA_004768765.1	Academia Sinica
896	<i>Arthrobotrys flagrans</i>	Orbilio	Asco	12	24	16	13	65	GCA_004000055.1	Institute for Applied Biosciences
897	<i>Panaeolus cyanescens</i>	Agarico	Basidio	12	19	21	13	65	GCA_002938355.1	Ohio State University
898	<i>Rhizodiscina lignyota</i>	Dothideo	Asco	11	30	12	11	64	GCA_010015805.1	DOE Joint Genome Institute
899	<i>Xenoacremonium recifei</i>	Sordario	Asco	12	28	13	11	64	GCA_012184525.1	Belgian Coordinated Collection of Microorganisms, BCCM
900	<i>Neurospora terricola</i>	Sordario	Asco	13	21	18	12	64	GCA_009805285.1	University of California, Berkeley
901	<i>Neurospora tetraspora</i>	Sordario	Asco	13	20	17	14	64	GCA_009806155.1	University of California, Berkeley
902	<i>Patellaria atrata</i>	Dothideo	Asco	13	20	16	15	64	GCA_010093705.1	DOE Joint Genome Institute
903	<i>Auriculariopsis ampla</i>	Agarico	Basidio	14	24	13	13	64	GCA_007026445.1	DOE Joint Genome Institute
904	<i>Blumeriella jaapii</i>	Leotio	Asco	14	26	11	13	64	GCA_009599575.1	Michigan State University
905	<i>Venturia effusa</i>	Dothideo	Asco	12	27	11	14	64	GCA_001901625.1	USDA-ARS
906	<i>Marssonina coronariae</i>	Leotio	Asco	12	28	9	15	64	GCA_002204255.1	Nanjing Forestry University
907	<i>Marssonina rosae</i>	Leotio	Asco	12	28	10	14	64	GCA_011750715.1	Nanjing Forestry University
908	<i>Trichoderma koningiopsis</i>	Sordario	Asco	11	23	19	10	63	GCA_002246955.1	INBIOMIS
909	<i>Trichoderma erinaceum</i>	Sordario	Asco	11	23	19	10	63	GCA_013365115.1	None
910	<i>Trichoderma atroviride</i>	Sordario	Asco	11	23	19	10	63	GCA_001599035.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
911	<i>Acronium chrysogenum</i>	Sordario	Asco	15	21	16	11	63	GCA_000769265.1	Ruhr-Universitaet Bochum
912	<i>Mycosphaerella arachidis</i>	Dothideo	Asco	13	25	10	15	63	GCA_001297265.1	USDA
913	<i>Cercospora zeina</i>	Dothideo	Asco	11	25	14	13	63	GCA_002844615.1	University of Pretoria
914	<i>Sordaria macrospora</i>	Sordario	Asco	14	20	15	14	63	GCA_008692325.1	Ruhr-University Bochum
915	<i>Hyphodiscus sp. D1413</i>	Leotio	Asco	11	25	14	13	63	GCA_003988895.1	Manaaki Whenua Landcare Research
916	<i>Stereum hirsutum</i>	Agarico	Basidio	13	22	13	15	63	GCA_000264905.1	JGI

917	<i>Neurospora crassa</i>	Sordario	Asco	12	23	15	13	63	GCA_007478085.1	Ronin Genetics
918	<i>Tothia fuscella</i>	Dothideo	Asco	13	26	11	13	63	GCA_010583015.1	DOE Joint Genome Institute
919	<i>Dactylella cylindrospora</i>	Orbilio	Asco	12	24	14	13	63	GCA_012184295.1	Laboratory for Conservation and Utilization of Bio-Resources and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
920	<i>Pterula gracilis</i>	Agarico	Basidio	15	19	14	15	63	GCA_004369125.1	DOE Joint Genome Institute
921	<i>Pleurotus salmoneostramineus</i>	Agarico	Basidio	14	21	13	15	63	GCA_002933715.1	Applied Bioscience, Kindai University, Faculty of Agriculture
922	<i>Sphaerobolus stellatus</i>	Agarico	Basidio	13	14	18	18	63	GCA_000827215.1	DOE Joint Genome Institute
923	<i>Epichloe glyceriae</i>	Sordario	Asco	11	22	19	10	62	GCA_000225285.2	University of Kentucky, Dept of Plant Pathology
924	<i>Trichoderma hamatum</i>	Sordario	Asco	11	23	18	10	62	GCA_000331835.2	University of Exeter
925	<i>Trichoderma gamsii</i>	Sordario	Asco	11	22	19	10	62	GCA_002894205.1	CSIRO
926	<i>Talaromyces borbonicus</i>	Eurotio	Asco	9	24	20	9	62	GCA_002916415.1	University of Naples "Federico II"
927	<i>Penicillium griseofulvum</i>	Eurotio	Asco	13	22	15	12	62	GCA_001561935.1	University of Turin
928	<i>Scytalidium lignicola</i>	Leotio	Asco	12	22	16	12	62	GCA_002812745.2	IHI Zittau / TU Dresden
929	<i>Scedosporium dehoogii</i>	Sordario	Asco	14	18	16	14	62	GCA_002812735.1	GEIHP, UPRES EA 3142
930	<i>Scedosporium sp. IMV 00882</i>	Sordario	Asco	14	18	16	14	62	GCA_001931805.1	Jet Propulsion Laboratory, California Institute of Technology
931	<i>Neurospora tetrasperma</i>	Sordario	Asco	12	22	15	13	62	GCA_000213195.1	US DOE Joint Genome Institute (JGI-PGF)
932	<i>Corioloopsis trogii</i>	Agarico	Basidio	15	20	10	17	62	GCA_007896425.1	Kunming University of Science and Technology
933	<i>Neurospora sp. CHS-2018b</i>	Sordario	Asco	13	19	17	13	62	GCA_009806015.1	University of California, Berkeley
934	<i>Aspergillus sclerotialis</i>	Eurotio	Asco	11	23	15	12	61	GCA_003589665.1	University of Natural Resources and Life Sciences, Vienna
935	<i>Mycosphaerella populi</i>	Dothideo	Asco	12	24	12	13	61	GCA_002153405.1	Canada's Michael Smith Genome Sciences Centre
936	<i>Talaromyces piceae</i>	Eurotio	Asco	10	23	16	12	61	GCA_001657655.1	Tianjin Institute of Biotechnology, CAS

937	<i>Rachicladosporium antarcticum</i>	Dothideo	Asco	13	17	18	13	61	GCA_002077065.1	University of California, Riverside
938	<i>Polytolypa hystricis</i>	Eurotio	Asco	14	18	17	12	61	GCA_002573605.1	Broad Institute
939	<i>Fragosphaeria purpurea</i>	Sordario	Asco	15	18	15	13	61	GCA_002778095.1	University of Montana
940	<i>Polyporus brumalis</i>	Agarico	Basidio	13	20	12	16	61	GCA_001792895.1	National Institute of Forest Science
941	<i>Raffaelea lauricola</i>	Sordario	Asco	14	21	13	13	61	GCA_014183025.1	University of Florida
942	<i>Polyporus arcularius</i>	Agarico	Basidio	13	20	12	16	61	GCA_004369055.1	DOE Joint Genome Institute
943	<i>Dictyopanus pusillus</i>	Agarico	Basidio	13	16	17	15	61	GCA_013387415.1	INRS-Institut Armand- Frappier
944	<i>Baeospora myosura</i>	Agarico	Basidio	13	19	13	16	61	GCA_001179705.1	Royal Botanic Gardens, Kew
945	<i>Grammothele lineata</i>	Agarico	Basidio	13	20	13	15	61	GCA_002150815.3	Molecular Biology Lab RIKEN Center for Life Science Technologies, Division of Genomic Technologies
946	<i>Aspergillus chevalieri</i>	Eurotio	Asco	13	22	12	14	61	GCA_001599875.1	University of Kentucky, Dept of Plant Pathology
947	<i>Periglandula ipomoeae</i>	Sordario	Asco	11	22	16	11	60	GCA_000222875.2	Canada's Michael Smith Genome Sciences Centre
948	<i>Ramularia endophylla</i>	Dothideo	Asco	12	26	11	11	60	GCA_002116395.1	J. Craig Venter Institute
949	<i>Aspergillus clavatus</i>	Eurotio	Asco	13	20	16	11	60	GCA_000002715.1	University of Montana
950	<i>Esteya vermicola</i>	Sordario	Asco	14	18	15	13	60	GCA_002778215.1	University of California, Berkeley
951	<i>Neurospora discreta</i>	Sordario	Asco	12	21	15	12	60	GCA_009805215.1	National Agriculture and Food Research Organization
952	<i>Dicyma pulvinata</i>	Sordario	Asco	14	24	12	10	60	GCA_006538405.1	University of Montana
953	<i>Raffaelea sp. RL272</i>	Sordario	Asco	13	22	11	14	60	GCA_002777955.1	Universidad de Antioquia
954	<i>Aspergillus tritici</i>	Eurotio	Asco	15	19	13	13	60	GCA_009812425.1	University of Pretoria
955	<i>Teratosphaeria gauchensis</i>	Dothideo	Asco	12	25	10	13	60	GCA_007113925.1	Stanford University
956	<i>Arthonia radiata</i>	Arthonio	Asco	11	22	17	10	60	GCA_002989075.1	Lund University
957	<i>Tricholomella constricta</i>	Agarico	Basidio	13	21	11	15	60	GCA_013368375.1	DOE Joint Genome Institute
958	<i>Aspergillus heteromorphus</i>	Eurotio	Asco	13	27	8	12	60	GCA_003184545.1	Laboratory for Conservation and Utilization of Bio- Resources and Key Laboratory for Microbial Diversity in Southwest China, Ministry of Education
959	<i>Drechlerella brochopaga</i>	Orbilio	Asco	11	22	15	12	60	GCA_012184305.1	

960	<i>Phyllachora maydis</i>	Sordario	Asco	13	20	13	14	60	GCA_011801745.1	Purdue University, Botany and Plant Pathology
961	<i>Armillaria borealis</i>	Agarico	Basidio	12	19	13	16	60	GCA_013427175.2	Genome Research and Education Center, Siberian Federal University
962	<i>Armillaria ostoyae</i>	Agarico	Basidio	12	22	12	14	60	GCA_900157425.1	Technische Universitat Munchen - WZW
963	<i>Trichoderma atrobrunneum</i>	Sordario	Asco	13	18	17	11	59	GCA_003439915.1	Institute of Sciences of Food Production (ISPA)
964	<i>Trichoderma guizhouense</i>	Sordario	Asco	13	18	17	11	59	GCA_002022785.1	Nanjing Agricultural University
965	<i>Rachicladosporium sp. CCFEE 5018</i>	Dothideo	Asco	12	17	18	12	59	GCA_002077045.2	University of California, Riverside
966	<i>Aspergillus saccharolyticus</i>	Eurotio	Asco	13	24	9	13	59	GCA_003184585.1	DOE Joint Genome Institute
967	<i>Lophium mytilinum</i>	Dothideo	Asco	14	18	12	15	59	GCA_010093605.1	DOE Joint Genome Institute
968	<i>Ploettnerulaceae sp. D365</i>	Leotio	Asco	13	21	11	14	59	GCA_003988805.1	Manaaki Whenua Landcare Research
969	<i>Teratosphaeria zuluensis</i>	Dothideo	Asco	12	24	10	13	59	GCA_007113905.1	University of Pretoria
970	<i>Pseudophaeomoniella oleicola</i>	Eurotio	Asco	10	27	10	12	59	GCA_003868215.1	University of Bari "A. Moro"
971	<i>Dothistroma septosporum</i>	Dothideo	Asco	12	19	14	14	59	GCA_002236755.2	Massey University
972	<i>Talaromyces marneffeii</i>	Eurotio	Asco	10	24	14	11	59	GCA_009650675.1	Broad Institute
973	<i>Sporothrix insectorum</i>	Sordario	Asco	14	17	15	13	59	GCA_001636815.1	Shanghai Institutes for Biological Sciences, CAS
974	<i>Amesia nigricolor</i>	Sordario	Asco	14	17	14	14	59	GCA_004802645.1	Qingdao University
975	<i>Sporormia fimetaria</i>	Dothideo	Asco	14	14	19	12	59	GCA_010093795.1	DOE Joint Genome Institute
976	<i>Aeminium ludgeri</i>	Dothideo	Asco	14	24	11	10	59	GCA_004216415.1	Centre for Functional Diversity
977	<i>Dendrothele bispora</i>	Agarico	Basidio	15	18	11	15	59	GCA_004369135.1	DOE Joint Genome Institute
978	<i>Armillaria solidipes</i>	Agarico	Basidio	12	19	12	16	59	GCA_002307675.1	DOE Joint Genome Institute
979	<i>Trichoderma asperellum</i>	Sordario	Asco	11	19	18	10	58	GCA_013423425.1	Chubu university
980	<i>Trichoderma harzianum</i>	Sordario	Asco	13	17	17	11	58	GCA_010015525.1	The University of Adelaide
981	<i>Nothophaeocryptopus gaeumannii</i>	Dothideo	Asco	11	27	6	14	58	GCA_002116385.1	Canada's Michael Smith Genome Sciences Centre
982	<i>Penicillium coprophilum</i>	Eurotio	Asco	12	19	15	12	58	GCA_002072405.1	Chalmers University of Technology

983	<i>Trametes villosa</i>	Agarico	Basidio	13	16	13	16	58	GCA_002964805.1	Universidade Federal de Minas Gerais
984	<i>Ganoderma tsugae</i>	Agarico	Basidio	12	19	12	15	58	GCA_003057275.1	Biotechnology and Nuclear Technology Research Institute
985	<i>Passalora sequoiae</i>	Dothideo	Asco	11	23	10	14	58	GCA_013248845.1	USDA
986	<i>Pseudonectria buxi</i>	Sordario	Asco	13	25	9	11	58	GCA_003693545.1	USDA-ARS
987	<i>Tinctoporellus epimiltinus</i>	Agarico	Basidio	12	20	12	14	58	GCA_900155495.1	BIOTECHNOLOGY RESEARCH INSTITUTE
988	<i>Aulographum hederarum</i>	Dothideo	Asco	12	22	11	13	58	GCA_010015705.1	DOE Joint Genome Institute
989	<i>Microcyclosporella mali</i>	Dothideo	Asco	11	21	15	11	58	GCA_002785985.1	Northwest A&F University
990	<i>Exutisphaerella laricina</i>	Dothideo	Asco	13	19	13	13	58	GCA_000504385.2	Canada's Michael Smith Genome Sciences Centre
991	<i>Delphinella strobiligena</i>	Dothideo	Asco	11	25	7	15	58	GCA_009982845.1	DOE Joint Genome Institute
992	<i>Chlorenchocelia torta</i>	Leotio	Asco	12	19	14	13	58	GCA_003988815.1	Manaaki Whenua Landcare Research
993	<i>Dichomitus squalens</i>	Agarico	Basidio	12	20	10	16	58	GCA_004307925.1	DOE Joint Genome Institute
994	<i>Agrocybe cylindracea</i>	Agarico	Basidio	13	17	14	14	58	GCA_013376435.1	Beijing Institute of Genomics, CAS
995	<i>Trichocladium griseum</i>	Sordario	Asco	14	16	16	12	58	GCA_011316235.1	Embrapa Agroenergia
996	<i>Scedosporium aurantiacum</i>	Sordario	Asco	14	15	15	14	58	GCA_000812075.1	Australian National University
997	<i>Flammulina velutipes</i>	Agarico	Basidio	13	17	16	12	58	GCA_011800155.1	Fujian Agriculture and Forestry University
998	<i>Coprinellus micaceus</i>	Agarico	Basidio	13	13	17	15	58	GCA_004369175.1	DOE Joint Genome Institute
999	<i>Pleurotus pulmonarius</i>	Agarico	Basidio	13	18	13	14	58	GCA_012980535.1	Academia Sinica
1000	<i>Ceratobasidium theobromae</i>	Agarico	Basidio	13	22	10	13	58	GCA_009078325.1	Beltsville Agricultural Research Center
1001	<i>Armillaria cepistipes</i>	Agarico	Basidio	12	19	13	14	58	GCA_900157415.1	Technische Universitat Munchen - WZW
1002	<i>Aspergillus cristatus</i>	Eurotio	Asco	12	21	12	13	58	GCA_001693355.1	Shandong Freda Pharmaceutical Group Corporation
1003	<i>Rhizoctonia solani</i>	Agarico	Basidio	16	20	7	15	58	GCA_001899475.2	Universiti Kebangsaan Malaysia
1004	<i>Ascobolus immersus</i>	Pezizo	Asco	14	15	18	11	58	GCA_003788565.2	DOE Joint Genome Institute
1005	<i>Tulasnella calospora</i>	Agarico	Basidio	12	19	14	13	58	GCA_000827465.1	DOE Joint Genome Institute

1006	<i>Armillaria fuscipes</i>	Agarico	Basidio	14	16	11	17	58	GCA_001679825.1	Forestry and Agricultural Biotechnology Institute, University of Pretoria
1007	<i>Cantharellus appalachiensis</i>	Agarico	Basidio	10	21	18	8	57	GCA_003314335.1	Kunming University of Science and Technology
1008	<i>Trichoderma sp. IMV 00454</i>	Sordario	Asco	13	17	16	11	57	GCA_001931985.1	Jet Propulsion Laboratory, California Institute of Technology
1009	<i>Penicillium sp. OUCMDZ-019</i>	Eurotio	Asco	10	23	12	12	57	GCA_011750695.1	ocean university of China
1010	<i>[Talaromyces] leycettanus</i>	Eurotio	Asco	11	20	16	10	57	GCA_000787455.1	none
1011	<i>Aspergillus campestris</i>	Eurotio	Asco	12	19	15	11	57	GCA_002847485.1	DOE Joint Genome Institute
1012	<i>Lentinus tigrinus</i>	Agarico	Basidio	13	18	11	15	57	GCA_003813185.1	DOE Joint Genome Institute
1013	<i>Ganoderma boninense</i>	Agarico	Basidio	12	17	13	15	57	GCA_002900995.2	PT SMART Tbk
1014	<i>Teratosphaeria nubilosa</i>	Dothideo	Asco	11	24	10	12	57	GCA_010093825.1	DOE Joint Genome Institute
1015	<i>Chlorociboria aeruginascens</i>	Leotio	Asco	12	17	16	12	57	GCA_002276475.2	IHI Zittau / TU Dresden
1016	<i>Zymoseptoria pseudotritici</i>	Dothideo	Asco	11	23	14	9	57	GCA_000223685.2	University of Aarhus, Bioinformatics Research Center
1017	<i>Amylostereum areolatum</i>	Agarico	Basidio	13	19	10	15	57	GCA_012932865.1	Beijing Forestry University
1018	<i>Ophiostoma piceae</i>	Sordario	Asco	12	22	12	11	57	GCA_000410735.1	University of British Columbia
1019	<i>Myriangium duriaei</i>	Dothideo	Asco	12	21	12	12	57	GCA_010093895.1	DOE Joint Genome Institute
1020	<i>Trametes pubescens</i>	Agarico	Basidio	13	17	11	16	57	GCA_001895945.1	CBS-KNAW Fungal Biodiversity Centre Institute of the Royal Netherlands Academy of Arts and Science
1021	<i>Galerina marginata</i>	Agarico	Basidio	12	17	13	15	57	GCA_000697645.1	DOE Joint Genome Institute
1022	<i>Agrocybe pediades</i>	Agarico	Basidio	12	16	15	14	57	GCA_013053245.1	Lund University
1023	<i>Leucocalocybe mongolica</i>	Agarico	Basidio	13	16	12	16	57	GCA_013420905.1	Jilin Agricultural University
1024	<i>Trichoderma lentiforme</i>	Sordario	Asco	13	16	16	11	56	GCA_011066345.1	Embrapa Agroenergia
1025	<i>Talaromyces atroroseus</i>	Eurotio	Asco	9	24	13	10	56	GCA_001907595.1	Technical University of Denmark
1026	<i>Ramularia collo-cygni</i>	Dothideo	Asco	11	19	13	13	56	GCA_900074925.1	Technische Universitat Munchen - WZW
1027	<i>Ganoderma multipileum</i>	Agarico	Basidio	12	18	11	15	56	GCA_000338015.1	Ganoderma lucidum Research Consortium

1028	<i>Aspergillus taichungensis</i>	Eurotio	Asco	12	19	14	11	56	GCA_002850765.1	DOE Joint Genome Institute
1029	<i>Mycosphaerella sp. Ston1</i>	Dothideo	Asco	11	23	7	15	56	GCA_000504405.2	Canada's Michael Smith Genome Sciences Centre
1030	<i>Geosmithia putterillii</i>	Sordario	Asco	12	18	10	16	56	GCA_900188575.1	UNIVERSITY OF NEW HAMPSHIRE
1031	<i>Hortaea thailandica</i>	Dothideo	Asco	12	24	9	11	56	GCA_005059885.1	University of California, Riverside
1032	<i>Aspergillus rambellii</i>	Eurotio	Asco	12	21	13	10	56	GCA_000986645.1	USDA-ARS-SRRC
1033	<i>Sphaerulina musiva</i>	Dothideo	Asco	10	25	7	14	56	GCA_000320565.2	JGI
1034	<i>Trametes polyzona</i>	Agarico	Basidio	13	16	12	15	56	GCA_001939255.1	Universidad Nacional Agraria La Molina, The Institute of Medicinal Plant Development, China
1035	<i>Ganoderma sinense</i>	Agarico	Basidio	13	16	11	16	56	GCA_002760635.1	DOE Joint Genome Institute
1036	<i>Aspergillus coremiiformis</i>	Eurotio	Asco	11	25	9	11	56	GCA_009193565.1	The Institute of Medicinal Plant Development
1037	<i>Ganoderma lucidum</i>	Agarico	Basidio	12	18	11	15	56	GCA_000271565.1	none
1038	<i>Lentinus polychrous</i>	Agarico	Basidio	12	18	13	13	56	GCA_000787475.1	DOE Joint Genome Institute
1039	<i>Aspergillus glaucus</i>	Eurotio	Asco	11	23	8	14	56	GCA_001890805.1	DTU
1040	<i>Rhizophlyctis rosea</i>	Chytridio	Chytridio	14	17	14	11	56	GCA_002214945.1	DOE Joint Genome Institute
1041	<i>Fibularhizoctonia sp. CBS 109695</i>	Agarico	Basidio	12	15	13	15	55	GCA_001630335.1	DSM Bio-based Products & Services B.V.
1042	<i>Rasamsonia emersonii</i>	Eurotio	Asco	10	21	13	11	55	GCA_000968595.1	University of Pretoria
1043	<i>Teratosphaeria pseudoecalypti</i>	Dothideo	Asco	11	23	9	12	55	GCA_013403795.1	Christian-Albrechts University of Kiel
1044	<i>Zymoseptoria brevis</i>	Dothideo	Asco	11	21	14	9	55	GCA_000966595.1	ETH
1045	<i>Zymoseptoria tritici</i>	Dothideo	Asco	11	21	13	10	55	GCA_900184105.1	DOE Joint Genome Institute
1046	<i>Sodiomyces alkalinus</i>	Sordario	Asco	13	13	17	12	55	GCA_003711515.1	DOE Joint Genome Institute
1047	<i>Aspergillus ochraceoroseus</i>	Eurotio	Asco	12	21	12	10	55	GCA_002846915.2	DOE Joint Genome Institute
1048	<i>Trametes versicolor</i>	Agarico	Basidio	13	16	11	15	55	GCA_000271585.1	JGI
1049	<i>Trametes sp. AH28-2</i>	Agarico	Basidio	13	16	10	16	55	GCA_001304625.1	Anhui University
1050	<i>Mycosphaerella sp. PB-2012b</i>	Dothideo	Asco	10	23	8	14	55	GCA_002116345.1	Canada's Michael Smith Genome Sciences Centre
1051	<i>Moniliophthora rozeri</i>	Agarico	Basidio	13	16	12	14	55	GCA_001466705.1	Purdue University
1052	<i>Morchella sp. a71</i>	Pezizo	Asco	15	20	9	11	55	GCA_013407065.1	Chongqing Normal University
1053	<i>Coccinonectria pachysandricola</i>	Sordario	Asco	12	23	9	11	55	GCA_013283235.1	USDA-ARS

1054	<i>Phlebiopsis gigantea</i>	Agarico	Basidio	13	14	12	16	55	GCA_000832265.1	DOE Joint Genome Institute
1055	<i>Heterobasidion irregulare</i>	Agarico	Basidio	12	18	11	14	55	GCA_000320585.2	JGI
1056	<i>Chondrostereum purpureum</i>	Agarico	Basidio	13	16	11	15	55	GCA_004354395.1	Internationales Hochschulinstitut Zittau
1057	<i>Hydnomerulius pinastri</i>	Agarico	Basidio	15	15	10	15	55	GCA_000827185.1	DOE Joint Genome Institute
1058	<i>Ophiostoma novo-ulmi</i>	Sordario	Asco	13	20	10	12	55	GCA_000317715.1	Association of Biomolecular Resource Facilities
1059	<i>Crucibulum laeve</i>	Agarico	Basidio	14	14	13	14	55	GCA_004379715.1	DOE Joint Genome Institute
1060	<i>Gymnopus androsaceus</i>	Agarico	Basidio	10	18	15	12	55	GCA_009733575.1	DOE Joint Genome Institute
1061	<i>Lepista sordida</i>	Agarico	Basidio	12	15	12	16	55	GCA_900168675.1	UNIVERSITY OF BRISTOL
1062	<i>Porodaedalea pini</i>	Agarico	Basidio	12	17	11	15	55	GCA_002794775.1	Academia Sinica
1063	<i>Pleurotus tuoliensis</i>	Agarico	Basidio	12	17	11	15	55	GCA_003243755.1	Northeast Normal University
1064	<i>Trichoderma virens</i>	Sordario	Asco	12	14	17	11	54	GCA_001835465.1	Bhabha Atomic Research Centre
1065	<i>Lecanosticta acicola</i>	Dothideo	Asco	11	18	11	14	54	GCA_002441625.1	Mississippi State University
1066	<i>Saccharata proteae</i>	Dothideo	Asco	11	23	7	13	54	GCA_010015785.1	DOE Joint Genome Institute
1067	<i>Pseudonectria foliicola</i>	Sordario	Asco	11	24	9	10	54	GCA_002911195.1	USDA
1068	<i>Teratosphaeria destructans</i>	Dothideo	Asco	11	23	9	11	54	GCA_010367415.1	Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria
1069	<i>Taxomyces andreanae</i>	0	Asco	13	15	11	15	54	GCA_001969225.1	Fraunhofer
1070	<i>Trametes sanguinea</i>	Agarico	Basidio	13	15	10	16	54	GCA_008973685.1	School of Bioscience and Technology
1071	<i>Trametes coccinea</i>	Agarico	Basidio	13	15	10	16	54	GCA_002092935.1	DOE Joint Genome Institute
1072	<i>Penicillium digitatum</i>	Eurotio	Asco	11	23	10	10	54	GCA_012295545.1	Huazhong Agricultural University
1073	<i>Trametes hirsuta</i>	Agarico	Basidio	12	16	12	14	54	GCA_001302255.2	A.N. Bach Institute of Biochemistry
1074	<i>Agaricales sp. HM26-F1</i>	Agarico	Basidio	12	19	10	13	54	GCA_002718315.1	Shanghai Academy of Agricultural Sciences
1075	<i>Gymnopilus dilepis</i>	Agarico	Basidio	14	12	14	14	54	GCA_002938385.1	Ohio State University
1076	<i>Pleurotus citrinopileatus</i>	Agarico	Basidio	12	16	10	16	54	GCA_003314595.1	Kunming University of Science and Technology

1077	<i>Pleurotus eryngii</i>	Agarico	Basidio	12	18	11	13	54	GCA_001717165.1	Shanghai Academy of Agricultural Sciences
1078	<i>Lyophyllum shimeji</i>	Agarico	Basidio	13	14	10	16	53	GCA_001950515.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1079	<i>Zymoseptoria ardabiliae</i>	Dothideo	Asco	11	19	13	10	53	GCA_000223765.2	University of Aarhus, Bioinformatics Research Center
1080	<i>Cenococcum geophilum</i>	Dothideo	Asco	13	15	10	15	53	GCA_001692895.1	DOE Joint Genome Institute
1081	<i>Agrocybe aegerita</i>	Agarico	Basidio	12	14	13	14	53	GCA_902728275.1	Integrative Pilzforschung
1082	<i>Lineolata rhizophorae</i>	Dothideo	Asco	14	10	16	13	53	GCA_010093515.1	DOE Joint Genome Institute
1083	<i>Phanerochaete chrysosporium</i>	Agarico	Basidio	13	12	12	16	53	GCA_001910725.1	National Institute of Forest Science
1084	<i>Fusarium ventricosum</i>	Sordario	Asco	11	20	10	12	53	GCA_013623725.1	US Department of Agriculture, Agriculture Research Service
1085	<i>Heterobasidion parviporum</i>	Agarico	Basidio	12	17	10	14	53	GCA_002994785.1	University of Helsinki
1086	<i>Trichodelitschia bisporula</i>	Dothideo	Asco	10	25	8	10	53	GCA_010356995.1	DOE Joint Genome Institute
1087	<i>Heterobasidion annosum</i>	Agarico	Basidio	12	17	10	14	53	GCA_000633895.1	Seoul National University
1088	<i>Phanerochaete carnosa</i>	Agarico	Basidio	12	12	14	15	53	GCA_000300595.1	DOE Joint Genome Institute
1089	<i>Pleurotus ostreatus</i>	Agarico	Basidio	11	16	13	13	53	GCA_003313235.2	Chinese Academy of Agricultural Sciences
1090	<i>Gymnopus luxurians</i>	Agarico	Basidio	12	17	11	13	53	GCA_000827265.1	DOE JGI
1091	<i>Leucoagaricus leucothites</i>	Agarico	Basidio	12	14	12	15	53	GCA_013368445.1	Lund University
1092	<i>Trichoderma pleuroti</i>	Sordario	Asco	13	13	15	11	52	GCA_001721665.1	University of Pecs
1093	<i>Ganoderma sp. BRIUMSc</i>	Agarico	Basidio	12	16	10	14	52	GCA_008694245.1	Universiti Malaysia Sabah
1094	<i>Penicillium italicum</i>	Eurotio	Asco	12	21	8	11	52	GCA_000769765.1	Center for Genomic Regulation (CRG)
1095	<i>Lyophyllum decastes</i>	Agarico	Basidio	13	16	9	14	52	GCA_001950495.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1096	<i>Hericium coralloides</i>	Agarico	Basidio	12	13	12	15	52	GCA_003675405.1	Tibet Vocational Technical College
1097	<i>Trametes cinnabarina</i>	Agarico	Basidio	13	14	10	15	52	GCA_000787515.1	Aalborg University
1098	<i>Coprinellus angulatus</i>	Agarico	Basidio	11	11	15	15	52	GCA_013368325.1	Lund University
1099	<i>Phlebia tremellosa</i>	Agarico	Basidio	14	10	11	17	52	GCA_011032875.1	Ningxia University

1100	<i>Steccherinum ochraceum</i>	Agarico	Basidio	12	13	12	15	52	GCA_004332605.1	The Federal Research Centre "Fundamentals of Biotechnology" of the Russian Academy of Sciences
1101	<i>Thielaviopsis ethacetica</i>	Sordario	Asco	12	17	12	11	52	GCA_001599055.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1102	<i>Macrolepiota dolichaula</i>	Agarico	Basidio	12	13	12	15	52	GCA_003315915.1	Kunming University of Science and Technology
1103	<i>Cantharellus cibarius</i>	Agarico	Basidio	8	20	16	7	51	GCA_003521295.1	Kunming University of Science and Technology Institute of Biology, Shnaodong Academy of Science, China
1104	<i>Trichoderma viride</i>	Sordario	Asco	11	13	16	11	51	GCA_007896495.1	The University of Adelaide
1105	<i>Trichoderma sp. TW21990_1</i>	Sordario	Asco	12	12	16	11	51	GCA_010015515.1	University of California, Riverside
1106	<i>Friedmanniomyces endolithicus</i>	Dothideo	Asco	14	13	14	10	51	GCA_005059855.1	INRA-LIPM
1107	<i>Penicillium paneum</i>	Eurotio	Asco	12	18	10	11	51	GCA_000577715.1	University of Aarhus, Bioinformatics Research Center
1108	<i>Zymoseptoria passerinii</i>	Dothideo	Asco	11	17	13	10	51	GCA_000223825.2	University of Malaya
1109	<i>Lignosus rhinocerotis</i>	Agarico	Basidio	12	14	11	14	51	GCA_000743315.1	University of Montana
1110	<i>Raffaelea quercivora</i>	Sordario	Asco	10	20	8	13	51	GCA_002778125.1	IHI Zittau / TU Dresden
1111	<i>Dentipellis fragilis</i>	Agarico	Basidio	12	14	11	14	51	GCA_004679275.1	JGI
1112	<i>Baudoinia panamericana</i>	Dothideo	Asco	11	16	13	11	51	GCA_000338955.1	Anhui university
1113	<i>Irpex lacteus</i>	Agarico	Basidio	13	13	11	14	51	GCA_001986395.2	DOE Joint Genome Institute
1114	<i>Sphaerosporella brunnea</i>	Pezizo	Asco	14	15	8	14	51	GCA_008704415.1	University of Montana
1115	<i>Raffaelea arxii</i>	Sordario	Asco	12	16	10	12	50	GCA_002778165.1	DOE Joint Genome Institute
1116	<i>Mytilinidion resinicola</i>	Dothideo	Asco	13	12	10	15	50	GCA_010093595.1	University of Natural Resources and Life Sciences, Vienna
1117	<i>Aspergillus sp. HF37</i>	Eurotio	Asco	12	16	11	11	50	GCA_003698115.1	Jet Propulsion Laboratory, California Institute of Technology
1118	<i>Thermoascaceae sp. COH1141</i>	Eurotio	Asco	8	20	9	13	50	GCA_003123655.1	Amazonian macromicets: knowing their diversity and evaluating their biotechnological
1119	<i>Pleurotus ostreatoroseus</i>	Agarico	Basidio	13	14	9	14	50	GCA_005298045.1	

1120	<i>Gloeophyllum trabeum</i>	Agarico	Basidio	11	16	10	13	50	GCA_000344685.1	potential in a sustainable way
1121	<i>Gloeostereum incarnatum</i>	Agarico	Basidio	11	14	10	15	50	GCA_010588315.1	JGI
1122	<i>Stropharia rugosoannulata</i>	Agarico	Basidio	13	10	12	15	50	GCA_003314255.1	Jilin Agricultural University
1123	<i>Grosmanina penicillata</i>	Sordario	Asco	10	21	7	12	50	GCA_002778075.1	Kunming University of Science and Technology
1124	<i>Obba rivulosa</i>	Agarico	Basidio	12	11	11	16	50	GCA_001687445.1	University of Montana
1125	<i>Hypsizygus marmoreus</i>	Agarico	Basidio	13	14	10	13	50	GCA_013433165.1	DOE Joint Genome Institute
1126	<i>Neonothopanus nambi</i>	Agarico	Basidio	12	10	12	16	50	GCA_003987895.1	Fujian Agriculture and Forestry University
1127	<i>Armillaria gallica</i>	Agarico	Basidio	12	14	10	14	50	GCA_012064365.1	Universidade de Sao Paulo
1128	<i>Hypholoma sublateritium</i>	Agarico	Basidio	12	10	14	14	50	GCA_000827495.1	Yunnan Minzu University
1129	<i>Serendipita vermifera</i>	Agarico	Basidio	14	14	11	11	50	GCA_003073295.1	JGI
1130	<i>Trichoderma arundinaceum</i>	Sordario	Asco	12	12	15	10	49	GCA_003012105.1	DOE Joint Genome Institute
1131	<i>Trichoderma reesei</i>	Sordario	Asco	12	10	16	11	49	GCA_000167675.2	USDA, ARS, NCAUR
1132	<i>Trichoderma longibrachiatum</i>	Sordario	Asco	12	10	15	12	49	GCA_000332775.1	DOE Joint Genome Institute
1133	<i>Trichoderma koningii</i>	Sordario	Asco	12	10	15	12	49	GCA_001950475.1	Shandong University
1134	<i>Penicillium roqueforti</i>	Eurotio	Asco	11	19	9	10	49	GCA_001599855.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1135	<i>Dentipellis sp. KUC8613</i>	Agarico	Basidio	12	14	10	13	49	GCA_002286715.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1136	<i>Penicillioopsis zonata</i>	Eurotio	Asco	10	19	11	9	49	GCA_001890105.1	Korea University
1137	<i>Coniophora puteana</i>	Agarico	Basidio	13	14	8	14	49	GCA_000271625.1	DOE Joint Genome Institute
1138	<i>Ochroconis constricta</i>	Dothideo	Asco	12	16	9	12	49	GCA_000611715.1	DOE Joint Genome Institute
1139	<i>Plicaturopsis crispa</i>	Agarico	Basidio	12	16	6	15	49	GCA_000827205.1	UNIVERSITY OF MALAYA
1140	<i>Leptographium lundbergii</i>	Sordario	Asco	10	22	5	12	49	GCA_001455505.1	DOE Joint Genome Institute
1141	<i>Exophiala lecanii-corni</i>	Eurotio	Asco	10	16	9	14	49	GCA_003955835.1	University of Pretoria
1142	<i>Grifola frondosa</i>	Agarico	Basidio	13	12	8	16	49	GCA_001683735.1	Naval Research Laboratory
1143	<i>Psathyrella aberdarensis</i>	Agarico	Basidio	12	7	15	15	49	GCA_004126415.1	Korea University
										IHI Zittau / TU Dresden

1144	<i>Thielaviopsis punctulata</i>	Sordario	Asco	11	16	10	12	49	GCA_002925815.1	Forestry and Agricultural Biotechnology Institute
1145	<i>Pochonia chlamydosporia</i>	Sordario	Asco	11	13	12	12	48	GCA_001653235.2	The Institute of Vegetables and Flowers CAAS
1146	<i>Trichoderma parareesei</i>	Sordario	Asco	11	11	16	10	48	GCA_001050175.1	Vienna University of Technology
1147	<i>Byssochlamys sp. AF001</i>	Eurotio	Asco	7	23	9	9	48	GCA_002914405.1	University of Oklahoma
1148	<i>Choiromyces venosus</i>	Pezizo	Asco	12	17	7	12	48	GCA_003788595.2	DOE Joint Genome Institute
1149	<i>Gelatoporia subvermispota</i>	Agarico	Basidio	12	11	10	15	48	GCA_000320605.2	DOE Joint Genome Institute
1150	<i>Pseudogymnoascus destructans</i>	Leotio	Asco	10	21	8	9	48	GCA_001641265.1	US Forest Service
1151	<i>Verruconis gallopava</i>	Dothideo	Asco	9	19	7	13	48	GCA_000836295.1	Broad Institute
1152	<i>Thielaviopsis euricoi</i>	Sordario	Asco	10	17	11	10	48	GCA_001599615.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1153	<i>Macrocybe gigantea</i>	Agarico	Basidio	11	14	9	14	48	GCA_011319805.1	Yunnan Agricultural University
1154	<i>Leucoagaricus sp. SymC.cos</i>	Agarico	Basidio	11	11	12	14	48	GCA_001563735.1	BGI
1155	<i>Bretziella fagacearum</i>	Sordario	Asco	12	15	9	12	48	GCA_002018255.1	Forestry and Agricultural Biotechnology Institute
1156	<i>Pleurotus tuber-regium</i>	Agarico	Basidio	13	11	10	14	48	GCA_014058305.1	Huazhong Agricultural University
1157	<i>Termitomyces sp. JCM 13351</i>	Agarico	Basidio	12	9	12	15	48	GCA_001972325.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1158	<i>Trichoderma brevicompactum</i>	Sordario	Asco	12	11	14	10	47	GCA_003012085.1	USDA, ARS, NCAUR
1159	<i>Penicillium carneum</i>	Eurotio	Asco	11	18	8	10	47	GCA_000577495.1	INRA-LIPM
1160	<i>Byssochlamys nivea</i>	Eurotio	Asco	8	20	9	10	47	GCA_003116535.1	Cornell University
1161	<i>Geosmithia flava</i>	Sordario	Asco	10	17	7	13	47	GCA_900188565.1	UNIVERSITY OF NEW HAMPSHIRE
1162	<i>Hericium erinaceus</i>	Agarico	Basidio	12	14	7	14	47	GCA_006506795.2	Institute of Bast Fiber Crops, Chinese Academy of Agricultural Sciences
1163	<i>Chaetomium thermophilum</i>	Sordario	Asco	11	13	14	9	47	GCA_000221225.1	EMBL
1164	<i>Heliocybe sulcata</i>	Agarico	Basidio	9	16	11	11	47	GCA_004369045.1	DOE Joint Genome Institute
1165	<i>Raffaelea quercus-mongolicae</i>	Sordario	Asco	10	17	7	13	47	GCA_002215975.1	Seoul National University
1166	<i>Hericium alpestre</i>	Agarico	Basidio	12	12	8	15	47	GCA_004681135.1	IHI Zittau / TU Dresden
1167	<i>Serendipita indica</i>	Agarico	Basidio	12	13	10	12	47	GCA_000313545.1	Institute of Bioinformatics and

1168	<i>Psilocybe cyanescens</i>	Agarico	Basidio	11	9	12	15	47	GCA_002938375.1	Systems Biology, Helmholtz Zentrum München, Neuherberg, Germany
1169	<i>Mycosphaerella populicola</i>	Dothideo	Asco	8	20	6	12	46	GCA_000291705.1	Ohio State University University of British Columbia
1170	<i>Saitozyma sp. JCM 24511</i>	Tremello	Basidio	5	22	12	7	46	GCA_001600855.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1171	<i>Coprinopsis cinerea</i>	Agarico	Basidio	11	8	15	12	46	GCA_000182895.1	Broad Institute
1172	<i>Pholiota adiposa</i>	Agarico	Basidio	11	11	11	13	46	GCA_009935795.1	Dezhou University
1173	<i>Ophiostoma ips</i>	Sordario	Asco	8	20	8	10	46	GCA_002917055.1	University of Pretoria Engineering Research Center of Chinese Ministry of Education for Edible and Medicinal Fungi
1174	<i>Sarcomyxa edulis</i>	Agarico	Basidio	10	14	9	13	46	GCA_009761415.1	University of Pretoria Biodiversity Research Center, Academia Sinica
1175	<i>Thielaviopsis musarum</i>	Sordario	Asco	12	13	9	12	46	GCA_001513885.1	Lund University
1176	<i>Coniferiporia sulphurascens</i>	Agarico	Basidio	13	10	9	14	46	GCA_002794785.1	Zhejiang University
1177	<i>Gymnopus confluens</i>	Agarico	Basidio	11	13	9	13	46	GCA_013368555.1	Michael Smith Laboratories at UBC
1178	<i>Calcarisporium arbuscula</i>	Sordario	Asco	10	12	12	11	45	GCA_009828645.1	Broad Institute
1179	<i>Grosmannia clavigera</i>	Sordario	Asco	10	19	4	12	45	GCA_000143105.2	IHI Zittau / TU Dresden
1180	<i>Exophiala xenobiotica</i>	Eurotio	Asco	9	14	10	12	45	GCA_000835505.1	University of Stellenbosch
1181	<i>Bondarzewia mesenterica</i>	Agarico	Basidio	12	9	7	17	45	GCA_004802705.1	National Institute of Forest Science
1182	<i>Knoxdaviesia proteae</i>	Sordario	Asco	13	7	13	12	45	GCA_001510565.1	JGI
1183	<i>Fomitopsis palustris</i>	Agarico	Basidio	10	12	10	13	45	GCA_001937815.1	Southwest University
1184	<i>Botryobasidium botryosum</i>	Agarico	Basidio	14	6	11	14	45	GCA_000697705.1	DOE Joint Genome Institute
1185	<i>Athelia rolfsii</i>	Agarico	Basidio	10	16	9	10	45	GCA_002940785.1	Harvard University
1186	<i>Coprinopsis marcescibilis</i>	Agarico	Basidio	11	7	13	14	45	GCA_004369085.1	Forestry and Agricultural Biotechnology Institute
1187	<i>Volvariella volvacea</i>	Agarico	Basidio	12	9	11	13	45	GCA_001691835.3	DOE Joint Genome Institute
1188	<i>Berkeleyomyces basicola</i>	Sordario	Asco	11	15	6	13	45	GCA_003671435.1	JGI
1189	<i>Jaapia argillacea</i>	Agarico	Basidio	14	9	8	14	45	GCA_000697665.1	Kunming University of Science and Technology
1190	<i>Fomitiporia mediterranea</i>	Agarico	Basidio	12	11	6	16	45	GCA_000271605.1	
1191	<i>Termitomyces sp. MG148</i>	Agarico	Basidio	13	10	9	13	45	GCA_003313785.1	

1192	<i>Simplicillium aogashimaense</i>	Sordario	Asco	11	12	9	12	44	GCA_012273805.1	AgResearch
1193	<i>Phialophora attinorum</i>	Eurotio	Asco	9	10	12	13	44	GCA_001299255.1	CBS-KNAW Fungal Biodiversity Centre
1194	<i>Cladosporiaceae sp. IMV 00236</i>	Dothideo	Asco	7	17	7	13	44	GCA_001931875.2	Jet Propulsion Laboratory, California Institute of Technology
1195	<i>Malbranchea cinnamomea</i>	Eurotio	Asco	10	16	9	9	44	GCA_900128795.2	CHALMERS UNIVERSITY OF TECHNOLOGY
1196	<i>Knoxdaviesia capensis</i>	Sordario	Asco	12	6	15	11	44	GCA_001510575.1	University of Stellenbosch
1197	<i>Eurotiomyces sp.</i>	Eurotio	Asco	9	18	7	10	44	GCA_002917005.1	Jill Banfield's Lab at Berkeley
1198	<i>Schizopora paradoxa</i>	Agarico	Basidio	13	9	8	14	44	GCA_001020605.1	DOE Joint Genome Institute
1199	<i>Sistotremastrum suecicum</i>	Agarico	Basidio	14	3	11	16	44	GCA_001632355.1	DOE Joint Genome Institute
1200	<i>Termitomyces sp. MG145</i>	Agarico	Basidio	11	8	11	14	44	GCA_003313055.1	Kunming University of Science and Technology
1201	<i>Termitomyces eurhizus</i>	Agarico	Basidio	13	8	9	14	44	GCA_003316525.1	Kunming University of Science and Technology
1202	<i>Purpureocillium lilacinum</i>	Sordario	Asco	9	13	10	11	43	GCA_001468795.1	The Energy and Resources Institute
1203	<i>Cyphellophora europaea</i>	Eurotio	Asco	9	10	12	12	43	GCA_000365145.2	Broad Institute
1204	<i>Saitozyma podzolica</i>	Tremello	Basidio	5	20	12	6	43	GCA_003942215.1	Karlsruhe Institute of Technology
1205	<i>Phialophora verrucosa</i>	Eurotio	Asco	8	11	13	11	43	GCA_002099365.1	Peking University First Hospital
1206	<i>Amorphotheca resiniae</i>	Leotio	Asco	7	18	8	10	43	GCA_001270345.1	East China University of Science and Technology
1207	<i>Phialophora americana</i>	Eurotio	Asco	9	8	15	11	43	GCA_000835435.1	Broad Institute
1208	<i>Knufia petricola</i>	Eurotio	Asco	9	17	7	10	43	GCA_002319055.1	University of Natural Resources and Life Sciences
1209	<i>Phlebia centrifuga</i>	Agarico	Basidio	13	6	7	17	43	GCA_001913855.2	CBS-KNAW Fungal Biodiversity Centre Institute of the Royal Netherlands Academy of Arts and Science
1210	<i>Coprinopsis strossmayeri</i>	Agarico	Basidio	11	6	13	13	43	GCA_900156845.1	UNIVERSITY OF BRISTOL
1211	<i>Davidsoniella australis</i>	Sordario	Asco	10	15	6	12	43	GCA_009806335.1	Forestry and Agricultural Biotechnology Institute
1212	<i>Davidsoniella neocaledoniae</i>	Sordario	Asco	10	16	5	12	43	GCA_009806295.1	Forestry and Agricultural Biotechnology Institute

1213	<i>Davidsoniella virescens</i>	Sordario	Asco	10	16	5	12	43	GCA_001513805.1	University of Pretoria, Forestry and Agricultural Biotechnology Institute
1214	<i>Davidsoniella eucalypti</i>	Sordario	Asco	10	15	5	13	43	GCA_004009845.1	Forestry and Agricultural Biotechnology Institute
1215	<i>Termitomyces sp. J132</i>	Agarico	Basidio	11	7	11	14	43	GCA_001263195.1	BGI
1216	<i>Collybia sp. MG36</i>	Agarico	Basidio	10	11	7	15	43	GCA_003313185.1	Kunming University of Science and Technology
1217	<i>Sanghuangporus baumii</i>	Agarico	Basidio	12	9	6	16	43	GCA_001481415.2	China University of Petroleum
1218	<i>Podosphaera xanthii</i>	Leotio	Asco	8	13	8	13	42	GCA_010015925.1	National Academy of Agricultural Science, Rural Development Adminstration
1219	<i>Epichloe uncinata</i>	Sordario	Asco	9	10	11	12	42	GCA_001043855.1	University of Kentucky
1220	<i>Claviceps fusiformis</i>	Sordario	Asco	8	13	12	9	42	GCA_000223055.1	University of Kentucky, Dept of Plant Pathology
1221	<i>Penicillium decumbens</i>	Eurotio	Asco	8	16	6	12	42	GCA_002072245.1	Chalmers University of Technology
1222	<i>Cladophialophora carrionii</i>	Eurotio	Asco	8	10	13	11	42	GCA_000365165.2	Broad Institute
1223	<i>Cladophialophora yegresii</i>	Eurotio	Asco	8	11	11	12	42	GCA_000585515.1	Broad Institute
1224	<i>Pluteus cervinus</i>	Agarico	Basidio	13	7	7	15	42	GCA_004369065.1	DOE Joint Genome Institute
1225	<i>Ceratocystis manginecans</i>	Sordario	Asco	10	15	6	11	42	GCA_006408425.1	University of Pretoria
1226	<i>Ceratocystis eucalypticola</i>	Sordario	Asco	10	15	6	11	42	GCA_001513815.1	University of pretoria
1227	<i>Ceratocystis cacaofunesta</i>	Sordario	Asco	10	15	6	11	42	GCA_002776505.1	University of Campinas
1228	<i>Ceratocystis platani</i>	Sordario	Asco	10	15	6	11	42	GCA_000978885.1	University of Neuchatel
1229	<i>Ceratocystis albifundus</i>	Sordario	Asco	10	15	6	11	42	GCA_002742255.2	University of Pretoria
1230	<i>Ceratocystis fimbriata</i>	Sordario	Asco	10	15	6	11	42	GCA_009914735.1	Universidade Federal de Vicosá
1231	<i>Ceratocystis harringtonii</i>	Sordario	Asco	10	15	6	11	42	GCA_002018265.1	Forestry and Agricultural Biotechnology Institute
1232	<i>Macrocystidia cucumis</i>	Agarico	Basidio	12	9	7	14	42	GCA_001179725.1	Royal Botanic Gardens, Kew
1233	<i>Rickenella mellea</i>	Agarico	Basidio	11	12	3	16	42	GCA_004355085.1	DOE Joint Genome Institute
1234	<i>Sistotremastrum niveocremeum</i>	Agarico	Basidio	14	3	10	15	42	GCA_001630475.1	DOE Joint Genome Institute
1235	<i>Clitocybe nebularis</i>	Agarico	Basidio	11	9	8	14	42	GCA_900068955.1	Royal Botanic Gardens, Kew
1236	<i>Lecanicillium psalliotae</i>	Sordario	Asco	10	12	8	11	41	GCA_002796755.1	Western Sydney University
1237	<i>Thermoascus crustaceus</i>	Eurotio	Asco	9	13	9	10	41	GCA_001599835.1	RIKEN Center for Life Science Technologies,

1238	<i>Geosmithia morbida</i>	Sordario	Asco	10	14	5	12	41	GCA_900108815.1	Division of Genomic Technologies UNIVERSITY OF NEW HAMPSHIRE
1239	<i>Leptographium procerum</i>	Sordario	Asco	10	18	2	11	41	GCA_000806385.1	University of Pretoria
1240	<i>Fomitopsis pinicola</i>	Agarico	Basidio	9	12	10	10	41	GCA_000344655.2	DOE Joint Genome Institute
1241	<i>Antrodiella citrinella</i>	Agarico	Basidio	12	7	10	12	41	GCA_004802725.1	IHI Zittau / TU Dresden
1242	<i>Daedalea quercina</i>	Agarico	Basidio	9	10	11	11	41	GCA_001632345.1	DOE Joint Genome Institute
1243	<i>Exophiala sp.</i>	Eurotio	Asco	8	13	8	12	41	GCA_004026505.1	Jill Banfield's Lab at Berkeley
1244	<i>Pholiota microspora</i>	Agarico	Basidio	10	9	10	12	41	GCA_003314615.1	Kunming University of Science and Technology
1245	<i>Pecoramyces ruminatium</i>	Neocallimastigo	Chytridio	10	15	16	0	41	GCA_000412615.1	Oklahoma State University
1246	<i>Chalaropsis thielavioides</i>	Sordario	Asco	10	14	5	12	41	GCA_001599435.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1247	<i>Lepiota venenata</i>	Agarico	Basidio	11	8	8	14	41	GCA_004296355.1	Kunming Institute of Botany
1248	<i>Aspergillus tanneri</i>	Eurotio	Asco	11	16	2	11	40	GCA_003426965.1	JCVI
1249	<i>Exophiala oligosperma</i>	Eurotio	Asco	8	10	11	11	40	GCA_000835515.1	Broad Institute
1250	<i>Claviceps paspali</i>	Sordario	Asco	7	12	11	10	40	GCA_013435705.1	INIA
1251	<i>Eremomyces bilateralis</i>	Dothideo	Asco	8	13	8	11	40	GCA_010015585.1	DOE Joint Genome Institute
1252	<i>Epichloe bromicola</i>	Sordario	Asco	8	11	10	11	40	GCA_002319005.1	University of Kentucky
1253	<i>Fomitopsis rosea</i>	Agarico	Basidio	10	9	9	12	40	GCA_004679265.1	IHI Zittau / TU Dresden
1254	<i>Byssochlamys spectabilis</i>	Eurotio	Asco	6	16	7	11	40	GCA_003990805.1	Kweichow moutai Co.,Ltd.
1255	<i>Neolentinus lepideus</i>	Agarico	Basidio	9	11	9	11	40	GCA_001632425.1	DOE Joint Genome Institute
1256	<i>Neocallimastix californiae</i>	Neocallimastigo	Chytridio	10	15	15	0	40	GCA_002104975.1	DOE Joint Genome Institute
1257	<i>Termitomyces heimii</i>	Agarico	Basidio	13	6	7	14	40	GCA_003313675.1	Kunming University of Science and Technology
1258	<i>Laetiporus sulphureus</i>	Agarico	Basidio	10	11	9	10	40	GCA_001632365.1	DOE Joint Genome Institute
1259	<i>Fibroporia radiculosa</i>	Agarico	Basidio	10	10	8	12	40	GCA_000313525.1	Forest Products, Mississippi State University
1260	<i>Phellinidium pouzarii</i>	Agarico	Basidio	12	7	6	15	40	GCA_004802695.1	IHI Zittau / TU Dresden
1261	<i>Exophiala aquamarina</i>	Eurotio	Asco	9	9	8	13	39	GCA_000709125.1	Broad Institute

1262	<i>Lepidopterella palustris</i>	Dothideo	Asco	9	12	7	11	39	GCA_001692735.1	DOE Joint Genome Institute
1263	<i>Raffaelea sulphurea</i>	Sordario	Asco	10	15	3	11	39	GCA_002778055.1	University of Montana
1264	<i>Exophiala sideris</i>	Eurotio	Asco	7	13	9	10	39	GCA_000835395.1	Broad Institute
1265	<i>Claviceps arundinis</i>	Sordario	Asco	8	13	9	9	39	GCA_004016465.1	Agriculture and Agri-Food Canada
1266	<i>Claviceps spartinae</i>	Sordario	Asco	8	13	9	9	39	GCA_004016175.1	Agriculture and Agri-Food Canada
1267	<i>Epichloe aotearoae</i>	Sordario	Asco	8	10	11	10	39	GCA_000729855.1	University of Kentucky
1268	<i>Claviceps humidiphila</i>	Sordario	Asco	8	13	9	9	39	GCA_004016155.1	Agriculture and Agri-Food Canada
1269	<i>Grosmannia galeiformis</i>	Sordario	Asco	10	13	4	12	39	GCA_004028395.1	University of Pretoria
1270	<i>Atkinsonella hypoxylon</i>	Sordario	Asco	7	13	10	9	39	GCA_000729835.1	University of Kentucky
1271	<i>Claviceps cf. purpurea</i>	Sordario	Asco	8	13	9	9	39	GCA_004016475.1	Agriculture and Agri-Food Canada
1272	<i>Moesziomyces sp. F16C1</i>	Ustilagino	Basidio	6	15	10	8	39	GCA_003004725.1	Universidade de Sao Paulo
1273	<i>Endoconidiophora polonica</i>	Sordario	Asco	10	15	3	11	39	GCA_001856765.1	Forestry and Agricultural Biotechnology Institute
1274	<i>Endoconidiophora laricicola</i>	Sordario	Asco	10	15	3	11	39	GCA_001640655.1	Forestry and Agricultural Biotechnology Institute
1275	<i>Ceratocystis adiposa</i>	Sordario	Asco	9	13	6	11	39	GCA_001640685.1	Forestry and Agricultural Biotechnology Institute
1276	<i>Gymnopilus junonius</i>	Agarico	Basidio	11	3	10	15	39	GCA_900068935.1	Royal Botanic Gardens, Kew
1277	<i>Ceratocystis smalleyi</i>	Sordario	Asco	9	14	6	10	39	GCA_003449175.1	Forestry and Agricultural Biotechnology Institute
1278	<i>Moniliophthora perniciosa</i>	Agarico	Basidio	9	8	8	14	39	GCA_000183025.1	Universidade Estadual de Campinas (UNICAMP), Brazil
1279	<i>Omphalotus olearius</i>	Agarico	Basidio	12	7	4	16	39	GCA_000296255.1	University of Minnesota
1280	<i>Lentinula edodes</i>	Agarico	Basidio	11	10	3	15	39	GCA_001562095.1	Chungbuk National University
1281	<i>Calocybe gambosa</i>	Agarico	Basidio	8	7	11	13	39	GCA_900068965.1	Royal Botanic Gardens, Kew
1282	<i>Umbelopsis isabellina</i>	Umbelopsido	Mucoro	6	18	7	7	38	GCA_000697415.1	IGS
1283	<i>Symbiotaphrina buchneri</i>	Xylono	Asco	7	15	6	10	38	GCA_001599915.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1284	<i>fungal sp. No.11243</i>	0	0	9	14	5	10	38	GCA_000836255.1	Tsukuba Biotechnology Research Center, Astellas Pharma Inc.,

1285	<i>Calocera cornea</i>	Dacry	Basidio	7	11	11	9	38	GCA_001632435.1	DOE Joint Genome Institute
1286	<i>Epichloe brachyelytri</i>	Sordario	Asco	8	10	10	10	38	GCA_000222915.1	University of Kentucky, Dept of Plant Pathology
1287	<i>Epichloe festucae</i>	Sordario	Asco	8	10	10	10	38	GCA_002318955.1	University of Kentucky
1288	<i>Epichloe baconii</i>	Sordario	Asco	8	10	10	10	38	GCA_000729845.1	University of Kentucky
1289	<i>Epichloe elymi</i>	Sordario	Asco	8	10	10	10	38	GCA_002591845.1	Massey University
1290	<i>Claviceps purpurea</i>	Sordario	Asco	8	13	8	9	38	GCA_004016095.1	Agriculture and Agri-Food Canada
1291	<i>Aciculosporium take</i>	Sordario	Asco	8	11	8	11	38	GCA_000222935.2	University of Kentucky, Dept of Plant Pathology
1292	<i>Rhinocladiella mackenziei</i>	Eurotio	Asco	8	10	9	11	38	GCA_000835555.1	Broad Institute
1293	<i>Postia placenta</i>	Agarico	Basidio	10	10	8	10	38	GCA_002117355.1	DOE Joint Genome Institute
1294	<i>Moesziomyces sp. F5C1</i>	Ustilagino	Basidio	6	14	10	8	38	GCA_003004715.1	Universidade de Sao Paulo
1295	<i>Huntia omanensis</i>	Sordario	Asco	10	12	4	12	38	GCA_000833645.1	FABI
1296	<i>Megacollybia marginata</i>	Agarico	Basidio	10	7	7	14	38	GCA_003313965.1	Kunming University of Science and Technology
1297	<i>Sanghuangporus sanghuang</i>	Agarico	Basidio	12	6	6	14	38	GCA_009806525.1	Anhui Provincial Key Laboratory of Microbial Pest Control
1298	<i>Piromyces sp. E2</i>	Neocallimastigo	Chytridio	9	14	15	0	38	GCA_002157105.1	JGI
1299	<i>Infundibulicybe gibba</i>	Agarico	Basidio	12	8	4	14	38	GCA_900068925.1	Royal Botanic Gardens, Kew
1300	<i>Torrubiella hemipterigena</i>	Sordario	Asco	9	10	6	12	37	GCA_000825705.1	HKI JENA
1301	<i>Lecanicillium sp. MT-2017a</i>	Sordario	Asco	7	12	8	10	37	GCA_003056605.1	Northern Arizona University
1302	<i>Akanthomyces lecanii</i>	Sordario	Asco	9	10	6	12	37	GCA_001636795.1	Shanghai Institutes for Biological Sciences, CAS
1303	<i>Cladophialophora immunda</i>	Eurotio	Asco	6	9	12	10	37	GCA_000835495.1	Broad Institute
1304	<i>Epichloe sylvatica</i>	Sordario	Asco	8	10	9	10	37	GCA_001008265.1	University of Kentucky
1305	<i>Epichloe gansuensis</i>	Sordario	Asco	9	9	9	10	37	GCA_000222895.2	University of Kentucky, Dept of Plant Pathology
1306	<i>Exophiala dermatitidis</i>	Eurotio	Asco	8	8	10	11	37	GCA_010883545.1	Research Center for Medical Mycology - Peking University First Hospital
1307	<i>Sporothrix phasma</i>	Sordario	Asco	11	9	7	10	37	GCA_011037845.1	University of Pretoria
1308	<i>Epichloe typhina</i>	Sordario	Asco	8	10	9	10	37	GCA_000308955.1	University of Kentucky
1309	<i>Exophiala alcalophila</i>	Eurotio	Asco	8	7	10	12	37	GCA_001599775.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies

1310	<i>Epichloe sp. AL9924</i>	Sordario	Asco	8	10	9	10	37	GCA_000729825.1	University of Kentucky
1311	<i>Moesziomyces aphidis</i>	Ustilagino	Basidio	5	14	10	8	37	GCA_000517465.1	Fraunhofer IGB
1312	<i>Balansia obtecta</i>	Sordario	Asco	8	11	8	10	37	GCA_000709145.1	University of Kentucky
1313	<i>Fistulina hepatica</i>	Agarico	Basidio	10	9	4	14	37	GCA_000934395.1	DOE Joint Genome Institute
1314	<i>Huntiaella savannae</i>	Sordario	Asco	9	13	4	11	37	GCA_001483325.1	Forestry and Agricultural Biotechnology Institute
1315	<i>Wolfiporia cocos</i>	Agarico	Basidio	9	9	8	11	37	GCA_000344635.1	DOE Joint Genome Institute
1316	<i>Huntiaella decipiens</i>	Sordario	Asco	9	13	4	11	37	GCA_003032515.1	Forestry and Agricultural Biotechnology Institute
1317	<i>Huntiaella moniliformis</i>	Sordario	Asco	9	13	4	11	37	GCA_000712465.1	Forestry and Agricultural Biotechnology Institute
1318	<i>Cryomyces minteri</i>	Dothideo	Asco	7	9	7	13	36	GCA_005059845.1	University of California, Riverside
1319	<i>Epichloe inebrians</i>	Sordario	Asco	9	8	9	10	36	GCA_000309355.1	University of Kentucky
1320	<i>Atkinsonella texensis</i>	Sordario	Asco	7	12	8	9	36	GCA_001008035.1	University of Kentucky
1321	<i>Apiotrichum porosum</i>	Tremello	Basidio	6	15	6	9	36	GCA_003942205.1	Karlsruhe Institute of Technology
1322	<i>Basidioascus undulatus</i>	Geminibasidio	Basidio	8	12	4	12	36	GCA_000826855.1	University of Ottawa
1323	<i>Epichloe amarillans</i>	Sordario	Asco	7	10	10	9	36	GCA_000223075.2	University of Kentucky, Dept of Plant Pathology
1324	<i>Tuber brumale</i>	Pezizo	Asco	10	12	3	11	36	GCA_014065205.1	INRAE
1325	<i>Tuber umbilicatum</i>	Pezizo	Asco	10	12	2	12	36	GCA_003313605.1	Kunming University of Science and Technology
1326	<i>Moesziomyces antarcticus</i>	Ustilagino	Basidio	6	12	10	8	36	GCA_900322835.1	Technische Universitat Munchen - WZW
1327	<i>Ambrosiella xylebori</i>	Sordario	Asco	9	11	5	11	36	GCA_002778035.1	University of Montana
1328	<i>Huntiaella bhutanensis</i>	Sordario	Asco	9	12	4	11	36	GCA_002018275.1	Forestry and Agricultural Biotechnology Institute
1329	<i>Verruconis sp.</i>	Dothideo	Asco	9	11	5	11	36	GCA_004026245.1	Jill Banfield's Lab at Berkeley
1330	<i>Calocera viscosa</i>	Dacry	Basidio	7	10	9	9	35	GCA_001630345.1	DOE Joint Genome Institute
1331	<i>Tuber magnatum</i>	Pezizo	Asco	10	10	4	11	35	GCA_003182015.1	INRA
1332	<i>Sporisorium reilianum</i>	Ustilagino	Basidio	7	11	9	8	35	GCA_900162835.1	Technische Universitat Munchen - WZW
1333	<i>Agaricus bisporus</i>	Agarico	Basidio	11	2	7	15	35	GCA_008271545.1	Jilin Agricultural University
1334	<i>Pterula multifida</i>	Agarico	Basidio	11	6	4	14	35	GCA_900068985.1	Royal Botanic Gardens, Kew
1335	<i>Tolyposcladium sp. Sup5 PDA-1</i>	Sordario	Asco	9	9	6	10	34	GCA_000750105.3	OMRF
1336	<i>Ustilaginoidea virens</i>	Sordario	Asco	8	10	5	11	34	GCA_000965225.2	Computational Biology Research Center (CBRC),

1337	<i>Fonsecaea multimorphosa</i>	Eurotio	Asco	6	8	11	9	34	GCA_000836435.1	National Institute of Advanced Industrial Science and Technology (AIST)
1338	<i>Exophiala phaeomuriformis</i>	Eurotio	Asco	7	8	9	10	34	GCA_010883475.1	Broad Institute
1339	<i>Exophiala spinifera</i>	Eurotio	Asco	8	6	9	11	34	GCA_010882955.1	Research Center for Medical Mycology - Peking University First Hospital
1340	<i>Eurotiomyces sp. MA 6038</i>	Eurotio	Asco	8	9	5	12	34	GCA_003004525.2	Research Center for Medical Mycology - Peking University First Hospital
1341	<i>Pseudozyma hubeiensis</i>	Ustilagino	Basidio	6	12	8	8	34	GCA_000403515.1	University of Natural Resources and Life Sciences, Vienna
1342	<i>Pseudozyma tsukubaensis</i>	Ustilagino	Basidio	5	14	7	8	34	GCA_001736125.1	Kitami Institute of Technology
1343	<i>Tuber indicum</i>	Pezizo	Asco	10	11	3	10	34	GCA_006112555.1	RWTH Aachen University
1344	<i>Dacryopinax primogenitus</i>	Dacry	Basidio	7	8	10	9	34	GCA_000292625.1	College of Pharmacy and Biological Engineering
1345	<i>Tuber melanosporum</i>	Pezizo	Asco	10	10	3	11	34	GCA_000151645.1	DOE Joint Genome Institute
1346	<i>Boletus edulis</i>	Agarico	Basidio	11	5	5	13	34	GCA_003316165.1	The French-Italian Tuber Genome Consortium
1347	<i>Drechlerella stenobrocha</i>	Orbilio	Asco	10	8	7	9	34	GCA_000525045.1	Kunming University of Science and Technology
1348	<i>Lecanicillium fungicola</i>	Sordario	Asco	8	9	5	11	33	GCA_900169235.1	Institute of Microbiology, Chinese Academy of Sciences
1349	<i>Metarhizium robertsii</i>	Sordario	Asco	10	5	6	12	33	GCA_000187425.2	UNIVERSITY OF BRISTOL
1350	<i>Microcyclospora tardicrescens</i>	Dothideo	Asco	7	10	8	8	33	GCA_003012245.1	Metarhizium genome sequencing Consortium
1351	<i>Coniosporium apollinis</i>	Dothideo	Asco	8	8	4	13	33	GCA_000281105.1	USDA, ARS, NCAUR
1352	<i>Ramichloridium luteum</i>	Dothideo	Asco	6	7	8	12	33	GCA_002368545.1	Broad Institute
1353	<i>Tuber microsphaerosporum</i>	Pezizo	Asco	9	12	2	10	33	GCA_003521225.1	Northwest A&F University
1354	<i>Fonsecaea pugnacius</i>	Eurotio	Asco	6	7	10	10	33	GCA_011800825.1	Kunming University of Science and Technology
1355	<i>Apiotrichum laibachii</i>	Tremello	Basidio	6	11	7	9	33	GCA_001600735.1	FEDERAL UNIVERSITY OF PARANA

National Institute of Advanced Industrial Science and Technology (AIST)

Broad Institute

Research Center for Medical Mycology - Peking University First Hospital

Research Center for Medical Mycology - Peking University First Hospital

University of Natural Resources and Life Sciences, Vienna

Kitami Institute of Technology

RWTH Aachen University

College of Pharmacy and Biological Engineering

DOE Joint Genome Institute

The French-Italian Tuber Genome Consortium

Kunming University of Science and Technology

Institute of Microbiology, Chinese Academy of Sciences

UNIVERSITY OF BRISTOL

Metarhizium genome sequencing Consortium

USDA, ARS, NCAUR

Broad Institute

Northwest A&F University

Kunming University of Science and Technology

FEDERAL UNIVERSITY OF PARANA

RIKEN Center for Life Science Technologies,

1356	<i>Apiotrichum veenhuisii</i>	Tremello	Basidio	7	12	6	8	33	GCA_001600595.1	Division of Genomic Technologies RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1357	<i>Fonsecaea erecta</i>	Eurotio	Asco	6	8	10	9	33	GCA_001651985.1	Federal University of Parana
1358	<i>Eurotiomyces sp. MA 6039</i>	Eurotio	Asco	8	10	4	11	33	GCA_003004485.1	University of Natural Resources and Life Sciences, Vienna
1359	<i>Pseudozyma sp. F8B2</i>	Ustilagino	Basidio	5	12	8	8	33	GCA_003004685.1	Universidade de Sao Paulo
1360	<i>Papiliotrema flavescens</i>	Tremello	Basidio	7	10	6	10	33	GCA_000442785.1	OSU/OARDC
1361	<i>Ustilago cynodontis</i>	Ustilagino	Basidio	6	11	7	9	33	GCA_001736195.1	RWTH Aachen University
1362	<i>Sparassis latifolia</i>	Agarico	Basidio	10	5	6	12	33	GCA_009812315.1	Chosun University
1363	<i>Chiuia virens</i>	Agarico	Basidio	11	6	5	11	33	GCA_003316485.1	Kunming University of Science and Technology
1364	<i>Dioszegia aurantiaca</i>	Tremello	Basidio	6	13	7	7	33	GCA_001600655.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1365	<i>Coprinus comatus</i>	Agarico	Basidio	11	3	6	13	33	GCA_003316025.1	Kunming University of Science and Technology
1366	<i>Paecilomyces hepiali</i>	Sordario	Asco	7	8	6	11	32	GCA_001455915.2	Beijing Normal University
1367	<i>Metarhizium guizhouense</i>	Sordario	Asco	9	5	6	12	32	GCA_000814955.1	Shanghai Insitutes for Biological Sciences, CAS
1368	<i>Cladophialophora psammophila</i>	Eurotio	Asco	6	7	9	10	32	GCA_000585535.1	Broad Institute
1369	<i>Pascua guehoae</i>	Tremello	Basidio	7	10	7	8	32	GCA_001600415.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1370	<i>Cryomyces antarcticus</i>	Dothideo	Asco	7	7	5	13	32	GCA_000504465.1	VIBT Extremophile Center, University of Natural Resources and Life Sciences Vienna, Austria
1371	<i>Cutaneotrichosporon mucoides</i>	Tremello	Basidio	5	11	8	8	32	GCA_003116955.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1372	<i>Apiotrichum gamsii</i>	Tremello	Basidio	6	12	7	7	32	GCA_001600315.1	RIKEN Center for Life Science Technologies,

1373	<i>Anthracoystis flocculosa</i>	Ustilagino	Basidio	6	14	5	7	32	GCA_900322975.1	Division of Genomic Technologies Technische Universitat Munchen - WZW
1374	<i>Sporisorium graminicola</i>	Ustilagino	Basidio	4	13	8	7	32	GCA_005498985.1	University of Liverpool, Institute of Integrative Biology
1375	<i>Kalmanozyma brasiliensis</i>	Ustilagino	Basidio	5	11	7	9	32	GCA_000497045.1	Laboratorio Nacional de Ciencia e Tecnologia do Bioetanol
1376	<i>Ustilago tritici</i>	Ustilagino	Basidio	6	11	7	8	32	GCA_002993085.1	University of Sao Paulo Department of Pediatric Cardiology, Tokyo Women's Medical University
1377	<i>Sparassis crispa</i>	Agarico	Basidio	9	6	6	11	32	GCA_003851025.1	RWTH Aachen University
1378	<i>Ustilago xerochloae</i>	Ustilagino	Basidio	5	10	8	9	32	GCA_001736075.1	DOE Joint Genome Institute
1379	<i>Ascodesmis nigricans</i>	Pezizo	Asco	11	6	4	11	32	GCA_004786065.1	Kunming University of Science and Technology
1380	<i>Suillus pictus</i>	Agarico	Basidio	10	3	6	13	32	GCA_003313085.1	Royal Botanic Gardens, Kew
1381	<i>Megacollybia platyphylla</i>	Agarico	Basidio	10	4	7	11	32	GCA_900068915.1	University of California, Riverside
1382	<i>Bifiguratus adelaidae</i>	Endogono	Mucoro	7	11	6	7	31	GCA_002261195.1	Chonbuk National University
1383	<i>Metarhizium anisopliae</i>	Sordario	Asco	9	4	6	12	31	GCA_013305495.1	CSIR- Institute of Microbial technology (IMTECH)
1384	<i>Cordyceps farinosa</i>	Sordario	Asco	7	7	6	11	31	GCA_000733625.1	Shanghai Insititutes for Biological Sciences, CAS
1385	<i>Metarhizium majus</i>	Sordario	Asco	9	5	5	12	31	GCA_000814945.1	Shanghai Insititutes for Biological Sciences, CAS
1386	<i>Metarhizium brunneum</i>	Sordario	Asco	9	4	6	12	31	GCA_000814965.1	CSIR- Institute of Microbial technology (IMTECH)
1387	<i>Beauveria rudraprayagi</i>	Sordario	Asco	9	5	4	13	31	GCA_000733645.1	Broad Institute
1388	<i>Cladophialophora bantiana</i>	Eurotio	Asco	6	6	9	10	31	GCA_000835475.1	PROIMI - CONICET
1389	<i>Apiotrichum akiyoshidainum</i>	Tremello	Basidio	7	10	6	8	31	GCA_002973495.1	University of Pretoria
1390	<i>Ceratocystiopsis minuta</i>	Sordario	Asco	7	11	3	10	31	GCA_001676865.1	DOE Joint Genome Institute
1391	<i>Polychaeton citri</i>	Dothideo	Asco	6	10	5	10	31	GCA_010093785.1	Beijing Technology and Business University
1392	<i>Monascus purpureus</i>	Eurotio	Asco	7	10	4	10	31	GCA_011319195.1	

1393	<i>Tuber borchii</i>	Pezizo	Asco	9	10	2	10	31	GCA_003070745.1	DOE Joint Genome Institute
1394	<i>Capronia coronata</i>	Eurotio	Asco	8	5	6	12	31	GCA_000585585.1	Broad Institute RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1395	<i>Cutaneotrichosporon daszewskae</i>	Tremello	Basidio	5	10	8	8	31	GCA_002335585.1	RWTH Aachen University
1396	<i>Sporisorium iseilematis-ciliati</i>	Ustilagino	Basidio	4	11	8	8	31	GCA_001748505.1	DOE Joint Genome Institute
1397	<i>Violaceomyces palustris</i>	Ustilagino	Basidio	6	11	4	10	31	GCA_003144235.1	DOE Joint Genome Institute
1398	<i>Kockovaella imperatae</i>	Tremello	Basidio	6	10	8	7	31	GCA_002102565.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1399	<i>Takashimella koratensis</i>	Tremello	Basidio	5	12	8	6	31	GCA_003116875.1	University of Oslo
1400	<i>Serpula lacrymans</i>	Agarico	Basidio	10	6	5	10	31	GCA_002891385.1	DOE Joint Genome Institute
1401	<i>Gonapodya prolifera</i>	Monoblepharido	Chytridio	6	15	1	9	31	GCA_001574975.1	Kunming University of Science and Technology Agriculture and Agri-Food Canada
1402	<i>Xerocomus impolitus</i>	Agarico	Basidio	10	5	4	12	31	GCA_003316335.1	DOE Joint Genome Institute
1403	<i>Powellomyces hirtus</i>	Chytridio	Chytridio	10	10	1	10	31	GCA_006536005.1	The Institute of Vegetables and Flowers CAAS
1404	<i>Piromyces finnis</i>	Neocallimastigo	Chytridio	9	12	10	0	31	GCA_002104945.1	Jet Propulsion Laboratory, California Institute of Technology National Institute of Horticultural and Herbal Science, Rural Development Administration
1405	<i>Cordyceps javanica</i>	Sordario	Asco	7	7	5	11	30	GCA_006981985.1	INPART
1406	<i>Beauveria sp. IMV 00265</i>	Sordario	Asco	9	7	3	11	30	GCA_001931865.2	University of Minnesota Shanghai Institutes for Biological Sciences, CAS
1407	<i>Beauveria pseudobassiana</i>	Sordario	Asco	9	6	3	12	30	GCA_003267905.1	DOE Joint Genome Institute
1408	<i>Tolypocladium sp. Salcha MEA-2</i>	Sordario	Asco	7	7	6	10	30	GCA_000750145.2	UCIBIO-REQUIMTE, Faculdade de Ciencias e
1409	<i>Tolypocladium inflatum</i>	Sordario	Asco	7	7	6	10	30	GCA_003945705.1	
1410	<i>Beauveria brongniartii</i>	Sordario	Asco	9	7	3	11	30	GCA_001636735.1	
1411	<i>Acaromyces ingoldii</i>	Exobasidio	Basidio	4	13	4	9	30	GCA_003144295.1	
1412	<i>Leucosporidium scottii</i>	Microbotryo	Basidio	6	10	4	10	30	GCA_003054985.1	

1413	<i>Albatrellus ellisii</i>	Agarico	Basidio	10	5	4	11	30	GCA_003314395.1	Tecnologia, Universidade Nova da Lisboa
1414	<i>Ustilago bromivora</i>	Ustilagino	Basidio	4	10	8	8	30	GCA_900101485.1	Kunming University of Science and Technology
1415	<i>Amanita thiersii</i>	Agarico	Basidio	9	5	4	12	30	GCA_002554575.1	Institute of Bioinformatics and Systems Biology
1416	<i>Leucoagaricus gongylophorus</i>	Agarico	Basidio	9	2	7	12	30	GCA_000382605.1	JGI
1417	<i>Cordyceps pruinosa</i>	Sordario	Asco	7	7	4	11	29	GCA_003025255.1	UW-Madison
1418	<i>Paecilomyces penicillatus</i>	Sordario	Asco	9	8	4	8	29	GCA_005765155.1	National Institute of Horticultural and Herbal Science, Rural Development Administration
1419	<i>Beauveria bassiana</i>	Sordario	Asco	9	5	3	12	29	GCA_003337105.1	Biotechnology and Nuclear Technology Research Institute
1420	<i>Fonsecaea pedrosoi</i>	Eurotio	Asco	5	6	10	8	29	GCA_000835455.1	Biotechnology Institute- National University of Colombia- Bogota
1421	<i>Apiotrichum mycotoxinovorans</i>	Tremello	Basidio	7	8	6	8	29	GCA_013177335.1	Broad Institute
1422	<i>Escovopsis sp. TC</i>	Sordario	Asco	8	6	7	8	29	GCA_003055185.1	Nanjing TECH University
1423	<i>Herpotrichiellaceae sp. UM238</i>	Eurotio	Asco	9	6	1	13	29	GCA_000315175.1	University of East Anglia
1424	<i>Fonsecaea nubica</i>	Eurotio	Asco	5	7	9	8	29	GCA_001646965.1	UNIVERSITY OF MALAYA
1425	<i>Cutaneotrichosporon dermatis</i>	Tremello	Basidio	5	10	7	7	29	GCA_003116895.1	Federal University of Parana
1426	<i>Exophiala mesophila</i>	Eurotio	Asco	9	4	5	11	29	GCA_000836275.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1427	<i>Peltaster fructicola</i>	Dothideo	Asco	4	11	6	8	29	GCA_001592805.2	Broad Institute
1428	<i>Gyalolechia flavorubescens</i>	Lecanoro	Asco	8	6	5	10	29	GCA_000442125.1	Northwest A&F University
1429	<i>Dioszegia crocea</i>	Tremello	Basidio	5	10	9	5	29	GCA_001600615.1	Seoul National University
1430	<i>Arthrocladium fulminans</i>	Eurotio	Asco	8	8	4	9	29	GCA_003614865.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1431	<i>Terfezia boudieri</i>	Pezizo	Asco	8	9	3	9	29	GCA_003788615.2	Westerdijk Fungal Biodiversity Institute
1432	<i>Paxillus involutus</i>	Agarico	Basidio	8	5	4	12	29	GCA_000827475.1	DOE Joint Genome Institute

1433	<i>Solicozozyma phenolica</i>	Tremello	Basidio	5	11	6	7	29	GCA_001600015.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1434	<i>Boletus sp. MG55</i>	Agarico	Basidio	9	5	4	11	29	GCA_003313885.1	Kunming University of Science and Technology
1435	<i>Retiboletus ornatipes</i>	Agarico	Basidio	8	3	6	12	29	GCA_003316065.1	Kunming University of Science and Technology
1436	<i>Tolypocladium paradoxum</i>	Sordario	Asco	8	5	5	10	28	GCA_002916505.1	Oregon State University
1437	<i>Fonsecaea monophora</i>	Eurotio	Asco	5	6	9	8	28	GCA_001642475.1	Federal University of Parana
1438	<i>Monascus ruber</i>	Eurotio	Asco	6	10	3	9	28	GCA_002976275.1	Fujian Institute of Microbiology
1439	<i>Bullera alba</i>	Tremello	Basidio	4	10	8	6	28	GCA_001600095.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1440	<i>Sporisorium scitamineum</i>	Ustilagino	Basidio	4	11	6	7	28	GCA_000772675.1	Key Lab of Sugarcane Biology and Genetic Breeding, Ministry of Agriculture, P.R.China
1441	<i>Kwoniella heveanensis</i>	Tremello	Basidio	6	9	5	8	28	GCA_000507405.3	Broad Institute
1442	<i>Albatrellus sp. MG142</i>	Agarico	Basidio	8	2	5	13	28	GCA_003314695.1	Kunming University of Science and Technology
1443	<i>Suillus alpinus</i>	Agarico	Basidio	8	4	5	11	28	GCA_003316505.1	Kunming University of Science and Technology
1444	<i>Suillellus subvelutipes</i>	Agarico	Basidio	9	2	3	14	28	GCA_003316035.1	Kunming University of Science and Technology
1445	<i>Ustilago hordei</i>	Ustilagino	Basidio	4	9	8	7	28	GCA_003012045.1	Jawaharlal Nehru Centre for Advanced Scientific Research
1446	<i>Neoboletus brunneissimus</i>	Agarico	Basidio	9	3	4	12	28	GCA_003316195.1	Kunming University of Science and Technology
1447	<i>Hypomyces rosellus</i>	Sordario	Asco	7	4	8	8	27	GCA_011799845.1	Jilin Agricultural University
1448	<i>Metarhizium acridum</i>	Sordario	Asco	7	5	3	12	27	GCA_000187405.1	Metarhizium genome sequencing Consortium
1449	<i>Tolypocladium ophioglossoides</i>	Sordario	Asco	7	6	5	9	27	GCA_001189435.1	Oregon State University
1450	<i>Microcycluspora pomicola</i>	Dothideo	Asco	6	6	8	7	27	GCA_002786065.1	Northwest A&F University
1451	<i>Usnea hakonensis</i>	Lecanoro	Asco	9	5	1	12	27	GCA_013423325.1	Swedish Museum of Natural History
1452	<i>Gongronella sp. w5</i>	Mucoro	Mucoro	4	10	5	8	27	GCA_001650995.1	Anhui University
1453	<i>Cladonia uncialis</i>	Lecanoro	Asco	8	4	3	12	27	GCA_002927785.1	University of Manitoba

1454	<i>Tuber calosporum</i>	Pezizo	Asco	8	8	1	10	27	GCA_003316355.1	Kunming University of Science and Technology
1455	<i>Ustilago trichophora</i>	Ustilagino	Basidio	4	11	4	8	27	GCA_900323505.1	Technische Universitat Munchen - WZW
1456	<i>Taiwanofungus camphoratus</i>	Agarico	Basidio	9	3	6	9	27	GCA_000766995.1	Academia Sinica
1457	<i>Naganishia sp. IF7SW-B1</i>	Tremello	Basidio	5	9	6	7	27	GCA_012922685.1	Jet Propulsion Laboratory, California Institute of Technology
1458	<i>Naganishia adeliensis</i>	Tremello	Basidio	5	9	6	7	27	GCA_012922715.1	Jet Propulsion Laboratory, California Institute of Technology
1459	<i>Tylophilus plumbeoviolaceoides</i>	Agarico	Basidio	8	2	5	12	27	GCA_003316375.1	Kunming University of Science and Technology
1460	<i>Rhizopogon vesiculosus</i>	Agarico	Basidio	8	3	5	11	27	GCA_001882365.1	University of Florida
1461	<i>Auricularia polytricha</i>	Agarico	Basidio	8	2	5	12	27	GCA_003316125.1	Kunming University of Science and Technology
1462	<i>Papiliotrema laurentii</i>	Tremello	Basidio	5	9	6	7	27	GCA_012922615.1	Jet Propulsion Laboratory, California Institute of Technology
1463	<i>Rhizopogon sp. AM-2018a</i>	Agarico	Basidio	8	4	5	10	27	GCA_002995095.1	Oregon State University
1464	<i>Suillus sp. MG131</i>	Agarico	Basidio	8	5	5	9	27	GCA_003313855.1	Kunming University of Science and Technology
1465	<i>Butyriboletus roseoflavus</i>	Agarico	Basidio	8	3	4	12	27	GCA_003315995.1	Kunming University of Science and Technology
1466	<i>Boletus speciosus</i>	Agarico	Basidio	8	3	5	11	27	GCA_003316055.1	Kunming University of Science and Technology
1467	<i>Floccularia luteovirens</i>	Agarico	Basidio	9	3	5	10	27	GCA_009739215.1	Zhejiang University
1468	<i>Hypomyces perniciosus</i>	Sordario	Asco	7	5	6	8	26	GCA_008477525.1	Jilin Agricultural University
1469	<i>Albophoma yamanashiensis</i>	Sordario	Asco	7	6	3	10	26	GCA_001600555.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1470	<i>Cordyceps cicadae</i>	Sordario	Asco	6	5	5	10	26	GCA_010211705.1	Anhui Agricultural University
1471	<i>Metarhizium rileyi</i>	Sordario	Asco	7	5	3	11	26	GCA_007866325.1	Embrapa
1472	<i>Metarhizium album</i>	Sordario	Asco	7	5	4	10	26	GCA_000804445.1	Shanghai Institutes for Biological Sciences, CAS
1473	<i>Hirsutella thompsonii</i>	Sordario	Asco	7	3	3	13	26	GCA_000472145.1	Institute of Microbial Technology
1474	<i>Hirsutella minnesotensis</i>	Sordario	Asco	8	3	3	12	26	GCA_000956045.1	Institute of Microbiology, Chinese Academy of Sciences
1475	<i>Ceratocystiopsis brevicomis</i>	Sordario	Asco	5	9	2	10	26	GCA_002778105.1	University of Montana

1476	<i>Capronia epimyces</i>	Eurotio	Asco	7	4	4	11	26	GCA_000585565.1	Broad Institute
1477	<i>Thermomyces lanuginosus</i>	Eurotio	Asco	8	3	3	12	26	GCA_000315935.1	Durban University of Technology
1478	<i>Ascospaera apis</i>	Eurotio	Asco	2	16	2	6	26	GCA_001636715.1	Shanghai Institutes for Biological Sciences, CAS
1479	<i>Ustilago maydis</i>	Ustilagino	Basidio	5	6	6	9	26	GCA_001599495.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1480	<i>Ustilago vetiveriae</i>	Ustilagino	Basidio	4	9	7	6	26	GCA_001735935.1	RWTH Aachen University
1481	<i>Cryptococcus amyloletus</i>	Tremello	Basidio	4	10	5	7	26	GCA_001720205.1	Broad Institute
1482	<i>Cryptococcus floricola</i>	Tremello	Basidio	4	10	5	7	26	GCA_006352305.1	Duke University
1483	<i>Cryptococcus wingfieldii</i>	Tremello	Basidio	4	10	5	7	26	GCA_001720155.1	Broad Institute
1484	<i>Kwoniella shandongensis</i>	Tremello	Basidio	5	9	4	8	26	GCA_008629635.1	Broad Institute
1485	<i>Rhizopogon vinicolor</i>	Agarico	Basidio	8	2	5	11	26	GCA_001658105.1	DOE Joint Genome Institute
1486	<i>Boletus sp. MG95</i>	Agarico	Basidio	7	5	3	11	26	GCA_003313155.1	Kunming University of Science and Technology
1487	<i>Rhizopogon hawkeriae</i>	Agarico	Basidio	8	4	4	10	26	GCA_002995035.1	Oregon State University
1488	<i>Kwoniella bestiolae</i>	Tremello	Basidio	5	9	4	8	26	GCA_000512585.2	Broad Institute
1489	<i>Tricholoma matsutake</i>	Agarico	Basidio	11	2	2	11	26	GCA_002939025.2	Korea University
1490	<i>Cladobotryum protrusum</i>	Sordario	Asco	7	3	7	8	25	GCA_004303015.1	Jilin Agricultural University
1491	<i>Cordyceps tenuipes</i>	Sordario	Asco	6	5	4	10	25	GCA_003025305.1	National Institute of Horticultural and Herbal Science, Rural Development Administration
1492	<i>Hirsutella rhossiliensis</i>	Sordario	Asco	6	4	4	11	25	GCA_004142005.1	Chinese Academy of Sciences
1493	<i>Cordyceps sp. RAO-2017</i>	Sordario	Asco	8	3	3	11	25	GCA_002591385.1	Utrecht University
1494	<i>Trichosporon ovoides</i>	Tremello	Basidio	6	4	5	10	25	GCA_009833065.1	Heilongjiang baiy agricultural university
1495	<i>Escovopsis weberi</i>	Sordario	Asco	7	4	6	8	25	GCA_003055145.1	University of East Anglia
1496	<i>Rusavskia elegans</i>	Lecanoro	Asco	8	5	2	10	25	GCA_011316305.1	Yunnan Academy of Forestry
1497	<i>Evernia prunastri</i>	Lecanoro	Asco	8	4	2	11	25	GCA_003184365.1	Senckenberg
1498	<i>Prillingera fragicola</i>	Tremello	Basidio	5	6	6	8	25	GCA_002335605.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1499	<i>Letharia columbiana</i>	Lecanoro	Asco	8	4	3	10	25	GCA_014066305.1	Eastern Washington University
1500	<i>Emmonsia crescens</i>	Eurotio	Asco	6	5	4	10	25	GCA_002572855.1	Broad Institute

1501	<i>Naganishia liquefaciens</i>	Tremello	Basidio	5	9	4	7	25	GCA_013423385.1	School of Life Science and Technology, Tokyo Institute of Technology
1502	<i>Boletus bicolor</i>	Agarico	Basidio	8	2	5	10	25	GCA_003316205.1	Kunming University of Science and Technology
1503	<i>Rhizopogon parksii</i>	Agarico	Basidio	8	4	3	10	25	GCA_002994865.1	Oregon State University
1504	<i>Zoopogon insidians</i>	Zoopago	Zoopago	1	17	2	5	25	GCA_004114325.1	University of Michigan
1505	<i>Rhizopogon rudus</i>	Agarico	Basidio	8	4	3	10	25	GCA_002995055.1	Oregon State University
1506	<i>Caloboletus calopus</i>	Agarico	Basidio	9	2	3	11	25	GCA_003316085.1	Kunming University of Science and Technology
1507	<i>Ramaria sp. MG151</i>	Agarico	Basidio	9	2	2	12	25	GCA_003314545.1	Kunming University of Science and Technology
1508	<i>Cordyceps fumosorosea</i>	Sordario	Asco	6	4	4	10	24	GCA_001636725.1	Shanghai Institutes for Biological Sciences, CAS
1509	<i>Cordyceps militaris</i>	Sordario	Asco	7	4	3	10	24	GCA_003332165.1	pangugene RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1510	<i>Trichosporon coremiiforme</i>	Tremello	Basidio	6	4	3	11	24	GCA_001752605.1	Division of Genomic Technologies
1511	<i>Dirinaria sp. GBRC AP01</i>	Lecanoro	Asco	8	3	2	11	24	GCA_013315955.1	Gujarat Biotechnology Research Centre
1512	<i>Leptoxyphium fumago</i>	Dothideo	Asco	6	5	4	9	24	GCA_001660795.1	International Institute Zittau - TU Dresden
1513	<i>Pseudevernia furfuracea</i>	Lecanoro	Asco	7	3	3	11	24	GCA_003184345.1	Senckenberg
1514	<i>Cutaneotrichosporon cutaneum</i>	Tremello	Basidio	5	5	6	8	24	GCA_001600715.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1515	<i>Ophiocordyceps australis</i>	Sordario	Asco	7	4	3	10	24	GCA_002591415.1	Utrecht University
1516	<i>Thecaphora thlaspeos</i>	Ustilagino	Basidio	6	10	1	7	24	GCA_900260175.1	RWTH Aachen University
1517	<i>Cladonia metacorallifera</i>	Lecanoro	Asco	7	5	3	9	24	GCA_000482085.2	Seoul National University
1518	<i>Moniliella sp. 'wahieum'</i>	Moniliello	Basidio	4	9	0	11	24	GCA_003971905.1	Kyungpook National University
1519	<i>Suillus luteus</i>	Agarico	Basidio	7	3	5	9	24	GCA_000827255.1	DOE Joint Genome Institute
1520	<i>Tricholoma saponaceum</i>	Agarico	Basidio	9	2	2	11	24	GCA_003313625.1	Kunming University of Science and Technology
1521	<i>Rhizopogon salebrosus</i>	Agarico	Basidio	9	2	2	11	24	GCA_002995475.1	Oregon State University
1522	<i>Naematelia encephala</i>	Tremello	Basidio	4	8	5	7	24	GCA_002105065.1	DOE Joint Genome Institute
1523	<i>Entoloma clypeatum</i>	Agarico	Basidio	9	4	1	10	24	GCA_900068945.1	Royal Botanic Gardens, Kew
1524	<i>Tricholoma terreum</i>	Agarico	Basidio	8	3	2	11	24	GCA_003316345.1	Kunming University of Science and Technology

1525	<i>Escovopsis sp. AC</i>	Sordario	Asco	7	4	4	8	23	GCA_003055955.1	University of East Anglia
1526	<i>Blastomyces emzantsi</i>	Eurotio	Asco	6	4	4	9	23	GCA_003206725.1	National Institute for Communicable Diseases
1527	<i>Trichosporon asahii</i>	Tremello	Basidio	6	4	3	10	23	GCA_001972365.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1528	<i>Apiotrichum gracile</i>	Tremello	Basidio	7	4	4	8	23	GCA_001600335.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1529	<i>Tolyocladium capitatum</i>	Sordario	Asco	6	4	4	9	23	GCA_002901185.1	Oregon State University
1530	<i>Trichosporon faecale</i>	Tremello	Basidio	6	4	3	10	23	GCA_001752585.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1531	<i>Endocarpon pusillum</i>	Eurotio	Asco	7	3	1	12	23	GCA_000611755.1	Seoul National University
1532	<i>Elaphomyces granulatus</i>	Eurotio	Asco	6	4	3	10	23	GCA_002240705.1	Oregon State University
1533	<i>Letharia lupina</i>	Lecanoro	Asco	8	3	2	10	23	GCA_014066315.1	Eastern Washington University
1534	<i>Jimgerdemannia lactiflua</i>	Endogono	Mucoro	6	6	2	9	23	GCA_003951145.1	Oregon State University
1535	<i>Cladonia rangiferina</i>	Lecanoro	Asco	7	4	2	10	23	GCA_006146055.1	Lake Superior State University
1536	<i>Chaetothyriales sp. CBS 134920</i>	Eurotio	Asco	8	3	2	10	23	GCA_003693665.1	Westerdijk Fungal Biodiversity Institute
1537	<i>Cutaneotrichosporon oleaginosum</i>	Tremello	Basidio	5	5	5	8	23	GCA_008065305.1	Ruhr-University Bochum
1538	<i>Ramalina peruviana</i>	Lecanoro	Asco	7	4	2	10	23	GCA_001956345.1	Yunnan Academy of Forestry
1539	<i>Lichtheimia ramosa</i>	Mucoro	Mucoro	4	9	3	7	23	GCA_000945115.1	HKI JENA
1540	<i>Cutaneotrichosporon arboriformis</i>	Tremello	Basidio	5	4	4	10	23	GCA_002335565.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1541	<i>Naganishia randhawae</i>	Tremello	Basidio	5	7	3	8	23	GCA_013461525.1	Wits University
1542	<i>Rhizopogon vulgaris</i>	Agarico	Basidio	8	1	3	11	23	GCA_002995295.1	Oregon State University
1543	<i>Hebeloma cylindrosporium</i>	Agarico	Basidio	8	3	2	10	23	GCA_000827355.1	DOE Joint Genome Institute
1544	<i>Solicoccozyma terricola</i>	Tremello	Basidio	5	8	3	7	23	GCA_001600875.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1545	<i>Suillus brevipes</i>	Agarico	Basidio	7	3	4	9	23	GCA_011800875.1	DOE Joint Genome Institute

1546	<i>Synchytrium microbalum</i>	Chytridio	Chytridio	8	4	1	10	23	GCA_006535985.1	Agriculture and Agri-Food Canada
1547	<i>Rhizopogon villosulus</i>	Agarico	Basidio	7	2	4	10	23	GCA_002995315.1	Oregon State University
1548	<i>Escovopsis sp. Ae720</i>	Sordario	Asco	7	3	4	8	22	GCA_003055925.1	University of East Anglia
1549	<i>Escovopsis sp. Ae733</i>	Sordario	Asco	7	3	4	8	22	GCA_003055945.1	University of East Anglia
1550	<i>Escovopsis sp. Ae724</i>	Sordario	Asco	7	3	4	8	22	GCA_003055165.1	University of East Anglia
1551	<i>Moelleriella libera</i>	Sordario	Asco	5	4	4	9	22	GCA_001636675.1	Shanghai Institutes for Biological Sciences, CAS Institute of Microbiology, Chinese Academy of Sciences
1552	<i>Ophiocordyceps sinensis</i>	Sordario	Asco	6	2	2	12	22	GCA_002077885.1	DOE Joint Genome Institute
1553	<i>Neohortaea acidophila</i>	Dothideo	Asco	5	7	3	7	22	GCA_010093505.1	Seoul National University
1554	<i>Umbilicaria muehlenbergii</i>	Lecanoro	Asco	8	2	2	10	22	GCA_000611775.1	Fujian Agriculture and Forestry University
1555	<i>Tremella fuciformis</i>	Tremello	Basidio	5	3	7	7	22	GCA_000987905.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1556	<i>Leucosporidium creatinivorum</i>	Microbotryo	Basidio	5	7	2	8	22	GCA_001600635.1	University of Frankfurt
1557	<i>Lasallia pustulata</i>	Lecanoro	Asco	8	2	2	10	22	GCA_008636195.1	University of Melbourne
1558	<i>Syncephalastrum sp. IA-2019</i>	Mucoro	Mucoro	4	9	2	7	22	GCA_013461545.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1559	<i>Mrakia frigida</i>	Tremello	Basidio	4	9	3	6	22	GCA_001600395.1	Beijing Institute of Radiation Medicine
1560	<i>Emergomyces orientalis</i>	Eurotio	Asco	6	4	2	10	22	GCA_002110485.1	Nilaparvata lugens Genome Consortium
1561	<i>Nilaparvata lugens yeast-like symbiont</i>	0	Asco	6	3	3	10	22	GCA_000758425.1	Zhejiang Provincial Key Laboratory of Biometrology and Inspection & Quarantine
1562	<i>Ustilago esculenta</i>	Ustilagino	Basidio	5	6	3	8	22	GCA_000819925.1	Senckenberg Broad Institute
1563	<i>Lasallia hispanica</i>	Lecanoro	Asco	8	2	2	10	22	GCA_003254425.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1564	<i>Blastomyces percursus</i>	Eurotio	Asco	6	5	2	9	22	GCA_001883805.1	Kunming University of Science and Technology
1565	<i>Naganishia albida</i>	Tremello	Basidio	5	6	4	7	22	GCA_001599735.1	RIKEN Center for Life Science Technologies,
1566	<i>Russula aff. compacta</i>	Agarico	Basidio	7	0	2	13	22	GCA_003313875.1	
1567	<i>Filobasidium wieringae</i>	Tremello	Basidio	5	6	5	6	22	GCA_001600055.1	

1568	<i>Ramaria cf. rubripermanens</i>	Agarico	Basidio	9	0	2	11	22	GCA_003316465.1	Division of Genomic Technologies
1569	<i>Hygrophorus pudorinus</i>	Agarico	Basidio	6	4	1	11	22	GCA_003314045.1	Kunming University of Science and Technology
1570	<i>Trichosporon inkin</i>	Tremello	Basidio	6	4	2	9	21	GCA_001752625.1	Kunming University of Science and Technology
1571	<i>Dissoconium aciculare</i>	Dothideo	Asco	5	3	5	8	21	GCA_010015565.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1572	<i>Drechmeria coniospora</i>	Sordario	Asco	6	5	1	9	21	GCA_001625195.1	DOE Joint Genome Institute
1573	<i>Ramalina intermedia</i>	Lecanoro	Asco	6	4	2	9	21	GCA_003073195.1	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences
1574	<i>Syncephalastrum monosporum</i>	Mucoro	Mucoro	4	9	2	6	21	GCA_000697355.1	Yunnan Academy of Forestry
1575	<i>Chaetothyriales sp. CBS 135597</i>	Eurotio	Asco	7	3	1	10	21	GCA_003709825.1	IGS
1576	<i>Cladonia macilenta</i>	Lecanoro	Asco	5	5	3	8	21	GCA_000444155.1	Westerdijk Fungal Biodiversity Institute
1577	<i>Cerataphis brasiliensis yeast-like symbiont</i>	0	Asco	6	3	2	10	21	GCA_000372705.1	Seoul National University
1578	<i>Rhodotorula paludigena</i>	Microbotryo	Basidio	5	3	2	11	21	GCA_005281665.1	University of Arizona
1579	<i>Emergomyces pasteurianus</i>	Eurotio	Asco	7	2	2	10	21	GCA_001883825.1	Suranaree University of Technology
1580	<i>Paxillus rubicundulus</i>	Agarico	Basidio	6	3	4	8	21	GCA_000827395.1	Broad Institute
1581	<i>Blastomyces silverae</i>	Eurotio	Asco	6	4	2	9	21	GCA_001014755.1	DOE Joint Genome Institute
1582	<i>Phlebopus portentosus</i>	Agarico	Basidio	7	2	1	11	21	GCA_000766925.2	Broad Institute
1583	<i>Blastomyces gilchristii</i>	Eurotio	Asco	7	3	2	9	21	GCA_000003855.2	Yunnan University
1584	<i>Neoboletus magnificus</i>	Agarico	Basidio	7	1	2	11	21	GCA_003316145.1	Broad Institute
1585	<i>Melampsora pinitorqua</i>	Puccinio	Basidio	5	10	3	3	21	GCA_000464645.1	Kunming University of Science and Technology
1586	<i>Sarcodon aspratus</i>	Agarico	Basidio	6	2	4	9	21	GCA_003313825.1	Tree Aggressors Identification using Genomic Approaches
1587	<i>Kwoniella dejecticola</i>	Tremello	Basidio	4	7	3	7	21	GCA_000512565.2	Kunming University of Science and Technology
1588	<i>Hypocrella siamensis</i>	Sordario	Asco	5	3	3	9	20	GCA_000731825.1	Broad Institute
1589	<i>Quambalaria eucalypti</i>	Exobasidio	Basidio	3	8	1	8	20	GCA_004016185.1	CSIR- Institute of Microbial technology (IMTECH)

1590	<i>Jimgerdemannia flammicorona</i>	Endogono	Mucoro	4	4	3	9	20	GCA_003990745.1	DOE Joint Genome Institute
1591	<i>Lichtheimia corymbifera</i>	Mucoro	Mucoro	3	8	2	7	20	GCA_000697175.1	IGS
1592	<i>Syncephalastrum racemosum</i>	Mucoro	Mucoro	4	9	1	6	20	GCA_002105135.1	DOE Joint Genome Institute
1593	<i>Hygrocybe conica</i>	Agarico	Basidio	6	5	2	7	20	GCA_900068975.1	Royal Botanic Gardens, Kew
1594	<i>Jaminaea rosea</i>	Exobasidio	Basidio	3	8	1	8	20	GCA_003144245.1	DOE Joint Genome Institute
1595	<i>Blastomyces parvus</i>	Eurotio	Asco	6	4	2	8	20	GCA_002572885.1	Broad Institute
1596	<i>Antarctomyces pellizariae</i>	Leotio	Asco	8	4	0	8	20	GCA_010623925.1	UFMG - Universidade Federal de Minas Gerais
1597	<i>Blastomyces dermatitidis</i>	Eurotio	Asco	6	3	2	9	20	GCA_000003525.2	Broad Institute
1598	<i>Pseudomicrostroma glucosiphilum</i>	Exobasidio	Basidio	5	3	4	8	20	GCA_003144135.1	DOE Joint Genome Institute
1599	<i>Rhizopus oryzae</i>	Mucoro	Mucoro	6	6	0	8	20	GCA_000697195.1	IGS
1600	<i>Lactarius trivialis</i>	Agarico	Basidio	7	0	1	12	20	GCA_003315845.1	Kunming University of Science and Technology
1601	<i>Russula griseocarnosa</i>	Agarico	Basidio	6	0	1	13	20	GCA_004801975.1	Research Institute of Tropical Forestry, Chinese Academy of Forestry
1602	<i>Holtermanniella nyarrowii</i>	Tremello	Basidio	4	8	3	5	20	GCA_001600035.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1603	<i>Tricholoma sp. MG77</i>	Agarico	Basidio	7	2	0	11	20	GCA_003314665.1	Kunming University of Science and Technology
1604	<i>Lactifluus pinguis</i>	Agarico	Basidio	7	0	0	13	20	GCA_003313945.1	Kunming University of Science and Technology
1605	<i>Lactifluus rugatus</i>	Agarico	Basidio	6	1	1	12	20	GCA_003315895.1	Kunming University of Science and Technology
1606	<i>Lactifluus hygrophoroides</i>	Agarico	Basidio	6	0	1	13	20	GCA_003314055.1	Kunming University of Science and Technology
1607	<i>Gomphus bonarii</i>	Agarico	Basidio	8	0	1	11	20	GCA_003316585.1	Kunming University of Science and Technology
1608	<i>Erysiphe pulchra</i>	Leotio	Asco	4	7	3	6	20	GCA_002918395.1	USDA-ARS
1609	<i>Takashimella tepidaria</i>	Tremello	Basidio	4	6	3	7	20	GCA_003116915.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1610	<i>Gomphus sp. MG54</i>	Agarico	Basidio	8	0	0	12	20	GCA_003314385.1	Kunming University of Science and Technology
1611	<i>Pyrrhoderma noxium</i>	Agarico	Basidio	7	3	1	9	20	GCA_002287475.2	Academia Sinica

1612	<i>Ophiocordyceps polyrhachis-furcata</i>	Sordario	Asco	4	4	5	6	19	GCA_001633055.2	National Center for Genetic Engineering and Biotechnology (BIOTEC)
1613	<i>Oph. camponoti-leonardi (nom. inval.)</i>	Sordario	Asco	5	4	3	7	19	GCA_003339455.1	National Center for Genetic Engineering and Biotechnology
1614	<i>Alectoria sarmentosa</i>	Lecanoro	Asco	6	3	2	8	19	GCA_009733775.1	Universidad Complutense de Madrid
1615	<i>Rhizoclostridium globosum</i>	Chytridio	Chytridio	6	5	0	8	19	GCA_002104985.1	DOE Joint Genome Institute
1616	<i>Cutaneotrichosporon curvatum</i>	Tremello	Basidio	5	3	4	7	19	GCA_001600275.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1617	<i>Cutaneotrichosporon cyanovorans</i>	Tremello	Basidio	5	2	4	8	19	GCA_002335625.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1618	<i>Rhizomucor pusillus</i>	Mucoro	Mucoro	4	8	1	6	19	GCA_900175165.2	CHALMERS UNIVERSITY OF TECHNOLOGY
1619	<i>Rhodotorula graminis</i>	Microbotryo	Basidio	4	4	3	8	19	GCA_001329695.1	DOE Joint Genome Institute
1620	<i>Suillus placidus</i>	Agarico	Basidio	6	2	3	8	19	GCA_003313645.1	Kunming University of Science and Technology
1621	<i>Rhizopus delemar</i>	Mucoro	Mucoro	6	5	0	8	19	GCA_000149305.1	Broad Institute
1622	<i>Phycomyces blakesleeanus</i>	Mucoro	Mucoro	5	5	1	8	19	GCA_001638985.2	JGI-PSF
1623	<i>Lactarius echinatus</i>	Agarico	Basidio	6	1	1	11	19	GCA_003315975.1	Kunming University of Science and Technology
1624	<i>Laccaria amethystina</i>	Agarico	Basidio	7	1	1	10	19	GCA_000827195.1	DOE Joint Genome Institute
1625	<i>Apiotrichum montevidense</i>	Tremello	Basidio	6	2	3	7	18	GCA_001598995.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1626	<i>Apiotrichum domesticum</i>	Tremello	Basidio	5	2	3	8	18	GCA_001599015.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1627	<i>Rhizomucor miehei</i>	Mucoro	Mucoro	3	7	2	6	18	GCA_000611695.1	Department of Biotechnology, College of Food Science and Nutritional Engineering, China Agricultural University

1628	<i>Lactarius indigo</i>	Agarico	Basidio	5	1	1	11	18	GCA_003313985.1	Kunming University of Science and Technology
1629	<i>Ceraceosorus guamensis</i>	Exobasidio	Basidio	3	5	1	9	18	GCA_003144195.1	DOE Joint Genome Institute
1630	<i>Cystobasidiopsis lactophilus</i>	Agaricostilbo	Basidio	7	1	1	9	18	GCA_001599975.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1631	<i>Chytriomycetes confervae</i>	Chytridio	Chytridio	3	6	2	7	18	GCA_006535975.1	Agriculture and Agri-Food Canada
1632	<i>Symmetrospora coprosmae</i>	Cystobasidio	Basidio	4	4	2	8	18	GCA_008802785.1	University College Dublin
1633	<i>Lactarius hatsudake</i>	Agarico	Basidio	5	1	1	11	18	GCA_003315955.1	Kunming University of Science and Technology
1634	<i>Erythrobasidium yunnanense</i>	Cystobasidio	Basidio	4	3	3	8	18	GCA_001600175.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1635	<i>Cetradonia linearis</i>	Lecanoro	Asco	5	2	1	10	18	GCA_003521265.1	The New York Botanical Garden
1636	<i>Protomyces macrosporus</i>	Taphrino	Asco	4	7	2	5	18	GCA_003717175.1	University of Helsinki
1637	<i>Lactarius sp. MG121</i>	Agarico	Basidio	5	1	1	11	18	GCA_003315925.1	Kunming University of Science and Technology
1638	<i>Thelephora aurantiotincta</i>	Agarico	Basidio	6	0	2	10	18	GCA_003316405.1	Kunming University of Science and Technology
1639	<i>Pulveroboletus ravenelii</i>	Agarico	Basidio	5	2	2	9	18	GCA_003316545.1	Kunming University of Science and Technology
1640	<i>Laccaria bicolor</i>	Agarico	Basidio	6	1	0	11	18	GCA_000143565.1	Laccaria Genome Consortium
1641	<i>Russula virescens</i>	Agarico	Basidio	5	0	1	12	18	GCA_003316435.1	Kunming University of Science and Technology
1642	<i>Microbotryum silenes-acaulis</i>	Microbotryyo	Basidio	4	4	1	9	18	GCA_003665825.1	Universite Paris Sud
1643	<i>Microbotryum silenes-dioicae</i>	Microbotryyo	Basidio	5	3	1	9	18	GCA_900120095.1	ESE
1644	<i>Phaeotremella skinneri</i>	Tremello	Basidio	5	4	2	7	18	GCA_001599695.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1645	<i>Tricholoma bakamatsutake</i>	Agarico	Basidio	8	0	1	9	18	GCA_003313665.1	Kunming University of Science and Technology
1646	<i>Chroogomphus rutilus</i>	Agarico	Basidio	6	0	2	10	18	GCA_003314275.1	Kunming University of Science and Technology
1647	<i>Ophiocordyceps camponoti-rufipedis</i>	Sordario	Asco	3	4	3	7	17	GCA_002591395.1	Utrecht University
1648	<i>Ophiocordyceps camponoti-floridani</i>	Sordario	Asco	3	4	3	7	17	GCA_012980515.1	University of Central Florida

1649	<i>Ophiocordyceps unilateralis</i>	Sordario	Asco	4	3	3	7	17	GCA_001272575.2	Utrecht University
1650	<i>Chaetothyriales sp. CBS 134916</i>	Eurotio	Asco	6	0	2	9	17	GCA_003709845.1	Westerdijk Fungal Biodiversity Institute
1651	<i>Tilletiopsis washingtonensis</i>	Exobasidio	Basidio	2	6	2	7	17	GCA_003144115.1	DOE Joint Genome Institute
1652	<i>Apiotrichum brassicae</i>	Tremello	Basidio	4	2	4	7	17	GCA_001600295.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1653	<i>Podosphaera leucotricha</i>	Leotio	Asco	4	3	2	8	17	GCA_013170925.1	Washington State University
1654	<i>Salmacisia buchloeana</i>	Exobasidio	Basidio	7	2	0	8	17	GCA_001990185.1	Pennsylvania State University
1655	<i>Thermomucor indicae-seudaticae</i>	Mucoro	Mucoro	3	5	3	6	17	GCA_000787465.1	Aalborg University
1656	<i>Mucor racemosus</i>	Mucoro	Mucoro	4	3	1	9	17	GCA_000697255.1	IGS
1657	<i>Tilletiaria anomala</i>	Exobasidio	Basidio	4	4	1	8	17	GCA_000711695.1	DOE Joint Genome Institute
1658	<i>Paracoccidioides lutzii</i>	Eurotio	Asco	4	2	3	8	17	GCA_000150705.2	Broad Institute
1659	<i>Rhizopus stolonifer</i>	Mucoro	Mucoro	5	3	1	8	17	GCA_000697035.1	IGS
1660	<i>Russula foetens</i>	Agarico	Basidio	5	0	1	11	17	GCA_003316565.1	Kunming University of Science and Technology
1661	<i>Rhizopus azygosporus</i>	Mucoro	Mucoro	6	2	0	9	17	GCA_003325435.1	University of California, Riverside
1662	<i>Rhizopus microsporus</i>	Mucoro	Mucoro	6	2	0	9	17	GCA_006680115.1	TGen-North
1663	<i>Choanephora cucurbitarum</i>	Mucoro	Mucoro	4	4	0	9	17	GCA_001683725.1	Korea University
1664	<i>Rhizopogon fuscorubens</i>	Agarico	Basidio	6	1	2	8	17	GCA_002995455.1	Oregon State University
1665	<i>Microbotryum intermedium</i>	Microbotryo	Basidio	4	3	1	9	17	GCA_900096595.1	ESE
1666	<i>Tricholoma flavovirens</i>	Agarico	Basidio	5	0	2	10	17	GCA_003313805.1	Kunming University of Science and Technology
1667	<i>Tricholoma sp. MG99</i>	Agarico	Basidio	8	0	1	8	17	GCA_003521275.1	Kunming University of Science and Technology
1668	<i>Wallemia hederæ</i>	Wallemio	Basidio	7	2	0	8	17	GCA_004918325.1	Biotechnical Faculty, University of Ljubljana
1669	<i>Phellinus lamaoensis</i>	Agarico	Basidio	6	1	1	9	17	GCA_002794735.1	Academia Sinica
1670	<i>Chrysosporium queenslandicum</i>	Eurotio	Asco	3	1	2	10	16	GCA_001430955.1	UC Berkeley
1671	<i>Ophiocordyceps camponoti-saundersi (nom. inval.)</i>	Sordario	Asco	4	3	3	6	16	GCA_003339415.1	National Center for Genetic Engineering and Biotechnology
1672	<i>Vanrija humicola</i>	Tremello	Basidio	4	3	2	7	16	GCA_008065275.1	Ruhr-University Bochum
1673	<i>Basidiobolus meristosporus</i>	Basidiobolo	Zoopago	5	2	0	9	16	GCA_002104905.1	DOE Joint Genome Institute
1674	<i>Chaetothyriales sp. CBS 132003</i>	Eurotio	Asco	6	0	1	9	16	GCA_003709865.1	Westerdijk Fungal Biodiversity Institute

1675	<i>Aspergillus cejpilii</i>	Eurotio	Asco	5	3	0	8	16	GCA_004769165.1	Guangdong Institute of Microbiology
1676	<i>Lactarius sp. MG50</i>	Agarico	Basidio	5	0	1	10	16	GCA_003314065.1	Kunming University of Science and Technology
1677	<i>Tilletia caries</i>	Exobasidio	Basidio	3	4	1	8	16	GCA_001645005.2	Agriculture and Agri-Food Canada
1678	<i>Xeromyces bisporus</i>	Eurotio	Asco	5	3	1	7	16	GCA_900006255.1	UPPSALA UNIVERSITET
1679	<i>Rhodotorula diobovata</i>	Microbotryo	Basidio	4	2	2	8	16	GCA_006352295.1	University of Manitoba
1680	<i>Mucor velutinosus</i>	Mucoro	Mucoro	4	1	2	9	16	GCA_000696895.1	IGS
1681	<i>Mrakia psychrophila</i>	Tremello	Basidio	3	4	4	5	16	GCA_001889225.1	Institute Of Microbiology Chinese Academy of Sciences
1682	<i>Histoplasma capsulatum</i>	Eurotio	Asco	4	3	2	7	16	GCA_000313325.1	Taipei Medical University
1683	<i>Rhodotorula toruloides</i>	Microbotryo	Basidio	4	1	2	9	16	GCA_001255795.1	UCB
1684	<i>Cystobasidiaceae sp. HBUAS51001</i>	Cystobasidio	Basidio	5	1	3	7	16	GCA_003351005.1	Hubei University of Arts and Science
1685	<i>Protomyces lactucaedebilis</i>	Taphrino	Asco	5	5	1	5	16	GCA_002105105.1	DOE Joint Genome Institute
1686	<i>Caulochytrium protostelioides</i>	Chytridio	Chytridio	5	1	1	9	16	GCA_003615045.1	DOE Joint Genome Institute
1687	<i>Piloderma croceum</i>	Agarico	Basidio	7	2	0	7	16	GCA_000827315.1	DOE Joint Genome Institute
1688	<i>Endogone sp. FLAS-F59071</i>	Endogono	Mucoro	4	3	1	8	16	GCA_003990785.1	DOE Joint Genome Institute
1689	<i>Protomyces inouyei</i>	Taphrino	Asco	5	5	1	5	16	GCA_003717155.1	University of Helsinki
1690	<i>Lactarius deliciosus</i>	Agarico	Basidio	5	0	0	11	16	GCA_006680135.1	UCSI University
1691	<i>Microbotryum saponariae</i>	Microbotryo	Basidio	5	2	1	8	16	GCA_900102585.1	ESE
1692	<i>Cryptococcus neoformans</i>	Tremello	Basidio	3	4	2	7	16	GCA_002216725.1	Washington University in St. Louis
1693	<i>Lactarius volemus</i>	Agarico	Basidio	4	0	1	11	16	GCA_003315835.1	Kunming University of Science and Technology
1694	<i>Russula abietina</i>	Agarico	Basidio	4	0	1	11	16	GCA_003313715.1	Kunming University of Science and Technology
1695	<i>Russula lepida</i>	Agarico	Basidio	5	0	1	10	16	GCA_003316425.1	Kunming University of Science and Technology
1696	<i>Lactarius piperatus</i>	Agarico	Basidio	5	0	0	11	16	GCA_003315875.1	Kunming University of Science and Technology
1697	<i>Scleroderma citrinum</i>	Agarico	Basidio	4	1	3	8	16	GCA_000827425.1	DOE Joint Genome Institute
1698	<i>Hygrophorus russula</i>	Agarico	Basidio	4	1	2	9	16	GCA_003314125.1	Kunming University of Science and Technology
1699	<i>Mortierella alpina</i>	Mortierello	Mucoro	3	3	2	7	15	GCA_000507065.1	IGS
1700	<i>Tilletia controversa</i>	Exobasidio	Basidio	3	3	1	8	15	GCA_001645045.2	Agriculture and Agri-Food Canada

1701	<i>Ceraceosorus bombacis</i>	Exobasidio	Basidio	3	3	1	8	15	GCA_900000165.1	IPF
1702	<i>Mucor ambiguus</i>	Mucoro	Mucoro	5	1	0	9	15	GCA_000950595.1	National Institute of Advanced Industrial Science and Technology (AIST)
1703	<i>Emmonsia sp. CAC-2015a</i>	Eurotio	Asco	3	3	2	7	15	GCA_001660665.1	Broad Institute
1704	<i>Tilletia walkeri</i>	Exobasidio	Basidio	3	3	1	8	15	GCA_009428295.1	Agriculture and Agri- Food Canada
1705	<i>Xylona heveae</i>	Xylono	Asco	5	1	0	9	15	GCA_001619985.1	DOE Joint Genome Institute
1706	<i>Paracoccidioides brasiliensis</i>	Eurotio	Asco	3	2	3	7	15	GCA_000150475.2	Broad Institute
1707	<i>Mucor irregularis</i>	Mucoro	Mucoro	4	1	1	9	15	GCA_000587855.1	Nanjing Biozeron
1708	<i>Actinomucor elegans</i>	Mucoro	Mucoro	5	1	0	9	15	GCA_001599635.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1709	<i>Mrakia blollopis</i>	Tremello	Basidio	4	2	4	5	15	GCA_000950635.1	National Institute of Advanced Industrial Science and Technology (AIST)
1710	<i>Erythrobasidium hasegawianum</i>	Cystobasidio	Basidio	4	2	2	7	15	GCA_001972285.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1711	<i>Parasitella parasitica</i>	Mucoro	Mucoro	4	1	1	9	15	GCA_000938895.1	FRIEDRICH SCHILLER UNIVERSITY JENA
1712	<i>Protomyces pachydermus</i>	Taphrino	Asco	5	5	0	5	15	GCA_003717275.1	University of Helsinki
1713	<i>Saitoella complicata</i>	0	Asco	5	2	1	7	15	GCA_000227095.3	Saitoella complicata genome sequencing consortium
1714	<i>Protomyces sp. C29</i>	Taphrino	Asco	5	5	0	5	15	GCA_003568695.1	University of Helsinki
1715	<i>Rhodotorula sp. ZM1</i>	Microbotryio	Basidio	4	0	2	9	15	GCA_009806315.1	Zhejiang Normal University
1716	<i>Golovinomyces cichoracearum</i>	Leotio	Asco	4	3	2	6	15	GCA_003611215.1	University of Maryland
1717	<i>Synchytrium endobioticum</i>	Chytridio	Chytridio	5	3	0	7	15	GCA_006536045.1	Agriculture and Agri- Food Canada
1718	<i>Cryptococcus gattii VGII</i>	Tremello	Basidio	3	3	1	8	15	GCA_003011995.1	Jawaharlal Nehru Centre for Advanced Scientific Research
1719	<i>Amanita brunnescens</i>	Agarico	Basidio	4	3	1	7	15	GCA_001691785.2	Harvard University
1720	<i>Amanita muscaria</i>	Agarico	Basidio	5	1	0	9	15	GCA_000827485.1	DOE Joint Genome Institute
1721	<i>Amauroascus mutatus</i>	Eurotio	Asco	3	2	1	8	14	GCA_001430935.1	UC Berkeley

1722	<i>Tilletia indica</i>	Exobasidio	Basidio	2	2	2	8	14	GCA_001689995.1	ICAR-Indian Institute of Wheat and Barley Research, Karnal Broad Institute IGS DOE Joint Genome Institute RIKEN Center for Life Science Technologies, Division of Genomic Technologies IGS University College Dublin Northwest A&F University University of Helsinki Malaysia Genome Institute INRA-LIPM Weill Cornell Medicine Kunming University of Science and Technology Michigan State University Broad Institute UC Berkeley DOE Joint Genome Institute University of Montana Broad Institute RIKEN Center for Life Science Technologies, Division of Genomic Technologies Northwest A&F University MAX PLANCK INSTITUTE FOR PLANT BREEDING RESEARCH University of Miyazaki IGS DOE Joint Genome Institute
1723	<i>Mortierella verticillata</i>	Mortierello	Mucoro	3	3	0	8	14	GCA_000739165.1	
1724	<i>Mucor indicus</i>	Mucoro	Mucoro	4	1	0	9	14	GCA_000697295.1	
1725	<i>Mucor lusitanicus</i>	Mucoro	Mucoro	4	1	0	9	14	GCA_010203745.1	
1726	<i>Mucor circinelloides</i>	Mucoro	Mucoro	4	1	0	9	14	GCA_001599575.1	
1727	<i>Basidiobolus heterosporus</i>	Basidiobolo	Zoopago	5	0	1	8	14	GCA_000697455.1	
1728	<i>Taphrina betulina</i>	Taphrino	Asco	3	3	2	6	14	GCA_008802775.1	
1729	<i>Taphrina confusa</i>	Taphrino	Asco	3	4	1	6	14	GCA_005281535.1	
1730	<i>Protomyces gravidus</i>	Taphrino	Asco	4	4	0	6	14	GCA_003717255.1	
1731	<i>Glaciozyma antarctica</i>	Microbotryio	Basidio	4	1	1	8	14	GCA_002917775.1	
1732	<i>Microbotryum violaceum</i>	Microbotryio	Basidio	4	2	1	7	14	GCA_900015485.1	
1733	<i>Cryptococcus neoformans AD hybrid</i>	Tremello	Basidio	4	2	0	8	14	GCA_006992865.1	
1734	<i>Sarcodon sp. MG97</i>	Agarico	Basidio	4	2	1	7	14	GCA_003313065.1	
1735	<i>Amanita phalloides</i>	Agarico	Basidio	5	0	0	9	14	GCA_001983385.1	
1736	<i>Kwoniella mangrovensis</i>	Tremello	Basidio	3	3	2	6	14	GCA_000507485.3	
1737	<i>Amauroascus niger</i>	Eurotio	Asco	2	2	1	8	13	GCA_001430945.1	
1738	<i>Mortierella elongata</i>	Mortierello	Mucoro	2	3	1	7	13	GCA_001651415.1	
1739	<i>fungal sp. Mo6-1</i>	0	0	3	2	2	6	13	GCA_002939055.1	
1740	<i>Nannizzia gypsea</i>	Eurotio	Asco	4	1	0	8	13	GCA_000150975.2	
1741	<i>Holtermannia corniformis</i>	Tremello	Basidio	4	2	1	6	13	GCA_001599935.1	
1742	<i>Taphrina pruni</i>	Taphrino	Asco	2	5	1	5	13	GCA_005281585.1	
1743	<i>Blumeria graminis</i>	Leotio	Asco	3	2	1	7	13	GCA_900237765.1	
1744	<i>Taphrina flavorubra</i>	Taphrino	Asco	2	5	1	5	13	GCA_000836175.1	
1745	<i>Saksenaea vasiformis</i>	Mucoro	Mucoro	5	0	0	8	13	GCA_000697055.1	
1746	<i>Pisolithus tinctorius</i>	Agarico	Basidio	4	0	1	8	13	GCA_000827335.1	

1747	<i>Pisolithus microcarpus</i>	Agarico	Basidio	3	2	1	7	13	GCA_000827275.1	JGI
1748	<i>Blyttiomycetes helicus</i>	Chytridio	Chytridio	4	2	0	7	13	GCA_003614705.1	DOE Joint Genome Institute
1749	<i>Rhizophagus clarus</i>	Glomero	Mucoro	3	1	0	9	13	GCA_003203555.1	National Institute for Basic Biology
1750	<i>Arthroderma uncinatum</i>	Eurotio	Asco	3	1	1	7	12	GCA_011692745.1	Chinese Academy of Medical Science and Peking Union Medical College
1751	<i>Absidia glauca</i>	Mucoro	Mucoro	3	1	1	7	12	GCA_900079185.1	FRIEDRICH SCHILLER UNIVERSITY JENA
1752	<i>Piedraia hortae</i>	Dothideo	Asco	2	2	4	4	12	GCA_010093745.1	DOE Joint Genome Institute
1753	<i>Cunninghamella bertholletiae</i>	Mucoro	Mucoro	3	2	0	7	12	GCA_000697215.1	IGS
1754	<i>Cunninghamella elegans</i>	Mucoro	Mucoro	3	2	0	7	12	GCA_000697015.1	IGS
1755	<i>Taphrina communis</i>	Taphrino	Asco	2	4	1	5	12	GCA_005281525.1	Northwest A&F University
1756	<i>Cokeromyces recurvatus</i>	Mucoro	Mucoro	4	0	0	8	12	GCA_000697235.1	IGS
1757	<i>Gigaspora rosea</i>	Glomero	Mucoro	3	2	0	7	12	GCA_003550325.1	INRA
1758	<i>Allomyces macrogynus</i>	Blastocladio	Blastocladio	1	4	3	4	12	GCA_000151295.1	Broad Institute
1759	<i>Gigaspora margarita</i>	Glomero	Mucoro	4	2	0	6	12	GCA_009809945.1	CNR
1760	<i>Taphrina sp. SM11</i>	Taphrino	Asco	3	3	2	4	12	GCA_004000165.1	University of Helsinki
1761	<i>Cryptococcus gattii VGI</i>	Tremello	Basidio	3	1	1	7	12	GCA_000836355.1	Broad Institute
1762	<i>Cryptococcus gattii VGIV</i>	Tremello	Basidio	3	1	1	7	12	GCA_000835755.1	Broad Institute
1763	<i>Oidium heveae</i>	Leotio	Asco	3	2	0	7	12	GCA_003957845.1	Hainan University
1764	<i>Golubevia sp. BC0902</i>	Exobasidio	Basidio	3	2	0	7	12	GCA_012976205.1	Wageningen UR
1765	<i>Amanita inopinata</i>	Agarico	Basidio	4	1	0	7	12	GCA_001691775.3	Harvard University
1766	<i>Amanita pseudoporphyria</i>	Agarico	Basidio	5	0	0	7	12	GCA_003316615.1	Kunming University of Science and Technology
1767	<i>Microsporium canis</i>	Eurotio	Asco	2	2	1	6	11	GCA_000151145.1	Broad Institute
1768	<i>Absidia repens</i>	Mucoro	Mucoro	2	1	0	8	11	GCA_002105175.1	DOE Joint Genome Institute
1769	<i>Mortierella sp. BCC40632</i>	Mortierello	Mucoro	3	1	0	7	11	GCA_011634665.1	National Center for Genetic Engineering and Biotechnology
1770	<i>Hesseltinella vesiculosa</i>	Mucoro	Mucoro	3	0	0	8	11	GCA_002104935.1	DOE Joint Genome Institute
1771	<i>Uncinocarpus reesii</i>	Eurotio	Asco	3	1	1	6	11	GCA_000003515.2	Broad Institute
1772	<i>Saksenaea oblongispora</i>	Mucoro	Mucoro	4	0	0	7	11	GCA_000697495.1	IGS
1773	<i>Rhodotorula sp. JG-1b</i>	Microbotryio	Basidio	2	2	1	6	11	GCA_001541205.1	DOE Joint Genome Institute
1774	<i>Taphrina deformans</i>	Taphrino	Asco	3	2	1	5	11	GCA_005281805.1	Northwest A&F University
1775	<i>Conidiobolus incongruus</i>	Entomophthoro	Zoopago	2	1	1	7	11	GCA_000697335.1	IGS

1776	<i>Glomus cerebriforme</i>	Glomero	Mucoro	2	1	0	8	11	GCA_003833025.1	University of Ottawa
1777	<i>Cryptococcus cf. gattii</i>	Tremello	Basidio	2	2	1	6	11	GCA_009650685.1	Broad Institute
1778	<i>Cryptococcus gattii</i> VGIII	Tremello	Basidio	2	2	1	6	11	GCA_000836335.1	Broad Institute
1779	<i>Golubevia sp. BC0812</i>	Exobasidio	Basidio	3	2	0	6	11	GCA_012976215.1	Wageningen UR
1780	<i>Golubevia sp. BC0850</i>	Exobasidio	Basidio	3	2	0	6	11	GCA_012976225.1	Wageningen UR
1781	<i>Oidium neolycopersici</i>	Leotio	Asco	4	1	0	6	11	GCA_003610855.1	University of Maryland
1782	<i>Oehlia diaphana</i>	Glomero	Mucoro	2	1	0	8	11	GCA_003833135.1	University of Ottawa NIBB core research facilities, National Institutes for Basic Biology
1783	<i>Rhizophagus irregularis</i>	Glomero	Mucoro	2	1	0	8	11	GCA_002897155.1	INRA
1784	<i>Rhizophagus sp. MUCL 43196</i>	Glomero	Mucoro	2	1	0	8	11	GCA_003549995.1	Harvard University
1785	<i>Amanita polyphyramis</i>	Agarico	Basidio	3	0	0	8	11	GCA_001691755.2	North-Western State Medical University named after I.I. Mechnicov
1786	<i>Trichophyton mentagrophytes</i>	Eurotio	Asco	2	2	0	6	10	GCA_003664465.1	UC Berkeley
1787	<i>Bysoonygena ceratinophila</i>	Eurotio	Asco	3	1	0	6	10	GCA_001430925.1	Swiss Institute of Bioinformatics
1788	<i>Trichophyton benhamiae</i>	Eurotio	Asco	2	2	0	6	10	GCA_001858085.1	Lawrence Livermore National Laboratory
1789	<i>Rhodotorula taiwanensis</i>	Microbotryio	Basidio	2	1	1	6	10	GCA_002922495.1	TGen North
1790	<i>Coccidioides immitis</i>	Eurotio	Asco	2	1	1	6	10	GCA_004115165.2	IGS
1791	<i>Apophysomyces trapeziformis</i>	Mucoro	Mucoro	4	0	0	6	10	GCA_000696975.1	IGS
1792	<i>Apophysomyces elegans</i>	Mucoro	Mucoro	4	0	0	6	10	GCA_000696995.1	IGS
1793	<i>Rhodotorula mucilaginosa</i>	Microbotryio	Basidio	2	2	0	6	10	GCA_003055205.1	Indian Institute Of Chemical biology
1794	<i>Taphrina wiesneri</i>	Taphrino	Asco	2	3	0	5	10	GCA_005281515.1	Northwest A&F University
1795	<i>Linderina pennispora</i>	Kickxello	Zoopago	1	3	1	5	10	GCA_002104995.1	DOE Joint Genome Institute
1796	<i>Malassezia furfur</i>	Malassezio	Basidio	2	1	0	7	10	GCA_002551515.1	University of Utrecht
1797	<i>Wallemia ichthyophaga</i>	Wallemio	Basidio	4	1	0	5	10	GCA_004918895.1	Biotechnical Faculty, University of Ljubljana
1798	<i>Diversispora epigaea</i>	Glomero	Mucoro	2	1	0	7	10	GCA_003547095.1	Cornell University
1799	<i>Neolecta irregularis</i>	Neolecto	Asco	2	2	1	5	10	GCA_001929475.1	University of California, Riverside
1800	<i>Malassezia obtusa</i>	Malassezio	Basidio	2	1	0	7	10	GCA_001264985.1	Genome Institute of Singapore
1801	<i>Kwoniella pini</i>	Tremello	Basidio	2	2	2	4	10	GCA_000512605.2	Broad Institute
1802	<i>Golubevia pallescens</i>	Exobasidio	Basidio	3	2	0	5	10	GCA_001599655.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies

1803	<i>Malassezia globosa</i>	Malassezio	Basidio	3	0	0	7	10	GCA_001264805.1	Genome Institute of Singapore
1804	<i>Trichophyton rubrum</i>	Eurotio	Asco	2	1	0	6	9	GCA_000616845.1	Broad Institute
1805	<i>Trichophyton soudanense</i>	Eurotio	Asco	2	1	0	6	9	GCA_000616865.1	Broad Institute
1806	<i>Trichophyton interdigitale</i>	Eurotio	Asco	2	1	0	6	9	GCA_000622975.1	Broad Institute
1807	<i>Trichophyton kuryangei</i>	Eurotio	Asco	2	1	0	6	9	GCA_012184535.1	Belgian Coordinated Collection of Microorganisms, BCCM
1808	<i>Trichophyton equinum</i>	Eurotio	Asco	2	1	0	6	9	GCA_000151175.1	Broad Institute
1809	<i>Trichophyton tonsurans</i>	Eurotio	Asco	2	1	0	6	9	GCA_000151455.1	Broad Institute
1810	<i>Trichophyton violaceum</i>	Eurotio	Asco	2	1	0	6	9	GCA_001651435.1	Chinese Academy of Medical Science & Peking Union Medical College
1811	<i>Trichophyton yaoundei</i>	Eurotio	Asco	2	1	0	6	9	GCA_012184575.1	Belgian Coordinated Collection of Microorganisms, BCCM
1812	<i>Trichophyton verrucosum</i>	Eurotio	Asco	2	1	0	6	9	GCA_000151505.1	Arthroderma Genome Sequencing Consortium
1813	<i>Onygena corvina</i>	Eurotio	Asco	2	1	0	6	9	GCA_000812245.1	Aalborg University
1814	<i>Rhodotorula sp. CCFEE 5036</i>	Microbotryio	Basidio	2	1	0	6	9	GCA_005059875.1	University of California, Riverside
1815	<i>Apophysomyces variabilis</i>	Mucoro	Mucoro	3	0	0	6	9	GCA_002749535.1	Postgraduate Institute of medical education and research
1816	<i>Ophidiomyces ophiodiicola</i>	Eurotio	Asco	3	0	0	6	9	GCA_002167195.1	University of Arizona
1817	<i>Taphrina populina</i>	Taphrino	Asco	2	3	0	4	9	GCA_000836195.1	University of Miyazaki
1818	<i>Lobosporangium transversale</i>	Mortierello	Mucoro	2	1	0	6	9	GCA_002105155.1	DOE Joint Genome Institute
1819	<i>fungal sp. ARF18</i>	0	0	2	1	0	6	9	GCA_002224055.1	University of Arkansas
1820	<i>Entomophthora muscae</i>	Entomophthoro	Zoopago	2	0	0	7	9	GCA_900018355.1	UNIVERSITY OF COPENHAGEN
1821	<i>Conidiobolus coronatus</i>	Entomophthoro	Zoopago	2	1	0	6	9	GCA_001566745.1	JGI-PSF
1822	<i>Puccinia triticina</i>	Puccinio	Basidio	4	0	0	5	9	GCA_013090125.1	University of Sydney
1823	<i>Malassezia cuniculi</i>	Malassezio	Basidio	3	0	0	6	9	GCA_001264635.1	Genome Institute of Singapore
1824	<i>Erysiphe necator</i>	Leotio	Asco	3	0	0	6	9	GCA_000798715.1	University of California, Davis
1825	<i>Massospora cicadina</i>	Entomophthoro	Zoopago	2	0	0	7	9	GCA_006912075.1	University of Michigan
1826	<i>Cystobasidium pallidum</i>	Cystobasidio	Basidio	2	0	2	5	9	GCA_001599955.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1827	<i>Erysiphe pisi</i>	Leotio	Asco	3	1	0	5	9	GCA_000208805.1	Max-Planck-Institute for Plant Breeding Research

1828	<i>Malassezia caprae</i>	Malassezio	Basidio	3	0	0	6	9	GCA_001264625.1	Genome Institute of Singapore
1829	<i>Puccinia striiformis</i>	Puccinio	Basidio	4	1	1	3	9	GCA_011750755.1	Australian National University
1830	<i>Wallemia mellicola</i>	Wallemio	Basidio	4	0	0	5	9	GCA_004919005.1	Biotechnical Faculty, University of Ljubljana
1831	<i>Mixia osmundae</i>	Mixio	Basidio	2	0	0	6	8	GCA_000708205.1	DOE Joint Genome Institute
1832	<i>Spizellomyces sp. 'palustris'</i>	Chytridio	Chytridio	4	0	0	4	8	GCA_006535965.1	Agriculture and Agri-Food Canada
1833	<i>Coemansia reversa</i>	Kickxello	Zoopago	1	2	0	5	8	GCA_002705745.1	JGI
1834	<i>Zoopage sp. CT-All</i>	Zoopago	Zoopago	1	0	3	4	8	GCA_004114245.1	University of Michigan
1835	<i>Sporidiobolus pararoseus</i>	Microbotryo	Basidio	2	0	1	5	8	GCA_010758995.1	Shenyang Agricultural University
1836	<i>Puccinia novopanic</i>	Puccinio	Basidio	3	0	0	5	8	GCA_004348175.1	Noble Research Institute
1837	<i>Amanita bisporigera</i>	Agarico	Basidio	2	0	0	6	8	GCA_001983365.1	Michigan State University
1838	<i>Malassezia japonica</i>	Malassezio	Basidio	2	0	0	6	8	GCA_001600795.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1839	<i>Malassezia equina</i>	Malassezio	Basidio	2	0	0	6	8	GCA_001264685.1	Genome Institute of Singapore
1840	<i>Malassezia sympodialis</i>	Malassezio	Basidio	2	0	0	6	8	GCA_001264715.1	Genome Institute of Singapore
1841	<i>Malassezia dermatis</i>	Malassezio	Basidio	2	0	0	6	8	GCA_001600775.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1842	<i>Malassezia restricta</i>	Malassezio	Basidio	2	0	0	6	8	GCA_001264725.1	Genome Institute of Singapore
1843	<i>Phaeotremella fagi</i>	Tremello	Basidio	1	0	3	4	8	GCA_001599715.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1844	<i>Spizellomyces punctatus</i>	Chytridio	Chytridio	3	0	0	4	7	GCA_000182565.2	Broad Institute
1845	<i>Puccinia coronata</i>	Puccinio	Basidio	3	0	0	4	7	GCA_002873275.1	University of Minnesota
1846	<i>Puccinia sorghi</i>	Puccinio	Basidio	3	0	0	4	7	GCA_001263375.1	BIA - FCEN - UBA
1847	<i>Malassezia slooffiae</i>	Malassezio	Basidio	2	0	0	5	7	GCA_010577765.1	Jawaharlal Nehru Centre for Advanced Scientific Research
1848	<i>Amanita jacksonii</i>	Agarico	Basidio	2	0	0	5	7	GCA_000497225.1	University of Toronto
1849	<i>Puccinia horiana</i>	Puccinio	Basidio	3	0	0	4	7	GCA_001624995.1	National Academy of Agricultural Science

1850	<i>Cryptococcus depauperatus</i>	Tremello	Basidio	2	0	1	4	7	GCA_001720245.1	Broad Institute
1851	<i>Malassezia nana</i>	Malassezio	Basidio	2	0	0	5	7	GCA_001600835.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1852	<i>Malassezia vespertilionis</i>	Malassezio	Basidio	1	0	0	6	7	GCA_002818225.1	US Forest Service
1853	<i>Malassezia pachydermatis</i>	Malassezio	Basidio	2	0	0	5	7	GCA_001264975.1	Genome Institute of Singapore
1854	<i>Malassezia sp.</i>	Malassezio	Basidio	2	0	0	5	7	GCA_004026415.1	Jill Banfield's Lab at Berkeley
1855	<i>Malassezia yamatoensis</i>	Malassezio	Basidio	1	0	0	6	7	GCA_001264885.1	Genome Institute of Singapore
1856	<i>Homolaphlyctis polyrhiza</i>	Chytridio	Chytridio	1	0	0	5	6	GCA_000235945.1	University of Idaho, Initiative for Bioinformatics and Evolutionary Studies
1857	<i>Syncephalis pseudoplumigaleata</i>	Zoopago	Zoopago	2	1	0	3	6	GCA_003614755.1	DOE Joint Genome Institute
1858	<i>Smittium mucronatum</i>	Harpello	Zoopago	0	2	1	3	6	GCA_001953115.1	University of Toronto
1859	<i>Catenaria anguillulae</i>	Blastocladio	Blastocladio	1	1	1	3	6	GCA_002102555.1	DOE Joint Genome Institute
1860	<i>Massospora platypediae</i>	Entomophthoro	Zoopago	3	0	0	3	6	GCA_006912095.1	University of California, Riverside
1861	<i>Puccinia graminis</i>	Puccinio	Basidio	2	0	0	4	6	GCA_008522505.1	University of Minnesota
1862	<i>Phaffia rhodozyma</i>	Tremello	Basidio	1	1	0	4	6	GCA_001600435.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1863	<i>uncultured Malassezia</i>	Malassezio	Basidio	2	0	0	4	6	GCA_903798065.1	EBI
1864	<i>Puccinia hordei</i>	Puccinio	Basidio	3	0	0	3	6	GCA_007896445.1	University of Sydney
1865	<i>Cochlonema odontosperma</i>	Zoopago	Zoopago	1	0	0	4	5	GCA_004114315.1	University of Michigan
1866	<i>Zancudomyces culisetae</i>	Harpello	Zoopago	1	1	0	3	5	GCA_001969505.1	University of Toronto
1867	<i>Acaulopage tetraceros</i>	Zoopago	Zoopago	1	0	0	4	5	GCA_004114255.1	University of Michigan
1868	<i>Thamnocephalis sphaerospora</i>	Zoopago	Zoopago	0	0	1	3	4	GCA_003614735.1	DOE Joint Genome Institute
1869	<i>Dimargaris cristalligena</i>	Dimargarito	Zoopago	1	1	0	2	4	GCA_003614675.1	DOE Joint Genome Institute
1870	<i>Batrachochytrium dendrobatidis</i>	Chytridio	Chytridio	1	0	0	3	4	GCA_003595275.1	University of Otago
1871	<i>Smittium culicis</i>	Harpello	Zoopago	1	0	0	3	4	GCA_001970855.1	University of Toronto
1872	<i>Stylopaga hadra</i>	Zoopago	Zoopago	0	1	0	3	4	GCA_005111325.1	University of Michigan
1873	<i>Smittium megazygosporum</i>	Harpello	Zoopago	0	0	0	3	3	GCA_003086715.1	University of Toronto
1874	<i>Schizosaccharomyces japonicus</i>	Schizosaccharo	Asco	0	1	0	2	3	GCA_000149845.2	Broad Institute
1875	<i>Smittium simulii</i>	Harpello	Zoopago	0	0	0	3	3	GCA_003086735.1	University of Toronto
1876	<i>Schizosaccharomyces octosporus</i>	Schizosaccharo	Asco	0	1	0	2	3	GCA_000150505.2	Broad Institute

1877	<i>Batrachochytrium salamandrivorans</i>	Chytridio	Chytridio	0	0	0	3	3	GCA_002006685.1	Broad Institute
1878	<i>Piptocephalis cylindrospora</i>	Zoopago	Zoopago	1	0	0	2	3	GCA_003614145.1	DOE Joint Genome Institute
1879	<i>Schizosaccharomyces cryophilus</i>	Schizosaccharo	Asco	0	1	0	2	3	GCA_000004155.2	Broad Institute Tree Aggressors
1880	<i>Cronartium ribicola</i>	Puccinio	Basidio	1	0	0	2	3	GCA_000500245.1	Identification using Genomic Approaches
1881	<i>Herpomyces periplanetae</i>	Laboulbenio	Asco	2	0	0	1	3	GCA_009733715.1	University of Warsaw
1882	<i>Tremella mesenterica</i>	Tremello	Basidio	0	0	0	3	3	GCA_004117975.1	Broad Institute
1883	<i>Smittium angustum</i>	Harpello	Zoopago	0	0	0	2	2	GCA_003097675.1	University of Toronto
1884	<i>Furculomyces boomerangus</i>	Harpello	Zoopago	0	0	0	2	2	GCA_003086725.1	University of Toronto
1885	<i>Capniomyces stellatus</i>	Harpello	Zoopago	0	0	0	2	2	GCA_001661515.1	University of Toronto
1886	<i>Schizosaccharomyces pombe</i>	Schizosaccharo	Asco	0	0	0	2	2	GCA_003086255.1	Uppsala University
1887	<i>Rozella allomycis</i>	0	Crypto	0	0	0	2	2	GCA_000442015.1	University of Michigan
1888	<i>Melampsora medusae</i>	Puccinio	Basidio	1	1	0	0	2	GCA_002157035.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1889	<i>Nosema bombycis</i>	0	Microsporidia	1	0	1	0	2	GCA_000383075.1	The Institute of Sericulture and Systems Biology (ISSB) of Southwest University (SWU)
1890	<i>Amphiamblys sp. WSBS2006</i>	0	Microsporidia	1	0	0	1	2	GCA_001875675.1	A.N. Belozersky Institute of Physico-Chemical Biology, Lomonosov Moscow State University
1891	<i>Uromyces viciae-fabae</i>	Puccinio	Basidio	2	0	0	0	2	GCA_000785685.1	Universitaet Hohenheim
1892	<i>Melampsora occidentalis</i>	Puccinio	Basidio	1	0	0	0	1	GCA_002157085.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1893	<i>Melampsora abietis-canadensis</i>	Puccinio	Basidio	1	0	0	0	1	GCA_002157025.1	BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1894	<i>Melampsora larici-populina</i>	Puccinio	Basidio	1	0	0	0	1	GCA_000204055.1	US DOE Joint Genome Institute (JGI-PGF)
1895	<i>Cronartium comandrae</i>	Puccinio	Basidio	0	0	0	1	1	GCA_000464975.1	Tree Aggressors Identification using Genomic Approaches
1896	<i>Meira miltonrushii</i>	Exobasidio	Basidio	0	0	0	1	1	GCA_003144205.1	DOE Joint Genome Institute
1897	<i>Endocronartium harknessii</i>	Puccinio	Basidio	0	1	0	0	1	GCA_000500795.1	Tree Aggressors Identification using Genomic Approaches

1898	<i>Mitosporidium daphniae</i>	0	Microsporidia	0	0	0	1	1	GCA_000760515.2	Illinois Institute of Technology BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1899	<i>Melampsora allii-populina</i>	Puccinio	Basidio	0	0	0	1	1	GCA_002157005.1	INRA-LIPM University of Ottawa BC Cancer Agency, Canada's Michael Smith Genome Sciences Centre
1900	<i>Microbotryum lychnidis-dioicae</i>	Microbotryo	Basidio	0	1	0	0	1	GCA_001244265.1	University of Michigan
1901	<i>Pseudoloma neurophilia</i>	0	Microsporidia	1	0	0	0	1	GCA_001432165.1	Jiangxi Agricultural University Broad Institute Universite Clermont Auvergne, CNRS UMR 6023
1902	<i>Melampsora aecidioides</i>	Puccinio	Basidio	0	0	0	1	1	GCA_002157015.1	Broad Institute University of California San Diego
1903	<i>Paramicrosporidium saccamoebae</i>	0	Crypto	0	0	0	0	0	GCA_002794465.1	Illinois Institute of Technology
1904	<i>Nosema ceranae</i>	0	Microsporidia	0	0	0	0	0	GCA_004919615.1	UNIVERSITY OF SYDNEY Institute for Cell and Molecular Biosciences, Newcastle University
1905	<i>Vavraia culicis</i>	0	Microsporidia	0	0	0	0	0	GCA_000192795.1	Illinois Institute of Technology
1906	<i>Tubulinosema ratisbonensis</i>	0	Microsporidia	0	0	0	0	0	GCA_004000155.1	Keeling lab, University of British Columbia
1907	<i>Edhazardia aedis</i>	0	Microsporidia	0	0	0	0	0	GCA_000230595.3	Broad Institute Tufts Cummings School of Veterinary Medicine
1908	<i>Nematocida displodere</i>	0	Microsporidia	0	0	0	0	0	GCA_001642395.1	Broad Institute University of British Columbia
1909	<i>Hamiltosporidium tvaerminensis</i>	0	Microsporidia	0	0	0	0	0	GCA_004325075.1	University of Ottawa Broad Institute
1910	<i>Austropuccinia psidii</i>	Puccinio	Basidio	0	0	0	0	0	GCA_902702905.1	University of British Columbia
1911	<i>Trachipleistophora hominis</i>	0	Microsporidia	0	0	0	0	0	GCA_000316135.1	University of Ottawa Broad Institute
1912	<i>Hamiltosporidium magnivora</i>	0	Microsporidia	0	0	0	0	0	GCA_004325065.1	University of British Columbia
1913	<i>Encephalitozoon intestinalis</i>	0	Microsporidia	0	0	0	0	0	GCA_000146465.1	University of Ottawa Broad Institute
1914	<i>Nematocida parisii</i>	0	Microsporidia	0	0	0	0	0	GCA_000190615.1	University of British Columbia
1915	<i>Enterocytozoon bieneusi</i>	0	Microsporidia	0	0	0	0	0	GCA_000209485.1	University of Ottawa Broad Institute
1916	<i>Vittaforma corneae</i>	0	Microsporidia	0	0	0	0	0	GCA_000231115.1	University of British Columbia
1917	<i>Encephalitozoon hellem</i>	0	Microsporidia	0	0	0	0	0	GCA_000277815.3	University of Ottawa Broad Institute
1918	<i>Encephalitozoon romaleae</i>	0	Microsporidia	0	0	0	0	0	GCA_000280035.2	University of British Columbia
1919	<i>Nematocida sp. 1</i>	0	Microsporidia	0	0	0	0	0	GCA_000738915.1	University of Ottawa Broad Institute
1920	<i>Ordospora colligata</i>	0	Microsporidia	0	0	0	0	0	GCA_000803265.1	University of British Columbia
1921	<i>Encephalitozoon cuniculi</i>	0	Microsporidia	0	0	0	0	0	GCA_001078035.1	University of Ottawa Broad Institute
1922	<i>Nematocida sp. ERTm5</i>	0	Microsporidia	0	0	0	0	0	GCA_001642415.1	University of California San Diego

1923	<i>Hemileia vastatrix</i>	Puccinio	Basidio	0	0	0	0	0	GCA_004125335.1	Universidade Federal de Lavras (UFLA)
1924	<i>Antonospora locustae</i>	0	Microsporidia	0	0	0	0	0	GCA_007674295.1	Zhengzhou Normal University
1925	<i>Cronartium quercuum</i>	Puccinio	Basidio	0	0	0	0	0	GCA_000500775.1	Tree Aggressors Identification using Genomic Approaches
1926	<i>Pneumocystis jirovecii</i>	Pneumocystido	Asco	0	0	0	0	0	GCA_001477535.1	Broad Institute
1927	<i>Hepatospora eriocheir</i>	0	Microsporidia	0	0	0	0	0	GCA_002087885.1	University of Exeter
1928	<i>Metchnikovella incurvata</i>	0	Microsporidia	0	0	0	0	0	GCA_003600395.1	SINGEK
1929	<i>Enterocytozoon hepatopenaei</i>	0	Microsporidia	0	0	0	0	0	GCA_003709115.1	Korea Research Institute of Bioscience & Biotechnology
1930	<i>Pneumocystis carinii</i>	Pneumocystido	Asco	0	0	0	0	0	GCA_001477545.1	Broad Institute
1931	<i>Meira nashicola</i>	Exobasidio	Basidio	0	0	0	0	0	GCA_001600355.1	RIKEN Center for Life Science Technologies, Division of Genomic Technologies
1932	<i>Enterospora canceri</i>	0	Microsporidia	0	0	0	0	0	GCA_002087915.1	University of Exeter

Table S3. Categorization of “Family;Function” data (EC number in relation to substrate associations. The Table displays the data in two ways: Two left columns lists the order according to ascending EC number; The four columns to the right lists the “Family;Function” organized per substrate. The term GENERAL indicates what the family generally is associated to a certain substrate, in case the identified group does not have a known molecular function.

Function;family	Substrate	Function:family substrate annotations encoded CAZymes			
		Cellulose	Pectin	Xylan	Lignin
GENERAL;AA1	Lignin	GENERAL;AA3	3.1.1.11;CE0	GENERAL;AA14	1.10.3.*;AA1
1.10.3.2;AA1	Lignin	1.1.99.18;AA3	GENERAL;CE8	1.*.*;AA14	GENERAL;AA2
1.10.3.*;AA1	Lignin	1.1.3.4;AA3	3.1.1.11;CE8	3.1.1.72;CE1	1.11.1.13;AA2
GENERAL;AA2	Lignin	1.1.3.7;AA3	3.1.1.*;CE12	GENERAL;CE2	1.11.1.16;AA2
1.11.1.13;AA2	Lignin	1.1.3.13;AA3	GENERAL;CE13	3.1.1.72;CE2	1.11.1.14;AA2
1.11.1.16;AA2	Lignin	1.1.3.10;AA3	3.1.1.*;CE13	GENERAL;CE3	1.11.1.*;AA2
1.11.1.14;AA2	Lignin	GENERAL;AA9	3.2.1.23;GH0	3.1.1.72;CE3	1.11.1.5;AA2
1.11.1.*;AA2	Lignin	1.14.99.54;AA9	3.2.1.23;GH1	3.1.1.72;CE4	GENERAL;AA3
1.11.1.5;AA2	Lignin	1.14.99.56;AA9	3.2.1.23;GH2	3.1.1.72;CE5	1.1.99.18;AA3
GENERAL;AA3	Cellulose;Lignin	GENERAL;AA10	3.2.1.31;GH2	GENERAL;CE6	1.1.3.4;AA3
1.1.99.18;AA3	Cellulose;Lignin	1.14.99.54;AA10	3.2.1.55;GH2	3.1.1.72;CE6	1.1.3.7;AA3
1.1.3.4;AA3	Cellulose;Lignin	1.14.99.56;AA10	3.2.1.*;GH2	GENERAL;CE7	1.1.3.13;AA3
1.1.3.7;AA3	Cellulose;Lignin	1.14.99.53;AA10	3.2.1.*;GH2	3.1.1.72;CE7	1.1.3.10;AA3
1.1.3.13;AA3	Cellulose;Lignin	GENERAL;AA15	3.2.1.55;GH3	3.1.1.72;CE12	GENERAL;AA4
1.1.3.10;AA3	Cellulose;Lignin	1.14.99.54;AA15	3.2.1.164;GH5	GENERAL;CE15	1.1.3.38;AA4
GENERAL;AA4	Lignin	GENERAL;AA16	3.2.1.181;GH16	3.1.1.*;CE15	GENERAL;AA5
1.1.3.38;AA4	Lignin	1.14.99.54;AA16	3.2.1.22;GH27	GENERAL;CE16	1.1.3.*;AA5
GENERAL;AA5	Lignin	3.2.1.4;GH0	GENERAL;GH28	3.1.1.6;CE16	1.1.3.9;AA5
1.1.3.*;AA5	Lignin	3.2.1.21;GH0	3.2.1.15;GH28	3.2.1.37;GH1	1.2.3.15;AA5
1.1.3.9;AA5	Lignin	3.2.1.21;GH1	3.2.1.40;GH28	3.2.1.31;GH2	1.1.3.13;AA5
1.2.3.15;AA5	Lignin	3.2.1.*;GH1	3.2.1.67;GH28	3.2.1.55;GH2	GENERAL;AA6
1.1.3.13;AA5	Lignin	3.2.1.21;GH3	3.2.1.82;GH28	3.2.1.37;GH2	1.6.5.6;AA6
GENERAL;AA6	Lignin	3.2.1.74;GH3	3.2.1.171;GH28	3.2.1.37;GH3	GENERAL;AA8
1.6.5.6;AA6	Lignin	3.2.1.4;GH5	3.2.1.173;GH28	3.2.1.55;GH3	GENERAL;AA9
GENERAL;AA8	Lignin	3.2.1.21;GH5	3.2.1.*;GH28	3.2.1.8;GH5	1.14.99.54;AA9
GENERAL;AA9	Cellulose;Lignin	3.2.1.74;GH5	3.2.1.164;GH30	3.2.1.8;GH8	1.14.99.56;AA9

1.14.99.54;AA9	Cellulose;Lignin	3.2.1.91;GH5	3.2.1.*;GH33	3.2.1.156;GH8
1.14.99.56;AA9	Cellulose;Lignin	GENERAL;GH6	3.2.1.23;GH35	3.2.1.8;GH10
GENERAL;AA10	Cellulose	3.2.1.4;GH6	3.2.1.*;GH35	3.2.1.32;GH10
1.14.99.54;AA10	Cellulose	3.2.1.91;GH6	3.2.1.23;GH42	2.4.2.*;GH10
1.14.99.56;AA10	Cellulose	3.2.1.4;GH7	3.2.1.*;GH42	GENERAL;GH11
1.14.99.53;AA10	Cellulose	3.2.1.176;GH7	3.2.1.55;GH43	3.2.1.8;GH11
GENERAL;AA14	Xylan	3.2.1.4;GH8	3.2.1.*;GH43	3.2.1.32;GH11
1.*.*.*;AA14	Xylan	3.2.1.4;GH9	3.2.1.99;GH43	3.2.1.32;GH26
GENERAL;AA15	Cellulose	3.2.1.21;GH9	3.2.1.145;GH43	3.2.1.8;GH30
1.14.99.54;AA15	Cellulose	3.2.1.73;GH9	3.2.1.55;GH51	3.2.1.37;GH30
GENERAL;AA16	Cellulose	3.2.1.74;GH9	GENERAL;GH53	3.2.1.136;GH30
1.14.99.54;AA16	Cellulose	3.2.1.91;GH9	3.2.1.89;GH53	3.2.1.*;GH30
3.1.1.11;CE0	Pectin	3.2.1.4;GH10	3.2.1.55;GH54	3.2.1.177;GH31
3.1.1.72;CE1	Xylan	3.2.1.4;GH12	3.2.1.23;GH59	3.2.1.37;GH39
GENERAL;CE2	Xylan	3.2.1.21;GH30	3.2.1.55;GH62	3.2.1.37;GH43
3.1.1.72;CE2	Xylan	3.2.1.4;GH44	GENERAL;GH78	3.2.1.55;GH43
GENERAL;CE3	Xylan	3.2.1.4;GH45	3.2.1.40;GH78	3.2.1.8;GH43
3.1.1.72;CE3	Xylan	3.2.1.176;GH48	3.2.1.174;GH78	3.2.1.*;GH43
3.1.1.72;CE4	Xylan	3.2.1.4;GH48	3.2.1.*;GH78	GENERAL;GH51
3.1.1.72;CE5	Xylan	3.2.1.4;GH51	GENERAL;GH93	3.2.1.8;GH51
GENERAL;CE6	Xylan	3.2.1.4;GH74	3.2.1.*;GH93	3.2.1.37;GH51
3.1.1.72;CE6	Xylan	3.2.1.21;GH116	3.2.1.*;GH95	3.2.1.55;GH51
GENERAL;CE7	Xylan	GENERAL;GH124	3.2.1.172;GH105	GENERAL;GH52
3.1.1.72;CE7	Xylan	3.2.1.4;GH124	3.2.1.*;GH105	3.2.1.37;GH52
GENERAL;CE8	Pectin		GENERAL;GH106	GENERAL;GH54
3.1.1.11;CE8	Pectin		3.2.1.40;GH106	3.2.1.55;GH54
3.1.1.*;CE12	Pectin		3.2.1.174;GH106	3.2.1.37;GH54
3.1.1.72;CE12	Xylan		3.2.1.185;GH127	GENERAL;GH62
GENERAL;CE13	Pectin		3.2.1.*;GH127	3.2.1.55;GH62
3.1.1.*;CE13	Pectin		3.2.1.185;GH137	GENERAL;GH67
GENERAL;CE15	Xylan		3.2.1.185;GH137	3.2.1.139;GH67

3.1.1.*;CE15	Xylan	GENERAL;GH138	3.2.1.131;GH67
GENERAL;CE16	Xylan	3.2.1.173;GH138	3.2.1.8;GH98
3.1.1.6;CE16	Xylan	GENERAL;GH139	GENERAL;GH115
3.2.1.23;GH0	Pectin	3.2.1.*;GH139	3.2.1.131;GH115
3.2.1.4;GH0	Cellulose	GENERAL;GH140	3.2.1.*;GH115
3.2.1.21;GH0	Cellulose	3.2.1.*;GH140	3.2.1.37;GH116
3.2.1.21;GH1	Cellulose	3.2.1.51;GH141	GENERAL;GH120
3.2.1.23;GH1	Pectin	GENERAL;GH142	3.2.1.37;GH120
3.2.1.37;GH1	Xylan	3.2.1.185;GH142	3.2.1.8;GH141
3.2.1.*;GH1	Cellulose	GENERAL;GH143	
3.2.1.23;GH2	Pectin	3.2.1.*;GH143	
3.2.1.31;GH2	Xylan	GENERAL;GH145	
3.2.1.31;GH2	Pectin	3.2.1.*;GH145	
3.2.1.55;GH2	Xylan	GENERAL;GH146	
3.2.1.55;GH2	Pectin	3.2.1.185;GH146	
3.2.1.*;GH2	Pectin	3.2.1.185;GH146	
3.2.1.*;GH2	Pectin	GENERAL;GH147	
3.2.1.37;GH2	Xylan	3.2.1.23;GH147	
3.2.1.21;GH3	Cellulose	GENERAL;GH160	
3.2.1.37;GH3	Xylan	3.2.1.*;GH160	
3.2.1.55;GH3	Xylan	GENERAL;GH165	
3.2.1.55;GH3	Pectin	3.2.1.23;GH165	
3.2.1.74;GH3	Cellulose	GENERAL;PL1	
3.2.1.4;GH5	Cellulose	4.2.2.2;PL1	
3.2.1.8;GH5	Xylan	4.2.2.9;PL1	
3.2.1.21;GH5	Cellulose	4.2.2.10;PL1	
3.2.1.74;GH5	Cellulose	GENERAL;PL2	
3.2.1.91;GH5	Cellulose	4.2.2.2;PL2	
3.2.1.164;GH5	Pectin	4.2.2.9;PL2	
GENERAL;GH6	Cellulose	GENERAL;PL3	
3.2.1.4;GH6	Cellulose	4.2.2.2;PL3	

3.2.1.91;GH6	Cellulose	GENERAL;PL4
3.2.1.4;GH7	Cellulose	4.2.2.23;PL4
3.2.1.176;GH7	Cellulose	GENERAL;PL9
3.2.1.4;GH8	Cellulose	4.2.2.2;PL9
3.2.1.8;GH8	Xylan	4.2.2.9;PL9
3.2.1.156;GH8	Xylan	4.2.2.23;PL9
3.2.1.4;GH9	Cellulose	GENERAL;PL10
3.2.1.21;GH9	Cellulose	4.2.2.2;PL10
3.2.1.73;GH9	Cellulose	GENERAL;PL11
3.2.1.74;GH9	Cellulose	4.2.2.23;PL11
3.2.1.91;GH9	Cellulose	4.2.2.24;PL11
3.2.1.8;GH10	Xylan	GENERAL;PL22
3.2.1.32;GH10	Xylan	4.2.2.6;PL22
2.4.2.*;GH10	Xylan	GENERAL;PL26
3.2.1.4;GH10	Cellulose	4.2.2.24;PL26
GENERAL;GH11	Xylan	GENERAL;PL27
3.2.1.8;GH11	Xylan	4.2.2.*;PL27
3.2.1.32;GH11	Xylan	
3.2.1.4;GH12	Cellulose	
3.2.1.181;GH16	Pectin	
3.2.1.32;GH26	Xylan	
3.2.1.22;GH27	Pectin	
GENERAL;GH28	Pectin	
3.2.1.15;GH28	Pectin	
3.2.1.40;GH28	Pectin	
3.2.1.67;GH28	Pectin	
3.2.1.82;GH28	Pectin	
3.2.1.171;GH28	Pectin	
3.2.1.173;GH28	Pectin	
3.2.1.*;GH28	Pectin	
3.2.1.8;GH30	Xylan	

3.2.1.21;GH30	Cellulose
3.2.1.37;GH30	Xylan
3.2.1.136;GH30	Xylan
3.2.1.164;GH30	Pectin
3.2.1.*;GH30	Xylan
3.2.1.177;GH31	Xylan
3.2.1.*;GH33	Pectin
3.2.1.23;GH35	Pectin
3.2.1.*;GH35	Pectin
3.2.1.37;GH39	Xylan
3.2.1.23;GH42	Pectin
3.2.1.*;GH42	Pectin
3.2.1.37;GH43	Xylan
3.2.1.55;GH43	Pectin
3.2.1.55;GH43	Xylan
3.2.1.8;GH43	Xylan
3.2.1.*;GH43	Xylan
3.2.1.*;GH43	Pectin
3.2.1.99;GH43	Pectin
3.2.1.145;GH43	Pectin
3.2.1.4;GH44	Cellulose
3.2.1.4;GH45	Cellulose
3.2.1.176;GH48	Cellulose
3.2.1.4;GH48	Cellulose
GENERAL;GH51	Xylan
3.2.1.4;GH51	Cellulose
3.2.1.8;GH51	Xylan
3.2.1.37;GH51	Xylan
3.2.1.55;GH51	Xylan
3.2.1.55;GH51	Pectin
GENERAL;GH52	Xylan

3.2.1.37;GH52	Xylan
GENERAL;GH53	Pectin
3.2.1.89;GH53	Pectin
GENERAL;GH54	Xylan
3.2.1.55;GH54	Xylan
3.2.1.55;GH54	Pectin
3.2.1.37;GH54	Xylan
3.2.1.23;GH59	Pectin
GENERAL;GH62	Xylan
3.2.1.55;GH62	Xylan
3.2.1.55;GH62	Pectin
GENERAL;GH67	Xylan
3.2.1.139;GH67	Xylan
3.2.1.131;GH67	Xylan
3.2.1.4;GH74	Cellulose
GENERAL;GH78	Pectin
3.2.1.40;GH78	Pectin
3.2.1.174;GH78	Pectin
3.2.1.*;GH78	Pectin
GENERAL;GH93	Pectin
3.2.1.*;GH93	Pectin
3.2.1.*;GH95	Pectin
3.2.1.8;GH98	Xylan
3.2.1.172;GH105	Pectin
3.2.1.*;GH105	Pectin
GENERAL;GH106	Pectin
3.2.1.40;GH106	Pectin
3.2.1.174;GH106	Pectin
GENERAL;GH115	Xylan
3.2.1.131;GH115	Xylan
3.2.1.*;GH115	Xylan

3.2.1.21;GH116	Cellulose
3.2.1.37;GH116	Xylan
GENERAL;GH120	Xylan
3.2.1.37;GH120	Xylan
GENERAL;GH124	Cellulose
3.2.1.4;GH124	Cellulose
3.2.1.185;GH127	Pectin
3.2.1.*;GH127	Pectin
3.2.1.185;GH137	Pectin
3.2.1.185;GH137	Pectin
GENERAL;GH138	Pectin
3.2.1.173;GH138	Pectin
GENERAL;GH139	Pectin
3.2.1.*;GH139	Pectin
GENERAL;GH140	Pectin
3.2.1.*;GH140	Pectin
3.2.1.51;GH141	Pectin
3.2.1.8;GH141	Xylan
GENERAL;GH142	Pectin
3.2.1.185;GH142	Pectin
GENERAL;GH143	Pectin
3.2.1.*;GH143	Pectin
GENERAL;GH145	Pectin
3.2.1.*;GH145	Pectin
GENERAL;GH146	Pectin
3.2.1.185;GH146	Pectin
3.2.1.185;GH146	Pectin
GENERAL;GH147	Pectin
3.2.1.23;GH147	Pectin
GENERAL;GH160	Pectin
3.2.1.*;GH160	Pectin

GENERAL;GH165	Pectin
3.2.1.23;GH165	Pectin
GENERAL;PL1	Pectin
4.2.2.2;PL1	Pectin
4.2.2.9;PL1	Pectin
4.2.2.10;PL1	Pectin
GENERAL;PL2	Pectin
4.2.2.2;PL2	Pectin
4.2.2.9;PL2	Pectin
GENERAL;PL3	Pectin
4.2.2.2;PL3	Pectin
GENERAL;PL4	Pectin
4.2.2.23;PL4	Pectin
GENERAL;PL9	Pectin
4.2.2.2;PL9	Pectin
4.2.2.9;PL9	Pectin
4.2.2.23;PL9	Pectin
GENERAL;PL10	Pectin
4.2.2.2;PL10	Pectin
GENERAL;PL11	Pectin
4.2.2.23;PL11	Pectin
4.2.2.24;PL11	Pectin
GENERAL;PL22	Pectin
4.2.2.6;PL22	Pectin
GENERAL;PL26	Pectin
4.2.2.24;PL26	Pectin
GENERAL;PL27	Pectin
4.2.2.*;PL27	Pectin