The genome of Laccaria bicolor provides insights into m

Nature

452, 88-92

DOI: 10.1038/nature06556

Citation Report

#	Article	IF	Citations
1	Dissecting the Rhizosphere complexity: The truffle-ground study case. Rendiconti Lincei, 2008, 19, 241-259.	2.2	12
2	Signaling in Plant Disease Resistance and Symbiosis. Journal of Integrative Plant Biology, 2008, 50, 799-807.	8.5	37
3	Fungal symbiosis unearthed. Nature, 2008, 452, 42-43.	27.8	11
4	How does your quasicrystal grow?. Nature, 2008, 452, 43-44.	27.8	33
5	Genomic adaptation: a fungal perspective. Nature Reviews Microbiology, 2008, 6, 572-573.	28.6	6
6	Comparison of the thiolâ€dependent antioxidant systems in the ectomycorrhizal <i>Laccaria bicolor</i> and the saprotrophic <i>Phanerochaete chrysosporium</i> . New Phytologist, 2008, 180, 391-407.	7.3	27
7	Gene organization of the mating type regions in the ectomycorrhizal fungus <i>Laccaria bicolor</i> reveals distinct evolution between the two mating type loci. New Phytologist, 2008, 180, 329-342.	7.3	59
8	The sugar porter gene family of <i>Laccaria bicolor</i> : function in ectomycorrhizal symbiosis and soilâ€growing hyphae. New Phytologist, 2008, 180, 365-378.	7.3	55
9	A gene repertoire for nitrogen transporters in <i>Laccaria bicolor</i> . New Phytologist, 2008, 180, 343-364.	7.3	73
10	The major pathways of carbohydrate metabolism in the ectomycorrhizal basidiomycete <i>Laccaria bicolor</i> S238N. New Phytologist, 2008, 180, 379-390.	7.3	65
11	Introduction to a <i>Virtual Special Issue</i> on plant ecological strategy axes in leaf and wood traits. New Phytologist, 2008, 179, 901-903.	7.3	15
13	Transpiration: how many functions?. New Phytologist, 2008, 179, 905-907.	7.3	13
14	Living with salinity. New Phytologist, 2008, 179, 903-905.	7.3	32
15	The <i>Laccaria</i> genome: a symbiont blueprint decoded. New Phytologist, 2008, 180, 296-310.	7.3	92
16	A genetic linkage map for the ectomycorrhizal fungus <i>Laccaria bicolor</i> and its alignment to the wholeâ€genome sequence assemblies. New Phytologist, 2008, 180, 316-328.	7.3	32
17	Growth on nitrate and occurrence of nitrate reductaseâ€encoding genes in a phylogenetically diverse range of ectomycorrhizal fungi. New Phytologist, 2008, 180, 875-889.	7.3	98
18	Unwrapping the <i>Laccaria</i> genome. New Phytologist, 2008, 180, 259-260.	7.3	0
19	Ectomycorrhizal fungi from Alaska and Pennsylvania: adaptation of mycelial respiratory response to temperature?. New Phytologist, 2008, 180, 741-744.	7.3	13

#	Article	IF	Citations
20	An increasingly scented world. New Phytologist, 2008, 180, 735-738.	7.3	17
23	Getting sick may help plants overcome abiotic stress. New Phytologist, 2008, 180, 738-741.	7.3	45
24	Evidence from population genetics that the ectomycorrhizal basidiomycete <i>Laccaria amethystina</i> is an actual multihost symbiont. Molecular Ecology, 2008, 17, 2825-2838.	3.9	64
25	Fungal cytochrome P450 database. BMC Genomics, 2008, 9, 402.	2.8	134
26	SNUGB: a versatile genome browser supporting comparative and functional fungal genomics. BMC Genomics, 2008, 9, 586.	2.8	17
27	Evolutionary Biology: Microsporidia Sex — A Missing Link to Fungi. Current Biology, 2008, 18, R1012-R1014.	3.9	11
28	Tâ€DNA insertion, plasmid rescue and integration analysis in the model mycorrhizal fungus <i>Laccaria bicolor</i> . Microbial Biotechnology, 2008, 1, 258-269.	4.2	38
29	Plant immune responses triggered by beneficial microbes. Current Opinion in Plant Biology, 2008, 11, 443-448.	7.1	755
30	Genomes, free radicals and plant cell invasion: recent developments in plant pathogenic fungi. Current Opinion in Plant Biology, 2008, 11, 367-372.	7.1	15
31	Mycological Research News. Mycological Research, 2008, 112, 1385-1386.	2.5	0
33	The genome sequence of Podospora anserina, a classic model fungus. Genome Biology, 2008, 9, 223.	9.6	9
34	Modelling, Computation and Optimization in Information Systems and Management Sciences. Communications in Computer and Information Science, 2008, , .	0.5	3
35	Orchestration of sexual reproduction and virulence by the fungal mating-type locus. Current Opinion in Microbiology, 2008, 11, 517-524.	5.1	66
36	Extending Genomics to Natural Communities and Ecosystems. Science, 2008, 320, 492-495.	12.6	189
37	Sex in smut fungi: Structure, function and evolution of mating-type complexes. Fungal Genetics and Biology, 2008, 45, S15-S21.	2.1	116
38	Comparative genomics of the oxidative phosphorylation system in fungi. Fungal Genetics and Biology, 2008, 45, 1248-1256.	2.1	28
39	Characterization of the atromentin biosynthesis genes and enzymes in the homobasidiomycete Tapinella panuoides. Fungal Genetics and Biology, 2008, 45, 1487-1496.	2.1	63
40	Gene Transcription in <i>Lactarius quietus</i> - <i>Quercus petraea</i> Ectomycorrhizas from a Forest Soil. Applied and Environmental Microbiology, 2008, 74, 6598-6605.	3.1	23

#	Article	IF	Citations
41	Ribosomal DNA intergenic spacer of indoor wood-decay fungi. Holzforschung, 2008, 62, .	1.9	4
42	New records and within-species variability of Iberian tardigrades (Tardigrada), with comments on the species from the Echiniscus blumi-canadensis series. Zootaxa, 2008, 1757, 1.	0.5	45
43	Diminished Exoproteome of <i>Frankia</i> spp. in Culture and Symbiosis. Applied and Environmental Microbiology, 2009, 75, 6721-6728.	3.1	41
44	Trypsin-specific inhibitors from the basidiomycete Clitocybe nebularis with regulatory and defensive functions. Microbiology (United Kingdom), 2009, 155, 3971-3981.	1.8	39
45	Communication and Signaling in the Plant–Fungus Symbiosis: The Mycorrhiza. Signaling and Communication in Plants, 2009, , 45-71.	0.7	10
46	The Ectomycorrhizal Fungus <i>Laccaria bicolor</i> Stimulates Lateral Root Formation in Poplar and Arabidopsis through Auxin Transport and Signaling. Plant Physiology, 2009, 151, 1991-2005.	4.8	244
47	Telomere Organization in the Ligninolytic Basidiomycete <i>Pleurotus ostreatus</i> Applied and Environmental Microbiology, 2009, 75, 1427-1436.	3.1	25
48	A novel oxygenase from Pleurotus sapidus transforms valencene to nootkatone. Journal of Molecular Catalysis B: Enzymatic, 2009, 61, 202-207.	1.8	70
49	Genomic structure of the A mating-type locus in a bipolar basidiomycete, Pholiota nameko. Mycological Research, 2009, 113, 240-248.	2.5	28
50	Molecular characterization and enzymatic activity of laccases in two Pleurotus spp. with different pathogenic behaviour. Mycological Research, 2009, 113, 381-387.	2.5	11
51	Identification of heavy metal regulated genes from the root associated ascomycete Cadophora finlandica using a genomic microarray. Mycological Research, 2009, 113, 1377-1388.	2.5	39
52	Harnessing ectomycorrhizal genomics for ecological insights. Current Opinion in Plant Biology, 2009, 12, 508-515.	7.1	100
53	Potential for monoterpenes to affect ectomycorrhizal and saprotrophic fungal activity in coniferous forests is revealed by novel experimental system. Soil Biology and Biochemistry, 2009, 41, 117-124.	8.8	12
54	Mycorrhizal communities in relation to biomass production and nutrient use efficiency in two varieties of Douglas fir (Pseudotsuga menziesii var. menziesii and var. glauca) in different forest soils. Soil Biology and Biochemistry, 2009, 41, 742-753.	8.8	23
55	Tree girdling provides insight on the role of labile carbon in nitrogen partitioning between soil microorganisms and adult European beech. Soil Biology and Biochemistry, 2009, 41, 1622-1631.	8.8	167
56	Evolutionary flexibility of protein complexes. BMC Evolutionary Biology, 2009, 9, 155.	3.2	9
57	Development and validation of an oligonucleotide microarray to characterise ectomycorrhizal fungal communities. BMC Microbiology, 2009, 9, 241.	3.3	11
58	Genomics of plantâ€associated microbes. Microbial Biotechnology, 2009, 2, 406-411.	4.2	1

#	ARTICLE	IF	Citations
59	Hunting down fungal secretomes using liquidâ€phase IEF prior to high resolution 2â€DE. Electrophoresis, 2009, 30, 4118-4136.	2.4	31
60	Does forest liming impact the enzymatic profiles of ectomycorrhizal communities through specialized fungal symbionts?. Mycorrhiza, 2009, 19, 493-500.	2.8	45
61	Variation in host specificity and gene content in strains from genetically isolated lineages of the ectomycorrhizal fungus Paxillus involutus s. lat Mycorrhiza, 2009, 19, 549-558.	2.8	14
62	Relative importance of tree genetics and microhabitat on macrofungal biodiversity on coarse woody debris. Oecologia, 2009, 160, 335-342.	2.0	6
63	The rhizosphere zoo: An overview of plant-associated communities of microorganisms, including phages, bacteria, archaea, and fungi, and of some of their structuring factors. Plant and Soil, 2009, 321, 189-212.	3.7	405
64	The fungal glutathione S-transferase system. Evidence of new classes in the wood-degrading basidiomycete Phanerochaete chrysosporium. Cellular and Molecular Life Sciences, 2009, 66, 3711-3725.	5.4	81
65	Characterization and mRNA expression profile of the TbNre1 gene of the ectomycorrhizal fungus Tuber borchii. Current Genetics, 2009, 55, 59-68.	1.7	7
66	The dominant Hc.Sdh R carboxin-resistance gene of the ectomycorrhizal fungus Hebeloma cylindrosporum as a selectable marker for transformation. Current Genetics, 2009, 55, 223-231.	1.7	12
67	Inter-kingdom encounters: recent advances in molecular bacterium–fungus interactions. Current Genetics, 2009, 55, 233-243.	1.7	95
68	Two differentially regulated phosphate transporters from the symbiotic fungus <i>Hebeloma cylindrosporum</i> and phosphorus acquisition by ectomycorrhizal <i>Pinus pinaster</i> Plant Journal, 2009, 57, 1092-1102.	5.7	75
69	Fungal effector proteins: past, present and future. Molecular Plant Pathology, 2009, 10, 735-747.	4.2	264
70	The host transcriptome remains unaltered during the establishment of coral–algal symbioses. Molecular Ecology, 2009, 18, 1823-1833.	3.9	130
71	Diversity of sesquiterpene synthases in the basidiomycete <i>Coprinus cinereus</i> Microbiology, 2009, 72, 1181-1195.	2.5	154
72	Microbial diversity in alpine tundra soils correlates with snow cover dynamics. ISME Journal, 2009, 3, 850-859.	9.8	101
73	ClassII peroxidase-encoding genes are present in a phylogenetically wide range of ectomycorrhizal fungi. ISME Journal, 2009, 3, 1387-1395.	9.8	160
74	Macrocypins, a family of cysteine protease inhibitors from the basidiomycete <i>Macrolepiotaâ€∫procera</i> . FEBS Journal, 2009, 276, 4334-4345.	4.7	44
75	Spatial distribution of sporocarps of stipitate hydnoid fungi and their belowground mycelium. FEMS Microbiology Ecology, 2009, 69, 344-352.	2.7	24
76	Nitrogen balance in forest soils: nutritional limitation of plants under climate change stresses. Plant Biology, 2009, 11, 4-23.	3.8	233

#	ARTICLE	IF	CITATIONS
77	RNA silencing in the model mycorrhizal fungus <i>Laccaria bicolor</i> : gene knockâ€down of nitrate reductase results in inhibition of symbiosis with <i>Populus</i> : Environmental Microbiology, 2009, 11, 1878-1896.	3.8	68
78	A pH signaling mechanism involved in the spatial distribution of calcium and anion fluxes in ectomycorrhizal roots. New Phytologist, 2009, 181, 448-462.	7.3	25
79	Phylogenetic analysis, genomic organization, and expression analysis of multiâ€copper oxidases in the ectomycorrhizal basidiomycete ⟨i⟩Laccaria bicolor⟨ i⟩. New Phytologist, 2009, 182, 736-750.	7.3	93
80	Fatty acid metabolism in the ectomycorrhizal fungus <i>Laccaria bicolor</i> . New Phytologist, 2009, 182, 950-964.	7.3	30
81	Expansion of signal pathways in the ectomycorrhizal fungus ⟨i⟩Laccaria bicolor⟨ i⟩– evolution of nucleotide sequences and expression patterns in families of protein kinases and RAS small GTPases. New Phytologist, 2009, 183, 365-379.	7.3	19
82	Dynamic carbon transfer during pathogenesis of sunflower by the necrotrophic fungus <i>Botrytis cinerea</i> : from plant hexoses to mannitol. New Phytologist, 2009, 183, 1149-1162.	7.3	61
83	Pyranose 2-oxidase from Phanerochaete chrysosporiumâ€"Expression in E. coli and biochemical characterization. Journal of Biotechnology, 2009, 142, 97-106.	3.8	34
84	Plants, Mycorrhizal Fungi, and Bacteria: A Network of Interactions. Annual Review of Microbiology, 2009, 63, 363-383.	7.3	699
85	Upgrading Root Physiology for Stress Tolerance by Ectomycorrhizas: Insights from Metabolite and Transcriptional Profiling into Reprogramming for Stress Anticipation. Plant Physiology, 2009, 151, 1902-1917.	4.8	186
86	Post-genomic insights into the plant polysaccharide degradation potential of Aspergillus nidulans and comparison to Aspergillus niger and Aspergillus oryzae. Fungal Genetics and Biology, 2009, 46, S161-S169.	2.1	133
87	Reduced genomic potential for secreted plant cell-wall-degrading enzymes in the ectomycorrhizal fungus Amanita bisporigera, based on the secretome of Trichoderma reesei. Fungal Genetics and Biology, 2009, 46, 427-435.	2.1	129
88	Emerging Concepts in Effector Biology of Plant-Associated Organisms. Molecular Plant-Microbe Interactions, 2009, 22, 115-122.	2.6	631
89	Analysis of Mycorrhizal Functioning Using Transcriptomics. , 2009, , 47-60.		1
90	Chapter 3 Genome Evolution in Plant Pathogenic and Symbiotic Fungi. Advances in Botanical Research, 2009, , 151-193.	1.1	21
91	Mycorrhizas - Functional Processes and Ecological Impact. , 2009, , .		28
92	Poplar and Pathogen Interactions: Insights from <i>Populus </i> Genome-Wide Analyses of Resistance and Defense Gene Families and Gene Expression Profiling. Critical Reviews in Plant Sciences, 2009, 28, 309-334.	5.7	97
93	Formal Concept Analysis. Lecture Notes in Computer Science, 2009, , .	1.3	8
94	The Ectomycorrhizal Symbiosis: a Marriage of Convenience. , 2009, , 237-257.		9

#	ARTICLE	IF	CITATIONS
96	<i>Populus</i> Rhizosphere and the Ectomycorrhizal Interactome. Critical Reviews in Plant Sciences, 2009, 28, 359-367.	5.7	26
97	Poplar Genomics: State of the Science. Critical Reviews in Plant Sciences, 2009, 28, 285-308.	5.7	42
98	<i>Ustilago maydis</i> as a Pathogen. Annual Review of Phytopathology, 2009, 47, 423-445.	7.8	314
99	Catalytic Core of a Membrane-Associated Eukaryotic Polyphosphate Polymerase. Science, 2009, 324, 513-516.	12.6	264
100	Evaluation of mitochondrial genes as DNA barcode for Basidiomycota. Molecular Ecology Resources, 2009, 9, 99-113.	4.8	91
101	fHANTâ€AC genes of the ectomycorrhizal fungus <i>Laccaria bicolor</i> are not repressed by <scp>l</scp> â€glutamine allowing simultaneous utilization of nitrate and organic nitrogen sources. Environmental Microbiology Reports, 2010, 2, 541-553.	2.4	13
102	A geographic mosaic of genetic variation within a foundation tree species and its community-level consequences. Ecology, 2009, 90, 1762-1772.	3.2	125
103	SOD1-Targeted Gene Disruption in the Ericoid Mycorrhizal Fungus <i>Oidiodendron maius</i> Reduces Conidiation and the Capacity for Mycorrhization. Molecular Plant-Microbe Interactions, 2009, 22, 1412-1421.	2.6	47
104	Erl1, a Novel Era-Like GTPase from <i>Magnaporthe oryzae</i> , Is Required for Full Root Virulence and Is Conserved in the Mutualistic Symbiont <i>Glomus intraradices</i> . Molecular Plant-Microbe Interactions, 2010, 23, 67-81.	2.6	29
105	Mechanisms underlying beneficial plant–fungus interactions in mycorrhizal symbiosis. Nature Communications, 2010, 1, 48.	12.8	990
106	Potassium and sodium transport in non-animal cells: the Trk/Ktr/HKT transporter family. Cellular and Molecular Life Sciences, 2010, 67, 2511-2532.	5.4	215
107	Genes Acquired by Horizontal Transfer Are Potentially Involved in the Evolution of Phytopathogenicity in Moniliophthora perniciosa and Moniliophthora roreri, Two of the Major Pathogens of Cacao. Journal of Molecular Evolution, 2010, 70, 85-97.	1.8	34
108	New and classic families of secreted fungal heme peroxidases. Applied Microbiology and Biotechnology, 2010, 87, 871-897.	3.6	490
109	Oxalate decarboxylase: biotechnological update and prevalence of the enzyme in filamentous fungi. Applied Microbiology and Biotechnology, 2010, 87, 801-814.	3.6	76
110	Ectomycorrhiza formation and willow growth promotion as affected by associated bacteria: role of microbial metabolites and use of C sources. Biology and Fertility of Soils, 2010, 46, 139-150.	<b>4.</b> 3	19
111	Protein expression during Flammulina velutipes fruiting body formation. Mycoscience, 2010, 51, 163-169.	0.8	8
112	Identification of differentially expressed genes of the fungus Hydnangium sp. during the pre-symbiotic phase of the ectomycorrhizal association with Eucalyptus grandis. Mycorrhiza, 2010, 20, 531-540.	2.8	23
114	A 60-year journey of mycorrhizal research in China: Past, present and future directions. Science China Life Sciences, 2010, 53, 1374-1398.	4.9	14

#	Article	IF	Citations
115	Simulating mycorrhiza contribution to forest C- and N cycling-the MYCOFON model. Plant and Soil, 2010, 327, 493-517.	3.7	45
116	Laccaria bicolor S238N improves Scots pine mineral nutrition by increasing root nutrient uptake from soil minerals but does not increase mineral weathering. Plant and Soil, 2010, 328, 145-154.	3.7	14
117	Identification and characterization of CcCTR1, a copper uptake transporter-like gene, in Coprinopsis cinerea. Microbiological Research, 2010, 165, 276-287.	5.3	6
118	The role of ectomycorrhizal communities in forest ecosystem processes: New perspectives and emerging concepts. Soil Biology and Biochemistry, 2010, 42, 679-698.	8.8	412
119	Fungal Secretome Database: Integrated platform for annotation of fungal secretomes. BMC Genomics, 2010, 11, 105.	2.8	160
120	Comparative analysis of fungal protein kinases and associated domains. BMC Genomics, 2010, 11, 133.	2.8	43
121	Comparative analysis of secreted protein evolution using expressed sequence tags from four poplar leaf rusts (Melampsora spp.). BMC Genomics, 2010, 11, 422.	2.8	59
122	FONZIE: An optimized pipeline for minisatellite marker discovery and primer design from large sequence data sets. BMC Research Notes, 2010, 3, 322.	1.4	10
123	pHg/pSILBAγ vector system for efficient gene silencing in homobasidiomycetes: optimization of ihpRNA – triggering in the mycorrhizal fungus <i>Laccaria bicolor</i> . Microbial Biotechnology, 2010, 3, 178-200.	4.2	38
124	Ligninâ€modifying enzymes in filamentous basidiomycetes – ecological, functional and phylogenetic review. Journal of Basic Microbiology, 2010, 50, 5-20.	3.3	367
125	The <i>Sphagnum</i> airâ€gun mechanism resurrected. New Phytologist, 2010, 185, 886-889.	7.3	11
126	An efficient procedure for normalizing ionomics data for <i>Arabidopsis thaliana</i> Phytologist, 2010, 186, 270-274.	7.3	18
127	Not every fungus is everywhere: scaling to the biogeography of fungal–plant interactions across roots, shoots and ecosystems. New Phytologist, 2010, 185, 878-882.	7.3	128
128	The UNITE database for molecular identification of fungi – recent updates and future perspectives. New Phytologist, 2010, 186, 281-285.	7.3	1,563
129	Can water droplets on leaves cause leaf scorch?. New Phytologist, 2010, 185, 865-867.	7.3	30
130	Physiological mechanisms of droughtâ€induced tree mortality are far from being resolved. New Phytologist, 2010, 186, 274-281.	7.3	535
131	Polyphosphate has a central role in the rapid and massive accumulation of phosphorus in extraradical mycelium of an arbuscular mycorrhizal fungus. New Phytologist, 2010, 186, 285-289.	7.3	86
132	The <i>Sphagnum</i> airâ€gun mechanism resurrected? Not with a closer look. New Phytologist, 2010, 185, 889-891.	7.3	3

#	ARTICLE	IF	CITATIONS
133	Ethylene – a key arbitrator to plant–fungal symbiotic interactions?. New Phytologist, 2010, 185, 868-871.	7.3	5
134	Interwoven branches of the plant and fungal trees of life. New Phytologist, 2010, 185, 874-878.	7.3	29
136	Dandelions â€remember' stress: heritable stressâ€induced methylation patterns in asexual dandelions. New Phytologist, 2010, 185, 867-868.	7.3	14
137	Moving from pattern to process in fungal symbioses: linking functional traits, community ecology and phylogenetics. New Phytologist, 2010, 185, 882-886.	7.3	37
138	A glimpse into the past of land plants and of their mycorrhizal affairs: from fossils to evoâ€devo. New Phytologist, 2010, 186, 267-270.	7.3	37
139	The mechanisms of carbon starvation: how, when, or does it even occur at all?. New Phytologist, 2010, 186, 264-266.	7.3	226
142	The <i>New Phytologist</i> Tansley Medal. New Phytologist, 2010, 186, 263-264.	7.3	24
144	Parlezâ€vous effectors?. New Phytologist, 2010, 187, 877-879.	7.3	7
145	A new highly toxic protein isolated from the death cap <i>Amanitaâ€f phalloides</i> is an lâ€amino acid oxidase. FEBS Journal, 2010, 277, 1260-1269.	4.7	14
146	Périgord black truffle genome uncovers evolutionary origins and mechanisms of symbiosis. Nature, 2010, 464, 1033-1038.	27.8	641
147	Genome sequence of the model mushroom Schizophyllum commune. Nature Biotechnology, 2010, 28, 957-963.	17.5	490
148	Integration of molecular functions at the ecosystemic level: breakthroughs and future goals of environmental genomics and postâ€genomics. Ecology Letters, 2010, 13, 776-791.	6.4	35
149	Fungal carbohydrate support in the ectomycorrhizal symbiosis: a review. Plant Biology, 2010, 12, 292-301.	3.8	116
150	Basidiomycete Mating Type Genes and Pheromone Signaling. Eukaryotic Cell, 2010, 9, 847-859.	3.4	159
151	Oxalate Efflux Transporter from the Brown Rot Fungus <i>Fomitopsis palustris</i> Applied and Environmental Microbiology, 2010, 76, 7683-7690.	3.1	32
152	Genomic Analysis of Two-Component Signal Transduction Proteins in Basidiomycetes. Journal of Molecular Microbiology and Biotechnology, 2010, 18, 63-73.	1.0	14
153	Accidental Amplification and Inactivation of a Methyltransferase Gene Eliminates Cytosine Methylation in <i>Mycosphaerella graminicola </i> . Genetics, 2010, 186, 67-77.	2.9	34
154	Signatures of Adaptation to Obligate Biotrophy in the <i>Hyaloperonospora arabidopsidis</i> Genome. Science, 2010, 330, 1549-1551.	12.6	492

#	Article	IF	CITATIONS
155	Mushrooms: Morphological complexity in the fungi. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11655-11656.	7.1	27
156	Characterization of Three <i>mnp</i> Genes of <i>Fomitiporia mediterranea</i> and Report of Additional Class II Peroxidases in the Order Hymenochaetales. Applied and Environmental Microbiology, 2010, 76, 6431-6440.	3.1	32
158	Gopi Krishna Podila. Journal of Plant Interactions, 2010, 5, 159-162.	2.1	0
159	A Novel Lectin with Antiproliferative and HIV-1 Reverse Transcriptase Inhibitory Activities from Dried Fruiting Bodies of the Monkey Head Mushroom <i>Hericium erinaceum</i> ). Journal of Biomedicine and Biotechnology, 2010, 2010, 1-9.	3.0	47
160	Leaf-cutting ant fungi produce cell wall degrading pectinase complexes reminiscent of phytopathogenic fungi. BMC Biology, 2010, 8, 156.	3.8	66
161	Gene knockdown by ihpRNA-triggering in the ectomycorrhizal basidiomycete fungus <i>Laccaria bicolor</i> . Bioengineered Bugs, 2010, 1, 354-358.	1.7	7
162	Mineral Transformations by Mycorrhizal Fungi. Geomicrobiology Journal, 2010, 27, 609-623.	2.0	22
163	Cytotoxic proteins of Amanita virosa Secr. mushroom: Purification, characteristics and action towards mammalian cells. Toxicon, 2010, 55, 1297-1305.	1.6	17
164	Phosphorus nutrition of mycorrhizal trees. Tree Physiology, 2010, 30, 1129-1139.	3.1	237
165	Insights into evolution of multicellular fungi from the assembled chromosomes of the mushroom $\langle i \rangle$ Coprinopsis cinerea $\langle i \rangle$ ( $\langle i \rangle$ Coprinus cinereus $\langle i \rangle$ ). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11889-11894.	7.1	389
166	Local perceptions of Matsutake mushroom management, in NW Yunnan China. Biological Conservation, 2010, 143, 165-172.	4.1	21
167	The Botrytis cinerea aspartic proteinase family. Fungal Genetics and Biology, 2010, 47, 53-65.	2.1	101
168	Controls over mycorrhizal uptake of organic nitrogen. Pedobiologia, 2010, 53, 169-179.	1.2	121
169	The capsid protein of Grapevine rupestris stem pitting-associated virus contains a typical nuclear localization signal and targets to the nucleus. Virus Research, 2010, 153, 212-217.	2.2	12
170	Symbiont genomics, our new tangled bank. Genomics, 2010, 95, 129-137.	2.9	48
171	The <i>Chlorella variabilis</i> NC64A Genome Reveals Adaptation to Photosymbiosis, Coevolution with Viruses, and Cryptic Sex Â. Plant Cell, 2010, 22, 2943-2955.	6.6	441
172	Fungal secondary metabolite biosynthesis – a chemical defence strategy against antagonistic animals?. Fungal Ecology, 2010, 3, 107-114.	1.6	35
173	Genetics and Genomics of Populus. , 2010, , .		28

#	Article	IF	CITATIONS
174	A genetic basis to community repeatability and stability. Ecology, 2010, 91, 3398-3406.	3.2	87
175	Multiple <i>GAL</i> pathway gene clusters evolved independently and by different mechanisms in fungi. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10136-10141.	7.1	144
176	Improving the bioconversion of plant biomass to biofuels: A multidisciplinary approach. Energy and Environmental Science, 2011, 4, 3329.	30.8	7
177	Addressing uncertainty: How to conserve and manage rare or little-known fungi. Fungal Ecology, 2011, 4, 134-146.	1.6	33
178	Trichoderma: the genomics of opportunistic success. Nature Reviews Microbiology, 2011, 9, 749-759.	28.6	814
179	Structure and Expression Profile of the Phosphate Pht1 Transporter Gene Family in Mycorrhizal <i>Populus trichocarpa</i> Â Â. Plant Physiology, 2011, 156, 2141-2154.	4.8	123
180	Epidemiology and Evolution of Fungal Pathogens in Plants and Animals., 2011,, 59-132.		17
181	10 Evolution of Genes for Secondary Metabolism in Fungi. , 2011, , 231-255.		6
183	Obligate biotrophy features unraveled by the genomic analysis of rust fungi. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9166-9171.	7.1	640
184	Comparative genome sequence analysis underscores mycoparasitism as the ancestral life style of Trichoderma. Genome Biology, 2011, 12, R40.	8.8	594
186	Diversity and Biotechnology of Ectomycorrhizae. Soil Biology, 2011, , .	0.8	4
188	Genome-wide inventory of metal homeostasis-related gene products including a functional phytochelatin synthase in the hypogeous mycorrhizal fungus Tuber melanosporum. Fungal Genetics and Biology, 2011, 48, 573-584.	2.1	56
189	Fungal and algal gene expression in early developmental stages of lichen-symbiosis. Mycologia, 2011, 103, 291-306.	1.9	65
190	Tapping Genomics to Unravel Ectomycorrhizal Symbiosis. Methods in Molecular Biology, 2011, 722, 249-281.	0.9	11
191	Intimate Alliances: Plants and their Microsymbionts. Plant Cell, 2011, 23, .	6.6	0
192	Cloning, expression and purification of the anion exchanger 1 homologue from the basidiomycete Phanerochaete chrysosporium. Protein Expression and Purification, 2011, 79, 81-87.	1.3	2
193	Successful joint ventures of plants: arbuscular mycorrhiza and beyond. Trends in Plant Science, 2011, 16, 356-362.	8.8	41
194	Genomeâ€wide analysis of fungal manganese transporters, with an emphasis on <i>Phanerochaete chrysosporium</i> . Environmental Microbiology Reports, 2011, 3, 367-382.	2.4	12

#	Article	IF	CITATIONS
195	Hidden Fungi, Emergent Properties: Endophytes and Microbiomes. Annual Review of Phytopathology, 2011, 49, 291-315.	7.8	753
196	Innovative Biological Solutions to Challenges in Sustainable Biofuels Production. , 0, , .		1
197	Endophytic Life Strategies Decoded by Genome and Transcriptome Analyses of the Mutualistic Root Symbiont Piriformospora indica. PLoS Pathogens, 2011, 7, e1002290.	4.7	361
198	Genome Characterization of the Oleaginous Fungus Mortierella alpina. PLoS ONE, 2011, 6, e28319.	2.5	133
199	LTR Retrotransposons in Fungi. PLoS ONE, 2011, 6, e29425.	2.5	94
201	Transcriptomics., 2011,, 351-385.		1
202	Long-term experimental manipulation of climate alters the ectomycorrhizal community of Betula nana in Arctic tundra. Global Change Biology, 2011, 17, 1625-1636.	9.5	164
203	Transcription factor genes of <i>Schizophyllum commune</i> involved in regulation of mushroom formation. Molecular Microbiology, 2011, 81, 1433-1445.	2.5	127
204	Genomic profiling of carbohydrate metabolism in the ectomycorrhizal fungus <i>Tuber melanosporum</i> . New Phytologist, 2011, 189, 751-764.	7.3	51
205	Genomeâ€wide search and functional identification of transcription factors in the mycorrhizal fungus <i>Tuber melanosporum</i> New Phytologist, 2011, 189, 736-750.	7.3	35
206	Unearthing the truffle genome. New Phytologist, 2011, 189, 645-646.	7.3	12
207	The aquaporin gene family of the ectomycorrhizal fungus <i>Laccaria bicolor</i> : lessons for symbiotic functions. New Phytologist, 2011, 190, 927-940.	7.3	88
208	Sequencing the fungal tree of life. New Phytologist, 2011, 190, 818-821.	7.3	107
209	Fungal proteomics: from identification to function. FEMS Microbiology Letters, 2011, 321, 1-9.	1.8	48
210	Olfactory cues associated with fungal grazing intensity and secondary metabolite pathway modulate Collembola foraging behaviour. Soil Biology and Biochemistry, 2011, 43, 1411-1416.	8.8	41
211	Blurred boundaries: lifestyle lessons from ectomycorrhizal fungal genomes. Trends in Genetics, 2011, 27, 14-22.	6.7	165
212	Pathogenomics of fungal plant parasites: what have we learnt about pathogenesis?. Current Opinion in Plant Biology, 2011, 14, 392-399.	7.1	80
213	Mutualistic interactions on a knife-edge between saprotrophy and pathogenesis. Current Opinion in Plant Biology, 2011, 14, 444-450.	7.1	42

#	Article	IF	CITATIONS
214	A Secreted Effector Protein of Laccaria bicolor Is Required for Symbiosis Development. Current Biology, 2011, 21, 1197-1203.	3.9	447
215	Mycorrhizal Symbioses: How to Be Seen as a Good Fungus. Current Biology, 2011, 21, R550-R552.	3.9	13
216	Identification of quantitative trait loci affecting ectomycorrhizal symbiosis in an interspecific F1 poplar cross and differential expression of genes in ectomycorrhizas of the two parents: Populus deltoides and Populus trichocarpa. Tree Genetics and Genomes, 2011, 7, 617-627.	1.6	48
217	Pectin localization in the Mediterranean orchid Limodorum abortivum reveals modulation of the plant interface in response to different mycorrhizal fungi. Mycorrhiza, 2011, 21, 97-104.	2.8	18
218	Transcriptome analysis by cDNA-AFLP of Suillus luteus Cd-tolerant and Cd-sensitive isolates. Mycorrhiza, 2011, 21, 145-154.	2.8	22
219	Mycorrhizal association between the desert truffle Terfezia boudieri and Helianthemum sessiliflorum alters plant physiology and fitness to arid conditions. Mycorrhiza, 2011, 21, 623-630.	2.8	35
220	A major invasion of transposable elements accounts for the large size of the Blumeria graminis f.sp. tritici genome. Functional and Integrative Genomics, 2011, 11, 671-677.	3.5	50
221	Changes in hyphal morphology and activity of phenoloxidases during interactions between selected ectomycorrhizal fungi and two species of Trichoderma. Antonie Van Leeuwenhoek, 2011, 100, 155-160.	1.7	7
222	Absence of repellents in Ustilago maydis induces genes encoding small secreted proteins. Antonie Van Leeuwenhoek, 2011, 100, 219-229.	1.7	6
223	Survey and analysis of simple sequence repeats in the Laccaria bicolor genome, with development of microsatellite markers. Current Genetics, 2011, 57, 75-88.	1.7	38
224	Proteomics of industrial fungi: trends and insights for biotechnology. Applied Microbiology and Biotechnology, 2011, 89, 225-237.	3.6	53
225	RNAi as a potential tool for biotechnological applications in fungi. Applied Microbiology and Biotechnology, 2011, 89, 501-512.	3.6	61
226	Diversity in phosphorus mobilisation and uptake in ectomycorrhizal fungi. Annals of Forest Science, 2011, 68, 33-43.	2.0	87
227	Using next generation transcriptome sequencing to predict an ectomycorrhizal metabolome. BMC Systems Biology, 2011, 5, 70.	3.0	60
228	Carbohydrate-active enzymes from the zygomycete fungus Rhizopus oryzae: a highly specialized approach to carbohydrate degradation depicted at genome level. BMC Genomics, 2011, 12, 38.	2.8	105
229	Mining gene expression data with pattern structures in formal concept analysis. Information Sciences, 2011, 181, 1989-2001.	6.9	152
230	Transformation of the mycorrhizal fungus <i>Laccaria bicolor</i> li>using <i>Agrobacterium tumefaciens</i> . Bioengineered Bugs, 2011, 2, 38-44.	1.7	12
231	Biological Activity of the <i>Agrobacterium rhizogenes</i> ê"Derived <i>trolC</i> Gene of <i>Nicotiana tabacum</i> and Its Functional Relation to Other <i>plast</i> Genes. Molecular Plant-Microbe Interactions, 2011, 24, 44-53.	2.6	45

#	Article	IF	CITATIONS
232	Primary Structure and Specificity of a New Member of Galectin Family from the Amethyst Deceiver MushroomLaccaria amethystina. Bioscience, Biotechnology and Biochemistry, 2011, 75, 62-69.	1.3	13
233	Abundant Degenerate Miniature Inverted-Repeat Transposable Elements in Genomes of Epichloid Fungal Endophytes of Grasses. Genome Biology and Evolution, 2011, 3, 1253-1264.	2.5	35
234	Curation of characterized glycoside hydrolases of Fungal origin. Database: the Journal of Biological Databases and Curation, 2011, 2011, bar020-bar020.	3.0	97
235	The Poplar-Poplar Rust Interaction: Insights from Genomics and Transcriptomics. Journal of Pathogens, 2011, 2011, 1-11.	1.4	66
236	Post-genomic approaches to understanding interactions between fungi and their environment. IMA Fungus, 2011, 2, 81-86.	3.8	11
237	A Single Mating-Type Locus Composed of Homeodomain Genes Promotes Nuclear Migration and Heterokaryosis in the White-Rot Fungus Phanerochaete chrysosporium. Eukaryotic Cell, 2011, 10, 249-261.	3.4	49
238	The Solute Carrier Families Have a Remarkably Long Evolutionary History with the Majority of the Human Families Present before Divergence of Bilaterian Species. Molecular Biology and Evolution, 2011, 28, 1531-1541.	8.9	182
239	Genomes of obligate plant pathogens reveal adaptations for obligate parasitism. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8921-8922.	7.1	34
240	The Plant Cell Wall–Decomposing Machinery Underlies the Functional Diversity of Forest Fungi. Science, 2011, 333, 762-765.	12.6	512
241	Finished Genome of the Fungal Wheat Pathogen Mycosphaerella graminicola Reveals Dispensome Structure, Chromosome Plasticity, and Stealth Pathogenesis. PLoS Genetics, 2011, 7, e1002070.	3.5	532
242	Fungal and oomycete effectors – strategies to subdue a host. Canadian Journal of Plant Pathology, 2011, 33, 425-446.	1.4	14
243	Effect of poplar genotypes on mycorrhizal infection and secreted enzyme activities in mycorrhizal and non-mycorrhizal roots. Journal of Experimental Botany, 2011, 62, 249-260.	4.8	63
244	Diverse Lifestyles and Strategies of Plant Pathogenesis Encoded in the Genomes of Eighteen Dothideomycetes Fungi. PLoS Pathogens, 2012, 8, e1003037.	4.7	595
245	Role of Mycorrhiza in Re-forestation at Heavy Metal-Contaminated Sites. Soil Biology, 2012, , 183-199.	0.8	3
246	Poplar root exudates contain compounds that induce the expression of MiSSP7 in <i>Laccaria bicolor</i> . Plant Signaling and Behavior, 2012, 7, 12-15.	2.4	43
247	Serpula lacrymans, Wood and Buildings. Advances in Applied Microbiology, 2012, 78, 121-149.	2.4	29
248	l-Amino acid oxidase of the fungus Hebeloma cylindrosporum displays substrate preference towards glutamate. Microbiology (United Kingdom), 2012, 158, 272-283.	1.8	27
249	The Genome Portal of the Department of Energy Joint Genome Institute. Nucleic Acids Research, 2012, 40, D26-D32.	14.5	439

#	Article	IF	CITATIONS
250	A Comprehensive Analysis of Genes Encoding Small Secreted Proteins Identifies Candidate Effectors in <i>Melampsora larici-populina</i> (Poplar Leaf Rust). Molecular Plant-Microbe Interactions, 2012, 25, 279-293.	2.6	150
251	Genome sequence of the button mushroom <i>Agaricus bisporus</i> reveals mechanisms governing adaptation to a humic-rich ecological niche. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17501-17506.	7.1	359
252	Role of the AFRD1-encoded fumarate reductase in hypoxia and osmotolerance in Arxula adeninivorans. FEMS Yeast Research, 2012, 12, 924-937.	2.3	4
253	Novel traits of i>Trichoderma / i> predicted through the analysis of its secretome. FEMS Microbiology Letters, 2012, 337, 1-9.	1.8	106
254	Roadmap for Annotating Transposable Elements in Eukaryote Genomes. Methods in Molecular Biology, 2012, 859, 53-68.	0.9	15
255	Genetic and genomic glimpses of the elusive arbuscular mycorrhizal fungi. Current Opinion in Plant Biology, 2012, 15, 454-461.	7.1	33
256	Communication Between Plant, Ectomycorrhizal Fungi and Helper Bacteria., 2012,, 229-247.		4
257	Signalling in Ectomycorrhizal Symbiosis. Signaling and Communication in Plants, 2012, , 123-142.	0.7	19
258	12 Orchid Mycorrhizas: Molecular Ecology, Physiology, Evolution and Conservation Aspects. , 2012, , 207-230.		174
259	1 Exploring the Genome of Glomeromycotan Fungi. , 2012, , 1-21.		4
260	6 De-Constructing a Mutualist: How the Molecular Blueprints of Model Symbiotic Fungi Are Changing Our Understanding of Mutualism. , 2012, , 93-117.		3
261	Genome mining reveals the evolutionary origin and biosynthetic potential of basidiomycete polyketide synthases. Fungal Genetics and Biology, 2012, 49, 996-1003.	2.1	71
262	Experimental â€~omics' data in tree research: facing complexity. Trees - Structure and Function, 2012, 26, 1723-1735.	1.9	15
263	The ectomycorrhizal fungus Tricholoma matsutake is a facultative saprotroph in vitro. Mycorrhiza, 2012, 22, 409-418.	2.8	28
264	Regulation of genes involved in nitrogen utilization on different C/N ratios and nitrogen sources in the model ectomycorrhizal fungus Hebeloma cylindrosporum. Mycorrhiza, 2012, 22, 515-524.	2.8	11
265	Mitogen-Activated Protein Kinase Signaling in Plant-Interacting Fungi: Distinct Messages from Conserved Messengers. Plant Cell, 2012, 24, 1327-1351.	6.6	294
266	Contributions of genomics to forest pathology. Canadian Journal of Plant Pathology, 2012, 34, 20-28.	1.4	6
267	Genomic perspectives on the evolution of fungal entomopathogenicity in Beauveria bassiana. Scientific Reports, 2012, 2, 483.	3.3	512

#	Article	IF	CITATIONS
268	Secretome of the Free-living Mycelium from the Ectomycorrhizal Basidiomycete <i>Laccaria bicolor</i> . Journal of Proteome Research, 2012, 11, 157-171.	3.7	47
269	Sugar transporters in plants and in their interactions with fungi. Trends in Plant Science, 2012, 17, 413-422.	8.8	253
270	Obligate biotroph parasitism: can we link genomes to lifestyles?. Trends in Plant Science, 2012, 17, 448-457.	8.8	102
271	Modulation of Host Immunity by Beneficial Microbes. Molecular Plant-Microbe Interactions, 2012, 25, 139-150.	2.6	783
272	The importance of individuals: intraspecific diversity of mycorrhizal plants and fungi in ecosystems. New Phytologist, 2012, 194, 614-628.	7.3	157
273	Mechanisms and Evolution of Virulence in Oomycetes. Annual Review of Phytopathology, 2012, 50, 295-318.	7.8	187
274	Phylogenetic, genomic organization and expression analysis of hydrophobin genes in the ectomycorrhizal basidiomycete Laccaria bicolor. Fungal Genetics and Biology, 2012, 49, 199-209.	2.1	47
275	GiFRD encodes a protein involved in anaerobic growth in the arbuscular mycorrhizal fungus Glomus intraradices. Fungal Genetics and Biology, 2012, 49, 313-321.	2.1	1
276	Molecular and phenotypic characterization of Sebacina vermifera strains associated with orchids, and the description of Piriformospora williamsii sp. nov Fungal Biology, 2012, 116, 204-213.	2.5	61
277	Comparative genomics of the white-rot fungi, Phanerochaete carnosa and P. chrysosporium, to elucidate the genetic basis of the distinct wood types they colonize. BMC Genomics, 2012, 13, 444.	2.8	125
278	Edible Ectomycorrhizal Mushroom Molecular Response to Heavy Metals. Soil Biology, 2012, , 41-56.	0.8	2
279	Genomics of Tuber melanosporum: New Knowledge Concerning Reproductive Biology, Symbiosis, and Aroma Production. Soil Biology, 2012, , 57-72.	0.8	10
281	A Consistent Phylogenetic Backbone for the Fungi. Molecular Biology and Evolution, 2012, 29, 1319-1334.	8.9	129
282	Mitochondrial genome invaders: an unselfish role as molecular markers. New Phytologist, 2012, 196, 963-965.	7.3	7
284	State of the Art of the Research on Boletus edulis. Soil Biology, 2012, , 73-81.	0.8	8
285	Transposable Element Annotation in Completely Sequenced Eukaryote Genomes. Topics in Current Genetics, 2012, , 17-39.	0.7	16
286	Fungal polysaccharide monooxygenases: new players in the decomposition of cellulose. Fungal Ecology, 2012, 5, 481-489.	1.6	51
287	Challenges and progress towards understanding the role of effectors in plant–fungal interactions. Current Opinion in Plant Biology, 2012, 15, 477-482.	7.1	166

#	ARTICLE	IF	CITATIONS
288	The Rhizosphere: Molecular Interactions Between Microorganisms and Roots. Ecological Studies, 2012, , 111-139.	1.2	1
289	7 Carbohydrates Exchange Between Symbionts in Ectomycorrhizas. , 2012, , 119-136.		6
290	14 Genetic Diversity and Functional Aspects of Ericoid Mycorrhizal Fungi., 2012,, 255-285.		21
291	Edible Ectomycorrhizal Mushrooms. Soil Biology, 2012, , .	0.8	19
292	Plant Transposable Elements. Topics in Current Genetics, 2012, , .	0.7	8
293	3 The Interface Between Plants and Mycorrhizal Fungi: Nutrient Exchange, Signaling and Cell Organization., 2012,, 39-49.		5
294	Signaling and Communication in Plant Symbiosis. Signaling and Communication in Plants, 2012, , .	0.7	20
295	Abundance, distribution and potential impact of transposable elements in the genome of Mycosphaerella fijiensis. BMC Genomics, 2012, 13, 720.	2.8	28
296	Biocommunication of Fungi., 2012,,.		22
297	Evidence for a Common Toolbox Based on Necrotrophy in a Fungal Lineage Spanning Necrotrophs, Biotrophs, Endophytes, Host Generalists and Specialists. PLoS ONE, 2012, 7, e29943.	2.5	88
298	The Genome of Ganderma lucidum Provide Insights into Triterpense Biosynthesis and Wood Degradation. PLoS ONE, 2012, 7, e36146.	2.5	78
299	The Irreversible Loss of a Decomposition Pathway Marks the Single Origin of an Ectomycorrhizal Symbiosis. PLoS ONE, 2012, 7, e39597.	2.5	100
300	The Role of the Mycorrhizal Symbiosis in Nutrient Uptake of Plants and the Regulatory Mechanisms Underlying These Transport Processes. , 0, , .		48
301	Sequencing Technologies and Their Use in Plant Biotechnology and Breeding. , 2012, , .		5
302	Characteristics of nucleosomes and linker DNA regions on the genome of the basidiomycete <i>Mixia osmundae</i> revealed by mono- and dinucleosome mapping. Open Biology, 2012, 2, 120043.	3.6	11
303	Senescence of the Lentinula edodes Fruiting Body After Harvesting. , 0, , .		8
305	Expression of phenazine biosynthetic genes during the arbuscular mycorrhizal symbiosis of Glomus intraradices. Brazilian Journal of Microbiology, 2012, 43, 716-738.	2.0	2
307	Characterization of the <i>Suillus grevillei</i> Quinone Synthetase GreA Supports a Nonribosomal Code for Aromatic <i>α</i> â€Keto Acids. ChemBioChem, 2012, 13, 1798-1804.	2.6	34

#	Article	IF	CITATIONS
308	Characterization of the glycoside hydrolase family 15 glucoamylase gene from the ectomycorrhizal basidiomycete Tricholoma matsutake. Mycoscience, 2012, 53, 194-202.	0.8	7
309	The transcriptome of the arbuscular mycorrhizal fungus <i>Glomus intraradices</i> (DAOM 197198) reveals functional tradeoffs in an obligate symbiont. New Phytologist, 2012, 193, 755-769.	7.3	305
310	Extensive gene flow over Europe and possible speciation over Eurasia in the ectomycorrhizal basidiomycete <i>Laccaria amethystina</i> complex. Molecular Ecology, 2012, 21, 281-299.	3.9	62
311	454â€pyrosequencing of <i>Coffea arabica </i> leaves infected by the rust fungus <i>Hemileia vastatrix </i> reveals <i>in planta </i> leaves infected by the rust fungus <i <="" hemileia="" i="" vastatrix=""> late compatible plant–rust interaction. Molecular Plant Pathology, 2012, 13, 17-37.</i>	4.2	81
312	Purification and characterization of a $1,3-\hat{l}^2$ -d-glucanase from Streptomyces torulosus PCPOK-0324. Carbohydrate Polymers, 2012, 87, 1641-1648.	10.2	28
313	Rapid incorporation of carbon from ectomycorrhizal mycelial necromass into soil fungal communities. Soil Biology and Biochemistry, 2012, 49, 4-10.	8.8	79
314	Tracking nickelâ€adaptive biomarkers in <i>Pisolithus albus</i> from New Caledonia using a transcriptomic approach. Molecular Ecology, 2012, 21, 2208-2223.	3.9	22
315	The ectomycorrhizal fungus <i>Paxillus involutus</i> converts organic matter in plant litter using a trimmed brownâ€rot mechanism involving Fenton chemistry. Environmental Microbiology, 2012, 14, 1477-1487.	3.8	173
316	Host responses in Norway spruce roots induced to the pathogen <i>Ceratocystis polonica</i> evaded or suppressed by the ectomycorrhizal fungus <i>Laccaria bicolor</i> Plant Biology, 2013, 15, 99-110.	3.8	11
317	Comparative analysis of fungal genomes reveals different plant cell wall degrading capacity in fungi. BMC Genomics, 2013, 14, 274.	2.8	473
318	5'-Serial Analysis of Gene Expression studies reveal a transcriptomic switch during fruiting body development in Coprinopsis cinerea. BMC Genomics, 2013, 14, 195.	2.8	65
319	Zooming in on plant interactions. Oecologia, 2013, 171, 601-603.	2.0	4
320	The Multifunctional Role of Ectomycorrhizal Associations in Forest Ecosystem Processes. Botanical Review, The, 2013, 79, 371-400.	3.9	30
321	Genomics of Soil- and Plant-Associated Fungi. Soil Biology, 2013, , .	0.8	8
322	Plant Microbe Symbiosis: Fundamentals and Advances. , 2013, , .		25
323	The architecture of Norway spruce ectomycorrhizae: three-dimensional models of cortical cells, fungal biomass, and interface for potential nutrient exchange. Mycorrhiza, 2013, 23, 431-445.	2.8	3
324	The Contribution of New Technologies Toward Understanding Plant–Fungus Symbioses. , 2013, , 201-214.		2
325	Comparative study of key phosphorus and nitrogen metabolizing enzymes in mycorrhizal and non-mycorrhizal plants of Dendrobium chrysanthum Wall. ex Lindl Acta Physiologiae Plantarum, 2013, 35, 2311-2322.	2.1	9

#	ARTICLE	IF	CITATIONS
326	Cloning and characterization of ribonuclease T2 gene (RNHe30) from the basidiomycete, Hericium erinaceum. Mycoscience, 2013, 54, 188-197.	0.8	6
327	Carbon availability triggers the decomposition of plant litter and assimilation of nitrogen by an ectomycorrhizal fungus. ISME Journal, 2013, 7, 2010-2022.	9.8	107
328	Interactions of fungi with other organisms. Plant Biosystems, 2013, 147, 208-218.	1.6	57
330	11 Ectomycorrhiza-Specific Gene Expression. , 2013, , 295-312.		2
331	10 New Insights into Ectomycorrhizal Symbiosis Evolution and Function. , 2013, , 273-293.		1
332	Tree species influence on microbial communities in litter and soil: Current knowledge and research needs. Forest Ecology and Management, 2013, 309, 19-27.	3.2	434
333	Evaluation of methods to estimate production, biomass and turnover of ectomycorrhizal mycelium in forests soils – A review. Soil Biology and Biochemistry, 2013, 57, 1034-1047.	8.8	207
334	Genome of an arbuscular mycorrhizal fungus provides insight into the oldest plant symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20117-20122.	7.1	717
335	Genome-wide survey of repetitive DNA elements in the button mushroom Agaricus bisporus. Fungal Genetics and Biology, 2013, 55, 6-21.	2.1	37
336	Carbohydrate utilization and metabolism is highly differentiated in Agaricus bisporus. BMC Genomics, 2013, 14, 663.	2.8	35
337	Linear fusigen as the major hydroxamate siderophore of the ectomycorrhizal Basidiomycota Laccaria laccata and Laccaria bicolor. BioMetals, 2013, 26, 969-979.	4.1	26
338	The molecular components of the extracellular proteinâ€degradation pathways of the ectomycorrhizal fungus <i><scp>P</scp>axillus involutus</i> . New Phytologist, 2013, 200, 875-887.	7.3	61
339	Next-Generation Annotation of Prokaryotic Genomes with EuGene-P: Application to Sinorhizobium meliloti 2011. DNA Research, 2013, 20, 339-354.	3.4	90
340	Interactions of beneficial and detrimental root-colonizing filamentous microbes with plant hosts. Genome Biology, 2013, 14, 121.	8.8	59
341	Implications of Tanoak Decline in Forests Impacted By <i>Phytophthora ramorum</i> Cirdling Decreases the Soil Hyphal Abundance of Ectomycorrhizal Fungi Associated With <i>Notholithocarpus densiflorus</i> Circlin Madroño, 2013, 60, 95-106.	0.4	7
342	Soil-Plant Relationships of Heavy Metals and Metalloids. Environmental Pollution, 2013, , 161-193.	0.4	21
343	Expression and phylogenetic analyses of the Gel/Gas proteins of Tuber melanosporum provide insights into the function and evolution of glucan remodeling enzymes in fungi. Fungal Genetics and Biology, 2013, 53, 10-21.	2.1	13
344	Establishment and interpretation of the genome sequence of the phytopathogenic fungus Rhizoctonia solani AG1-IB isolate 7/3/14. Journal of Biotechnology, 2013, 167, 142-155.	3.8	93

#	Article	IF	CITATIONS
345	Phylogenetic and Microsatellite Markers for Tulasnella (Tulasnellaceae) Mycorrhizal Fungi Associated with Australian Orchids. Applications in Plant Sciences, 2013, 1, 1200394.	2.1	10
347	Identification of 100 fundamental ecological questions. Journal of Ecology, 2013, 101, 58-67.	4.0	605
348	Microbe-Independent Entry of Oomycete RxLR Effectors and Fungal RxLR-Like Effectors Into Plant and Animal Cells Is Specific and Reproducible. Molecular Plant-Microbe Interactions, 2013, 26, 611-616.	2.6	57
349	Terminal repeat retrotransposons as <scp>DNA</scp> markers in fungi. Journal of Basic Microbiology, 2013, 53, 823-827.	3.3	8
350	Laser microdissection and microarray analysis of <i><scp>T</scp>uber melanosporum</i> ectomycorrhizas reveal functional heterogeneity between mantle and <scp>H</scp> artig net compartments. Environmental Microbiology, 2013, 15, 1853-1869.	3.8	62
351	Identification of genes differentially expressed in ectomycorrhizal roots during the Pinus pinaster–Laccaria bicolor interaction. Planta, 2013, 237, 1637-1650.	3.2	18
353	Apoplastic immunity and its suppression by filamentous plant pathogens. New Phytologist, 2013, 198, 1001-1016.	7.3	233
354	Systems biology and "omics―tools: A cooperation for next-generation mycorrhizal studies. Plant Science, 2013, 203-204, 107-114.	3.6	61
355	Biotrophic transportome in mutualistic plant–fungal interactions. Mycorrhiza, 2013, 23, 597-625.	2.8	157
357	Mobile DNA distributions refine the phylogeny of "matsutake―mushrooms, Tricholoma sect. Caligata. Mycorrhiza, 2013, 23, 447-461.	2.8	19
358	Communication Between Filamentous Pathogens and Plants at the Biotrophic Interface. Annual Review of Phytopathology, 2013, 51, 587-611.	7.8	112
359	<i>Scatter</i> : a novel family of miniature invertedâ€repeat transposable elements in the fungus <i>Botrytis cinerea</i> . Journal of Basic Microbiology, 2013, 53, 815-822.	3.3	2
360	Genomic and Proteomic Dissection of the Ubiquitous Plant Pathogen, <i>Armillaria mellea</i> Toward a New Infection Model System. Journal of Proteome Research, 2013, 12, 2552-2570.	3.7	85
361	Phylogenetic analysis of fungal aquaporins provides insight into their possible role in water transport of mycorrhizal associations. Botany, 2013, 91, 495-504.	1.0	28
363	<scp><i>LbNrt</i> RNA</scp> silencing in the mycorrhizal symbiont <scp><i>L</i></scp> <i>a caria bicolor</i> reveals a nitrateâ€independent regulatory role for a eukaryotic <scp>NRT2</scp> â€type nitrate transporter. Environmental Microbiology Reports, 2013, 5, 353-366.	2.4	15
364	Multigene sequence data reveal morphologically cryptic phylogenetic species within the genus <i>Laccaria</i> in southern Australia. Mycologia, 2013, 105, 547-563.	1.9	31
365	Genome-wide analysis of simple sequence repeats in the model medicinal mushroom Ganoderma lucidum. Gene, 2013, 512, 331-336.	2.2	43
373	High genome heterozygosity and endemic genetic recombination in the wheat stripe rust fungus. Nature Communications, 2013, 4, 2673.	12.8	238

#	ARTICLE	IF	CITATIONS
374	Growing poplars for research with and without mycorrhizas. Frontiers in Plant Science, 2013, 4, 332.	3.6	46
375	The Transcriptional Response to Nonself in the Fungus <i>Podospora anserina </i> Genetics, 2013, 3, 1015-1030.	1.8	27
376	Effector candidates in the secretome of Piriformospora indica, a ubiquitous plant-associated fungus. Frontiers in Plant Science, 2013, 4, 228.	3.6	48
377	Mycorrhizal hyphae as ecological niche for highly specialized hypersymbionts – or just soil free-riders?. Frontiers in Plant Science, 2013, 4, 134.	3.6	112
378	The Genome and Development-Dependent Transcriptomes of Pyronema confluens: A Window into Fungal Evolution. PLoS Genetics, 2013, 9, e1003820.	3.5	85
379	Molecular Characterization of Sexual Diversity in a Population of <i>Serpula lacrymans</i> , a Tetrapolar Basidiomycete. G3: Genes, Genomes, Genetics, 2013, 3, 145-152.	1.8	15
380	Estimating Gene Gain and Loss Rates in the Presence of Error in Genome Assembly and Annotation Using CAFE 3. Molecular Biology and Evolution, 2013, 30, 1987-1997.	8.9	650
381	Genomic Contributions to the Study of Soil and Plant-Interacting Fungi. Soil Biology, 2013, , 1-9.	0.8	0
382	Community genetics in the time of nextâ€generation molecular technologies. Molecular Ecology, 2013, 22, 3198-3207.	3.9	25
383	Revisiting the sequencing of the first tree genome: Populus trichocarpa. Tree Physiology, 2013, 33, 357-364.	3.1	61
384	Self-assembly at Air/Water Interfaces and Carbohydrate Binding Properties of the Small Secreted Protein EPL1 from the fungus Trichoderma atroviride. Journal of Biological Chemistry, 2013, 288, 4278-4287.	3.4	79
385	Soil Mechanical Resistance and Root Growth and Function. , 2013, , 632-647.		5
387	Evolutionary analysis of hydrophobin gene family in two wood-degrading basidiomycetes, Phlebia brevispora and Heterobasidion annosum s.l BMC Evolutionary Biology, 2013, 13, 240.	3.2	19
388	A bottom-up algorithm of vertical assembling concept lattices. International Journal of Data Mining and Bioinformatics, 2013, 7, 229.	0.1	3
389	Composition and Expression of Genes Encoding Carbohydrate-Active Enzymes in the Straw-Degrading Mushroom Volvariella volvacea. PLoS ONE, 2013, 8, e58780.	2.5	24
390	Structure, Gene Flow, and Recombination among Geographic Populations of a Russula virescens Ally from Southwestern China. PLoS ONE, 2013, 8, e73174.	2.5	22
391	Whole Genome and Global Gene Expression Analyses of the Model Mushroom Flammulina velutipes Reveal a High Capacity for Lignocellulose Degradation. PLoS ONE, 2014, 9, e93560.	2.5	107
392	Expanding genomics of mycorrhizal symbiosis. Frontiers in Microbiology, 2014, 5, 582.	3.5	25

#	Article	IF	CITATIONS
393	Isolation and Characterization of a Novel Lectin from the Edible Mushroom Stropharia rugosoannulata. Molecules, 2014, 19, 19880-19891.	3.8	38
394	Analysis of the ergosterol biosynthesis pathway cloning, molecular characterization and phylogeny of lanosterol 141±-demethylase (ERG11) gene of Moniliophthora perniciosa. Genetics and Molecular Biology, 2014, 37, 683-693.	1.3	6
397	Fungal Genomics. Advances in Botanical Research, 2014, , 1-52.	1.1	25
398	Evolutionary and Adaptive Role of Transposable Elements in Fungal Genomes. Advances in Botanical Research, 2014, , 79-107.	1.1	17
399	Exploring the Transcriptome of Mycorrhizal Interactions. Advances in Botanical Research, 2014, 70, 53-78.	1.1	8
400	The cell death phenomenon during <i>Tuber </i> ectomycorrhiza morphogenesis. Plant Biosystems, 2014, 148, 473-482.	1.6	12
401	Specificity of plant-microbe interactions in the tree mycorrhizosphere biome and consequences for soil C cycling. Frontiers in Microbiology, 2014, 5, 261.	3.5	95
402	Annotation of a hybrid partial genome of the coffee rust (Hemileia vastatrix) contributes to the gene repertoire catalog of the Pucciniales. Frontiers in Plant Science, 2014, 5, 594.	3.6	34
403	Use of Cellulases from Trichoderma reesei in the Twenty-First Century—Part II. , 2014, , 263-280.		3
404	Genome-Wide Approaches toward Understanding Mycotrophic Trichoderma Species. , 2014, , 455-464.		8
405	How Ectomycorrhizae Structures Boost the Root System?. Soil Biology, 2014, , 171-191.	0.8	2
406	Gene Expansion Shapes Genome Architecture in the Human Pathogen Lichtheimia corymbifera: An Evolutionary Genomics Analysis in the Ancient Terrestrial Mucorales (Mucoromycotina). PLoS Genetics, 2014, 10, e1004496.	3.5	80
407	Single Nucleus Genome Sequencing Reveals High Similarity among Nuclei of an Endomycorrhizal Fungus. PLoS Genetics, 2014, 10, e1004078.	3.5	238
408	Duplications and losses in gene families of rust pathogens highlight putative effectors. Frontiers in Plant Science, 2014, 5, 299.	3.6	44
409	The role of mycorrhizal associations in plant potassium nutrition. Frontiers in Plant Science, 2014, 5, 337.	3.6	164
410	MycoCosm portal: gearing up for 1000 fungal genomes. Nucleic Acids Research, 2014, 42, D699-D704.	14.5	1,187
412	Symbiotic adaptations in the fungal cultivar of leaf-cutting ants. Nature Communications, 2014, 5, 5675.	12.8	84
413	Differential expression of metallothioneins in response to heavy metals and their involvement in metal tolerance in the symbiotic basidiomycete Laccaria bicolor. Microbiology (United Kingdom), 2014, 160, 2235-2242.	1.8	55

#	Article	IF	CITATIONS
414	Plant-Polysaccharide-Degrading Enzymes from Basidiomycetes. Microbiology and Molecular Biology Reviews, 2014, 78, 614-649.	6.6	340
415	Characterization of a Novel $\hat{l}^2$ -Glucosidase from <i>Gongronella</i> sp. W5 and Its Application in the Hydrolysis of Soybean Isoflavone Glycosides. Journal of Agricultural and Food Chemistry, 2014, 62, 11688-11695.	5.2	22
416	Newly identified helper bacteria stimulate ectomycorrhizal formation in Populus. Frontiers in Plant Science, 2014, 5, 579.	3.6	68
417	Discovery of a novel small secreted protein family with conserved N-terminal IGY motif in Dikarya fungi. BMC Genomics, 2014, 15, 1151.	2.8	23
418	Transposable Element Dynamics among Asymbiotic and Ectomycorrhizal Amanita Fungi. Genome Biology and Evolution, 2014, 6, 1564-1578.	2.5	54
419	Diversity and Variability of NOD-Like Receptors in Fungi. Genome Biology and Evolution, 2014, 6, 3137-3158.	2.5	83
420	Cell wall remodeling in mycorrhizal symbiosis: a way towards biotrophism. Frontiers in Plant Science, 2014, 5, 237.	3.6	132
421	The role of the cell wall compartment in mutualistic symbioses of plants. Frontiers in Plant Science, 2014, 5, 238.	3.6	53
422	Advancing Knowledge on Biology of Rust Fungi Through Genomics. Advances in Botanical Research, 2014, , 173-209.	1.1	35
423	Truffle Phylogenomics. Advances in Botanical Research, 2014, , 211-234.	1.1	20
424	The Natural Histories of Species and Their Genomes. Advances in Botanical Research, 2014, , 235-257.	1.1	9
425	8 Degradation and Modification of Plant Biomass by Fungi. , 2014, , 175-208.		26
426	Effectiveness and Durability of the Rice <i>Pi-ta</i> Gene in Yunnan Province of China. Phytopathology, 2014, 104, 762-768.	2.2	14
427	Effector MiSSP7 of the mutualistic fungus <i>Laccaria bicolor</i> stabilizes the <i>Populus</i> JAZ6 protein and represses jasmonic acid (JA) responsive genes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8299-8304.	7.1	329
428	Fungal Genomics., 2014,,.		2
429	Comparative analysis of secretomes in basidiomycete fungi. Journal of Proteomics, 2014, 102, 28-43.	2.4	84
430	Ethylene and jasmonic acid act as negative modulators during mutualistic symbiosis between <i><scp>L</scp>accaria bicolor</i> and <i><scp>P</scp>opulus</i> roots. New Phytologist, 2014, 202, 270-286.	7.3	87
431	Fungal (-like) biocontrol organisms in tomato disease control. Biological Control, 2014, 74, 65-81.	3.0	82

#	Article	IF	CITATIONS
432	Ectomycorrhizal <i><scp>C</scp>ortinarius</i> species participate in enzymatic oxidation of humus in northern forest ecosystems. New Phytologist, 2014, 203, 245-256.	7.3	256
433	Simulating ectomycorrhizal fungi and their role in carbon and nitrogen cycling in forest ecosystems. Canadian Journal of Forest Research, 2014, 44, 535-553.	1.7	41
434	Fungal evolutionary genomics provides insight into the mechanisms of adaptive divergence in eukaryotes. Molecular Ecology, 2014, 23, 753-773.	3.9	203
435	Root Engineering. Soil Biology, 2014, , .	0.8	7
436	The role of ectomycorrhizas in heavy metal stress tolerance of host plants. Environmental and Experimental Botany, 2014, 108, 47-62.	4.2	125
437	Microbial genomics, transcriptomics and proteomics: new discoveries in decomposition research using complementary methods. Applied Microbiology and Biotechnology, 2014, 98, 1531-1537.	3.6	49
438	Ecological Genomics. Advances in Experimental Medicine and Biology, 2014, , .	1.6	30
439	Mitochondrial Microsatellite Markers for the Australian Ectomycorrhizal Fungus Laccaria sp. A (Hydnangiaceae). Applications in Plant Sciences, 2014, 2, 1300086.	2.1	3
440	Genomic and transcriptomic analysis of Laccaria bicolor CAZome reveals insights into polysaccharides remodelling during symbiosis establishment. Fungal Genetics and Biology, 2014, 72, 168-181.	2.1	81
441	Genomics, Lifestyles and Future Prospects of Wood-Decay and Litter-Decomposing Basidiomycota. Advances in Botanical Research, 2014, 70, 329-370.	1.1	87
442	Ectomycorrhizal fungi contribute to soil organic matter cycling in sub-boreal forests. ISME Journal, 2014, 8, 699-713.	9.8	132
443	Extensive sampling of basidiomycete genomes demonstrates inadequacy of the white-rot/brown-rot paradigm for wood decay fungi. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9923-9928.	7.1	595
444	Microbial genome-enabled insights into plant–microorganism interactions. Nature Reviews Genetics, 2014, 15, 797-813.	16.3	187
445	Metatranscriptomic analysis of ectomycorrhizal roots reveals genes associated with ⟨scp⟩⟨i⟩⟨ i⟩⟨ scp⟩⟨i⟩ i odermaâ€"⟨ i⟩⟨scp⟩⟨i⟩ i odermaâ€"⟨ i⟩⟨scp⟩⟨i⟩ i odermaion   i⟩ i ode	3.8	71
446	Broad compatibility in fungal root symbioses. Current Opinion in Plant Biology, 2014, 20, 135-145.	7.1	73
447	Comparative transcriptomics of the model mushroom Coprinopsis cinerea reveals tissue-specific armories and a conserved circuitry for sexual development. BMC Genomics, 2014, 15, 492.	2.8	65
448	Characterization and potential evolutionary impact of transposable elements in the genome of Cochliobolus heterostrophus. BMC Genomics, 2014, 15, 536.	2.8	32
449	Prevalence of transcription factors in ascomycete and basidiomycete fungi. BMC Genomics, 2014, 15, 214.	2.8	114

#	Article	IF	CITATIONS
450	Plant biomass degradation by fungi. Fungal Genetics and Biology, 2014, 72, 2-9.	2.1	91
451	Ecophysiology of Trichoderma in Genomic Perspective. , 2014, , 25-40.		8
452	Molecular Cloning and Function Characterization of a New Macrophage-Activating Protein from Tremella fuciformis. Journal of Agricultural and Food Chemistry, 2014, 62, 1526-1535.	5.2	10
453	Methylated glycans as conserved targets of animal and fungal innate defense. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2787-96.	7.1	74
455	Development of Phylogenetic Markers for Sebacina (Sebacinaceae) Mycorrhizal Fungi Associated with Australian Orchids. Applications in Plant Sciences, 2014, 2, 1400015.	2.1	6
456	Genomics of wood-degrading fungi. Fungal Genetics and Biology, 2014, 72, 82-90.	2.1	103
457	Ectomycorrhizal fungi isolated from old-growth northern hardwood forest display variability in extracellular enzyme activity in the presence of plant litter. Soil Biology and Biochemistry, 2014, 68, 219-222.	8.8	33
458	Transposable Elements and Repeat-Induced Point Mutation. , 0, , 124-131.		0
459	Epichloë Endophytes: Models of an Ecological Strategy. , 2014, , 660-675.		1
460	Mating and Sexual Morphogenesis in Basidiomycete Fungi. , 2014, , 536-555.		10
461	<i>Populus trichocarpa</i> and <i>Populus deltoides</i> Exhibit Different Metabolomic Responses to Colonization by the Symbiotic Fungus <i>Laccaria bicolor</i> Molecular Plant-Microbe Interactions, 2014, 27, 546-556.	2.6	69
462	A Fungal Conserved Gene from the Basidiomycete <i>Hebeloma cylindrosporum</i> Is Essential for Efficient Ectomycorrhiza Formation. Molecular Plant-Microbe Interactions, 2014, 27, 1059-1069.	2.6	12
463	Resource Transfer Between Plants Through Ectomycorrhizal Fungal Networks. Ecological Studies, 2015, , 133-176.	1.2	31
464	Uncovering the abilities of <scp><i>A</i></scp> <i>garicus bisporus</i> to degrade plant biomass throughout its life cycle. Environmental Microbiology, 2015, 17, 3098-3109.	3.8	49
465	Comparative genomics, proteomics and transcriptomics give new insight into the exoproteome of the basidiomycete <i><scp>H</scp>ebeloma cylindrosporum</i> and its involvement in ectomycorrhizal symbiosis. New Phytologist, 2015, 208, 1169-1187.	7.3	78
466	Diversity and evolution of ABC proteins in mycorrhiza-forming fungi. BMC Evolutionary Biology, 2015, 15, 249.	3.2	19
467	Grouping of multicopper oxidases in Lentinula edodes by sequence similarities and expression patterns. AMB Express, 2015, 5, 63.	3.0	21
468	Quantitative assessment of the differential impacts of arbuscular and ectomycorrhiza on soil carbon cycling. New Phytologist, 2015, 208, 280-293.	7.3	142

#	Article	IF	CITATIONS
470	Symbiotic Proteomics â€" State of the Art in Plantâ€"Mycorrhizal Fungi Interactions. , 0, , .		3
471	Structural Variation (SV) Markers in the Basidiomycete Volvariella volvacea and Their Application in the Construction of a Genetic Map. International Journal of Molecular Sciences, 2015, 16, 16669-16682.	4.1	4
472	Genome sequence of the plant growth promoting endophytic yeast Rhodotorula graminis WP1. Frontiers in Microbiology, 2015, 6, 978.	3.5	83
473	Development of a Rhizoctonia solani AG1-IB Specific Gene Model Enables Comparative Genome Analyses between Phytopathogenic R. solani AG1-IA, AG1-IB, AG3 and AG8 Isolates. PLoS ONE, 2015, 10, e0144769.	2.5	32
474	Evaluation of Secretion Prediction Highlights Differing Approaches Needed for Oomycete and Fungal Effectors. Frontiers in Plant Science, 2015, 6, 1168.	3.6	85
475	Metagenome sequence of <scp><i>E</i></scp> <i>laphomyces granulatus</i> from sporocarp tissue reveals <scp>A</scp> scomycota ectomycorrhizal fingerprints of genome expansion and a <i><i>Scp&gt;Proteobacteria</i>â€rich microbiome. Environmental Microbiology, 2015, 17, 2952-2968.</i>	3.8	34
476	Functional guild classification predicts the enzymatic role of fungi inÂlitter and soil biogeochemistry. Soil Biology and Biochemistry, 2015, 88, 441-456.	8.8	121
477	Aromatic Metabolism of Filamentous Fungi in Relation to the Presence of Aromatic Compounds in Plant Biomass. Advances in Applied Microbiology, 2015, 91, 63-137.	2.4	97
478	Fate of ectomycorrhizal fungal biomass in a soil bioreactor system and its contribution to soil organic matter formation. Soil Biology and Biochemistry, 2015, 88, 120-127.	8.8	75
479	<i>Tricholoma vaccinum</i> host communication during ectomycorrhiza formation. FEMS Microbiology Ecology, 2015, 91, fiv120.	2.7	15
480	Mycorrhiza Specificity: Its Role in the Development and Function of Common Mycelial Networks. Ecological Studies, 2015, , 1-39.	1.2	35
481	A Core Gene Set Describes the Molecular Basis of Mutualism and Antagonism in <i>Epichloë</i> spp Molecular Plant-Microbe Interactions, 2015, 28, 218-231.	2.6	59
482	The Soil Fungi. , 2015, , 77-109.		33
483	Mycorrhizal ecology and evolution: the past, the present, and the future. New Phytologist, 2015, 205, 1406-1423.	<b>7.</b> 3	1,390
484	Host–microbe and microbe–microbe interactions in the evolution of obligate plant parasitism. New Phytologist, 2015, 206, 1207-1228.	7.3	54
485	Horizontal transfer of carbohydrate metabolism genes into ectomycorrhizal <i><scp>A</scp>manita</i> . New Phytologist, 2015, 205, 1552-1564.	7.3	17
486	The effect of elevated carbon dioxide on the interaction between <i><scp>E</scp>ucalyptus grandis</i> and diverse isolates of <i><scp>P</scp>isolithus</i> sp. is associated with a complex shift in the root transcriptome. New Phytologist, 2015, 206, 1423-1436.	7.3	43
487	Acid protease production in fungal root endophytes. Mycologia, 2015, 107, 1-11.	1.9	23

#	Article	IF	CITATIONS
488	Coordinated Regulation of Arbuscular Mycorrhizal Fungi and Soybean MAPK Pathway Genes Improved Mycorrhizal Soybean Drought Tolerance. Molecular Plant-Microbe Interactions, 2015, 28, 408-419.	2.6	41
489	Convergent losses of decay mechanisms and rapid turnover of symbiosis genes in mycorrhizal mutualists. Nature Genetics, 2015, 47, 410-415.	21.4	870
490	Ectomycorrhizal fungi – potential organic matter decomposers, yet not saprotrophs. New Phytologist, 2015, 205, 1443-1447.	7.3	589
491	Reconsidering mutualistic plant–fungal interactions through the lens of effector biology. Current Opinion in Plant Biology, 2015, 26, 45-50.	7.1	87
492	How do Agaricomycetes shape their fruiting bodies? 1. Morphological aspects of development. Fungal Biology Reviews, 2015, 29, 63-97.	4.7	79
493	Is Zymoseptoria tritici a hemibiotroph?. Fungal Genetics and Biology, 2015, 79, 29-32.	2.1	95
497	Mutualistic root endophytism is not associated with the reduction of saprotrophic traits and requires a noncompromised plant innate immunity. New Phytologist, 2015, 207, 841-857.	7.3	139
499	Fungal Effectors and Plant Susceptibility. Annual Review of Plant Biology, 2015, 66, 513-545.	18.7	1,006
500	Ectomycorrhiza of Populus. Forest Ecology and Management, 2015, 347, 156-169.	3.2	27
501	Molecular signals required for the establishment and maintenance of ectomycorrhizal symbioses. New Phytologist, 2015, 208, 79-87.	7.3	139
502	Genomic and transcriptomic analysis of the endophytic fungus Pestalotiopsis fici reveals its lifestyle and high potential for synthesis of natural products. BMC Genomics, 2015, 16, 28.	2.8	102
503	Host-specific transcriptomic pattern of Trichoderma virens during interaction with maize or tomato roots. BMC Genomics, 2015, 16, 8.	2.8	76
504	Role of Microorganisms in Plant Nutrition and Health. , 2015, , 125-161.		8
505	Description of the first fungal dye-decolorizing peroxidase oxidizing manganese(II). Applied Microbiology and Biotechnology, 2015, 99, 8927-8942.	3.6	66
506	Lectins from Edible Mushrooms. Molecules, 2015, 20, 446-469.	3.8	60
507	Volatile signalling by sesquiterpenes from ectomycorrhizal fungi reprogrammes root architecture. Nature Communications, 2015, 6, 6279.	12.8	211
508	Symbiotic plant-fungi interactions stripped down to the root. Nature Genetics, 2015, 47, 309-310.	21.4	6
509	Evolutionary Transitions to Multicellular Life. Advances in Marine Genomics, 2015, , .	1.2	18

#	Article	IF	CITATIONS
510	A new species of Laccaria in montane cloud forest from eastern Mexico. Mycoscience, 2015, 56, 597-605.	0.8	13
511	Direct and indirect effects of climate change on soil microbial and soil microbialâ€plant interactions: What lies ahead?. Ecosphere, 2015, 6, 1-21.	2.2	433
512	Distinctive expansion of gene families associated with plant cell wall degradation, secondary metabolism, and nutrient uptake in the genomes of grapevine trunk pathogens. BMC Genomics, 2015, 16, 469.	2.8	168
513	Development of the Poplar <i>-Laccaria bicolor</i> Ectomycorrhiza Modifies Root Auxin Metabolism, Signaling, and Response. Plant Physiology, 2015, 169, 890-902.	4.8	70
514	Gene expression during zombie ant biting behavior reflects the complexity underlying fungal parasitic behavioral manipulation. BMC Genomics, 2015, 16, 620.	2.8	107
515	Truffle Research in the Post-Genomics Era. Food Analytical Methods, 2015, 8, 1815-1823.	2.6	10
516	Plant Microbes Symbiosis: Applied Facets. , 2015, , .		39
517	The Mutualist <i>Laccaria bicolor</i> Expresses a Core Gene Regulon During the Colonization of Diverse Host Plants and a Variable Regulon to Counteract Host-Specific Defenses. Molecular Plant-Microbe Interactions, 2015, 28, 261-273.	2.6	82
518	Plant-Soil Biota Interactions. , 2015, , 311-338.		46
519	Novel findings on the role of signal exchange in arbuscular and ectomycorrhizal symbioses. Mycorrhiza, 2015, 25, 243-252.	2.8	44
520	Examining the efficacy of a genotyping-by-sequencing technique for population genetic analysis of the mushroom <i>Laccaria bicolor</i> and evaluating whether a reference genome is necessary to assess homology. Mycologia, 2015, 107, 217-226.	1.9	9
521	Overexpression of <i>Laccaria bicolor</i> aquaporin <i>JQ585595</i> alters root water transport properties in ectomycorrhizal white spruce ( <i>Picea glauca</i> ) seedlings. New Phytologist, 2015, 205, 757-770.	7.3	54
522	Ectomycorrhizal fungi have larger fruit bodies than saprotrophic fungi. Fungal Ecology, 2015, 17, 205-212.	1.6	51
523	The genome of the emerging barley pathogen Ramularia collo-cygni. BMC Genomics, 2016, 17, 584.	2.8	36
525	Identification and Characterization of Small Noncoding RNAs in Genome Sequences of the Edible Fungus <i>Pleurotus ostreatus</i> . BioMed Research International, 2016, 2016, 1-9.	1.9	38
526	A Survey of the Gene Repertoire of Gigaspora rosea Unravels Conserved Features among Glomeromycota for Obligate Biotrophy. Frontiers in Microbiology, 2016, 7, 233.	3.5	113
527	Comparative Analysis of Secretomes from Ectomycorrhizal Fungi with an Emphasis on Small-Secreted Proteins. Frontiers in Microbiology, 2016, 7, 1734.	3.5	6
528	Kingdom-Wide Analysis of Fungal Small Secreted Proteins (SSPs) Reveals their Potential Role in Host Association. Frontiers in Plant Science, 2016, 7, 186.	3.6	165

#	Article	IF	CITATIONS
529	Down-Regulation of KORRIGAN-Like Endo-β-1,4-Glucanase Genes Impacts Carbon Partitioning, Mycorrhizal Colonization and Biomass Production in Populus. Frontiers in Plant Science, 2016, 7, 1455.	3.6	32
530	Molecular Ecology. , 2016, , 189-203.		0
531	Mutualistic Symbiosis Between Fungi and Autotrophs. , 2016, , 205-243.		11
532	Differential Expression of Genes Involved in Host Recognition, Attachment, and Degradation in the Mycoparasite <i>Tolypocladium ophioglossoides</i> . G3: Genes, Genomes, Genetics, 2016, 6, 731-741.	1.8	21
533	The role of locally adapted mycorrhizas and rhizobacteria in plant–soil feedback systems. Functional Ecology, 2016, 30, 1086-1098.	3.6	184
535	Globally distributed root endophyte Phialocephala subalpina links pathogenic and saprophytic lifestyles. BMC Genomics, 2016, 17, 1015.	2.8	54
536	11 Understanding the Biodiversity and Functions of Root Fungal Endophytes: The Ascomycete Harpophora oryzae as a Model Case., 2016,, 205-214.		6
537	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. Current Biology, 2016, 26, 1577-1584.	3.9	175
538	Ectomycorrhizal fungi decompose soil organic matter using oxidative mechanisms adapted from saprotrophic ancestors. New Phytologist, 2016, 209, 1705-1719.	7.3	264
540	A secretomic view of woody and nonwoody lignocellulose degradation by Pleurotus ostreatus. Biotechnology for Biofuels, 2016, 9, 49.	6.2	85
541	Understanding plant cell-wall remodelling during the symbiotic interaction between Tuber melanosporum and Corylus avellana using a carbohydrate microarray. Planta, 2016, 244, 347-359.	3.2	24
542	Prospects for Bioprocess Development Based on Recent Genome Advances in Lignocellulose Degrading Basidiomycetes. Fungal Biology, 2016, , 161-181.	0.6	1
543	Familiar Stranger. Advances in Applied Microbiology, 2016, 95, 69-147.	2.4	45
544	Too much or not enough: Reflection on two contrasting perspectives on soil biodiversity. Soil Biology and Biochemistry, 2016, 103, 320-326.	8.8	27
545	Lignin Degrading Fungal Enzymes. Biofuels and Biorefineries, 2016, , 81-130.	0.5	15
546	Advances in Genomics of Entomopathogenic Fungi. Advances in Genetics, 2016, 94, 67-105.	1.8	78
547	True Truffle Host Diversity. Soil Biology, 2016, , 267-281.	0.8	9
549	True Truffle (Tuber spp.) in the World. Soil Biology, 2016, , .	0.8	42

#	Article	IF	CITATIONS
550	Truffle Genomics: Investigating an Early Diverging Lineage of Pezizomycotina. Soil Biology, 2016, , 137-149.	0.8	2
551	Tales from the crypt: genome mining from fungarium specimens improves resolution of the mushroom tree of life. Biological Journal of the Linnean Society, 2016, 117, 11-32.	1.6	77
552	The good, the bad and the tasty: The many roles of mushrooms. Studies in Mycology, 2016, 85, 125-157.	7.2	81
553	Ectomycorrhizal ecology is imprinted in the genome of the dominant symbiotic fungus Cenococcum geophilum. Nature Communications, 2016, 7, 12662.	12.8	156
554	Peltaster fructicola genome reveals evolution from an invasive phytopathogen to an ectophytic parasite. Scientific Reports, 2016, 6, 22926.	3.3	21
563	Unearthing the roots of ectomycorrhizal symbioses. Nature Reviews Microbiology, 2016, 14, 760-773.	28.6	317
564	Secretome analysis of the mycoparasitic fungus <i>Trichoderma harzianum</i> ALL 42 cultivated in different media supplemented with <i>Fusarium solani</i> cell wall or glucose. Proteomics, 2016, 16, 477-490.	2,2	35
565	SnTox1, a <i>Parastagonospora nodorum</i> necrotrophic effector, is a dualâ€function protein that facilitates infection while protecting from wheatâ€produced chitinases. New Phytologist, 2016, 211, 1052-1064.	7.3	76
566	Molecular cloning and functional analysis of two phosphate transporter genes from Rhizopogon luteolus and Leucocortinarius bulbiger, two ectomycorrhizal fungi of Pinus tabulaeformis. Mycorrhiza, 2016, 26, 633-644.	2.8	15
567	Biological Potential of Arbuscular Mycorrhizal Fungi. , 2016, , 127-135.		1
568	Plant, Soil and Microbes., 2016,,.		5
569	The effector candidate repertoire of the arbuscular mycorrhizal fungus Rhizophagus clarus. BMC Genomics, 2016, 17, 101.	2.8	76
570	E <scp>ffector</scp> P: predicting fungal effector proteins from secretomes using machine learning. New Phytologist, 2016, 210, 743-761.	7.3	438
571	Genomics of Plant, Soil, and Microbe Interaction., 2016,, 303-336.		1
572	Mycorrhizal Fungi: Role in the Solubilization of Potassium. , 2016, , 77-98.		75
573	Fungal genome sequencing: basic biology to biotechnology. Critical Reviews in Biotechnology, 2016, 36, 743-759.	9.0	47
574	Comparative Genomics of Early-Diverging Mushroom-Forming Fungi Provides Insights into the Origins of Lignocellulose Decay Capabilities. Molecular Biology and Evolution, 2016, 33, 959-970.	8.9	213
575	8 An Emerging Interdisciplinary Field: Fungal–Bacterial Interactions. , 2016, , 161-178.		4

#	Article	IF	CITATIONS
577	10 Mycorrhizal Fungi and the Soil Carbon and Nutrient Cycling., 2016, , 189-203.		2
578	The Genomes of Three Uneven Siblings: Footprints of the Lifestyles of Three Trichoderma Species. Microbiology and Molecular Biology Reviews, 2016, 80, 205-327.	6.6	194
579	Dominant Tree Species and Soil Type Affect the Fungal Community Structure in a Boreal Peatland Forest. Applied and Environmental Microbiology, 2016, 82, 2632-2643.	3.1	54
580	Friends or foes? Emerging insights from fungal interactions with plants. FEMS Microbiology Reviews, 2016, 40, 182-207.	8.6	238
581	Genome-wide functional analysis of SSR for an edible mushroom Pleurotus ostreatus. Gene, 2016, 575, 524-530.	2.2	27
582	Entomotoxic and nematotoxic lectins and protease inhibitors from fungal fruiting bodies. Applied Microbiology and Biotechnology, 2016, 100, 91-111.	3.6	60
583	Transcript profiling of aquaporins during basidiocarp development in Laccaria bicolor ectomycorrhizal with Picea glauca. Mycorrhiza, 2016, 26, 19-31.	2.8	9
584	Agrobacterium-mediated insertional mutagenesis in the mycorrhizal fungus Laccaria bicolor. Current Genetics, 2017, 63, 215-227.	1.7	2
585	The ectomycorrhizal basidiomycete <i>Hebeloma cylindrosporum</i> undergoes early waves of transcriptional reprogramming prior to symbiotic structures differentiation. Environmental Microbiology, 2017, 19, 1338-1354.	3.8	22
586	Biology, dynamics, and applications of transposable elements in basidiomycete fungi. Applied Microbiology and Biotechnology, 2017, 101, 1337-1350.	3.6	35
587	Comparative genomics and expression levels of hydrophobins from eight mycorrhizal genomes. Mycorrhiza, 2017, 27, 383-396.	2.8	22
588	Dissection of genomic features and variations of three pathotypes of Puccinia striiformis through whole genome sequencing. Scientific Reports, 2017, 7, 42419.	3.3	55
589	Effectiveness of ITS and sub-regions as DNA barcode markers for the identification of Basidiomycota (Fungi). BMC Microbiology, 2017, 17, 42.	3.3	126
590	Genetic stability of ectomycorrhizal fungi is not affected by cryopreservation at â^130°C or cold storage with repeated sub-cultivations over a period of 2Âyears. Mycorrhiza, 2017, 27, 595-601.	2.8	1
593	Ectomycorrhizal Mushrooms: Their Diversity, Ecology and Practical Applications. , 2017, , 99-131.		10
594	Comparative Genomics of the Ectomycorrhizal Sister Species <i>Rhizopogon vinicolor</i> and <i>Rhizopogon vesiculosus</i> (Basidiomycota: Boletales) Reveals a Divergence of the Mating Type <i>B</i> Locus. G3: Genes, Genomes, Genetics, 2017, 7, 1775-1789.	1.8	17
595	Arbuscular Mycorrhizal Fungi: Evolution and Functions in Alleviating Plant Drought Stress. , 2017, , 285-295.		2
596	Growing evidence for facultative biotrophy in saprotrophic fungi: data from microcosm tests with 201 species of woodâ€decay basidiomycetes. New Phytologist, 2017, 215, 747-755.	7.3	66

#	Article	IF	CITATIONS
597	Phylogenomic evolutionary surveys of subtilase superfamily genes in fungi. Scientific Reports, 2017, 7, 45456.	3.3	48
598	Lentinula edodes Genome Survey and Postharvest Transcriptome Analysis. Applied and Environmental Microbiology, 2017, 83, .	3.1	58
599	Accessibility of Inorganic and Organic Nutrients for Mycorrhizas. , 2017, , 129-148.		34
600	Mycorrhizas as Nutrient and Energy Pumps of Soil Food Webs. , 2017, , 149-173.		13
601	Fungal Genomes and Insights into the Evolution of the Kingdom. Microbiology Spectrum, 2017, 5, .	3.0	76
602	<i>De novo</i> assembly and characterization of the transcriptome of a wild edible mushroom <i>Leucocalocybe mongolica</i> and identification of SSR markers. Biotechnology and Biotechnological Equipment, 2017, 31, 1148-1159.	1.3	9
603	Potential Role of Beneficial Soil Microorganisms in Plant Tolerance to Abiotic Stress Factors. , 2017, , 191-207.		8
604	Out of Asia: Biogeography of fungal populations reveals Asian origin of diversification of the Laccaria amethystina complex, and two new species of violet Laccaria. Fungal Biology, 2017, 121, 939-955.	2.5	24
605	Microbial Expansins. Annual Review of Microbiology, 2017, 71, 479-497.	7.3	61
606	Fostering comprehension and integration in mycorrhiza biology: conceptual scaffolding as an aid in teaching and exploration (sup), (sup). Botany, 2017, 95, 983-1003.	1.0	4
607	Genomic Data Quality Impacts Automated Detection of Lateral Gene Transfer in Fungi. G3: Genes, Genomes, Genetics, 2017, 7, 1301-1314.	1.8	20
608	Bulk isolation of basidiospores from wild mushrooms by electrostatic attraction with low risk of microbial contaminations. AMB Express, 2017, 7, 28.	3.0	36
609	Evolution of ectomycorrhizas as a driver of diversification and biogeographic patterns in the model mycorrhizal mushroom genus <i>Laccaria</i> . New Phytologist, 2017, 213, 1862-1873.	7.3	61
610	Fungal Mating in the Most Widespread Plant Symbionts?. Trends in Plant Science, 2017, 22, 175-183.	8.8	62
611	Coprinopsis cinerea intracellular lactonases hydrolyze quorum sensing molecules of Gram-negative bacteria. Fungal Genetics and Biology, 2017, 102, 49-62.	2.1	19
612	Structural features of the aromatic/arginine constriction in the aquaglyceroporin GintAQPF2 are responsible for glycerol impermeability in arbuscular mycorrhizal symbiosis. Fungal Biology, 2017, 121, 95-102.	2.5	4
613	Oak protein profile alterations upon root colonization by an ectomycorrhizal fungus. Mycorrhiza, 2017, 27, 109-128.	2.8	25
614	Commonalities in Symbiotic Plant-Microbe Signalling. Advances in Botanical Research, 2017, , 187-221.	1.1	9

#	Article	IF	CITATIONS
615	Fungal Genomes and Insights into the Evolution of the Kingdom., 0,, 619-633.		29
616	The Comparison of Expressed Candidate Secreted Proteins from Two Arbuscular Mycorrhizal Fungi Unravels Common and Specific Molecular Tools to Invade Different Host Plants. Frontiers in Plant Science, 2017, 8, 124.	3.6	100
617	Trade-Offs in Arbuscular Mycorrhizal Symbiosis: Disease Resistance, Growth Responses and Perspectives for Crop Breeding. Agronomy, 2017, 7, 75.	3.0	98
618	Phylogenetics and Phylogenomics of Rust Fungi. Advances in Genetics, 2017, 100, 267-307.	1.8	68
619	Regulatory networks underlying mycorrhizal development delineated by genome-wide expression profiling and functional analysis of the transcription factor repertoire of the plant symbiotic fungus Laccaria bicolor. BMC Genomics, 2017, 18, 737.	2.8	12
622	Comparative genomics provides insights into the lifestyle and reveals functional heterogeneity of dark septate endophytic fungi. Scientific Reports, 2018, 8, 6321.	3.3	138
623	Improved prediction of fungal effector proteins from secretomes with EffectorP 2.0. Molecular Plant Pathology, 2018, 19, 2094-2110.	4.2	350
624	The ectomycorrhizal basidiomycete <i>Laccaria bicolor</i> releases a secreted βâ€1,4 endoglucanase that plays a key role in symbiosis development. New Phytologist, 2018, 220, 1309-1321.	7.3	49
625	Molecular cloning and the expression pattern of AePOPB involved in the $\hat{l}_{\pm}$ -amanitin biosynthesis in Amanita exitialis fruiting bodies. Gene, 2018, 662, 123-130.	2.2	8
626	Genomewide signatures of selection in <i>Epichloë</i> reveal candidate genes for host specialization. Molecular Ecology, 2018, 27, 3070-3086.	3.9	28
627	Russulaceae: a new genomic dataset to study ecosystem function and evolutionary diversification of ectomycorrhizal fungi with their tree associates. New Phytologist, 2018, 218, 54-65.	<b>7.</b> 3	71
628	Evolution within the fungal genus <i>Verticillium</i> is characterized by chromosomal rearrangement and gene loss. Environmental Microbiology, 2018, 20, 1362-1373.	3.8	70
629	Know your enemy, embrace your friend: using omics to understand how plants respond differently to pathogenic and mutualistic microorganisms. Plant Journal, 2018, 93, 729-746.	5.7	129
630	A comprehensive Caenorhabditis elegans N-glycan shotgun array. Glycobiology, 2018, 28, 223-232.	2.5	15
631	Molecular Genetic Approaches Toward Understanding Forest-Associated Fungi and Their Interactive Roles Within Forest Ecosystems. Current Forestry Reports, 2018, 4, 72-84.	7.4	15
632	Unity in diversity: structural and functional insights into the ancient partnerships between plants and fungi. New Phytologist, 2018, 220, 996-1011.	<b>7.</b> 3	84
633	The origin and evolution of mycorrhizal symbioses: from palaeomycology to phylogenomics. New Phytologist, 2018, 220, 1012-1030.	7.3	206
634	Influences of environmental factors on fruiting body induction, development and maturation in mushroom-forming fungi. Fungal Biology Reviews, 2018, 32, 236-248.	4.7	103

#	Article	IF	CITATIONS
635	Downâ€regulation of cladofulvin biosynthesis is required for biotrophic growth of Cladosporium fulvum on tomato. Molecular Plant Pathology, 2018, 19, 369-380.	4.2	19
636	Ectomycorrhizal fungi and the enzymatic liberation of nitrogen from soil organic matter: why evolutionary history matters. New Phytologist, 2018, 217, 68-73.	7.3	117
637	Endophytism or saprophytism: Decoding the lifestyle transition of the generalist fungus Phomopsis liquidambari. Microbiological Research, 2018, 206, 99-112.	5.3	46
638	Studies on Ectomycorrhiza: An Appraisal. Botanical Review, The, 2018, 84, 108-155.	3.9	23
639	Focus on mycorrhizal symbioses. Applied Soil Ecology, 2018, 123, 299-304.	4.3	43
640	Chemical signaling involved in plant–microbe interactions. Chemical Society Reviews, 2018, 47, 1652-1704.	38.1	149
641	Crossâ€scale integration of mycorrhizal function. New Phytologist, 2018, 220, 941-946.	7.3	14
642	Genome-Wide Comparison of Carbohydrate-Active Enzymes (CAZymes) Repertoire of Flammulina ononidis. Mycobiology, 2018, 46, 349-360.	1.7	14
644	Discovery of microRNA-like RNAs during early fruiting body development in the model mushroom Coprinopsis cinerea. PLoS ONE, 2018, 13, e0198234.	2.5	28
645	A systematic revision of the ectomycorrhizal genus <i>Laccaria</i> from Korea. Mycologia, 2018, 110, 948-961.	1.9	25
646	Genomic overview of closely related fungi with different Protea host ranges. Fungal Biology, 2018, 122, 1201-1214.	2.5	1
647	Rapid Divergence of Genome Architectures Following the Origin of an Ectomycorrhizal Symbiosis in the Genus Amanita. Molecular Biology and Evolution, 2018, 35, 2786-2804.	8.9	28
649	The future has roots in the past: the ideas and scientists that shaped mycorrhizal research. New Phytologist, 2018, 220, 982-995.	7.3	53
650	Bacterial biofilm formation on the hyphae of ectomycorrhizal fungi: a widespread ability under controls?. FEMS Microbiology Ecology, 2018, 94, .	2.7	43
651	The Genome Sequences of 90 Mushrooms. Scientific Reports, 2018, 8, 9982.	3.3	73
652	Investigation of lignocellulolytic enzymes during different growth phases of Ganoderma lucidum strain G0119 using genomic, transcriptomic and secretomic analyses. PLoS ONE, 2018, 13, e0198404.	2.5	26
653	Plant growth stages and fertilization regimes drive soil fungal community compositions in a wheat-rice rotation system. Biology and Fertility of Soils, 2018, 54, 731-742.	4.3	57
654	Origin, evolution, and divergence of plant class C GH9 endoglucanases. BMC Evolutionary Biology, 2018, 18, 79.	3.2	6

#	ARTICLE	IF	CITATIONS
655	The genome of Rhizophagus clarus HR1 reveals a common genetic basis for auxotrophy among arbuscular mycorrhizal fungi. BMC Genomics, 2018, 19, 465.	2.8	91
656	The Hydrophobin-Like OmSSP1 May Be an Effector in the Ericoid Mycorrhizal Symbiosis. Frontiers in Plant Science, 2018, 9, 546.	3.6	20
657	Plant-Microbe Interaction and Genome Sequencing: An Evolutionary Insight., 2018,, 427-449.		0
658	A genetic linkage map of Pleurotus tuoliensis integrated with physical mapping of the de novo sequenced genome and the mating type loci. BMC Genomics, 2018, 19, 18.	2.8	34
659	Secretome Analysis from the Ectomycorrhizal Ascomycete Cenococcum geophilum. Frontiers in Microbiology, 2018, 9, 141.	3.5	24
660	Recent Insights on Biological and Ecological Aspects of Ectomycorrhizal Fungi and Their Interactions. Frontiers in Microbiology, 2018, 9, 216.	3.5	29
661	Symbiotic Tripartism in the Model Plant Family of Legumes and Soil Sustainability., 2018, , 173-203.		1
662	Ecology and Evolution of the Amanita Cyclic Peptide Toxins. , 2018, , 167-204.		0
663	Trees, fungi and bacteria: tripartite metatranscriptomics of a root microbiome responding to soil contamination. Microbiome, 2018, 6, 53.	11,1	88
664	Genome Sequencing and Carbohydrate-Active Enzyme (CAZyme) Repertoire of the White Rot Fungus Flammulina elastica. International Journal of Molecular Sciences, 2018, 19, 2379.	4.1	47
665	The genome sequence of the commercially cultivated mushroom Agrocybe aegerita reveals a conserved repertoire of fruiting-related genes and a versatile suite of biopolymer-degrading enzymes. BMC Genomics, 2018, 19, 48.	2.8	39
666	The Cyclic Peptide Toxins of Amanita and Other Poisonous Mushrooms. , 2018, , .		20
667	Processes underlying the effect of mycorrhizal symbiosis on plant-plant interactions. Fungal Ecology, 2019, 40, 98-106.	1.6	19
668	Mediation of plant–mycorrhizal interaction by a lectin receptor-like kinase. Nature Plants, 2019, 5, 676-680.	9.3	42
669	Fungal Diversity: Global Perspective and Ecosystem Dynamics. , 2019, , 83-113.		6
670	The lichen symbiosis re-viewed through the genomes of Cladonia grayi and its algal partner Asterochloris glomerata. BMC Genomics, 2019, 20, 605.	2.8	98
671	Beneficial microbes going underground of root immunity. Plant, Cell and Environment, 2019, 42, 2860-2870.	5.7	133
672	Comparative genomics reveals unique woodâ€decay strategies and fruiting body development in the Schizophyllaceae. New Phytologist, 2019, 224, 902-915.	7.3	53

#	Article	IF	CITATIONS
673	<i>Laccaria bicolor</i> MiSSP8 is a smallâ€secreted protein decisive for the establishment of the ectomycorrhizal symbiosis. Environmental Microbiology, 2019, 21, 3765-3779.	3.8	45
674	Mycorrhizal Fungi as Mediators of Soil Organic Matter Dynamics. Annual Review of Ecology, Evolution, and Systematics, 2019, 50, 237-259.	8.3	233
675	Pleurotus eryngii Genomes Reveal Evolution and Adaptation to the Gobi Desert Environment. Frontiers in Microbiology, 2019, 10, 2024.	3.5	19
677	Ectomycorrhizal and Saprotrophic Fungal Communities Vary Across mm-Scale Soil Microsites Differing in Phosphatase Activity. Pedosphere, 2019, 29, 344-359.	4.0	5
678	Genomic Analyses Provide Insights Into the Evolutionary History and Genetic Diversity of Auricularia Species. Frontiers in Microbiology, 2019, 10, 2255.	3.5	12
679	Genomic Insights into the Fungal Lignocellulolytic Machinery of Flammulina rossica. Microorganisms, 2019, 7, 421.	3.6	5
680	Microscopic, Biochemical, and Molecular Comparisons of Moderately Resistant and Susceptible Populus Genotypes Inoculated with Sphaerulina musiva. Phytopathology, 2019, 109, 2074-2086.	2.2	5
681	Carbon assimilation profiles of mucoralean fungi show their metabolic versatility. Scientific Reports, 2019, 9, 11864.	3.3	17
682	Comparative genomics of chytrid fungi reveal insights into the obligate biotrophic and pathogenic lifestyle of Synchytrium endobioticum. Scientific Reports, 2019, 9, 8672.	3.3	36
683	Effector proteins of Rhizophagus proliferus: conserved protein domains may play a role in host-specific interaction with different plant species. Brazilian Journal of Microbiology, 2019, 50, 593-601.	2.0	15
684	Conversion from mutualism to parasitism: a mutant of the ectomycorrhizal agaricomycete <i>Tricholoma matsutake</i> that induces stunting, wilting, and root degeneration in seedlings of its symbiotic partner, <i>Pinus densiflora</i> , in vitro. Botany, 2019, 97, 463-474.	1.0	7
685	Aminotenuazonic Acid: Isolation, Structure Elucidation, Total Synthesis and Herbicidal Activity of a New Tetramic Acid from Fruiting Bodies ofLaccariaSpecies. Chemistry - A European Journal, 2019, 25, 10333-10341.	3.3	3
686	<i>E</i> à€and <i>Z</i> â€Proxamidines, Unprecedented 1,3â€Diazacyclooctâ€1â€ene Alkaloids from Fruiting Boof <i>Laccaria proxima</i> . Chemistry - A European Journal, 2019, 25, 8035-8042.	dies 3.3	4
687	Fungal evolution: major ecological adaptations and evolutionary transitions. Biological Reviews, 2019, 94, 1443-1476.	10.4	181
688	Broadâ $\in$ specificity GH131 $\hat{i}^2$ â $\in$ glucanases are a hallmark of fungi and oomycetes that colonize plants. Environmental Microbiology, 2019, 21, 2724-2739.	3.8	18
689	Molecular Signalling During the Ectomycorrhizal Symbiosis. , 2019, , 95-109.		3
690	Identification of Populus Small RNAs Responsive to Mutualistic Interactions With Mycorrhizal Fungi, Laccaria bicolor and Rhizophagus irregularis. Frontiers in Microbiology, 2019, 10, 515.	3.5	17
691	Comparative genomics of 40 edible and medicinal mushrooms provide an insight into the evolution of lignocellulose decomposition mechanisms. 3 Biotech, 2019, 9, 157.	2.2	14

#	Article	IF	CITATIONS
693	The effects of co-colonising ectomycorrhizal fungi on mycorrhizal colonisation and sporocarp formation in Laccaria japonica colonising seedlings of Pinus densiflora. Mycorrhiza, 2019, 29, 207-218.	2.8	5
694	Nematicidal anthranilic acid derivatives from Laccaria species. Phytochemistry, 2019, 160, 85-91.	2.9	9
695	Diversity of cytosine methylation across the fungal tree of life. Nature Ecology and Evolution, 2019, 3, 479-490.	7.8	98
696	The Ectomycorrhizal Fungus <i>Laccaria bicolor</i> Produces Lipochitooligosaccharides and Uses the Common Symbiosis Pathway to Colonize <i>Populus</i> Roots. Plant Cell, 2019, 31, 2386-2410.	6.6	73
697	Notes, outline and divergence times of Basidiomycota. Fungal Diversity, 2019, 99, 105-367.	12.3	256
698	Microbial Genomics in Sustainable Agroecosystems. , 2019, , .		5
699	Comparative Genomics and Transcriptomics To Analyze Fruiting Body Development in Filamentous Ascomycetes. Genetics, 2019, 213, 1545-1563.	2.9	14
700	Construction of a genetic linkage map of <i>Lentinula edodes</i> based on SSR, SRAP and TRAP markers. Breeding Science, 2019, 69, 585-591.	1.9	6
701	Bacterial community on ectomycorrhizal roots of Laccaria laccata in a chestnut plantation. Mycoscience, 2019, 60, 40-44.	0.8	7
702	Atmospheric nitrogen deposition impacts on the structure and function of forest mycorrhizal communities: A review. Environmental Pollution, 2019, 246, 148-162.	7.5	147
703	Identification and expression analysis of Pofst3 suggests a role during Pleurotus ostreatus primordia formation. Fungal Biology, 2019, 123, 200-208.	2.5	17
704	Pseudomonas fluorescens increases mycorrhization and modulates expression of antifungal defense response genes in roots of aspen seedlings. BMC Plant Biology, 2019, 19, 4.	3.6	28
705	Arms race: diverse effector proteins with conserved motifs. Plant Signaling and Behavior, 2019, 14, 1557008.	2.4	54
706	The soil organic matter decomposition mechanisms in ectomycorrhizal fungi are tuned for liberating soil organic nitrogen. ISME Journal, 2019, 13, 977-988.	9.8	128
707	The ectomycorrhizal contribution to tree nutrition. Advances in Botanical Research, 2019, , 77-126.	1.1	44
708	The complete mitochondrial genomes of two model ectomycorrhizal fungi (Laccaria): features, intron dynamics and phylogenetic implications. International Journal of Biological Macromolecules, 2020, 145, 974-984.	7.5	52
709	A fungal family of lytic polysaccharide monooxygenase-like copper proteins. Nature Chemical Biology, 2020, 16, 345-350.	8.0	63
710	Transcriptome data reveal conserved patterns of fruiting body development and response to heat stress in the mushroom-forming fungus Flammulina filiformis. PLoS ONE, 2020, 15, e0239890.	2.5	20

#	Article	IF	CITATIONS
711	Large-scale genome sequencing of mycorrhizal fungi provides insights into the early evolution of symbiotic traits. Nature Communications, 2020, 11, 5125.	12.8	258
712	Unique and common traits in mycorrhizal symbioses. Nature Reviews Microbiology, 2020, 18, 649-660.	28.6	277
713	Novel Laccaria Species From Juglandaceae Forest in Panama With Notes on Their Ecology. Frontiers in Microbiology, 2020, 11, 1597.	3.5	5
714	Trends in sample preparation and separation methods for the analysis of very polar and ionic compounds in environmental water and biota samples. Analytical and Bioanalytical Chemistry, 2020, 412, 6149-6165.	3.7	54
715	Allopatric instead of parapatric divergence in an ectomycorrhizal fungus (Laccaria) Tj ETQq0 0 0 rgBT /Overlock 1	.0 <u>Tf</u> 50 58	82 Td (tricho
716	Phylogenomic Analyses of Non-Dikarya Fungi Supports Horizontal Gene Transfer Driving Diversification of Secondary Metabolism in the Amphibian Gastrointestinal Symbiont, <i>Basidiobolus </i> . G3: Genes, Genomes, Genetics, 2020, 10, 3417-3433.	1.8	27
717	The phoma-like dilemma. Studies in Mycology, 2020, 96, 309-396.	7.2	87
718	Phylogenetic origins and family classification of typhuloid fungi, with emphasis on Ceratellopsis, Macrotyphula and Typhula (Basidiomycota). Studies in Mycology, 2020, 96, 155-184.	7.2	17
719	Genome-wide mRNA and miRNA analysis in the early stages of germ tube outgrowth in Coprinopsis cinerea. Fungal Genetics and Biology, 2020, 142, 103416.	2.1	11
720	Genome Assembly and Pathway Analysis of Edible Mushroom Agrocybe cylindracea. Genomics, Proteomics and Bioinformatics, 2020, 18, 341-351.	6.9	18
721	Draft genomic sequence of Armillaria gallica 012m: insights into its symbiotic relationship with Gastrodia elata. Brazilian Journal of Microbiology, 2020, 51, 1539-1552.	2.0	21
722	Fluorescent protein expression in the ectomycorrhizal fungus Laccaria bicolor: a plasmid toolkit for easy use of fluorescent markers in basidiomycetes. Current Genetics, 2020, 66, 791-811.	1.7	7
723	Seeking the Roles for Fungal Small-Secreted Proteins in Affecting Saprophytic Lifestyles. Frontiers in Microbiology, 2020, 11, 455.	3.5	38
724	IPA-1 a Putative Chromatin Remodeler/Helicase-Related Protein of <i>Trichoderma virens</i> Plays Important Roles in Antibiosis Against <i>Rhizoctonia solani</i> and Induction of <i>Arabidopsis</i> Systemic Disease Resistance. Molecular Plant-Microbe Interactions, 2020, 33, 808-824.	2.6	10
725	The small secreted effector protein MiSSP7.6 of <i>Laccaria bicolor</i> is required for the establishment of ectomycorrhizal symbiosis. Environmental Microbiology, 2020, 22, 1435-1446.	3.8	37
726	Arbuscular mycorrhizal fungi enhanced drought resistance in apple by regulating genes in the MAPK pathway. Plant Physiology and Biochemistry, 2020, 149, 245-255.	5.8	89
727	Mucoromycota: going to the roots of plant-interacting fungi. Fungal Biology Reviews, 2020, 34, 100-113.	4.7	75
728	Taxonomic study of Endogonaceae in the Japanese islands: New species of Endogone, Jimgerdemannia, and Vinositunica, gen. nov Mycologia, 2020, 112, 309-328.	1.9	4

#	Article	IF	CITATIONS
729	Digging Deeper: In Search of the Mechanisms of Carbon and Nitrogen Exchange in Ectomycorrhizal Symbioses. Frontiers in Plant Science, 2019, 10, 1658.	3.6	46
730	Unusual genome expansion and transcription suppression in ectomycorrhizal Tricholoma matsutake by insertions of transposable elements. PLoS ONE, 2020, 15, e0227923.	2.5	15
731	Soil phosphorus mobilization and utilization by Suillus isolates and Suillus-mycorrhized pine plants. Forest Ecology and Management, 2021, 483, 118772.	3.2	3
732	Genomic Analysis Enlightens Agaricales Lifestyle Evolution and Increasing Peroxidase Diversity. Molecular Biology and Evolution, 2021, 38, 1428-1446.	8.9	72
733	Isolation of a gene cluster from Armillaria gallica for the synthesis of armillyl orsellinate–type sesquiterpenoids. Applied Microbiology and Biotechnology, 2021, 105, 211-224.	3.6	8
734	Comparative genomics reveals dynamic genome evolution in host specialist ectomycorrhizal fungi. New Phytologist, 2021, 230, 774-792.	7.3	37
735	Draft Genome Sequence of the White-Rot Fungus <i>Schizophyllum Commune</i> IUM1114-SS01. Mycobiology, 2021, 49, 86-88.	1.7	4
736	Desert truffle genomes reveal their reproductive modes and new insights into plant–fungal interaction and ectendomycorrhizal lifestyle. New Phytologist, 2021, 229, 2917-2932.	7.3	19
737	Next Generation Sequencing: Transcriptomics. , 2021, , 1-11.		0
738	Mucoromycotina Fungi Possess the Ability to Utilize Plant Sucrose as a Carbon Source: Evidence From Gongronella sp. w5. Frontiers in Microbiology, 2020, 11, 591697.	3.5	3
739	Transposable Elements in Fungi: Coevolution With the Host Genome Shapes, Genome Architecture, Plasticity and Adaptation., 2021,, 142-155.		5
741	Comparative Mitogenomic Analysis Reveals Dynamics of Intron Within and Between Tricholoma Species and Phylogeny of Basidiomycota. Frontiers in Genetics, 2021, 12, 534871.	2.3	13
744	Argon-ion beam induced mutants of the ectomycorrhizal agaricomycete <i>Tricholoma matsutake</i> defective in $\hat{l}^2$ -1,4-endoglucanase activity promote the seedling growth of <i>Pinus densiflora</i> in vitro. Botany, 2021, 99, 139-149.	1.0	3
745	Effector Profiles of Endophytic Fusarium Associated with Asymptomatic Banana (Musa sp.) Hosts. International Journal of Molecular Sciences, 2021, 22, 2508.	4.1	11
746	Long-term experimental warming and fertilization have opposing effects on ectomycorrhizal root enzyme activity and fungal community composition in Arctic tundra. Soil Biology and Biochemistry, 2021, 154, 108151.	8.8	13
747	Two new Laccaria species from China based on molecular and morphological evidence. Mycological Progress, 2021, 20, 567-576.	1.4	4
749	Identification of hydrophobin genes and their physiological functions related to growth and development in Pleurotus ostreatus. Microbiological Research, 2021, 247, 126723.	5.3	18
750	Distribution of methionine sulfoxide reductases in fungi and conservation of the free-methionine-R-sulfoxide reductase in multicellular eukaryotes. Free Radical Biology and Medicine, 2021, 169, 187-215.	2.9	9

#	Article	IF	CITATIONS
751	Determination of Diversity, Distribution and Host Specificity of Korean <i>Laccaria</i> Using Four Approaches. Mycobiology, 2021, 49, 461-468.	1.7	0
752	Genome-Wide Analysis of Nutrient Signaling Pathways Conserved in Arbuscular Mycorrhizal Fungi. Microorganisms, 2021, 9, 1557.	3.6	9
753	Draft Genome Sequence of the Ectomycorrhizal Fungus Astraeus odoratus from Northern Thailand. Microbiology Resource Announcements, 2021, 10, e0004421.	0.6	0
755	Quo vadis: signaling molecules and small secreted proteins from mycorrhizal fungi at the early stage of mycorrhiza formation. Symbiosis, 2021, 85, 123-143.	2.3	8
756	A novel plant-fungal association reveals fundamental sRNA and gene expression reprogramming at the onset of symbiosis. BMC Biology, 2021, 19, 171.	3.8	10
757	Transcriptomic markers of fungal growth, respiration and carbon-use efficiency. FEMS Microbiology Letters, 2021, 368, .	1.8	6
758	Evolution of the Mode of Nutrition in Symbiotic and Saprotrophic Fungi in Forest Ecosystems. Annual Review of Ecology, Evolution, and Systematics, 2021, 52, 385-404.	8.3	26
<b>7</b> 59	Transcriptome Profiling Reveals Differential Gene Expression of Secreted Proteases and Highly Specific Gene Repertoires Involved in Lactarius–Pinus Symbioses. Frontiers in Plant Science, 2021, 12, 714393.	3.6	12
760	Towards engineering ectomycorrhization into switchgrass bioenergy crops via a lectin receptorâ€like kinase. Plant Biotechnology Journal, 2021, 19, 2454-2468.	8.3	14
761	In-depth Phylogenomic Analysis of Arbuscular Mycorrhizal Fungi Based on a Comprehensive Set of de novo Genome Assemblies. Frontiers in Fungal Biology, 2021, 2, .	2.0	15
762	Whole-genome assembly of <i>Ganoderma leucocontextum </i> (Ganodermataceae, Fungi) discovered from the Tibetan Plateau of China. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	11
763	Genome of Ganoderma Species Provides Insights Into the Evolution, Conifers Substrate Utilization, and Terpene Synthesis for Ganoderma tsugae. Frontiers in Microbiology, 2021, 12, 724451.	3.5	13
765	The phyllosphere mycobiome of woody plants. , 2021, , 111-132.		2
766	Evolution of lignin decomposition systems in fungi. Advances in Botanical Research, 2021, 99, 37-76.	1.1	10
767	Defense and Nutrient Mutualisms in Populus. , 2010, , 247-277.		8
768	Populus Resources and Bioinformatics. , 2010, , 135-152.		3
769	NLR Function in Fungi as Revealed by the Study of Self/Non-self Recognition Systems., 2020, , 123-141.		8
770	Mycorrhization of Fagaceae Forests Within Mediterranean Ecosystems. , 2017, , 75-97.		3

#	ARTICLE	IF	Citations
771	Global Patterns of Mycorrhizal Distribution and Their Environmental Drivers. Ecological Studies, 2017, , 223-235.	1.2	16
772	Using Formal Concept Analysis for the Extraction of Groups of Co-expressed Genes. Communications in Computer and Information Science, 2008, , 439-449.	0.5	20
773	Communication of Fungi on Individual, Species, Kingdom, and Above Kingdom Levels., 2009,, 79-106.		14
774	Comparative Evolutionary Histories of Fungal Chitinases. , 2009, , 323-337.		1
775	Two FCA-Based Methods for Mining Gene Expression Data. Lecture Notes in Computer Science, 2009, , 251-266.	1.3	22
776	The Molecular Ectomycorrhizal Fungus Essence in Association: A Review of Differentially Expressed Fungal Genes During Symbiosis Formation. Soil Biology, 2011, , 87-121.	0.8	2
777	Carbon Sequestration., 2013,, 415-455.		3
778	Recent Advances on the Genomics of Litter- and Soil-Inhabiting Agaricomycetes. Soil Biology, 2013, , 311-332.	0.8	11
779	Fungal Genomics for Energy and Environment. Soil Biology, 2013, , 11-27.	0.8	4
780	Trichoderma: Genomic Aspects of Mycoparasitism and Biomass Degradation. Soil Biology, 2013, , 127-156.	0.8	5
781	4 Genome Data Drives Change at Culture Collections. , 2014, , 81-96.		8
782	7 Genomics and Transcriptomics to Analyze Fruiting Body Development. , 2014, , 149-172.		13
783	Ectomycorrhizal Fungi and Their Applications. , 2015, , 315-326.		1
784	Ecological Genomics of Adaptation and Speciation in Fungi. Advances in Experimental Medicine and Biology, 2014, 781, 49-72.	1.6	8
785	Ectomycorrhizal Diversity and Tree Sustainability., 2019, , 145-166.		2
786	Microbial Inoculation of Seeds for Better Plant Growth and Productivity. , 2019, , 523-550.		3
787	Truffle's savoury secret revealed. Nature, 0, , .	27.8	1
788	Codon models applied to the study of fungal genomes. , 2012, , 164-186.		2

#	Article	IF	CITATIONS
789	Human Pathogens on Plants: Designing a Multidisciplinary Strategy for Research. Phytopathology, 2014, , PHYTO-09-12-023.	2.2	1
796	Sexual Reproduction of Cryptococcus. , 0, , 81-96.		3
797	Metatranscriptomic Study of Common and Host-Specific Patterns of Gene Expression between Pines and Their Symbiotic Ectomycorrhizal Fungi in the Genus Suillus. PLoS Genetics, 2016, 12, e1006348.	3.5	82
798	Using Deep RNA Sequencing for the Structural Annotation of the Laccaria Bicolor Mycorrhizal Transcriptome. PLoS ONE, 2010, 5, e9780.	2.5	32
799	Intraspecific Diversity Regulates Fungal Productivity and Respiration. PLoS ONE, 2010, 5, e12604.	2.5	28
800	Characterization of Transposable Elements in the Ectomycorrhizal Fungus Laccaria bicolor. PLoS ONE, 2012, 7, e40197.	2.5	38
801	Mycorrhiza Reduces Adverse Effects of Dark Septate Endophytes (DSE) on Growth of Conifers. PLoS ONE, 2012, 7, e42865.	2.5	55
802	Deep Insight into the Ganoderma lucidum by Comprehensive Analysis of Its Transcriptome. PLoS ONE, 2012, 7, e44031.	2.5	60
803	Genome-Wide Transcriptome and Proteome Analysis on Different Developmental Stages of Cordyceps militaris. PLoS ONE, 2012, 7, e51853.	2.5	78
804	Transcriptome and Proteome Exploration to Provide a Resource for the Study of Agrocybe aegerita. PLoS ONE, 2013, 8, e56686.	2.5	56
805	Sequencing and Comparative Analysis of the Straw Mushroom (Volvariella volvacea) Genome. PLoS ONE, 2013, 8, e58294.	2.5	143
806	Oak Root Response to Ectomycorrhizal Symbiosis Establishment: RNA-Seq Derived Transcript Identification and Expression Profiling. PLoS ONE, 2014, 9, e98376.	2.5	45
807	Vanadate Influence on Metabolism of Sugar Phosphates in Fungus Phycomyces blakesleeanus. PLoS ONE, 2014, 9, e102849.	2.5	10
808	Several Genes Encoding Enzymes with the Same Activity Are Necessary for Aerobic Fungal Degradation of Cellulose in Nature. PLoS ONE, 2014, 9, e114138.	2.5	37
809	MicroRNA-Like Small RNAs Prediction in the Development of Antrodia cinnamomea. PLoS ONE, 2015, 10, e0123245.	2.5	35
810	Analysis of the Phialocephala subalpina Transcriptome during Colonization of Its Host Plant Picea abies. PLoS ONE, 2016, 11, e0150591.	2.5	11
811	Genome Sequence of the Edible Cultivated Mushroom Lentinula edodes (Shiitake) Reveals Insights into Lignocellulose Degradation. PLoS ONE, 2016, 11, e0160336.	2.5	110
812	Transposable Elements in Fungi: A Genomic Approach. , 0, , 012-016.		14

#	Article	IF	CITATIONS
813	A novel lectin with antiproliferative activity from the medicinal mushroom Pholiota adiposa Acta Biochimica Polonica, 2009, 56, .	0.5	83
814	Prime Editing Technology and Its Prospects for Future Applications in Plant Biology Research. Biodesign Research, 2020, 2020, .	1.9	34
815	Genomics and metagenomics technologies to recover ribosomal DNA and single-copy genes from old fruit-body and ectomycorrhiza specimens. MycoKeys, 0, 13, 1-20.	1.9	21
816	The Mushroom Lectins Show Three Types of Conserved Domain in a Bioinformatics Analysis. American Journal of Biochemistry and Molecular Biology, 2011, 1, 375-388.	0.6	2
817	Detection of a Histidine Kinase mRNA in Extraradical Mycelium of Pisolithus tinctorius Induced by the Plant Metabolites. Pakistan Journal of Biological Sciences, 2009, 12, 189-191.	0.5	1
818	Carbohydrate Recognition Mechanism of the Mushroom Galectin ACG. Trends in Glycoscience and Glycotechnology, 2018, 30, SJ33-SJ46.	0.1	8
819	Proteomics Methodology Applied to the Analysis of Filamentous Fungi - New Trends for an Impressive Diverse Group of Organisms. , 0, , .		3
821	Structural plasticity in root-fungal symbioses: diverse interactions lead to improved plant fitness. Peerl, 2018, 6, e6030.	2.0	47
822	Soil Layers Matter: Vertical Stratification of Root-Associated Fungal Assemblages in Temperate Forests Reveals Differences in Habitat Colonization. Microorganisms, 2021, 9, 2131.	3.6	6
823	Changes in soil bacterial and fungal communities in response to Bacillus megaterium NCT-2 inoculation in secondary salinized soil. PeerJ, 2021, 9, e12309.	2.0	0
824	Identification and characterization of eight metallothionein genes involved in heavy metal tolerance from the ectomycorrhizal fungus Laccaria bicolor. Environmental Science and Pollution Research, 2021, , 1.	5.3	2
825	Nucleus-directed fluorescent reporter system for promoter studies in the ectomycorrhizal fungus Laccaria bicolor. Journal of Microbiological Methods, 2021, 190, 106341.	1.6	1
826	Genes induced in cellulose degradation of the saprogenic basidiomycete Coprinus cinereus. MOKUZAI HOZON (Wood Protection), 2008, 34, 269-280.	0.0	0
828	The Populus Genome Initiative. , 2010, , 243-274.		0
829	RNA Silencing in Ectomycorrhizal Fungi. Soil Biology, 2011, , 177-206.	0.8	0
830	Agrobacterium tumefaciens-Mediated Transformation of Ectomycorrhizal Fungi. Soil Biology, 2011, , 123-141.	0.8	0
832	The Populus Genome Sequence. , 2011, , 85-111.		0
833	The full length & Discourse Th	gBT /Overlo 0.3	ock 10 Tf 50 0

#	Article	IF	Citations
834	Genomics and Spectroscopy Provide Novel Insights into the Mechanisms of Litter Decomposition and Nitrogen Assimilation by Ectomycorrhizal Fungi. Soil Biology, 2013, , 191-211.	0.8	0
835	Genome Portal, Joint Genome Institute. , 2013, , 1-10.		0
836	Effectiveness and durability of the rice <i>Pi-ta</i> gene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2,2	0
837	Effectiveness and durability of the rice <i>Pi-ta</i> gene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	0
838	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	0
839	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-001.	2.2	0
840	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-001.	2.2	0
841	Human Pathogens on Plants: Designing a Multidisciplinary Strategy for Research. Phytopathology, 2014, , PHYTO-09-12-023.	2.2	10
842	Effectiveness and durability of the rice <i>Pi-ta</i> gene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-001.	2.2	0
843	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	0
844	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	0
845	Effectiveness and durability of the rice <i>Pi-ta</i> gene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	0
846	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-001.	2.2	0
847	The Importance of Multilocus Sequence Typing: Cautionary Tales from the Bacterium (i>Xylella fastidiosa (i>). Phytopathology, 2014, , PHYTO-10-11-029.	2.2	5
848	Effectiveness and durability of the rice <i>Pi-ta</i> gene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	0
849	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-001.	2.2	0
850	Effectiveness and durability of the rice <i>Pi-ta</i> gene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-001.	2.2	0
851	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	O

#	Article	IF	CITATIONS
852	Effectiveness and durability of the rice <i>Pi-ta</i> gene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-001.	2.2	0
853	Effectiveness and durability of the ricePi-tagene in Yunnan province of China. Phytopathology, 0, , PHYTO-11-13-000.	2.2	0
854	Evaluation of pepper fruit for resistance to Phytophthora capsiciin a recombinant inbred line population, and the correlation with fruit shape. Plant Disease, 2015, 4015, 101-105.	1.4	0
855	Microbe-Independent Entry of Oomycete RxLR Effectors and Fungal RxLR-Like Effectors Into Plant and Animal Cells Is Specific and Reproducible. Molecular Plant-Microbe Interactions, 2015, 2015, 51-56.	2.6	0
856	Evaluation of pepper fruit for resistance to <i>Phytophthora capsici</i> in a recombinant inbred line population, and the correlation with fruit shape. Plant Disease, 0, , PDIS-03-13-0295.	1.4	0
857	Fungi as Scavengers. , 2016, , 91-110.		0
858	Whole Genome Analysis of Fungi. Journal of Bacteriology & Mycology Open Access, 2016, 2, .	0.2	0
862	Affiliation of Dihydrolipoyl Dehydrogenase Allozymes in Mycorrhizae of European Forest Trees and Characterization of the Enzyme of the Matt Bolete ( <i>Xerocomus pruinatus</i> ) and the Bay Bolete ( <i>X. badius</i> ). Open Journal of Ecology, 2018, 08, 356-377.	1.0	0
863	Carbohydrate Recognition Mechanism of the Mushroom Galectin ACG. Trends in Glycoscience and Glycotechnology, 2018, 30, SE75-SE88.	0.1	3
864	Functional Genomics of Microbial Pathogens for Crop Improvement. , 2019, , 145-162.		0
865	Recent Developments in Ectomycorrhizal Research. , 2019, , 301-323.		1
867	Continuous Spectrum of Lifestyles of Plant-Associated Fungi Under Fluctuating Environments: What Genetic Components Determine the Lifestyle Transition?. , 2020, , 117-132.		0
868	EffectorP 3.0: Prediction of Apoplastic and CytoplasmicÂEffectors in Fungi and Oomycetes. Molecular Plant-Microbe Interactions, 2022, 35, 146-156.	2.6	179
869	Comparative Analysis of Carbohydrate Active Enzymes in the Flammulina velutipes var. lupinicola Genome. Microorganisms, 2021, 9, 20.	3.6	3
870	Whole genome sequencing of an edible and medicinal mushroom, Russula griseocarnosa, and its association with mycorrhizal characteristics. Gene, 2022, 808, 145996.	2.2	4
871	Biotechnological Aspects of Microbial Pretreatment of Lignocellulosic Biomass. Clean Energy Production Technologies, 2020, , 121-150.	0.5	2
872	9 FungalÂGenomics. , 2020, , 207-224.		0
873	Comparación entre las abundancias de esporomas y ectomicorrizas del género Laccaria en Ixtlán de Juárez, Oaxaca. Revista Mexicana De Biodiversidad, 2020, 91, 913340.	0.4	3

#	Article	IF	Citations
874	Reverse transcriptase and intron number evolution. Stem Cell Investigation, 2014, 1, 17.	3.0	5
875	Role of CFEM Domain-Containing Protein in Systemic Resistance Induced by <i>Falciphora oryzae</i> to Rice Blast. SSRN Electronic Journal, 0, , .	0.4	0
876	Transcriptional Landscape of Ectomycorrhizal Fungi and Their Host Provides Insight into N Uptake from Forest Soil. MSystems, 2022, 7, e0095721.	3.8	11
878	<i>Synchytrium endobioticum</i> , the potato wart disease pathogen. Molecular Plant Pathology, 2022, 23, 461-474.	4.2	10
879	The ectomycorrhizal basidiomycete <i>Laccaria bicolor</i> releases a GH28 polygalacturonase that plays a key role in symbiosis establishment. New Phytologist, 2022, 233, 2534-2547.	7.3	16
880	Predictors of taxonomic and functional composition of black spruce seedling ectomycorrhizal fungal communities along peatland drainage gradients. Mycorrhiza, 2022, 32, 67-81.	2.8	7
881	Plant–Microbe Interactions in Combating Abiotic Stresses. Advances in Science, Technology and Innovation, 2022, , 217-234.	0.4	2
882	Expanding the Biological Role of Lipo-Chitooligosaccharides and Chitooligosaccharides in Laccaria bicolor Growth and Development. Frontiers in Fungal Biology, 2022, 3, .	2.0	4
883	Full Issue PDF. Molecular Plant-Microbe Interactions, 2022, 35, 97-176.	2.6	0
884	Distribution and regulatory roles of oxidized 5-methylcytosines in DNA and RNA of the basidiomycete fungi <i>Laccaria bicolor</i> and <i>Coprinopsis cinerea</i> . Open Biology, 2022, 12, 210302.	3.6	4
885	Structure–function relationship of a novel fucoside-binding fruiting body lectin from <i>Coprinopsis cinerea</i> exhibiting nematotoxic activity. Glycobiology, 2022, , .	2.5	2
886	Phylogenomics and Comparative Genomics Highlight Specific Genetic Features in Ganoderma Species. Journal of Fungi (Basel, Switzerland), 2022, 8, 311.	3.5	10
888	Rhizophagus proliferus genome sequence reiterates conservation of genetic traits in AM fungi, but predicts higher saprotrophic activity. Archives of Microbiology, 2022, 204, 105.	2.2	1
889	Molecular Evolution of Lysine Biosynthesis in Agaricomycetes. Journal of Fungi (Basel, Switzerland), 2022, 8, 37.	3.5	3
890	Morphoanatomical and phylogenetic characterization of the ectomycorrhiza between & lt;em>Laccaria squarrosa with & lt;em>Pinus pseudostrobus and its relevance for reforestation programs. Botanical Sciences, 2022, 100, 397-411.	0.8	0
891	Genomic landscape of a relict fir-associated fungus reveals rapid convergent adaptation towards endophytism. ISME Journal, 2022, 16, 1294-1305.	9.8	3
892	A Transcriptomic Atlas of the Ectomycorrhizal Fungus Laccaria bicolor. Microorganisms, 2021, 9, 2612.	3.6	11
939	Phylogenetic assessment of Chromocyphellaceae (Agaricineae, Basidiomycota) and a new lamellate species of Chromocyphella. Mycologia, 2017, 109, 578-587.	1.9	3

#	Article	IF	CITATIONS
941	Mechanistic insights into phenanthrene acropetal translocation via wheat xylem: Separation and identification of transfer proteins. Science of the Total Environment, 2022, 838, 155919.	8.0	2
943	The Transcription Factor Roc1 Is a Key Regulator of Cellulose Degradation in the Wood-Decaying Mushroom <i>Schizophyllum commune</i> ). MBio, 2022, 13, .	4.1	10
944	Fungal Effector Proteins: Molecular Mediators of Fungal Symbionts of Plants. Rhizosphere Biology, 2022, , 297-321.	0.6	1
945	Ectomycorrhizal Symbiosis: From Genomics to Trans-Kingdom Molecular Communication and Signaling. Rhizosphere Biology, 2022, , 273-296.	0.6	2
946	The Potential for Cellulose Deconstruction in Fungal Genomes. Encyclopedia, 2022, 2, 990-1003.	4.5	2
949	<i>Laccaria bicolor</i> pectin methylesterases are involved in ectomycorrhiza development with <i>Populus tremula</i> × <i>Populus tremula</i>	7.3	7
950	Mycorrhizaâ€induced mycocypins of <i>Laccaria bicolor</i> are potent protease inhibitors with nematotoxic and collembola antifeedant activity. Environmental Microbiology, 2022, 24, 4607-4622.	3.8	2
952	Evolution of pathogenicity in obligate fungal pathogens and allied genera. PeerJ, 0, 10, e13794.	2.0	2
953	Identification of upregulated genes in <i>Tricholoma matsutake</i> mycorrhiza. FEMS Microbiology Letters, 2022, 369, .	1.8	2
954	Metals and metalloids stress in plants: microorganisms and phytoremediation based mitigation strategies., 2022,, 445-484.		2
955	How to reconnect mycorrhizal research with natural environments. Environmental Microbiology, 2023, 25, 59-63.	3.8	1
956	A High-quality genome assembly of <i>Lactarius hatsudake</i> strain JH5. G3: Genes, Genomes, Genetics, 0, , .	1.8	0
957	Whole-Genome Sequencing and Comparative Genomics Analysis of the Wild Edible Mushroom (Gomphus purpuraceus) Provide Insights into Its Potential Food Application and Artificial Domestication. Genes, 2022, 13, 1628.	2.4	4
958	Massive genome investigations reveal insights of prevalent introgression for environmental adaptation and triterpene biosynthesis in <i>Ganoderma</i> . Molecular Ecology Resources, 0, , .	4.8	4
959	Fungal Effectoromics: A World in Constant Evolution. International Journal of Molecular Sciences, 2022, 23, 13433.	4.1	9
960	Morphological and Transcriptional Characteristics of the Symbiotic Interaction between Pinus massoniana and Suillus bovinus. Journal of Fungi (Basel, Switzerland), 2022, 8, 1162.	3.5	4
961	The function of the plant cell wall in plant–microbe interactions. Plant Physiology and Biochemistry, 2022, 192, 273-284.	5.8	12
962	A facultative ectomycorrhizal association is triggered by organic nitrogen. Current Biology, 2022, 32, 5235-5249.e7.	3.9	5

#	Article	IF	CITATIONS
963	Reactive oxygen species (ROS) in mycorrhizal fungi and symbiotic interactions with plants. Advances in Botanical Research, 2023, , 239-275.	1.1	2
964	Comparative genomics of five <i>Valsa</i> species gives insights on their pathogenicity evolution. G3: Genes, Genomes, Genetics, 2023, 13, .	1.8	0
965	Pectin modifications at the symbiotic interface. New Phytologist, 2023, 238, 25-32.	7.3	6
966	Tissue Cultivation, Preparation, and Extraction of High Molecular Weight DNA for Single-Molecule Genome Sequencing of Plant-Associated Fungi. Methods in Molecular Biology, 2023, , 79-102.	0.9	1
967	Role of carbohydrate-active enzymes in mycorrhizal symbioses. Essays in Biochemistry, 2023, 67, 471-478.	4.7	3
968	The Beneficial Plant Microbial Association for Sustainable Agriculture. Microorganisms for Sustainability, 2023, , 137-210.	0.7	4
969	Climate Change Drivers and Soil Microbe-Plant Interactions. Climate Change Management, 2023, , 157-176.	0.8	3
970	The genome of <i>Lyophyllum shimeji</i> provides insight into the initial evolution of ectomycorrhizal fungal genomes. DNA Research, 2023, 30, .	3.4	1
971	Lessons on fruiting body morphogenesis from genomes and transcriptomes of <i>Agaricomycetes</i> Studies in Mycology, 2023, 104, 1-85.	7.2	9
972	Nitrogen addition alters soil fungal communities, but root fungal communities are resistant to change. Frontiers in Microbiology, $0,13,13$	3.5	2
973	Stochastic nuclear organization and host-dependent allele contribution in Rhizophagus irregularis. BMC Genomics, 2023, 24, .	2.8	1
974	Speciation Underpinned by Unexpected Molecular Diversity in the Mycorrhizal Fungal Genus <i>Pisolithus</i> Molecular Biology and Evolution, 2023, 40, .	8.9	11
975	Atomic crystal structure and sugar specificity of a $\hat{l}^2$ -trefoil lectin domain from the ectomycorrhizal basidiomycete Laccaria bicolor. International Journal of Biological Macromolecules, 2023, 233, 123507.	7.5	1
976	The Conserved Cysteine-Rich Secretory Protein MaCFEM85 Interacts with MsWAK16 to Activate Plant Defenses. International Journal of Molecular Sciences, 2023, 24, 4037.	4.1	3
977	Biodiversity of <i>Tricholoma matsutake</i> (syn. <i>T. nauseosum</i> ) and its related species based on repetitive DNA and genomics. Botany, 2023, 101, 138-154.	1.0	1
978	Applying molecular and genetic methods to trees and their fungal communities. Applied Microbiology and Biotechnology, 2023, 107, 2783-2830.	3.6	0
979	Major proliferation of transposable elements shaped the genome of the soybean rust pathogen Phakopsora pachyrhizi. Nature Communications, 2023, 14, .	12.8	5
980	Emergence of the fungal immune system. IScience, 2023, 26, 106793.	4.1	8

#	Article	IF	CITATIONS
981	The worldwide allometric relationship in anatomical structures for plant roots. Plant Diversity, 2023, 45, 621-629.	3.7	4
982	<pre><scp><i>Laccaria murina</i></scp> and <scp><i>L. pumila</i></scp> from <scp>Pakistan</scp>, a study based on <scp>SEM</scp> and <scp>nrITS</scp> molecular marker. Microscopy Research and Technique, 2023, 86, 991-1002.</pre>	2.2	1
983	Ectomycorrhizal fungi, two species of Laccaria, differentially block the migration and accumulation of cadmium and copper in Pinus densiflora. Chemosphere, 2023, 334, 138857.	8.2	4
984	Improved Genetic Map and Localization of Quantitative Trait Loci for Quality Traits in Auricularia heimuer. Horticulturae, 2023, 9, 763.	2.8	0
986	Fungal Alcohol Dehydrogenases: Physiological Function, Molecular Properties, Regulation of Their Production, and Biotechnological Potential. Cells, 2023, 12, 2239.	4.1	2
987	Integrative analysis of genome and transcriptome reveal the genetic basis of high temperature tolerance in pleurotus giganteus (Berk. Karun & Emp.; Hyde). BMC Genomics, 2023, 24, .	2.8	1
988	Impacts of nitrogen deposition on forest mycorrhizal communities., 2024,, 95-118.		0
989	Interactions with microbial consortia have variable effects in organic carbon and production of exometabolites among genotypes of <scp><i>Populus trichocarpa</i></scp>	1.9	0
990	Domestication through clandestine cultivation constrained genetic diversity in magic mushrooms relative to naturalized populations. Current Biology, 2023, 33, 5147-5159.e7.	3.9	0
991	Morphology and Molecular Phylogeny Reveal Five New Species of Laccaria (Hydnangiaceae, Agaricales) from Southern China. Journal of Fungi (Basel, Switzerland), 2023, 9, 1179.	3.5	1
992	Fungi in soil: a rich community with diverse functions. , 2024, , 75-129.		1
993	On the origin of bird's nest fungi: Phylogenomic analyses of fungi in the Nidulariaceae (Agaricales,) Tj ETQq1	1 <u>0</u> .78431	.4 rgBT /Ove
994	Parallel Evolution of Asco- and Basidiomycete <i>O</i> -Prenyltransferases. Journal of Natural Products, 2024, 87, 576-582.	3.0	0
995	Masters of Manipulation: How Our Molecular Understanding of Model Symbiotic Fungi and Their Hosts Is Changing the Face of "Mutualismâ€, , 2024, , 249-272.		0
996	The mycorrhizal symbiosis: research frontiers in genomics, ecology, and agricultural application. New Phytologist, 2024, 242, 1486-1506.	7.3	1
997	Pleurotus ostreatus as a model mushroom in genetics, cell biology, and material sciences. Applied Microbiology and Biotechnology, 2024, 108, .	3.6	0
998	Plant-endophyte communication: Scaling from molecular mechanisms to ecological outcomes. Mycologia, 2024, 116, 227-250.	1.9	0
999	Discovery of New Antimicrobial Metabolites in the Coculture of Medicinal Mushrooms. Journal of Agricultural and Food Chemistry, 2024, 72, 5247-5257.	5.2	0

#	Article	IF	CITATIONS
1000	Sesquiterpenes of the ectomycorrhizal fungus Pisolithus microcarpus alter root growth and promote host colonization. Mycorrhiza, 2024, 34, 69-84.	2.8	0
1001	Structural analyzes suggest that MiSSP13 and MiSSP16.5 may act as proteases inhibitors during ectomycorrhiza establishment in Laccaria bicolor. BioSystems, 2024, 238, 105194.	2.0	0
1002	Chromosome-Level Assembly and Comparative Genomic Analysis of Suillus bovinus Provides Insights into the Mechanism of Mycorrhizal Symbiosis. Journal of Fungi (Basel, Switzerland), 2024, 10, 211.	3.5	0
1003	CgNis1's Impact on Virulence and Stress Response in Colletotrichum gloeosporioides. International Journal of Molecular Sciences, 2024, 25, 3505.	4.1	O