# Rytas J Vilgalys

List of Publications by Year
in descending order

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| 198 | 24,458 | 8755 75 | 7745 150 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 206 | 206 | 206 | 17172 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A higher-level phylogenetic classification of the Fungi. Mycological Research, 2007, 111, 509-547. | 2.5 | 1,994 |
| 2 | Reconstructing the early evolution of Fungi using a six-gene phylogeny. Nature, 2006, 443, 818-822. | 27.8 | 1,625 |
| 3 | Assessment of Soil Microbial Community Structure by Use of Taxon-Specific Quantitative PCR Assays. Applied and Environmental Microbiology, 2005, 71, 4117-4120. | 3.1 | 1,227 |
| 4 | A phylum-level phylogenetic classification of zygomycete fungi based on genome-scale data. Mycologia, 2016, 108, 1028-1046. | 1.9 | 1,092 |
| 5 | Fungal Community Analysis by Large-Scale Sequencing of Environmental Samples. Applied and Environmental Microbiology, 2005, 71, 5544-5550. | 3.1 | 795 |
| 6 | Assembling the fungal tree of life: progress, classification, and evolution of subcellular traits. American Journal of Botany, 2004, 91, 1446-1480. | 1.7 | 718 |
| 7 | One hundred and seventeen clades of euagarics. Molecular Phylogenetics and Evolution, 2002, 23, 357-400. | 2.7 | 583 |
| 8 | Distinct Microbial Communities within the Endosphere and Rhizosphere of Populus deltoides Roots across Contrasting Soil Types. Applied and Environmental Microbiology, 2011, 77, 5934-5944. | 3.1 | 524 |
| 9 | Endemism and functional convergence across the North American soil mycobiome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6341-6346. | 7.1 | 482 |
| 10 | Major clades of Agaricales: a multilocus phylogenetic overview. Mycologia, 2006, 98, 982-995. | 1.9 | 449 |
| 11 | Phylogenetic Relationships of Agaric Fungi Based on Nuclear Large Subunit Ribosomal DNA Sequences. Systematic Biology, 2000, 49, 278-305. | 5.6 | 395 |
| 12 | Environmental and anthropogenic controls over bacterial communities in wetland soils. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17842-17847. | 7.1 | 387 |
| 13 | A molecular phylogeny of the flagellated fungi (Chytridiomycota) and description of a new phylum (Blastocladiomycota). Mycologia, 2006, 98, 860-871. | 1.9 | 357 |
| 14 | Diversity and phylogenetic affinities of foliar fungal endophytes in loblolly pine inferred by culturing and environmental PCR. Mycologia, 2007, 99, 185-206. | 1.9 | 357 |
| 15 | A Multifactor Analysis of Fungal and Bacterial Community Structure in the Root Microbiome of Mature Populus deltoides Trees. PLoS ONE, 2013, 8, e76382. | 2.5 | 315 |
| 16 | Evolutionary relationships within the fungi: Analyses of nuclear small subunit rRNA sequences. Molecular Phylogenetics and Evolution, 1992, 1, 231-241. | 2.7 | 302 |
| 17 | Plant host and soil origin influence fungal and bacterial assemblages in the roots of woody plants. Molecular Ecology, 2014, 23, 3356-3370. | 3.9 | 285 |
| 18 | Major clades of Agaricales: a multilocus phylogenetic overview. Mycologia, 2006, 98, 982-995. | 1.9 | 268 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multiple gene genealogies reveal recent dispersion and hybridization in the human pathogenic fungusCryptococcus neoformans. Molecular Ecology, 2000, 9, 1471-1481. | 3.9 | 261 |
| 20 | Large-scale genome sequencing of mycorrhizal fungi provides insights into the early evolution of symbiotic traits. Nature Communications, 2020, 11, 5125. | 12.8 | 258 |
| 21 | Multilocus sequence typing suggests the chytrid pathogen of amphibians is a recently emerged clone. Molecular Ecology, 2003, 12, 395-403. | 3.9 | 244 |
| 22 | Phylogenetic Relationships in the Mushroom Genus Coprinus and Dark-Spored Allies Based on Sequence Data from the Nuclear Gene Coding for the Large Ribosomal Subunit RNA: Divergent Domains, Outgroups, and Monophyly. Molecular Phylogenetics and Evolution, 1999, 13, 1-19. | 2.7 | 243 |
| 23 | Multilocus Sequence Typing Reveals Three Genetic Subpopulations of Cryptococcus neoformans var. grubii (Serotype A), Including a Unique Population in Botswana. Genetics, 2006, 172, 2223-2238. | 2.9 | 233 |
| 24 | A molecular phylogeny of the flagellated fungi (Chytridiomycota) and description of a new phylum (Blastocladiomycota). Mycologia, 2006, 98, 860-871. | 1.9 | 224 |
| 25 | Taxonomic misidentification in public DNA databases. New Phytologist, 2003, 160, 4-5. | 7.3 | 214 |
| 26 | Independent roles of ectomycorrhizal and saprotrophic communities in soil organic matter decomposition. Soil Biology and Biochemistry, 2013, 57, 282-291. | 8.8 | 203 |
| 27 | Rapid Global Expansion of the Fungal Disease Chytridiomycosis into Declining and Healthy Amphibian Populations. PLoS Pathogens, 2009, 5, e1000458. | 4.7 | 186 |
| 28 | A global metaâ€analysis of Tuber ITS rDNA sequences: species diversity, host associations and longâ€distance dispersal. Molecular Ecology, 2010, 19, 4994-5008. | 3.9 | 185 |
| 29 | Multiple origins of sequestrate fungi related to Cortinarius (Cortinariaceae). American Journal of Botany, 2001, 88, 2168-2179. | 1.7 | 183 |
| 30 | Phylogenetic Relationships of the Liverworts (Hepaticae), a Basal Embryophyte Lineage, Inferred from Nucleotide Sequence Data of the Chloroplast GenerbcL. Molecular Phylogenetics and Evolution, 1997, 7, 377-393. | 2.7 | 178 |
| 31 | Diversity and phylogenetic affinities of foliar fungal endophytes in loblolly pine inferred by culturing and environmental PCR. Mycologia, 2007, 99, 185-206. | 1.9 | 178 |
| 32 | Historical Biogeography and Diversification of Truffles in the Tuberaceae and Their Newly Identified Southern Hemisphere Sister Lineage. PLoS ONE, 2013, 8, e52765. | 2.5 | 175 |
| 33 | Geographic variation in algal partners of Cladonia subtenuis (Cladoniaceae) highlights the dynamic nature of a lichen symbiosis. New Phytologist, 2006, 171, 847-860. | 7.3 | 161 |
| 34 | Phylogenetic relationships among coprinoid taxa and allies based on data from restriction site mapping of nuclear rDNA. Mycologia, 1994, 86, 96-107. | 1.9 | 157 |
| 35 | Evidence of Sexual Recombination among Cryptococcus neoformans Serotype A Isolates in Sub-Saharan Africa. Eukaryotic Cell, 2003, 2, 1162-1168. | 3.4 | 153 |
| 36 | Evaluating the impacts of multiple generalist fungal pathogens on temperate tree seedling survival. Ecology, 2012, 93, 511-520. | 3.2 | 148 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Coprinus Pers. and the disposition of Coprinus species sensu lato. Taxon, 2001, 50, 203-241. | 0.7 | 145 |
| 38 | Mobile elements and mitochondrial genome expansion in the soil fungus and potato pathogenRhizoctonia solaniAG-3. FEMS Microbiology Letters, 2014, 352, 165-173. | 1.8 | 143 |
| 39 | The search for the fungal tree of life. Trends in Microbiology, 2009, 17, 488-497. | 7.7 | 139 |
| 40 | Comparative Analysis of Environmental and Clinical Populations of Cryptococcus neoformans. Journal of Clinical Microbiology, 2005, 43, 556-564. | 3.9 | 135 |
| 41 | The cantharelloid clade: dealing with incongruent gene trees and phylogenetic reconstruction methods. Mycologia, 2006, 98, 937-948. | 1.9 | 135 |
| 42 | Biomass and compositional responses of ectomycorrhizal fungal hyphae to elevated CO<sub>2</sub> and nitrogen fertilization. New Phytologist, 2007, 176, 164-174. | 7.3 | 135 |
| 43 | CO2-ENRICHMENT AND NUTRIENT AVAILABILITY ALTER ECTOMYCORRHIZAL FUNGAL COMMUNITIES. Ecology, 2006, 87, 2278-2287. | 3.2 | 134 |
| 44 | Ectomycorrhizal fungal diversity and community structure on three co-occurring leguminous canopy tree species in a Neotropical rainforest. New Phytologist, 2011, 192, 699-712. | 7.3 | 133 |
| 45 | Strong fungal specificity and selectivity for algal symbionts in Florida scrub Cladonia lichens. Molecular Ecology, 2004, 13, 3367-3378. | 3.9 | 127 |
| 46 | Ribosomal DNA systematics ofCeratobasidiumandThanatephoruswithRhizoctoniaanamorphs. Mycologia, 2001, 93, 1138-1150. | 1.9 | 126 |
| 47 | A continental view of pineâ€associated ectomycorrhizal fungal spore banks: a quiescent functional guild with a strong biogeographic pattern. New Phytologist, 2015, 205, 1619-1631. | 7.3 | 126 |
| 48 | Molecular phylogenetics of the Chytridiomycota supports the utility of ultrastructural data in chytrid systematics. Canadian Journal of Botany, 2000, 78, 336-350. | 1.1 | 124 |
| 49 | Endophytic Xylaria (Xylariaceae) among liverworts and angiosperms: phylogenetics, distribution, and symbiosis. American Journal of Botany, 2003, 90, 1661-1667. | 1.7 | 120 |
| 50 | Evolution of the Bipolar Mating System of the Mushroom Coprinellus disseminatus From Its Tetrapolar Ancestors Involves Loss of Mating-Type-Specific Pheromone Receptor Function. Genetics, 2006, 172, 1877-1891. | 2.9 | 115 |
| 51 | Ribosomal DNA Restriction Fragment Length Polymorphisms inRhizoctonia solani. Phytopathology, 1990, 80, 151. | 2.2 | 115 |
| 52 | Phylogeny and Evolution of Medical Species of Candida and Related Taxa: a Multigenic Analysis. Journal of Clinical Microbiology, 2004, 42, 5624-5635. | 3.9 | 110 |
| 53 | Ribosomal DNA Systematics of Ceratobasidium and Thanatephorus with Rhizoctonia anamorphs. Mycologia, 2001, 93, 1138. | 1.9 | 109 |
| 54 | Polymorphism at the Ribosomal DNA Spacers and Its Relation to Breeding Structure of the Widespread Mushroom Schizophyllum commune. Genetics, 2001, 157, 149-161. | 2.9 | 109 |

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| 55 | Molecular phylogeny, morphology, pigment chemistry and ecology in Hygrophoraceae (Agaricales). Fungal Diversity, 2014, 64, 1-99. | 12.3 | 108 |
| 56 | Clonal and Spontaneous Origins of Fluconazole Resistance in Candida albicans. Journal of Clinical Microbiology, 2000, 38, 1214-1220. | 3.9 | 107 |
| 57 | Phylogenetic Relationships of Lentinus (Basidiomycotina) Inferred from Molecular and Morphological Characters. Systematic Botany, 1993, 18, 409. | 0.5 | 101 |
| 58 | Ectomycorrhizal fungi and their leguminous hosts in the Pakaraima Mountains of Guyana. Mycological Research, 2002, 106, 515-531. | 2.5 | 101 |
| 59 | Genetic isolation between two recently diverged populations of a symbiotic fungus. Molecular Ecology, 2015, 24, 2747-2758. | 3.9 | 100 |
| 60 | Changes in Fungal Community Composition in Response to Elevated Atmospheric CO2 and Nitrogen Fertilization Varies with Soil Horizon. Frontiers in Microbiology, 2013, 4, 78. | 3.5 | 97 |
| 61 | Suilloid fungi as global drivers of pine invasions. New Phytologist, 2019, 222, 714-725. | 7.3 | 97 |
| 62 | EVIDENCE FOR LIMITED INTERCONTINENTAL GENE FLOW IN THE COSMOPOLITAN MUSHROOM, SCHIZOPHYLLUM COMMUNE. Evolution; International Journal of Organic Evolution, 1999, 53, 1665-1677. | 2.3 | 96 |
| 63 | Widespread occurrence and phylogenetic placement of a soil clone group adds a prominent new branch to the fungal tree of life. Molecular Phylogenetics and Evolution, 2008, 46, 635-644. | 2.7 | 95 |
| 64 | Phylogeny and Phenotypic Characterization of PathogenicCryptococcusSpecies and Closely Related Saprobic Taxa in the Tremellales. Eukaryotic Cell, 2009, 8, 353-361. | 3.4 | 95 |
| 65 | Ectomycorrhizal fungal sporocarp diversity and discovery of new taxa in Dicymbe monodominant forests of the Guiana Shield. Biodiversity and Conservation, 2012, 21, 2195-2220. | 2.6 | 94 |
| 66 | Phylogenetic analyses of the Lyophylleae (Agaricales, Basidiomycota) based on nuclear and mitochondrial rDNA sequences. Mycological Research, 2002, 106, 1043-1059. | 2.5 | 93 |
| 67 | The cantharelloid clade: dealing with incongruent gene trees and phylogenetic reconstruction methods. Mycologia, 2006, 98, 937-948. | 1.9 | 89 |
| 68 | Phylogenetic Relationships among Coprinoid Taxa and Allies Based on Data from Restriction Site Mapping of Nuclear rDNA. Mycologia, 1994, 86, 96. | 1.9 | 88 |
| 69 | Isolating a functionally relevant guild of fungi from the root microbiome of Populus. Fungal Ecology, 2016, 22, 35-42. | 1.6 | 88 |
| 70 | Quantitative analyses of nitrogen cycling genes in soils. Pedobiologia, 2005, 49, 665-672. | 1.2 | 87 |
| 71 | Identification of fungi associated with municipal compost using DNA-based techniques. Bioresource Technology, 2010, 101, 1021-1027. | 9.6 | 87 |
| 72 | Molecular phylogeny of the Entomophthoromycota. Molecular Phylogenetics and Evolution, 2012, 65, 682-694. | 2.7 | 83 |

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| 73 | Multiple origins of hybrid strains of Cryptococcus neoformans with serotype AD. Microbiology (United Kingdom), 2002, 148, 203-212. | 1.8 | 83 |
| 74 | 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 |
| 75 | Uniparental Mitochondrial Transmission in Sexual Crosses in Cryptococcus neoformans. Current Microbiology, 2000, 40, 269-273. | 2.2 | 81 |
| 76 | Emission Factors of Microbial Volatile Organic Compounds from Environmental Bacteria and Fungi. Environmental Science & Technology, 2018, 52, 8272-8282. | 10.0 | 81 |
| 77 | PCRâ€“restriction fragment length polymorphism (RFLP) analyses reveal both extensive clonality and local genetic differences inCandidaalbicans. Molecular Ecology, 1999, 8, 59-73. | 3.9 | 80 |
| 78 | Pathogen regulation of plant diversity via effective specialization. Trends in Ecology and Evolution, 2013, 28, 705-711. | 8.7 | 80 |
| 79 | Genetic Structure of Typical and Atypical Populations of Candida albicans from Africa. Fungal Genetics and Biology, 1999, 28, 107-125. | 2.1 | 79 |
| 80 | Toward a better understanding of the infrageneric relationships in Cortinarius (Agaricales,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.9 | 79 |
| 81 | Common bacterial responses in six ecosystems exposed to 10 years of elevated atmospheric carbon dioxide. Environmental Microbiology, 2012, 14, 1145-1158. | 3.8 | 79 |
| 82 | Molecular phylogeny, biogeography and speciation of the mushroom species Pleurotus cystidiosus and allied taxa. Microbiology (United Kingdom), 2004, 150, 715-726. | 1.8 | 78 |
| 83 | Molecular phylogenetics of the Chytridiomycota supports the utility of ultrastructural data in chytrid systematics. Canadian Journal of Botany, 2000, 78, 336-350. | 1.1 | 76 |
| 84 | The genetic structure and diversity of the A and B mating-type genes from the tropical oyster mushroom, Pleurotus djamor. Fungal Genetics and Biology, 2004, 41, 813-825. | 2.1 | 75 |
| 85 | Phylogenetic utility of indels within ribosomal DNA and Î²-tubulin sequences from fungi in the Rhizoctonia solani species complex. Molecular Phylogenetics and Evolution, 2006, 40, 459-470. | 2.7 | 73 |
| 86 | Structure, Function, and Phylogeny of the Mating Locus in the Rhizopus oryzae Complex. PLoS ONE, 2010, 5, e15273. | 2.5 | 72 |
| 87 | The Ectomycorrhizal Fungal Community in a Neotropical Forest Dominated by the Endemic Dipterocarp Pakaraimaea dipterocarpacea. PLoS ONE, 2013, 8, e55160. | 2.5 | 71 |
| 88 | Fungal-Bacterial Networks in the Populus Rhizobiome Are Impacted by Soil Properties and Host Genotype. Frontiers in Microbiology, 2019, 10, 481. | 3.5 | 71 |
| 89 | Phylogenetic analyses and the distribution of nematophagy support a monophyletic Pleurotaceae within the polyphyletic pleurotoid-lentinoid fungi. Mycologia, 2000, 92, 241-252. | 1.9 | 67 |
| 90 | A Genetic Linkage Map of Cryptococcus neoformans variety neoformans Serotype D (Filobasidiella) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 2.9 | 67 |

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| 91 | Molecular phylogeny of Amanita based on large-subunit ribosomal DNA sequences: implications for taxonomy and character evolution. Mycologia, 1999, 91, 610-618. | 1.9 | 66 |
| 92 | The Asian black truffle Tuber indicum can form ectomycorrhizas with North American host plants and complete its life cycle in non-native soils. Fungal Ecology, 2011, 4, 83-93. | 1.6 | 63 |
| 93 | Assessing biogeographic relationships between North American and Chinese macrofungi. Journal of Biogeography, 2001, 28, 271-281. | 3.0 | 62 |
| 94 | Abundance and diversity of Schizophyllum commune spore clouds in the Caribbean detected by selective sampling. Molecular Ecology, 2001, 10, 471-479. | 3.9 | 60 |
| 95 | Production and turnover of ectomycorrhizal extramatrical mycelial biomass and necromass under elevated CO<sub>2</sub> and nitrogen fertilization. New Phytologist, 2016, 211, 874-885. | 7.3 | 60 |
| 96 | Systematics of Lyophyllum Section Difformia Based on Evidence from Culture Studies and Ribosomal DNA Sequences. Mycologia, 1993, 85, 788-794. | 1.9 | 59 |
| 97 | Genetic Relatedness Among Anastomosis Groups inRhizoctoniaas Measured by DNA/DNA Hybridization. Phytopathology, 1988, 78, 698. | 2.2 | 59 |
| 98 | Phylogenetic Analyses and the Distribution of Nematophagy Support a Monophyletic Pleurotaceae within the Polyphyletic Pleurotoid-Lentinoid Fungi. Mycologia, 2000, 92, 241. | 1.9 | 58 |
| 99 | Spatial Distribution and Genetic Relationships Among Individuals in a Natural Population of the Oyster Mushroom Pleurotus Ostreatus. Mycologia, 1992, 84, 173-182. | 1.9 | 57 |
| 100 | Integration of morphological and molecular data sets in estimating fungal phytogenies. Canadian Journal of Botany, 1995, 73, 649-659. | 1.1 | 56 |
| 101 | Improved resolution of major clades within Tuber and taxonomy of species within the Tuber gibbosum complex. Mycologia, 2010, 102, 1042-1057. | 1.9 | 56 |
| 102 | Responses of soil cellulolytic fungal communities to elevated atmospheric CO<sub>2</sub> are complex and variable across five ecosystems. Environmental Microbiology, 2011, 13, 2778-2793. | 3.8 | 56 |
| 103 | Ectomycorrhizal fungal diversity in orchards of cultivated pecan (Carya illinoinensis; Juglandaceae). Mycorrhiza, 2011, 21, 601-612. | 2.8 | 56 |
| 104 | Phylogenetic relationships of Rhizoctonia fungi within the Cantharellales. Fungal Biology, 2016, 120, 603-619. | 2.5 | 56 |
| 105 | Continentalâ€level population differentiation and environmental adaptation in the mushroom <scp>S</scp>uillus brevipes. Molecular Ecology, 2017, 26, 2063-2076. | 3.9 | 55 |
| 106 | Phylogenetic systematics ofLepiotasensu lato based on nuclear large subunit rDNA evidence. Mycologia, 1998, 90, 971-979. | 1.9 | 54 |
| 107 | High levels of variation in ribosomal DNA sequences within and among spores of a natural population of the arbuscular mycorrhizal fungusAcaulospora colossica. Mycologia, 2000, 92, 259-268. | 1.9 | 54 |
| 108 | Evolutionary Relationships of Lentinus to the Polyporaceae: Evidence from Restriction Analysis of Enzymatically Amplified Ribosomal Dna. Mycologia, 1991, 83, 425-439. | 1.9 | 52 |

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|---|---|---|---|
| 109 | Intersterility groups in the Pleurotus ostreatus complex from the continental United States and adjacent Canada. Canadian Journal of Botany, 1993, 71, 113-128. | 1.1 | 52 |
| 110 | High Levels of Variation in Ribosomal DNA Sequences within and among Spores of a Natural Population of the Arbuscular Mycorrhizal Fungus Acaulospora colossica. Mycologia, 2000, 92, 259. | 1.9 | 52 |
| 111 | Fungal Endophytes ofPopulus trichocarpaAlter Host Phenotype, Gene Expression, and Rhizobiome Composition. Molecular Plant-Microbe Interactions, 2019, 32, 853-864. | 2.6 | 52 |
| 112 | Evolution of the gene encoding mitochondrial intermediate peptidase and its cosegregation with the A mating-type locus of mushroom fungi. Fungal Genetics and Biology, 2004, 41, 381-390. | 2.1 | 51 |
| 113 | Speciation and Species Concepts in theCollybia DryophilaComplex. Mycologia, 1991, 83, 758-773. | 1.9 | 50 |
| 114 | Genetic diversity ofRhizoctonia solaniAG-3 from potato and tobacco in North Carolina. Mycologia, 2002, 94, 437-449. | 1.9 | 50 |
| 115 | Toward a Better Understanding of the Infrageneric Relationships in Cortinarius (Agaricales,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T | 1.9 | 49 |
| 116 | Draft Genome Sequence of the Plant-Pathogenic Soil Fungus Rhizoctonia solani Anastomosis Group 3 Strain Rhs1AP. Genome Announcements, 2014, 2, . | 0.8 | 49 |
| 117 | A Molecular Approach to the Phylogeny of Bryophytes: Cladistic Analysis of Chloroplast-Encoded 16S and 23S Ribosomal RNA Genes. Bryologist, 1992, 95, 172. | 0.6 | 47 |
| 118 | Phylogenetic and Phylogenomic Definition of Rhizopus Species. G3: Genes, Genomes, Genetics, 2018, 8, 2007-2018. | 1.8 | 47 |
| 119 | Development and Characterization of a Genetic Linkage Map of Cryptococcus neoformans var. neoformans Using Amplified Fragment Length Polymorphisms and Other Markers. Fungal Genetics and Biology, 2000, 31, 189-203. | 2.1 | 46 |
| 120 | Molecular phylogeny of the Blastocladiomycota (Fungi) based on nuclear ribosomal DNA. Fungal Biology, 2011, 115, 381-392. | 2.5 | 45 |
| 121 | Prospects and challenges for fungal metatranscriptomics of complex communities. Fungal Ecology, 2015, 14, 133-137. | 1.6 | 44 |
| 122 | Atractiella rhizophila, sp. nov., an endorrhizal fungus isolated from thePopulusroot microbiome. Mycologia, 2017, 109, 18-26. | 1.9 | 43 |
| 123 | Mortierella elongata Increases Plant Biomass among Non-Leguminous Crop Species. Agronomy, 2020, 10, 754. | 3.0 | 43 |
| 124 | Variation in Modes and Rates of Evolution in Nuclear and Mitochondrial Ribosomal DNA in the Mushroom Genus Amanita (Agaricales, Basidiomycota): Phylogenetic Implications. Molecular Phylogenetics and Evolution, 2000, 16, 48-63. | 2.7 | 42 |
| 125 | Ectomycorrhizal fungal diversity predicted to substantially decline due to climate changes in North American Pinaceae forests. Journal of Biogeography, 2020, 47, 772-782. | 3.0 | 42 |
| 126 | Ascomycete phylotypes recovered from a Gulf of Mexico methane seep are identical to an uncultured deep-sea fungal clade from the Pacific. Fungal Ecology, 2012, 5, 270-273. | 1.6 | 41 |

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| 127 | Lack of Genetic Differentiation between Two Geographically Diverse Samples of Candida albicans Isolated from Patients Infected with Human Immunodeficiency Virus. Journal of Bacteriology, 1999, 181, 1369-1373. | 2.2 | 39 |
| 128 | Molecular phylogeny suggests a single origin of insect symbiosis in the Pucciniomycetes with support for some relationships within the genus Septobasidium. American Journal of Botany, 2007, 94, 1515-1526. | 1.7 | 38 |
| 129 | Integrated proteomics and metabolomics suggests symbiotic metabolism and multimodal regulation in a fungalâ€endobacterial system. Environmental Microbiology, 2017, 19, 1041-1053. | 3.8 | 38 |
| 130 | Speciation and Species Concepts in the Collybia dryophila Complex. Mycologia, 1991, 83, 758. | 1.9 | 37 |
| 131 | Phylogeny of Rozites, Cuphocybe and Rapacea inferred from ITS and LSU rDNA sequences. Mycologia, 2002, 94, 620-629. | 1.9 | 37 |
| 132 | Microfluidics and Metabolomics Reveal Symbiotic Bacterialâ€“Fungal Interactions Between Mortierella elongata and Burkholderia Include Metabolite Exchange. Frontiers in Microbiology, 2019, 10, 2163. | 3.5 | 37 |
| 133 | Comparative genomics reveals dynamic genome evolution in host specialist ectomycorrhizal fungi. New Phytologist, 2021, 230, 774-792. | 7.3 | 37 |
| 134 | Evolutionary Relationships of Lentinus to the Polyporaceae: Evidence from Restriction Analysis of Enzymatically Amplified Ribosomal DNA. Mycologia, 1991, 83, 425. | 1.9 | 36 |
| 135 | Systematics of Lyophyllum Section Difformia Based on Evidence from Culture Studies and Ribosomal DNA Sequences. Mycologia, 1993, 85, 788. | 1.9 | 36 |
| 136 | Phylogeography of the Solanaceae-infecting Basidiomycota fungus Rhizoctonia solani AG-3 based on sequence analysis of two nuclear DNA loci. BMC Evolutionary Biology, 2007, 7, 163. | 3.2 | 35 |
| 137 | New North American truffles (Tuber spp.) and their ectomycorrhizal associations. Mycologia, 2013, 105, 194-209. | 1.9 | 34 |
| 138 | Molecular Phylogeny of Amanita Based on Large-Subunit Ribosomal DNA Sequences: Implications for Taxonomy and Character Evolution. Mycologia, 1999, 91, 610. | 1.9 | 32 |
| 139 | Mating compatibility and phylogeography in Pleurotus tuberregium. Mycological Research, 2000, 104, 732-737. | 2.5 | 32 |
| 140 | Dynamic and Heterogeneous Mutations to Fluconazole Resistance in Cryptococcus neoformans. Antimicrobial Agents and Chemotherapy, 2001, 45, 420-427. | 3.2 | 32 |
| 141 | Phylogenetic Systematics of Lepiota Sensu Lato Based on Nuclear Large Subunit rDNA Evidence. Mycologia, 1998, 90, 971. | 1.9 | 31 |
| 142 | Genetic structure of populations ofRhizoctonia solaniAG-3 on potato in eastern North Carolina. Mycologia, 2002, 94, 450-460. | 1.9 | 31 |
| 143 | The Crepidotaceae (Basidiomycota, Agaricales): phylogeny and taxonomy of the genera and revision of the family based on molecular evidence. American Journal of Botany, 2005, 92, 74-82. | 1.7 | 31 |
| 144 | New species of Clavulina (Cantharellales, Basidiomycota) with resupinate and effused basidiomata from the Guiana Shield. Mycologia, 2012, 104, 547-556. | 1.9 | 31 |

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| 145 | Assessing ectomycorrhizal fungal spore banks of truffle producing soils with pecan seedling trap-plants. Plant and Soil, 2012, 356, 357-366. | 3.7 | 31 |
| 146 | Survey of corticioid fungi in North American pinaceous forests reveals hyperdiversity, underpopulated sequence databases, and species that are potentially ectomycorrhizal. Mycologia, 2017, 109, 115-127. | 1.9 | 31 |
| 147 | Nectar Inhabiting Yeasts in Virginian Populations of Silene latifolia (Caryophyllaceae) and Coflowering Species. American Midland Naturalist, 2013, 169, 235-258. | 0.4 | 30 |
| 148 | Assessment of species distributions in Pleurotus based on trapping of airborne basidiospores. Mycologia, 1994, 86, 270-274. | 1.9 | 29 |
| 149 | Infragenic phylogeny of Collybia s. str. based on sequences of ribosomal ITS and LSU regions. Mycological Research, 2001, 105, 164-172. | 2.5 | 29 |
| 150 | The chromosomal region containing pab-1, mip , and the A mating type locus of the secondarily homothallic homobasidiomycete Coprinus bilanatus. Current Genetics, 2001, 39, 16-24. | 1.7 | 27 |
| 151 | Characterization of a novel, ubiquitous fungal endophyte from the rhizosphere and root endosphere of Populus trees. Fungal Ecology, 2017, 27, 78-86. | 1.6 | 27 |
| 152 | New species and distribution records for Clavulina (Cantharellales, Basidiomycota) from the Guiana Shield, with a key to the lowland neotropical taxa. Fungal Biology, 2012, 116, 1263-1274. | 2.5 | 26 |
| 153 | Phylogenetic taxon definitions for Fungi, Dikarya, Ascomycota and Basidiomycota. IMA Fungus, 2018, 9, 291-298. | 3.8 | 26 |
| 154 | Hijacked: Co-option of host behavior by entomophthoralean fungi. PLoS Pathogens, 2017, 13, e1006274. | 4.7 | 26 |
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