

# Jessy L LabbÃ©

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

3,638  
citations

159358

30  
h-index

205818

48  
g-index

53  
all docs

53  
docs citations

53  
times ranked

4861  
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome of <i>Laccaria bicolor</i> provides insights into mycorrhizal symbiosis. <i>Nature</i> , 2008, 452, 88-92.	13.7	1,003
2	Bacterial–fungal interactions: ecology, mechanisms and challenges. <i>FEMS Microbiology Reviews</i> , 2018, 42, 335-352.	3.9	468
3	A Multifactor Analysis of Fungal and Bacterial Community Structure in the Root Microbiome of Mature <i>Populus deltoides</i> Trees. <i>PLoS ONE</i> , 2013, 8, e76382.	1.1	315
4	Specialized Microbiome of a Halophyte and its Role in Helping Non-Host Plants to Withstand Salinity. <i>Scientific Reports</i> , 2016, 6, 32467.	1.6	181
5	Highly Efficient Isolation of <i>Populus</i> Mesophyll Protoplasts and Its Application in Transient Expression Assays. <i>PLoS ONE</i> , 2012, 7, e44908.	1.1	89
6	Microbe to Microbiome: A Paradigm Shift in the Application of Microorganisms for Sustainable Agriculture. <i>Frontiers in Microbiology</i> , 2020, 11, 622926.	1.5	88
7	The Ectomycorrhizal Fungus <i>Laccaria bicolor</i> Produces Lipochitooligosaccharides and Uses the Common Symbiosis Pathway to Colonize <i>Populus</i> Roots. <i>Plant Cell</i> , 2019, 31, 2386-2410.	3.1	73
8	Genome-wide analysis of lectin receptor-like kinases in <i>Populus</i> . <i>BMC Genomics</i> , 2016, 17, 699.	1.2	72
9	Russulaceae: a new genomic dataset to study ecosystem function and evolutionary diversification of ectomycorrhizal fungi with their tree associates. <i>New Phytologist</i> , 2018, 218, 54-65.	3.5	71
10	Newly identified helper bacteria stimulate ectomycorrhizal formation in <i>Populus</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 579.	1.7	68
11	Distribution and localization of microsatellites in the Perigord black truffle genome and identification of new molecular markers. <i>Fungal Genetics and Biology</i> , 2011, 48, 592-601.	0.9	67
12	Lipo-chitooligosaccharides as regulatory signals of fungal growth and development. <i>Nature Communications</i> , 2020, 11, 3897.	5.8	65
13	Effect of poplar genotypes on mycorrhizal infection and secreted enzyme activities in mycorrhizal and non-mycorrhizal roots. <i>Journal of Experimental Botany</i> , 2011, 62, 249-260.	2.4	63
14	Extensive gene flow over Europe and possible speciation over Eurasia in the ectomycorrhizal basidiomycete <i>Laccaria amethystina</i> complex. <i>Molecular Ecology</i> , 2012, 21, 281-299.	2.0	62
15	Gene organization of the mating type regions in the ectomycorrhizal fungus <i>Laccaria bicolor</i> reveals distinct evolution between the two mating type loci. <i>New Phytologist</i> , 2008, 180, 329-342.	3.5	59
16	Mitigating climate change through managing constructed-microbial communities in agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2016, 216, 304-308.	2.5	56
17	Fungal Endophytes of <i>Populus trichocarpa</i> Alter Host Phenotype, Gene Expression, and Rhizobiome Composition. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 853-864.	1.4	52
18	The obscure events contributing to the evolution of an incipient sex chromosome in <i>Populus</i> : a retrospective working hypothesis. <i>Tree Genetics and Genomes</i> , 2012, 8, 559-571.	0.6	50

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19	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: <i>Populus deltoides</i> and <i>Populus trichocarpa</i> . <i>Tree Genetics and Genomes</i> , 2011, 7, 617-627.	0.6	48
20	Diverse Plant-Associated Pleosporalean Fungi from Saline Areas: Ecological Tolerance and Nitrogen-Status Dependent Effects on Plant Growth. <i>Frontiers in Microbiology</i> , 2017, 8, 158.	1.5	48
21	Bacterial biofilm formation on the hyphae of ectomycorrhizal fungi: a widespread ability under controls?. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	43
22	Mediation of plant-mycorrhizal interaction by a lectin receptor-like kinase. <i>Nature Plants</i> , 2019, 5, 676-680.	4.7	42
23	Survey and analysis of simple sequence repeats in the <i>Laccaria bicolor</i> genome, with development of microsatellite markers. <i>Current Genetics</i> , 2011, 57, 75-88.	0.8	38
24	Integrated proteomics and metabolomics suggests symbiotic metabolism and multimodal regulation in a fungal-endobacterial system. <i>Environmental Microbiology</i> , 2017, 19, 1041-1053.	1.8	38
25	Characterization of Transposable Elements in the Ectomycorrhizal Fungus <i>Laccaria bicolor</i> . <i>PLoS ONE</i> , 2012, 7, e40197.	1.1	38
26	Microfluidics and Metabolomics Reveal Symbiotic Bacterial-Fungal Interactions Between <i>Mortierella elongata</i> and <i>Burkholderia</i> Include Metabolite Exchange. <i>Frontiers in Microbiology</i> , 2019, 10, 2163.	1.5	37
27	<i>Populus trichocarpa</i> encodes small, effector-like secreted proteins that are highly induced during mutualistic symbiosis. <i>Scientific Reports</i> , 2017, 7, 382.	1.6	36
28	Microevolution in the pansecondary metabolome of <i>Aspergillus flavus</i> and its potential macroevolutionary implications for filamentous fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	34
29	A genetic linkage map for the ectomycorrhizal fungus <i>Laccaria bicolor</i> and its alignment to the whole-genome sequence assemblies. <i>New Phytologist</i> , 2008, 180, 316-328.	3.5	32
30	Down-Regulation of KORRIGAN-Like Endo-1,4-Glucanase Genes Impacts Carbon Partitioning, Mycorrhizal Colonization and Biomass Production in <i>Populus</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1455.	1.7	32
31	Terpene Synthase Genes Originated from Bacteria through Horizontal Gene Transfer Contribute to Terpenoid Diversity in Fungi. <i>Scientific Reports</i> , 2019, 9, 9223.	1.6	31
32	Plant-Microbe Interactions: From Genes to Ecosystems Using <i>Populus</i> as a Model System. <i>Phytobiomes Journal</i> , 2021, 5, 29-38.	1.4	31
33	Phytobiome and Transcriptional Adaptation of <i>Populus deltoides</i> to Acute Progressive Drought and Cyclic Drought. <i>Phytobiomes Journal</i> , 2018, 2, 249-260.	1.4	23
34	Evolutionary transition to the ectomycorrhizal habit in the genomes of a hyperdiverse lineage of mushroom-forming fungi. <i>New Phytologist</i> , 2022, 233, 2294-2309.	3.5	21
35	Perspectives on the basic and applied aspects of crassulacean acid metabolism (CAM) research. <i>Plant Science</i> , 2018, 274, 394-401.	1.7	18
36	Increasing access to microfluidics for studying fungi and other branched biological structures. <i>Fungal Biology and Biotechnology</i> , 2019, 6, 1.	2.5	17

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37	Identification of Populus Small RNAs Responsive to Mutualistic Interactions With Mycorrhizal Fungi, <i>Laccaria bicolor</i> and <i>Rhizophagus irregularis</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 515.	1.5	17
38	Arabidopsis C-terminal binding protein ANGUSTIFOLIA modulates transcriptional co-regulation of <i>MYB46</i> and <i>WRKY33</i> . <i>New Phytologist</i> , 2020, 228, 1627-1639.	3.5	17
39	Plant Biosystems Design Research Roadmap 1.0. <i>Biodesign Research</i> , 2020, 2020, .	0.8	16
40	Towards engineering ectomycorrhization into switchgrass bioenergy crops via a lectin receptor-like kinase. <i>Plant Biotechnology Journal</i> , 2021, 19, 2454-2468.	4.1	14
41	Insight into a highly polymorphic endophyte isolated from the roots of the halophytic seepweed <i>Suaeda salsa</i> : <i>Laburnicola rhizophila</i> sp. nov. ( <i>Didymosphaeriaceae</i> , <i>Pleosporales</i> ). <i>Fungal Biology</i> , 2020, 124, 327-337.	1.1	13
42	Biosynthesis and characterization of deuterated chitosan in filamentous fungus and yeast. <i>Carbohydrate Polymers</i> , 2021, 257, 117637.	5.1	8
43	Phylogenetic diversity of 200+ isolates of the ectomycorrhizal fungus <i>Cenococcum geophilum</i> associated with <i>Populus trichocarpa</i> soils in the Pacific Northwest, USA and comparison to globally distributed representatives. <i>PLoS ONE</i> , 2021, 16, e0231367.	1.1	7
44	Advancing How We Learn from Biodesign to Mitigate Risks with Next-Generation Genome Engineering. <i>Biodesign Research</i> , 2020, 2020, .	0.8	4
45	Heterospecific Neighbor Plants Impact Root Microbiome Diversity and Molecular Function of Root Fungi. <i>Frontiers in Microbiology</i> , 2021, 12, 680267.	1.5	3
46	Frontiers and Opportunities in Bioenergy Crop Microbiome Research Networks. <i>Phytobiomes Journal</i> , 2022, 6, 118-126.	1.4	1
47	Amantadine preferential binding and disordering of phase separated membranes. <i>Biophysical Journal</i> , 2022, 121, 366a-367a.	0.2	0