

Jacob L Steenwyk

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,497
citations

279487

23
h-index

264894

42
g-index

92
all docs

92
docs citations

92
times ranked

2423
citing authors

#	ARTICLE	IF	CITATIONS
1	Tempo and Mode of Genome Evolution in the Budding Yeast Subphylum. <i>Cell</i> , 2018, 175, 1533-1545.e20.	13.5	445
2	ClipKIT: A multiple sequence alignment trimming software for accurate phylogenomic inference. <i>PLoS Biology</i> , 2020, 18, e3001007.	2.6	237
3	A genome-scale phylogeny of the kingdom Fungi. <i>Current Biology</i> , 2021, 31, 1653-1665.e5.	1.8	170
4	Extensive loss of cell-cycle and DNA repair genes in an ancient lineage of bipolar budding yeasts. <i>PLoS Biology</i> , 2019, 17, e3000255.	2.6	116
5	Gene Essentiality Analyzed by <i>In Vivo</i> Transposon Mutagenesis and Machine Learning in a Stable Haploid Isolate of <i>Candida albicans</i> . <i>MBio</i> , 2018, 9, .	1.8	110
6	A Robust Phylogenomic Time Tree for Biotechnologically and Medically Important Fungi in the Genera <i>Aspergillus</i> and <i>Penicillium</i> . <i>MBio</i> , 2019, 10, .	1.8	106
7	Biosynthetic gene clusters and the evolution of fungal chemodiversity. <i>Natural Product Reports</i> , 2020, 37, 868-878.	5.2	93
8	Genome-scale phylogeny and contrasting modes of genome evolution in the fungal phylum Ascomycota. <i>Science Advances</i> , 2020, 6, .	4.7	84
9	Extensive Copy Number Variation in Fermentation-Related Genes Among <i>Saccharomyces cerevisiae</i> Wine Strains. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1475-1485.	0.8	77
10	PhyKIT: a broadly applicable UNIX shell toolkit for processing and analyzing phylogenomic data. <i>Bioinformatics</i> , 2021, 37, 2325-2331.	1.8	69
11	Variation and selection on codon usage bias across an entire subphylum. <i>PLoS Genetics</i> , 2019, 15, e1008304.	1.5	68
12	Copy Number Variation in Fungi and Its Implications for Wine Yeast Genetic Diversity and Adaptation. <i>Frontiers in Microbiology</i> , 2018, 9, 288.	1.5	63
13	Nutritional Heterogeneity Among <i>Aspergillus fumigatus</i> Strains Has Consequences for Virulence in a Strain- and Host-Dependent Manner. <i>Frontiers in Microbiology</i> , 2019, 10, 854.	1.5	52
14	Variation Among Biosynthetic Gene Clusters, Secondary Metabolite Profiles, and Cards of Virulence Across <i>Aspergillus</i> Species. <i>Genetics</i> , 2020, 216, 481-497.	1.2	50
15	Genomic and Phenotypic Heterogeneity of Clinical Isolates of the Human Pathogens <i>Aspergillus fumigatus</i> , <i>Aspergillus lentulus</i> , and <i>Aspergillus fumigatiaffinis</i> . <i>Frontiers in Genetics</i> , 2020, 11, 459.	1.1	44
16	Rapid Phenotypic and Metabolomic Domestication of Wild <i>Penicillium</i> Molds on Cheese. <i>MBio</i> , 2019, 10, .	1.8	43
17	Characterizing the Pathogenic, Genomic, and Chemical Traits of <i>Aspergillus fischeri</i> , a Close Relative of the Major Human Fungal Pathogen <i>Aspergillus fumigatus</i> . <i>MSphere</i> , 2019, 4, .	1.3	42
18	Evolving moldy murderers: <i>Aspergillus</i> section <i>Fumigati</i> as a model for studying the repeated evolution of fungal pathogenicity. <i>PLoS Pathogens</i> , 2020, 16, e1008315.	2.1	40

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19	Pathogenic Allodiploid Hybrids of <i>Aspergillus</i> Fungi. <i>Current Biology</i> , 2020, 30, 2495-2507.e7.	1.8	39
20	Copy number variation contributes to cryptic genetic variation in outbreak lineages of <i>Cryptococcus gattii</i> from the North American Pacific Northwest. <i>BMC Genomics</i> , 2016, 17, 700.	1.2	36
21	Mapping the Fungal Battlefield: Using in situ Chemistry and Deletion Mutants to Monitor Interspecific Chemical Interactions Between Fungi. <i>Frontiers in Microbiology</i> , 2019, 10, 285.	1.5	35
22	Gliotoxin, a Known Virulence Factor in the Major Human Pathogen <i>Aspergillus fumigatus</i> , Is Also Biosynthesized by Its Nonpathogenic Relative <i>Aspergillus fischeri</i> . <i>MBio</i> , 2020, 11, .	1.8	32
23	Functional Characterization of Clinical Isolates of the Opportunistic Fungal Pathogen <i>Aspergillus nidulans</i> . <i>MSphere</i> , 2020, 5, .	1.3	32
24	Genomic and Phenotypic Analysis of COVID-19-Associated Pulmonary <i>Aspergillus fumigatus</i> Isolates of <i>Aspergillus fumigatus</i> . <i>Microbiology Spectrum</i> , 2021, 9, e0001021.	1.2	31
25	Into the wild: new yeast genomes from natural environments and new tools for their analysis. <i>FEMS Yeast Research</i> , 2020, 20, .	1.1	29
26	Dissecting Incongruence between Concatenation- and Quartet-Based Approaches in Phylogenomic Data. <i>Systematic Biology</i> , 2021, 70, 997-1014.	2.7	28
27	The <i>Aspergillus fumigatus</i> transcription factor RglT is important for gliotoxin biosynthesis and self-protection, and virulence. <i>PLoS Pathogens</i> , 2020, 16, e1008645.	2.1	27
28	ggpubfigs: Colorblind-Friendly Color Palettes and ggplot2 Graphic System Extensions for Publication-Quality Scientific Figures. <i>Microbiology Resource Announcements</i> , 2021, 10, e0087121.	0.3	19
29	Signatures of optimal codon usage in metabolic genes inform budding yeast ecology. <i>PLoS Biology</i> , 2021, 19, e3001185.	2.6	18
30	An evolutionary genomic approach reveals both conserved and species-specific genetic elements related to human disease in closely related <i>Aspergillus</i> fungi. <i>Genetics</i> , 2021, 218, .	1.2	18
31	Recurrent Loss of <i>abaA</i> , a Master Regulator of Asexual Development in Filamentous Fungi, Correlates with Changes in Genomic and Morphological Traits. <i>Genome Biology and Evolution</i> , 2020, 12, 1119-1130.	1.1	16
32	Regulation of gliotoxin biosynthesis and protection in <i>Aspergillus</i> species. <i>PLoS Genetics</i> , 2022, 18, e1009965.	1.5	16
33	Treehouse: a user-friendly application to obtain subtrees from large phylogenies. <i>BMC Research Notes</i> , 2019, 12, 541.	0.6	14
34	Draft Genome Sequence of the Griseofulvin-Producing Fungus <i>Xylaria flabelliformis</i> Strain G536. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	14
35	BioKIT: a versatile toolkit for processing and analyzing diverse types of sequence data. <i>Genetics</i> , 2022, 221, .	1.2	13
36	orthofisher: a broadly applicable tool for automated gene identification and retrieval. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	12

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37	<i>Aspergillus fumigatus</i> G-Protein Coupled Receptors GprM and GprJ Are Important for the Regulation of the Cell Wall Integrity Pathway, Secondary Metabolite Production, and Virulence. <i>MBio</i> , 2020, 11, .	1.8	11
38	<i>Aspergillus fumigatus</i> Acetate Utilization Impacts Virulence Traits and Pathogenicity. <i>MBio</i> , 2021, 12, e0168221.	1.8	10
39	Examination of Gene Loss in the DNA Mismatch Repair Pathway and Its Mutational Consequences in a Fungal Phylum. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	10
40	An orthologous gene coevolution network provides insight into eukaryotic cellular and genomic structure and function. <i>Science Advances</i> , 2022, 8, eabn0105.	4.7	10
41	Evolutionary Divergence in DNA Damage Responses among Fungi. <i>MBio</i> , 2021, 12, .	1.8	9
42	Examination of Genome-Wide Ortholog Variation in Clinical and Environmental Isolates of the Fungal Pathogen <i>Aspergillus fumigatus</i> . <i>MBio</i> , 2022, 13, .	1.8	8
43	Draft Genome Sequences of Four <i>Aspergillus</i> Section <i>Fumigati</i> Clinical Strains. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	4
44	Feature frequency profile-based phylogenies are inaccurate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31580-31581.	3.3	3
45	Extensive Non-Coding Sequence Divergence Between the Major Human Pathogen <i>Aspergillus fumigatus</i> and its Relatives. <i>Frontiers in Fungal Biology</i> , 0, 3, .	0.9	3
46	integRATE: a desirability-based data integration framework for the prioritization of candidate genes across heterogeneous omics and its application to preterm birth. <i>BMC Medical Genomics</i> , 2018, 11, 107.	0.7	2
47	A portrait of budding yeasts: A symbol of the arts, sciences and a whole greater than the sum of its parts. <i>Yeast</i> , 2021, 38, 54-56.	0.8	2
48	Examining Signatures of Natural Selection in Antifungal Resistance Genes Across <i>Aspergillus</i> Fungi. <i>Frontiers in Fungal Biology</i> , 2021, 2, .	0.9	2
49	Resistance-Guided Mining of Bacterial Genotoxins Defines a Family of DNA Glycosylases. <i>MBio</i> , 2022, 13, e0329721.	1.8	2
50	Title is missing!. , 2020, 16, e1008645.		0
51	Title is missing!. , 2020, 16, e1008645.		0
52	Title is missing!. , 2020, 16, e1008645.		0
53	Title is missing!. , 2020, 16, e1008645.		0
54	Title is missing!. , 2020, 16, e1008645.		0