

James A Fraser

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/346730/publications.pdf>

Version: 2024-02-01

89
papers

6,980
citations

81900

39
h-index

64796

79
g-index

91
all docs

91
docs citations

91
times ranked

6216
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genome of the Basidiomycetous Yeast and Human Pathogen <i>Cryptococcus neoformans</i> . Science, 2005, 307, 1321-1324.	12.6	664
2	MCC950 directly targets the NLRP3 ATP-hydrolysis motif for inflammasome inhibition. Nature Chemical Biology, 2019, 15, 556-559.	8.0	561
3	Same-sex mating and the origin of the Vancouver Island <i>Cryptococcus gattii</i> outbreak. Nature, 2005, 437, 1360-1364.	27.8	472
4	<i>Cryptococcus neoformans</i> and <i>Cryptococcus gattii</i> , the Etiologic Agents of Cryptococcosis. Cold Spring Harbor Perspectives in Medicine, 2014, 4, a019760-a019760.	6.2	374
5	Analysis of the Genome and Transcriptome of <i>Cryptococcus neoformans</i> var. <i>grubii</i> Reveals Complex RNA Expression and Microevolution Leading to Virulence Attenuation. PLoS Genetics, 2014, 10, e1004261.	3.5	336
6	Deciphering the Model Pathogenic Fungus <i>Cryptococcus Neoformans</i> . Nature Reviews Microbiology, 2005, 3, 753-764.	28.6	308
7	Recapitulation of the Sexual Cycle of the Primary Fungal Pathogen <i>Cryptococcus neoformans</i> var. <i>gattii</i> : Implications for an Outbreak on Vancouver Island, Canada. Eukaryotic Cell, 2003, 2, 1036-1045.	3.4	280
8	Mating-Type Locus of <i>Cryptococcus neoformans</i> : a Step in the Evolution of Sex Chromosomes. Eukaryotic Cell, 2002, 1, 704-718.	3.4	258
9	Convergent Evolution of Chromosomal Sex-Determining Regions in the Animal and Fungal Kingdoms. PLoS Biology, 2004, 2, e384.	5.6	218
10	Genome Variation in <i>Cryptococcus gattii</i> , an Emerging Pathogen of Immunocompetent Hosts. MBio, 2011, 2, e00342-10.	4.1	182
11	Whole Genome Comparison Reveals High Levels of Inbreeding and Strain Redundancy Across the Spectrum of Commercial Wine Strains of <i>Saccharomyces cerevisiae</i> . G3: Genes, Genomes, Genetics, 2016, 6, 957-971.	1.8	166
12	Polyploid Titan Cells Produce Haploid and Aneuploid Progeny To Promote Stress Adaptation. MBio, 2015, 6, e01340-15.	4.1	135
13	Evolution of fungal sex chromosomes. Molecular Microbiology, 2004, 51, 299-306.	2.5	134
14	Importance of Resolving Fungal Nomenclature: the Case of Multiple Pathogenic Species in the <i>Cryptococcus</i> Genus. MSphere, 2017, 2, .	2.9	124
15	Titan cells formation in <i>Cryptococcus neoformans</i> is finely tuned by environmental conditions and modulated by positive and negative genetic regulators. PLoS Pathogens, 2018, 14, e1006982.	4.7	119
16	Chromosomal sex-determining regions in animals, plants and fungi. Current Opinion in Genetics and Development, 2005, 15, 645-651.	3.3	97
17	A Diverse Population of <i>Cryptococcus gattii</i> Molecular Type VGIII in Southern Californian HIV/AIDS Patients. PLoS Pathogens, 2011, 7, e1002205.	4.7	95
18	Chromosomal Translocation and Segmental Duplication in <i>Cryptococcus neoformans</i> . Eukaryotic Cell, 2005, 4, 401-406.	3.4	94

#	ARTICLE	IF	CITATIONS
19	Nuclear Accumulation of the GATA Factor AreA in Response to Complete Nitrogen Starvation by Regulation of Nuclear Export. <i>Eukaryotic Cell</i> , 2005, 4, 1646-1653.	3.4	93
20	Complete Genome Sequence of <i>Sporisorium scitamineum</i> and Biotrophic Interaction Transcriptome with Sugarcane. <i>PLoS ONE</i> , 2015, 10, e0129318.	2.5	93
21	Recent Evolution of the Human Pathogen <i>Cryptococcus neoformans</i> by Intervarietal Transfer of a 14-Gene Fragment. <i>Molecular Biology and Evolution</i> , 2006, 23, 1879-1890.	8.9	91
22	Evolution of the Mating Type Locus: Insights Gained from the Dimorphic Primary Fungal Pathogens <i>Histoplasma capsulatum</i> , <i>Coccidioides immitis</i> , and <i>Coccidioides posadasii</i> . <i>Eukaryotic Cell</i> , 2007, 6, 622-629.	3.4	87
23	PAK Kinases Ste20 and Pak1 Govern Cell Polarity at Different Stages of Mating in <i>Cryptococcus neoformans</i> . <i>Molecular Biology of the Cell</i> , 2004, 15, 4476-4489.	2.1	83
24	A Genomic Safe Haven for Mutant Complementation in <i>Cryptococcus neoformans</i> . <i>PLoS ONE</i> , 2015, 10, e0122916.	2.5	83
25	Nitrogen Metabolite Repression of Metabolism and Virulence in the Human Fungal Pathogen <i>Cryptococcus neoformans</i> . <i>Genetics</i> , 2011, 188, 309-323.	2.9	78
26	Fungal mating-type loci. <i>Current Biology</i> , 2003, 13, R792-R795.	3.9	77
27	Clinical and Environmental Isolates of <i>Cryptococcus gattii</i> from Australia That Retain Sexual Fecundity. <i>Eukaryotic Cell</i> , 2005, 4, 1410-1419.	3.4	76
28	First Contemporary Case of Human Infection with <i>Cryptococcus gattii</i> in Puget Sound: Evidence for Spread of the Vancouver Island Outbreak. <i>Journal of Clinical Microbiology</i> , 2007, 45, 3086-3088.	3.9	76
29	Sexual reproduction and dimorphism in the pathogenic basidiomycetes. <i>FEMS Yeast Research</i> , 2009, 9, 161-177.	2.3	73
30	Sulfonylureas Have Antifungal Activity and Are Potent Inhibitors of <i>Candida albicans</i> Acetohydroxyacid Synthase. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 210-219.	6.4	64
31	Ploidy variation as an adaptive mechanism in human pathogenic fungi. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 339-346.	5.0	62
32	Microevolution of <i>Cryptococcus neoformans</i> Driven by Massive Tandem Gene Amplification. <i>Molecular Biology and Evolution</i> , 2012, 29, 1987-2000.	8.9	57
33	Comparative Genomics of Serial Isolates of <i>Cryptococcus neoformans</i> Reveals Gene Associated With Carbon Utilization and Virulence. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 675-686.	1.8	57
34	De novo GTP Biosynthesis Is Critical for Virulence of the Fungal Pathogen <i>Cryptococcus neoformans</i> . <i>PLoS Pathogens</i> , 2012, 8, e1002957.	4.7	56
35	Targeted Genome Editing via CRISPR in the Pathogen <i>Cryptococcus neoformans</i> . <i>PLoS ONE</i> , 2016, 11, e0164322.	2.5	55
36	A Gene from <i>Aspergillus nidulans</i> with Similarity to URE2 of <i>Saccharomyces cerevisiae</i> Encodes a Glutathione S-Transferase Which Contributes to Heavy Metal and Xenobiotic Resistance. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2802-2808.	3.1	54

#	ARTICLE	IF	CITATIONS
37	Discovery of a Modified Tetrapolar Sexual Cycle in <i>Cryptococcus amyloletus</i> and the Evolution of MAT in the <i>Cryptococcus</i> Species Complex. <i>PLoS Genetics</i> , 2012, 8, e1002528.	3.5	54
38	A fluorogenic <i>C. neoformans</i> reporter strain with a robust expression of m-cherry expressed from a safe haven site in the genome. <i>Fungal Genetics and Biology</i> , 2017, 108, 13-25.	2.1	53
39	Transitions in Sexuality: Recapitulation of an Ancestral Tri- and Tetrapolar Mating System in <i>Cryptococcus neoformans</i> . <i>Eukaryotic Cell</i> , 2008, 7, 1847-1855.	3.4	50
40	The Formamidase Gene of <i>Aspergillus nidulans</i> : Regulation by Nitrogen Metabolite Repression and Transcriptional Interference by an Overlapping Upstream Gene. <i>Genetics</i> , 2001, 157, 119-131.	2.9	49
41	The Genes <i>gmdA</i> , Encoding an Amidase, and <i>bzuA</i> , Encoding a Cytochrome P450, Are Required for Benzamide Utilization in <i>Aspergillus nidulans</i> . <i>Fungal Genetics and Biology</i> , 2002, 35, 135-146.	2.1	41
42	Commercial AHAS-inhibiting herbicides are promising drug leads for the treatment of human fungal pathogenic infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9649-E9658.	7.1	40
43	Structures of fungal and plant acetohydroxyacid synthases. <i>Nature</i> , 2020, 586, 317-321.	27.8	37
44	Characterization of the Complete Uric Acid Degradation Pathway in the Fungal Pathogen <i>Cryptococcus neoformans</i> . <i>PLoS ONE</i> , 2013, 8, e64292.	2.5	36
45	Isolation and Characterization of Two Ammonium Permease Genes, <i>meaA</i> and <i>mepA</i> , from <i>Aspergillus nidulans</i> . <i>Eukaryotic Cell</i> , 2002, 1, 85-94.	3.4	35
46	Comparative genomics of non-pseudomonal bacterial species colonising paediatric cystic fibrosis patients. <i>PeerJ</i> , 2015, 3, e1223.	2.0	35
47	Secondary Metabolites of the Sponge-Derived Fungus <i>Acremonium persicinum</i> . <i>Journal of Natural Products</i> , 2013, 76, 1432-1440.	3.0	34
48	Convergent microevolution of <i>Cryptococcus neoformans</i> hypervirulence in the laboratory and the clinic. <i>Scientific Reports</i> , 2017, 7, 17918.	3.3	34
49	A Unique Chromosomal Rearrangement in the <i>Cryptococcus neoformans</i> var. <i>grubii</i> Type Strain Enhances Key Phenotypes Associated with Virulence. <i>MBio</i> , 2012, 3, .	4.1	30
50	Nitrogen regulation of virulence in clinically prevalent fungal pathogens. <i>FEMS Microbiology Letters</i> , 2013, 345, 77-84.	1.8	30
51	Reactive Oxygen Species Homeostasis and Virulence of the Fungal Pathogen <i>Cryptococcus neoformans</i> Requires an Intact Proline Catabolism Pathway. <i>Genetics</i> , 2013, 194, 421-433.	2.9	30
52	Chemical Inhibitors of Non-Homologous End Joining Increase Targeted Construct Integration in <i>Cryptococcus neoformans</i> . <i>PLoS ONE</i> , 2016, 11, e0163049.	2.5	30
53	Multiple Nuclear Localization Signals Mediate Nuclear Localization of the GATA Transcription Factor <i>AreA</i> . <i>Eukaryotic Cell</i> , 2014, 13, 527-538.	3.4	29
54	Sirtuins in the phylum Basidiomycota: A role in virulence in <i>Cryptococcus neoformans</i> . <i>Scientific Reports</i> , 2017, 7, 46567.	3.3	27

#	ARTICLE	IF	CITATIONS
55	Purine Acquisition and Synthesis by Human Fungal Pathogens. <i>Microorganisms</i> , 2017, 5, 33.	3.6	27
56	Evolution of the Mating-Type Locus: The Basidiomycetes. , 0, , 19-34.		25
57	Antibacterial and antifungal screening of natural products sourced from Australian fungi and characterisation of pestalactams Dâ€™F. <i>Phytochemistry</i> , 2016, 124, 79-85.	2.9	21
58	GMP Synthase Is Required for Virulence Factor Production and Infection by <i>Cryptococcus neoformans</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 3049-3059.	3.4	19
59	The beer and biofuels laboratory: A report on implementing and supporting a large, interdisciplinary, yeastâ€™focused courseâ€™based undergraduate research experience. <i>Biochemistry and Molecular Biology Education</i> , 2018, 46, 213-222.	1.2	19
60	Yeast diversity sampling on the San Juan Islands reveals no evidence for the spread of the Vancouver Island <i>Cryptococcus gattii</i> outbreak to this locale. <i>FEMS Yeast Research</i> , 2006, 6, 620-624.	2.3	18
61	Commercial Herbicides Can Trigger the Oxidative Inactivation of Acetohydroxyacid Synthase. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4247-4251.	13.8	18
62	The Long History of the Diverse Roles of Short ORFs: sPEPs in Fungi. <i>Proteomics</i> , 2018, 18, e1700219.	2.2	18
63	Surveying purine biosynthesis across the domains of life unveils promising drug targets in pathogens. <i>Immunology and Cell Biology</i> , 2020, 98, 819-831.	2.3	17
64	Disruption of de Novo Adenosine Triphosphate (ATP) Biosynthesis Abolishes Virulence in <i>Cryptococcus neoformans</i> . <i>ACS Infectious Diseases</i> , 2016, 2, 651-663.	3.8	16
65	<i>Cryptococcus neoformans</i> ADS lyase is an enzyme essential for virulence whose crystal structure reveals features exploitable in antifungal drug design. <i>Journal of Biological Chemistry</i> , 2017, 292, 11829-11839.	3.4	15
66	Antifungal benzo[b]thiophene 1,1-dioxide IMPDH inhibitors exhibit pan-assay interference (PAINS) profiles. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5408-5419.	3.0	15
67	Balancing Stability and Flexibility within the Genome of the Pathogen <i>Cryptococcus neoformans</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003764.	4.7	14
68	Flemingin-Type Prenylated Chalcones from the Sarawak Rainforest Plant <i>Desmodium congestum</i> . <i>Journal of Natural Products</i> , 2015, 78, 2141-2144.	3.0	13
69	Herbicides That Target Acetohydroxyacid Synthase Are Potent Inhibitors of the Growth of Drug-Resistant <i>Candida auris</i> . <i>ACS Infectious Diseases</i> , 2020, 6, 2901-2912.	3.8	13
70	Characterization of an Nmr Homolog That Modulates GATA Factor-Mediated Nitrogen Metabolite Repression in <i>Cryptococcus neoformans</i> . <i>PLoS ONE</i> , 2012, 7, e32585.	2.5	12
71	amdS as a dominant recyclable marker in <i>Cryptococcus neoformans</i> . <i>Fungal Genetics and Biology</i> , 2019, 131, 103241.	2.1	10
72	Is the Nickel-Dependent Urease Complex of <i>Cryptococcus</i> the Pathogenâ€™s Achillesâ€™ Heel?. <i>MBio</i> , 2013, 4, .	4.1	9

#	ARTICLE	IF	CITATIONS
73	Regulatory Mechanism of the Atypical AP-1-Like Transcription Factor Yap1 in <i>Cryptococcus neoformans</i> . <i>MSphere</i> , 2019, 4, .	2.9	8
74	The 2.0 Å... X-ray structure for yeast acetohydroxyacid synthase provides new insights into its cofactor and quaternary structure requirements. <i>PLoS ONE</i> , 2017, 12, e0171443.	2.5	8
75	Crystallization and preliminary X-ray analysis of mycophenolic acid-resistant and mycophenolic acid-sensitive forms of IMP dehydrogenase from the human fungal pathogen <i>Cryptococcus</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1104-1107.	0.7	7
76	Broadening the spectrum of fluorescent protein tools for use in the encapsulated human fungal pathogen <i>Cryptococcus neoformans</i> . <i>Fungal Genetics and Biology</i> , 2020, 138, 103365.	2.1	7
77	Lineages Derived from <i>Cryptococcus neoformans</i> Type Strain H99 Support a Link between the Capacity to Be Pleomorphic and Virulence. <i>MBio</i> , 2022, 13, e0028322.	4.1	7
78	High Resolution Crystal Structures of the Acetohydroxyacid Synthase-Pyruvate Complex Provide New Insights into Its Catalytic Mechanism. <i>ChemistrySelect</i> , 2017, 2, 11981-11988.	1.5	6
79	Quantitation of Purines from Pigeon Guano and Implications for <i>Cryptococcus neoformans</i> Survival During Infection. <i>Mycopathologia</i> , 2019, 184, 273-281.	3.1	6
80	Antimicrobial Octapeptin C4 Analogues Active against <i>Cryptococcus</i> Species. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	5
81	Kalparinol, a Salviolane (Isodaucane) Sesquiterpenoid Derived from Native Australian <i>Dysphania</i> Species That Suggests a Putative Biogenetic Link to Zerumbone. <i>Journal of Natural Products</i> , 2020, 83, 1473-1479.	3.0	5
82	Sex, MAT, and the Evolution of Fungal Virulence. , 0, , 13-33.		5
83	Humulene Diepoxides from the Australian Arid Zone Herb <i>Dysphania</i> : Assignment of Aged Hops Constituents. <i>Chemistry - A European Journal</i> , 2020, 26, 1653-1660.	3.3	3
84	Purification, crystallization and preliminary X-ray analysis of adenylosuccinate synthetase from the fungal pathogen <i>Cryptococcus neoformans</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1033-1036.	0.7	2
85	Commercial Herbicides Can Trigger the Oxidative Inactivation of Acetohydroxyacid Synthase. <i>Angewandte Chemie</i> , 2016, 128, 4319-4323.	2.0	2
86	Structural features of <i>Cryptococcus neoformans</i> bifunctional GAR/AIR synthetase may present novel antifungal drug targets. <i>Journal of Biological Chemistry</i> , 2021, 297, 101091.	3.4	2
87	Problem Formation.. , 2007, , 19-38.		0
88	Rethinking the targets for antifungal development. <i>Microbiology Australia</i> , 2015, 36, 88.	0.4	0
89	Identification and characterisation of sPEPs in <i>Cryptococcus neoformans</i> . <i>Fungal Genetics and Biology</i> , 2022, 160, 103688.	2.1	0