Alexander D Johnson

List of Publications by Year
in descending order

56 papers	6,321 citations	126708 33 h-index	161609 54 g-index
58 all docs	58 docs citations	58 times ranked	5643 citing authors

#	Article	IF	Citations
1	<i>Candida albicans</i> Biofilms and Human Disease. Annual Review of Microbiology, 2015, 69, 71-92.	2.9	768
2	Systematic screens of a Candida albicans homozygous deletion library decouple morphogenetic switching and pathogenicity. Nature Genetics, 2010, 42, 590-598.	9.4	632
3	Strains and Strategies for Large-Scale Gene Deletion Studies of the Diploid Human Fungal Pathogen Candida albicans. Eukaryotic Cell, 2005, 4, 298-309.	3.4	530
4	White-Opaque Switching in Candida albicans Is Controlled by Mating-Type Locus Homeodomain Proteins and Allows Efficient Mating. Cell, 2002, 110, 293-302.	13.5	504
5	Development and regulation of single- and multi-species Candida albicans biofilms. Nature Reviews Microbiology, 2018, 16, 19-31.	13.6	405
6	Identification of a Mating Type-Like Locus in the Asexual Pathogenic Yeast Candida albicans. Science, 1999, 285, 1271-1275.	6.0	351
7	Identification and Characterization of <i>TUP1</i>-Regulated Genes in <i>Candida albicans</i>. Genetics, 2000, 156, 31-44.	1.2	283
8	Evolution of alternative transcriptional circuits with identical logic. Nature, 2006, 443, 415-420.	13.7	250
9	Evolution of a Combinatorial Transcriptional Circuit. Cell, 2003, 115, 389-399.	13.5	232
10	The Evolution of Combinatorial Gene Regulation in Fungi. PLoS Biology, 2008, 6, e38.	2.6	220
11	An expanded regulatory network temporally controls <scp><i>C</i></scp><i>andida albicans</i> biofilm formation. Molecular Microbiology, 2015, 96, 1226-1239.	1.2	140
12	Making Sense of Transcription Networks. Cell, 2015, 161, 714-723.	13.5	133
13	Transcriptional repression directed by the yeast Î±2 protein in vitro. Nature, 1994, 370, 309-311.	13.7	121
14	The biology of mating in Candida albicans. Nature Reviews Microbiology, 2003, 1, 106-116.	13.6	119
15	Mucins Suppress Virulence Traits of Candida albicans. MBio, 2014, 5, e01911.	1.8	95
16	Evolution of Transcription Networks â€" Lessons from Yeasts. Current Biology, 2010, 20, R746-R753.	1.8	93
17	Protein Modularity, Cooperative Binding, and Hybrid Regulatory States Underlie Transcriptional Network Diversification. Cell, 2012, 151, 80-95.	13.5	89
18	Genetics and Molecular Biology in Candida albicans. Methods in Enzymology, 2010, 470, 737-758.	0.4	76

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19	Development of Streptococcus thermophilus lacZ as a reporter gene for Candida albicans. Microbiology (United Kingdom), 2001, 147, 1189-1195.	0.7	76
20	Intercalation of a new tier of transcription regulation into an ancient circuit. Nature, 2010, 468, 959-963.	13.7	74
21	Extensive DNA-binding specificity divergence of a conserved transcription regulator. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7493-7498.	3.3	72
22	Intersecting transcription networks constrain gene regulatory evolution. Nature, 2015, 523, 361-365.	13.7	72
23	A Histone Deacetylase Complex Mediates Biofilm Dispersal and Drug Resistance in Candida albicans. MBio, 2014, 5, e01201-14.	1.8	70
24	Global Identification of Biofilm-Specific Proteolysis in Candida albicans. MBio, 2016, 7, .	1.8	63
25	Assessment and Optimizations of Candida albicans <i>In Vitro</i> Biofilm Assays. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	55
26	Transcriptional rewiring over evolutionary timescales changes quantitative and qualitative properties of gene expression. ELife, 2016, 5, .	2.8	54
27	Ancestral resurrection reveals evolutionary mechanisms of kinase plasticity. ELife, 2014, 3, .	2.8	53
28	The rewiring of transcription circuits in evolution. Current Opinion in Genetics and Development, 2017, 47, 121-127.	1.5	49
29	How duplicated transcription regulators can diversify to govern the expression of nonoverlapping sets of genes. Genes and Development, 2014, 28, 1272-1277.	2.7	48
30	Identification and Characterization of Wor4, a New Transcriptional Regulator of White-Opaque Switching. G3: Genes, Genomes, Genetics, 2016, 6, 721-729.	0.8	48
31	Gene regulatory network plasticity predates a switch in function of a conserved transcription regulator. ELife, 2017, 6, .	2.8	46
32	PhyloBot: A Web Portal for Automated Phylogenetics, Ancestral Sequence Reconstruction, and Exploration of Mutational Trajectories. PLoS Computational Biology, 2016, 12, e1004976.	1.5	43
33	Phenotypic Profiling Reveals that Candida albicans Opaque Cells Represent a Metabolically Specialized Cell State Compared to Default White Cells. MBio, 2016, 7, .	1.8	43
34	Finding a Missing Gene: <i>EFG1</i> Regulates Morphogenesis in <i>Candida tropicalis</i>. G3: Genes, Genomes, Genetics, 2015, 5, 849-856.	0.8	40
35	<i>N</i> -Acetylglucosamine-Induced Cell Death in Candida albicans and Its Implications for Adaptive Mechanisms of Nutrient Sensing in Yeasts. MBio, 2015, 6, e01376-15.	1.8	35
36	Combination of Antifungal Drugs and Protease Inhibitors Prevent Candida albicans Biofilm Formation and Disrupt Mature Biofilms. Frontiers in Microbiology, 2020, 11, 1027.	1.5	34

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37	Systematic Genetic Screen for Transcriptional Regulators of the <i>Candida albicans</i> White-Opaque Switch. Genetics, 2016, 203, 1679-1692.	1.2	33
38	Ssn6 Defines a New Level of Regulation of White-Opaque Switching in Candida albicans and Is Required For the Stochasticity of the Switch. MBio, 2016, 7, e01565-15.	1.8	33
39	How Transcription Networks Evolve and Produce Biological Novelty. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 265-274.	2.0	31
40	Regulatory Circuits That Enable Proliferation of the Fungus Candida albicans in a Mammalian Host. PLoS Pathogens, 2013, 9, e1003780.	2.1	30
41	How transcription circuits explore alternative architectures while maintaining overall circuit output. Genes and Development, 2017, 31, 1397-1405.	2.7	29
42	Evolution of the complex transcription network controlling biofilm formation in Candida species. ELife, 2021, 10, .	2.8	25
43	Intrinsic cooperativity potentiates parallel cis-regulatory evolution. ELife, 2018, 7, .	2.8	19
44	Candida albicans white and opaque cells exhibit distinct spectra of organ colonization in mouse models of infection. PLoS ONE, 2019, 14, e0218037.	1.1	16
45	Genetic Modification of Closely Related Candida Species. Frontiers in Microbiology, 2019, 10, 357.	1.5	15
46	Protein-coding changes preceded cis-regulatory gains in a newly evolved transcription circuit. Science, 2020, 367, 96-100.	6.0	15
47	A population shift between two heritable cell types of the pathogen <i>Candida albicans</i> is based both on switching and selective proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26918-26924.	3.3	10
48	Sensitivity of White and Opaque Candida albicans Cells to Antifungal Drugs. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	9
49	Lineage-specific selection and the evolution of virulence in the <i>Candida</i> clade. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
50	A Selective Serotonin Reuptake Inhibitor, a Proton Pump Inhibitor, and Two Calcium Channel Blockers Inhibit Candida albicans Biofilms. Microorganisms, 2020, 8, 756.	1.6	9
51	Crystallization and preliminary X-ray diffraction studies of an a1/Î±2/DNA ternary complex. Proteins: Structure, Function and Bioinformatics, 1995, 21, 161-164.	1.5	7
52	An Opaque Cell-Specific Expression Program of Secreted Proteases and Transporters Allows Cell-Type Cooperation in <i>Candida albicans</i>. Genetics, 2020, 216, 409-429.	1.2	6
53	A Screen for Small Molecules to Target Candida albicans Biofilms. Journal of Fungi (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.5	3
54	Multiple molecular events underlie stochastic switching between 2 heritable cell states in fungi. PLoS Biology, 2022, 20, e3001657.	2.6	3

#	ARTICLE	IF	CITATIONS
55	Rewiring Transcriptional Circuitry: Mating-Type Regulation in Saccharomyces cerevisiae and Candida albicans as a Model for Evolution. , 0, , 75-89.		2
56	Mating and Parasexual Genetics in Candida albicans. , 0, , 71-88.		0