

# Alexander D Johnson

## List of Publications by Year in descending order

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56  
papers

6,321  
citations

126907

33  
h-index

161849

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.	7.3	768
2	Systematic screens of a <i>Candida albicans</i> homozygous deletion library decouple morphogenetic switching and pathogenicity. Nature Genetics, 2010, 42, 590-598.	21.4	632
3	Strains and Strategies for Large-Scale Gene Deletion Studies of the Diploid Human Fungal Pathogen <i>Candida albicans</i> . Eukaryotic Cell, 2005, 4, 298-309.	3.4	530
4	White-Opaque Switching in <i>Candida albicans</i> Is Controlled by Mating-Type Locus Homeodomain Proteins and Allows Efficient Mating. Cell, 2002, 110, 293-302.	28.9	504
5	Development and regulation of single- and multi-species <i>Candida albicans</i> biofilms. Nature Reviews Microbiology, 2018, 16, 19-31.	28.6	405
6	Identification of a Mating Type-Like Locus in the Asexual Pathogenic Yeast <i>Candida albicans</i> . Science, 1999, 285, 1271-1275.	12.6	351
7	Identification and Characterization of <i>TUP1</i> -Regulated Genes in <i>Candida albicans</i> . Genetics, 2000, 156, 31-44.	2.9	283
8	Evolution of alternative transcriptional circuits with identical logic. Nature, 2006, 443, 415-420.	27.8	250
9	Evolution of a Combinatorial Transcriptional Circuit. Cell, 2003, 115, 389-399.	28.9	232
10	The Evolution of Combinatorial Gene Regulation in Fungi. PLoS Biology, 2008, 6, e38.	5.6	220
11	An expanded regulatory network temporally controls <i>Candida albicans</i> biofilm formation. Molecular Microbiology, 2015, 96, 1226-1239.	2.5	140
12	Making Sense of Transcription Networks. Cell, 2015, 161, 714-723.	28.9	133
13	Transcriptional repression directed by the yeast $\text{Î}2$ protein in vitro. Nature, 1994, 370, 309-311.	27.8	121
14	The biology of mating in <i>Candida albicans</i> . Nature Reviews Microbiology, 2003, 1, 106-116.	28.6	119
15	Mucins Suppress Virulence Traits of <i>Candida albicans</i> . MBio, 2014, 5, e01911.	4.1	95
16	Evolution of Transcription Networks – Lessons from Yeasts. Current Biology, 2010, 20, R746-R753.	3.9	93
17	Protein Modularity, Cooperative Binding, and Hybrid Regulatory States Underlie Transcriptional Network Diversification. Cell, 2012, 151, 80-95.	28.9	89
18	Genetics and Molecular Biology in <i>Candida albicans</i> . Methods in Enzymology, 2010, 470, 737-758.	1.0	76

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19	Development of <i>Streptococcus thermophilus</i> lacZ as a reporter gene for <i>Candida albicans</i> . <i>Microbiology</i> (United Kingdom), 2001, 147, 1189-1195.	1.8	76
20	Intercalation of a new tier of transcription regulation into an ancient circuit. <i>Nature</i> , 2010, 468, 959-963.	27.8	74
21	Extensive DNA-binding specificity divergence of a conserved transcription regulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7493-7498.	7.1	72
22	Intersecting transcription networks constrain gene regulatory evolution. <i>Nature</i> , 2015, 523, 361-365.	27.8	72
23	A Histone Deacetylase Complex Mediates Biofilm Dispersal and Drug Resistance in <i>Candida albicans</i> . <i>MBio</i> , 2014, 5, e01201-14.	4.1	70
24	Global Identification of Biofilm-Specific Proteolysis in <i>Candida albicans</i> . <i>MBio</i> , 2016, 7, .	4.1	63
25	Assessment and Optimizations of <i>Candida albicans</i> <i>In Vitro</i> Biofilm Assays. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	55
26	Transcriptional rewiring over evolutionary timescales changes quantitative and qualitative properties of gene expression. <i>ELife</i> , 2016, 5, .	6.0	54
27	Ancestral resurrection reveals evolutionary mechanisms of kinase plasticity. <i>ELife</i> , 2014, 3, .	6.0	53
28	The rewiring of transcription circuits in evolution. <i>Current Opinion in Genetics and Development</i> , 2017, 47, 121-127.	3.3	49
29	How duplicated transcription regulators can diversify to govern the expression of nonoverlapping sets of genes. <i>Genes and Development</i> , 2014, 28, 1272-1277.	5.9	48
30	Identification and Characterization of Wor4, a New Transcriptional Regulator of White-Opaque Switching. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 721-729.	1.8	48
31	Gene regulatory network plasticity predates a switch in function of a conserved transcription regulator. <i>ELife</i> , 2017, 6, .	6.0	46
32	PhyloBot: A Web Portal for Automated Phylogenetics, Ancestral Sequence Reconstruction, and Exploration of Mutational Trajectories. <i>PLoS Computational Biology</i> , 2016, 12, e1004976.	3.2	43
33	Phenotypic Profiling Reveals that <i>Candida albicans</i> Opaque Cells Represent a Metabolically Specialized Cell State Compared to Default White Cells. <i>MBio</i> , 2016, 7, .	4.1	43
34	Finding a Missing Gene: <i>EFG1</i> Regulates Morphogenesis in <i>Candida tropicalis</i> . <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 849-856.	1.8	40
35	<i>N</i> -Acetylglucosamine-Induced Cell Death in <i>Candida albicans</i> and Its Implications for Adaptive Mechanisms of Nutrient Sensing in Yeasts. <i>MBio</i> , 2015, 6, e01376-15.	4.1	35
36	Combination of Antifungal Drugs and Protease Inhibitors Prevent <i>Candida albicans</i> Biofilm Formation and Disrupt Mature Biofilms. <i>Frontiers in Microbiology</i> , 2020, 11, 1027.	3.5	34

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37	Systematic Genetic Screen for Transcriptional Regulators of the <i>Candida albicans</i> White-Opaque Switch. <i>Genetics</i> , 2016, 203, 1679-1692.	2.9	33
38	Ssn6 Defines a New Level of Regulation of White-Opaque Switching in <i>Candida albicans</i> and Is Required For the Stochasticity of the Switch. <i>MBio</i> , 2016, 7, e01565-15.	4.1	33
39	How Transcription Networks Evolve and Produce Biological Novelty. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2015, 80, 265-274.	1.1	31
40	Regulatory Circuits That Enable Proliferation of the Fungus <i>Candida albicans</i> in a Mammalian Host. <i>PLoS Pathogens</i> , 2013, 9, e1003780.	4.7	30
41	How transcription circuits explore alternative architectures while maintaining overall circuit output. <i>Genes and Development</i> , 2017, 31, 1397-1405.	5.9	29
42	Evolution of the complex transcription network controlling biofilm formation in <i>Candida</i> species. <i>ELife</i> , 2021, 10, .	6.0	25
43	Intrinsic cooperativity potentiates parallel cis-regulatory evolution. <i>ELife</i> , 2018, 7, .	6.0	19
44	<i>Candida albicans</i> white and opaque cells exhibit distinct spectra of organ colonization in mouse models of infection. <i>PLoS ONE</i> , 2019, 14, e0218037.	2.5	16
45	Genetic Modification of Closely Related <i>Candida</i> Species. <i>Frontiers in Microbiology</i> , 2019, 10, 357.	3.5	15
46	Protein-coding changes preceded cis-regulatory gains in a newly evolved transcription circuit. <i>Science</i> , 2020, 367, 96-100.	12.6	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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26918-26924.	7.1	10
48	Sensitivity of White and Opaque <i>Candida albicans</i> Cells to Antifungal Drugs. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	9
49	Lineage-specific selection and the evolution of virulence in the <i>Candida</i> clade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
50	A Selective Serotonin Reuptake Inhibitor, a Proton Pump Inhibitor, and Two Calcium Channel Blockers Inhibit <i>Candida albicans</i> Biofilms. <i>Microorganisms</i> , 2020, 8, 756.	3.6	9
51	Crystallization and preliminary X-ray diffraction studies of an $\alpha 1\beta 2$ /DNA ternary complex. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 21, 161-164.	2.6	7
52	An Opaque Cell-Specific Expression Program of Secreted Proteases and Transporters Allows Cell-Type Cooperation in <i>Candida albicans</i> . <i>Genetics</i> , 2020, 216, 409-429.	2.9	6
53	A Screen for Small Molecules to Target <i>Candida albicans</i> Biofilms. <i>Journal of Fungi (Basel)</i> , Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	3.5	5
54	Multiple molecular events underlie stochastic switching between 2 heritable cell states in fungi. <i>PLoS Biology</i> , 2022, 20, e3001657.	5.6	3

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55	Rewiring Transcriptional Circuitry: Mating-Type Regulation in <i>Saccharomyces cerevisiae</i> and <i>Candida albicans</i> as a Model for Evolution. , 0 , 75-89.		2
56	Mating and Parasexual Genetics in <i>Candida albicans</i> . , 0 , 71-88.		0