Aaron P Mitchell

List of Publications by Citations

156 papers	11,486 citations	60 h-index	106 g-index
183 ext. papers	13,037 ext. citations	6.8 avg, IF	6.45 L-index

#	Paper	IF	Citations
156	Rapid hypothesis testing with Candida albicans through gene disruption with short homology regions. *Journal of Bacteriology*, **1999**, 181, 1868-74	3.5	662
155	Genetic control of Candida albicans biofilm development. *Nature Reviews Microbiology*, **2011**, 9, 109-18	22.2	426
154	How to build a biofilm: a fungal perspective. *Current Opinion in Microbiology*, **2006**, 9, 588-94	7.9	392
153	Critical role of Bcr1-dependent adhesins in C. albicans biofilm formation in vitro and in vivo. *PLoS Pathogens*, **2006**, 2, e63	7.6	387
152	Regulation of cell-surface genes and biofilm formation by the C. albicans transcription factor Bcr1p. *Current Biology*, **2005**, 15, 1150-5	6.3	370
151	Function of Candida albicans adhesin Hwp1 in biofilm formation. *Eukaryotic Cell*, **2006**, 5, 1604-10		270
150	Fungal biofilms. *PLoS Pathogens*, **2012**, 8, e1002585	7.6	268
149	A human-curated annotation of the Candida albicans genome. *PLoS Genetics*, **2005**, 1, 36-57	6	249
148	Complementary adhesin function in C. albicans biofilm formation. *Current Biology*, **2008**, 18, 1017-24	6.3	247
147	RIM101-dependent and-independent pathways govern pH responses in Candida albicans. *Molecular and Cellular Biology*, **2000**, 20, 971-8	4.8	246
146	Candida albicans RIM101 pH response pathway is required for host-pathogen interactions. *Infection and Immunity*, **2000**, 68, 5953-9	3.7	242
145	Biofilm matrix regulation by Candida albicans Zap1. *PLoS Biology*, **2009**, 7, e1000133	9.7	233
144	The transcription factor Rim101p governs ion tolerance and cell differentiation by direct repression of the regulatory genes NRG1 and SMP1 in Saccharomyces cerevisiae. *Molecular and Cellular Biology*, **2003**, 23, 677-86	4.8	222
143	Dimorphism and virulence in Candida albicans. *Current Opinion in Microbiology*, **1998**, 1, 687-92	7.9	210
142	A recyclable Candida albicans URA3 cassette for PCR product-directed gene disruptions. *Yeast*, **2000**, 16, 65-70	3.4	205
141	Genetics and genomics of Candida albicans biofilm formation. *Cellular Microbiology*, **2006**, 8, 1382-91	3.9	201
140	Novel entries in a fungal biofilm matrix encyclopedia. *MBio*, **2014**, 5, e01333-14	7.8	194

139	Aspergillus galactosaminogalactan mediates adherence to host constituents and conceals hyphal β-glucan from the immune system. *PLoS Pathogens*, **2013**, 9, e1003575	7.6	194
138	Activation of meiosis and sporulation by repression of the RME1 product in yeast. *Nature*, **1986**, 319, 738-42	50.4	191
137	A Candida biofilm-induced pathway for matrix glucan delivery: implications for drug resistance. *PLoS Pathogens*, **2012**, 8, e1002848	7.6	190
136	A single-transformation gene function test in diploid Candida albicans. *Journal of Bacteriology*, **2000**, 182, 5730-6	3.5	185
135	Alkaline response genes of Saccharomyces cerevisiae and their relationship to the RIM101 pathway. *Journal of Biological Chemistry*, **2001**, 276, 1850-6	5.4	182
134	Proteolytic activation of Rim1p, a positive regulator of yeast sporulation and invasive growth. *Genetics*, **1997**, 145, 63-73	4	171
133	Candida albicans Mds3p, a conserved regulator of pH responses and virulence identified through insertional mutagenesis. *Genetics*, **2002**, 162, 1573-81	4	160
132	Portrait of Candida albicans adherence regulators. *PLoS Pathogens*, **2012**, 8, e1002525	7.6	158
131	Mucosal tissue invasion by Candida albicans is associated with E-cadherin degradation, mediated by transcription factor Rim101p and protease Sap5p. *Infection and Immunity*, **2007**, 75, 2126-35	3.7	157
130	An extensive circuitry for cell wall regulation in Candida albicans. *PLoS Pathogens*, **2010**, 6, e1000752	7.6	148
129	Fungal biofilms, drug resistance, and recurrent infection. *Cold Spring Harbor Perspectives in Medicine*, **2014**, 4,	5.4	146
128	Multivesicular body-ESCRT components function in pH response regulation in Saccharomyces cerevisiae and Candida albicans. *Molecular Biology of the Cell*, **2004**, 15, 5528-37	3.5	144
127	Candida albicans biofilm-defective mutants. *Eukaryotic Cell*, **2005**, 4, 1493-502		129
126	Mucosal biofilms of Candida albicans. *Current Opinion in Microbiology*, **2011**, 14, 380-5	7.9	124
125	Candida albicans transcription factor Rim101 mediates pathogenic interactions through cell wall functions. *Cellular Microbiology*, **2008**, 10, 2180-96	3.9	124
124	Control of the C. albicans cell wall damage response by transcriptional regulator Cas5. *PLoS Pathogens*, **2006**, 2, e21	7.6	124
123	Alcohol dehydrogenase restricts the ability of the pathogen Candida albicans to form a biofilm on catheter surfaces through an ethanol-based mechanism. *Infection and Immunity*, **2006**, 74, 3804-16	3.7	114
122	Candida albicans Gene Deletion with a Transient CRISPR-Cas9 System. *MSphere*, **2016**, 1,	5	113

121	ChIP-seq and in vivo transcriptome analyses of the Aspergillus fumigatus SREBP SrbA reveals a new regulator of the fungal hypoxia response and virulence. *PLoS Pathogens*, **2014**, 10, e1004487	7.6	110
120	Candida albicans biofilm-induced vesicles confer drug resistance through matrix biogenesis. *PLoS Biology*, **2018**, 16, e2006872	9.7	107
119	Yeast PalA/AIP1/Alix homolog Rim20p associates with a PEST-like region and is required for its proteolytic cleavage. *Journal of Bacteriology*, **2001**, 183, 6917-23	3.5	104
118	Community participation in biofilm matrix assembly and function. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 4092-7	11.5	103
117	Requirement for Candida albicans Sun41 in biofilm formation and virulence. *Eukaryotic Cell*, **2007**, 6, 2046-55		98
116	Roles of Candida albicans Dfg5p and Dcw1p cell surface proteins in growth and hypha formation. *Eukaryotic Cell*, **2003**, 2, 746-55		98
115	Cell wall integrity is linked to mitochondria and phospholipid homeostasis in Candida albicans through the activity of the post-transcriptional regulator Ccr4-Pop2. *Molecular Microbiology*, **2011**, 79, 968-89	4.1	95
114	Molecular characterization of the yeast meiotic regulatory gene RIM1. *Nucleic Acids Research*, **1993**, 21, 3789-97	20.1	95
113	Yeast wall protein 1 of Candida albicans. *Microbiology (United Kingdom)*, **2005**, 151, 1631-1644	2.9	93
112	Candida albicans Hyr1p confers resistance to neutrophil killing and is a potential vaccine target. *Journal of Infectious Diseases*, **2010**, 201, 1718-28	7	87
111	Relationship between Candida albicans virulence during experimental hematogenously disseminated infection and endothelial cell damage in vitro. *Infection and Immunity*, **2004**, 72, 598-601	3.7	87
110	The plant defensin RsAFP2 induces cell wall stress, septin mislocalization and accumulation of ceramides in Candida albicans. *Molecular Microbiology*, **2012**, 84, 166-80	4.1	85
109	Candida albicans Morphogenesis Programs Control the Balance between Gut Commensalism and Invasive Infection. *Cell Host and Microbe*, **2019**, 25, 432-443.e6	23.4	84
108	Divergent targets of Candida albicans biofilm regulator Bcr1 in vitro and in vivo. *Eukaryotic Cell*, **2012**, 11, 896-904		80
107	Candida albicans Rim13p, a protease required for Rim101p processing at acidic and alkaline pHs. *Eukaryotic Cell*, **2004**, 3, 741-51		80
106	Invasive phenotype of Candida albicans affects the host proinflammatory response to infection. *Infection and Immunity*, **2005**, 73, 4588-95	3.7	79
105	Role of filamentation in Galleria mellonella killing by Candida albicans. *Microbes and Infection*, **2010**, 12, 488-96	9.3	73
104	Relationship of DFG16 to the Rim101p pH response pathway in Saccharomyces cerevisiae and Candida albicans. *Eukaryotic Cell*, **2005**, 4, 890-9		73

103	Control of Bro1-domain protein Rim20 localization by external pH, ESCRT machinery, and the Saccharomyces cerevisiae Rim101 pathway. *Molecular Biology of the Cell*, **2006**, 17, 1344-53	3.5	72
102	Genetic control of chlamydospore formation in Candida albicans. *Microbiology (United Kingdom)*, **2003**, 149, 3629-3637	2.9	71
101	Activation and alliance of regulatory pathways in C. albicans during mammalian infection. *PLoS Biology*, **2015**, 13, e1002076	9.7	69
100	Regulation of the Candida albicans cell wall damage response by transcription factor Sko1 and PAS kinase Psk1. *Molecular Biology of the Cell*, **2008**, 19, 2741-51	3.5	68
99	Role of Bcr1-activated genes Hwp1 and Hyr1 in Candida albicans oral mucosal biofilms and neutrophil evasion. *PLoS ONE*, **2011**, 6, e16218	3.7	68
98	The Cryptococcus neoformans Rim101 transcription factor directly regulates genes required for adaptation to the host. *Molecular and Cellular Biology*, **2014**, 34, 673-84	4.8	62
97	New concepts regarding the pathogenesis of periodontal disease in HIV infection **1998**, 3, 62-75		61
96	New signaling pathways govern the host response to C. albicans infection in various niches. *Genome Research*, **2015**, 25, 679-89	9.7	57
95	Regulatory role of glycerol in Candida albicans biofilm formation. *MBio*, **2013**, 4, e00637-12	7.8	55
94	Candida albicans Biofilm Development and Its Genetic Control. *Microbiology Spectrum*, **2015**, 3,	8.9	54
93	Zap1 control of cell-cell signaling in Candida albicans biofilms. *Eukaryotic Cell*, **2011**, 10, 1448-54		48
92	Microbial biofilms: e pluribus unum. *Current Biology*, **2007**, 17, R349-53	6.3	47
91	Profiling of Candida albicans gene expression during intra-abdominal candidiasis identifies biologic processes involved in pathogenesis. *Journal of Infectious Diseases*, **2013**, 208, 1529-37	7	45
90	Widespread occurrence of chromosomal aneuploidy following the routine production of Candida albicans mutants. *FEMS Yeast Research*, **2009**, 9, 1070-7	3.1	45
89	Candida albicans protein kinase CK2 governs virulence during oropharyngeal candidiasis. *Cellular Microbiology*, **2007**, 9, 233-45	3.9	45
88	Shared roles of yeast glycogen synthase kinase 3 family members in nitrogen-responsive phosphorylation of meiotic regulator Ume6p. *Molecular and Cellular Biology*, **2000**, 20, 5447-53	4.8	44
87	Large-scale gene disruption using the UAU1 cassette. *Methods in Molecular Biology*, **2009**, 499, 175-94	1.4	44
86	Transcriptional responses of candida albicans to epithelial and endothelial cells. *Eukaryotic Cell*, **2009**, 8, 1498-510		42

85	Candida albicans Cas5, a regulator of cell wall integrity, is required for virulence in murine and toll mutant fly models. *Journal of Infectious Diseases*, **2009**, 200, 152-7	7	41
84	Regulation of azole drug susceptibility by Candida albicans protein kinase CK2. *Molecular Microbiology*, **2005**, 56, 559-73	4.1	41
83	Contextual Slip and Prediction of Student Performance after Use of an Intelligent Tutor. *Lecture Notes in Computer Science*, **2010**, 52-63	0.9	41
82	Interaction between the Candida albicans high-osmolarity glycerol (HOG) pathway and the response to human beta-defensins 2 and 3. *Eukaryotic Cell*, **2011**, 10, 272-5		38
81	Three regulatory systems control expression of glutamine synthetase in Saccharomyces cerevisiae at the level of transcription. *Molecular Genetics and Genomics*, **1989**, 217, 370-7		38
80	Marker Recycling in through CRISPR-Cas9-Induced Marker Excision. *MSphere*, **2017**, 2,	5	34
79	Circuit diversification in a biofilm regulatory network. *PLoS Pathogens*, **2019**, 15, e1007787	7.6	34
78	Conservation and Divergence in the Species Biofilm Matrix Mannan-Glucan Complex Structure, Function, and Genetic Control. *MBio*, **2018**, 9,	7.8	34
77	The GLN1 locus of Saccharomyces cerevisiae encodes glutamine synthetase. *Genetics*, **1985**, 111, 243-58	4	32
76	Bypass of Candida albicans Filamentation/Biofilm Regulators through Diminished Expression of Protein Kinase Cak1. *PLoS Genetics*, **2016**, 12, e1006487	6	29
75	Evidence for a role of glycogen synthase kinase-3 beta in rodent spermatogenesis. *Journal of Andrology*, **2003**, 24, 332-42		28
74	Large-scale gene function analysis in Candida albicans. *Trends in Microbiology*, **2004**, 12, 157-61	12.4	28
73	Coupling of Saccharomyces cerevisiae early meiotic gene expression to DNA replication depends upon RPD3 and SIN3. *Genetics*, **2001**, 157, 545-56	4	28
72	Functional control of the Candida albicans cell wall by catalytic protein kinase A subunit Tpk1. *Molecular Microbiology*, **2012**, 86, 284-302	4.1	27
71	A novel streptococcal cell-cell communication peptide promotes pneumococcal virulence and biofilm formation. *Molecular Microbiology*, **2017**, 105, 554-571	4.1	26
70	Disruption of the transcriptional regulator Cas5 results in enhanced killing of Candida albicans by Fluconazole. *Antimicrobial Agents and Chemotherapy*, **2014**, 58, 6807-18	5.9	26
69	Effect of sequence-directed nucleosome disruption on cell-type-specific repression by alpha2/Mcm1 in the yeast genome. *Eukaryotic Cell*, **2006**, 5, 1925-33		26
68	Rapid redistribution of phosphatidylinositol-(4,5)-bisphosphate and septins during the Candida albicans response to caspofungin. *Antimicrobial Agents and Chemotherapy*, **2012**, 56, 4614-24	5.9	25

67	Genomic footprinting of the yeast zinc finger protein Rme1p and its roles in repression of the meiotic activator IME1. *Nucleic Acids Research*, **1998**, 26, 2329-36	20.1	24
66	Role of retrograde trafficking in stress response, host cell interactions, and virulence of Candida albicans. *Eukaryotic Cell*, **2014**, 13, 279-87		23
65	Catalytic roles of yeast GSK3beta/shaggy homolog Rim11p in meiotic activation. *Genetics*, **1999**, 153, 1145-52	4	23
64	Divergent targets of Aspergillus fumigatus AcuK and AcuM transcription factors during growth in vitro versus invasive disease. *Infection and Immunity*, **2015**, 83, 923-33	3.7	22
63	Impact of surface topography on biofilm formation by Candida albicans. *PLoS ONE*, **2018**, 13, e0197925	3.7	22
62	An RNA-binding protein homologue that promotes sporulation-specific gene expression in Saccharomyces cerevisiae. *Yeast*, **2000**, 16, 631-9	3.4	19
61	Roles of Candida albicans Mig1 and Mig2 in glucose repression, pathogenicity traits, and SNF1 essentiality. *PLoS Genetics*, **2020**, 16, e1008582	6	18
60	Pathogen Gene Expression Profiling During Infection Using a Nanostring nCounter Platform. *Methods in Molecular Biology*, **2016**, 1361, 57-65	1.4	17
59	Bcr1 functions downstream of Ssd1 to mediate antimicrobial peptide resistance in Candida albicans. *Eukaryotic Cell*, **2013**, 12, 411-9		17
58	Glycerophosphocholine utilization by Candida albicans: role of the Git3 transporter in virulence. *Journal of Biological Chemistry*, **2013**, 288, 33939-33952	5.4	17
57	Promiscuous signaling by a regulatory system unique to the pandemic PMEN1 pneumococcal lineage. *PLoS Pathogens*, **2017**, 13, e1006339	7.6	16
56	Activation of EphA2-EGFR signaling in oral epithelial cells by Candida albicans virulence factors. *PLoS Pathogens*, **2021**, 17, e1009221	7.6	16
55	Yeast Ume6p repressor permits activator binding but restricts TBP binding at the HOP1 promoter. *Nucleic Acids Research*, **2003**, 31, 3033-7	20.1	15
54	Fungal Biofilms: Inside Out. *Microbiology Spectrum*, **2017**, 5,	8.9	14
53	Fungal CO2 sensing: a breath of fresh air. *Current Biology*, **2005**, 15, R934-6	6.3	14
52	Coordination of Candida albicans Invasion and Infection Functions by Phosphoglycerol Phosphatase Rhr2. *Pathogens*, **2015**, 4, 573-89	4.5	13
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50	A VAST staging area for regulatory proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7111-2	11.5	12

49	Detection of protein-protein interactions through vesicle targeting. *Genetics*, **2009**, 182, 33-9	4	11
48	Repression and activation domains of RME1p structurally overlap, but differ in genetic requirements. *Molecular Biology of the Cell*, **2002**, 13, 1709-21	3.5	11
47	Cryptococcal virulence: beyond the usual suspects. *Journal of Clinical Investigation*, **2006**, 116, 1481-3	15.9	11
46	Sudden motility reversal indicates sensing of magnetic field gradients in Magnetospirillum magneticum AMB-1 strain. *ISME Journal*, **2015**, 9, 1399-409	11.9	10
45	Candida albicans adds more weight to iron regulation. *Cell Host and Microbe*, **2011**, 10, 93-4	23.4	10
44	cis- and trans-acting localization determinants of pH response regulator Rim13 in Saccharomyces cerevisiae. *Eukaryotic Cell*, **2012**, 11, 1201-9		9
43	A competitive infection model of hematogenously disseminated candidiasis in mice redefines the role of Candida albicans IRS4 in pathogenesis. *Infection and Immunity*, **2013**, 81, 1430-8	3.7	9
42	Toward a Molecular Understanding of Candida albicans Virulence305-P1		9
41	Functional convergence of gliP and aspf1 in Aspergillus fumigatus pathogenicity. *Virulence*, **2018**, 9, 1062-10738	4.7	
40	Rapid Gene Concatenation for Genetic Rescue of Multigene Mutants in. *MSphere*, **2018**, 3,	5	7
39	Mutational analysis of essential septins reveals a role for septin-mediated signaling in filamentation. *Eukaryotic Cell*, **2014**, 13, 1403-10		7
38	Mini-blaster-mediated targeted gene disruption and marker complementation in Candida albicans. *Methods in Molecular Biology*, **2012**, 845, 19-39	1.4	7
37	Intervention of Bro1 in pH-responsive Rim20 localization in Saccharomyces cerevisiae. *Eukaryotic Cell*, **2010**, 9, 532-8		7
36	Microbiology: Fungus produces a toxic surprise. *Nature*, **2016**, 532, 41-2	50.4	7
35	A nucleosome positioned by alpha2/Mcm1 prevents Hap1 activator binding in vivo. *Biochemical and Biophysical Research Communications*, **2007**, 364, 583-8	3.4	6
34	Coordination of fungal biofilm development by extracellular vesicle cargo. *Nature Communications*, **2021**, 12, 6235	17.4	6
33	Genome Sequence for Candida albicans Clinical Oral Isolate 529L. *Microbiology Resource Announcements*, **2019**, 8,	1.3	5
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31	Determining Aspergillus fumigatus transcription factor expression and function during invasion of the mammalian lung. *PLoS Pathogens*, **2021**, 17, e1009235	7.6	5
30	Intravital Imaging of Candida albicans Identifies Differential and Filamentation Phenotypes for Transcription Factor Deletion Mutants. *MSphere*, **2021**, 6, e0043621	5	5
29	Sequence-directed nucleosome-depletion is sufficient to activate transcription from a yeast core promoter in vivo. *Biochemical and Biophysical Research Communications*, **2016**, 476, 57-62	3.4	4
28	Fungal Biofilms: Inside Out **2017**, 873-886		4
27	A Candida albicans Strain Expressing Mammalian Interleukin-17A Results in Early Control of Fungal Growth during Disseminated Infection. *Infection and Immunity*, **2015**, 83, 3684-92	3.7	3
26	Candida albicans Biofilm Development and Its Genetic Control **2015**, 99-114		3
25	Hap1p photofootprinting as an in vivo assay of repression mechanism in Saccharomyces cerevisiae. *Methods in Enzymology*, **2003**, 370, 479-87	1.7	3
24	A C-terminal segment with properties of alpha-helix is essential for DNA binding and in vivo function of zinc finger protein Rme1p. *Journal of Biological Chemistry*, **2001**, 276, 37680-5	5.4	3
23	Systematic Genetic Interaction Analysis Identifies a Transcription Factor Circuit Required for Oropharyngeal Candidiasis.. *MBio*, **2022**, e0344721	7.8	3
22	Fungal morphogenesis: in hot pursuit. *Current Biology*, **2012**, 22, R225-7	6.3	2
21	Molecular Basis of Fungal Adherence to Endothelial and Epithelial Cells187-196		2
20	Gene Expression Profiling of Infecting Microbes Using a Digital Bar-coding Platform. *Journal of Visualized Experiments*, **2016**, e53460	1.6	1
19	Signal Transduction in the Interactions of Fungal Pathogens and Mammalian Hosts143-162		1
18	Culture, Cell Harvesting, and Total RNA Extraction. *Bio-protocol*, **2020**, 10, e3803	0.9	1
17	Function of BriC Peptide in the Pneumococcal Competence and Virulence Portfolio		1
16	Activation of oral epithelial EphA2-EFGR signaling by Candida albicans virulence factors		1
15	Environmentally contingent control of Candida albicans cell wall integrity by transcriptional regulator Cup9. *Genetics*, **2021**, 218,	4	1
14	Targeted Genetic Changes in Candida albicans Using Transient CRISPR-Cas9 Expression. *Current Protocols*, **2021**, 1, e19		1

13	Infection-Associated Gene Expression The Pathogen Perspective **2017**, 253-269	0
12	The Fungal Pathogen Candida albicans **2014**, 751-768	
11	Teach, then trust Elizabeth W. Jones (1939-2008): mentor to many. *Genetics*, **2009**, 181, 357-65	4
10	Postgenomic Strategies for Genetic Analysis: Insight from Saccharomyces cerevisiae and Candida albicans35-P1	
9	Studying Fungal Virulence by Using Genomics589-P1	
8	Biofilm Formation in Candida albicans299-315	
7	Diminished Expression Alleles for Analysis of Virulence Traits and Genetic Interactions in Candida albicans. *Methods in Molecular Biology*, **2021**, 2260, 1-13	1.4
6	Roles of Candida albicans Mig1 and Mig2 in glucose repression, pathogenicity traits, and SNF1 essentiality **2020**, 16, e1008582	
5	Roles of Candida albicans Mig1 and Mig2 in glucose repression, pathogenicity traits, and SNF1 essentiality **2020**, 16, e1008582	
4	Roles of Candida albicans Mig1 and Mig2 in glucose repression, pathogenicity traits, and SNF1 essentiality **2020**, 16, e1008582	
3	Roles of Candida albicans Mig1 and Mig2 in glucose repression, pathogenicity traits, and SNF1 essentiality **2020**, 16, e1008582	
2	Roles of Candida albicans Mig1 and Mig2 in glucose repression, pathogenicity traits, and SNF1 essentiality **2020**, 16, e1008582	
1	Roles of Candida albicans Mig1 and Mig2 in glucose repression, pathogenicity traits, and SNF1 essentiality **2020**, 16, e1008582	