

# Donna M Maccallum

## List of Publications by Year in descending order

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95  
papers

7,771  
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46918

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101  
docs citations

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times ranked

6112  
citing authors

#	ARTICLE	IF	CITATIONS
1	Immune sensing of <i>Candida albicans</i> requires cooperative recognition of mannans and glucans by lectin and Toll-like receptors. <i>Journal of Clinical Investigation</i> , 2006, 116, 1642-1650.	3.9	632
2	Granulocytes govern the transcriptional response, morphology and proliferation of <i>Candida albicans</i> in human blood. <i>Molecular Microbiology</i> , 2005, 56, 397-415.	1.2	414
3	NRG1 represses yeast-hypha morphogenesis and hypha-specific gene expression in <i>Candida albicans</i> . <i>EMBO Journal</i> , 2001, 20, 4742-4752.	3.5	394
4	Niche-specific regulation of central metabolic pathways in a fungal pathogen. <i>Cellular Microbiology</i> , 2006, 8, 961-971.	1.1	322
5	Host carbon sources modulate cell wall architecture, drug resistance and virulence in a fungal pathogen. <i>Cellular Microbiology</i> , 2012, 14, 1319-1335.	1.1	274
6	Ectopic Expression of URA3 Can Influence the Virulence Phenotypes and Proteome of <i>Candida albicans</i> but Can Be Overcome by Targeted Reintegration of URA3 at the RPS10 Locus. <i>Eukaryotic Cell</i> , 2004, 3, 900-909.	3.4	254
7	Glycosylphosphatidylinositol-anchored Proteases of <i>Candida albicans</i> Target Proteins Necessary for Both Cellular Processes and Host-Pathogen Interactions. <i>Journal of Biological Chemistry</i> , 2006, 281, 688-694.	1.6	222
8	Fungal Chitin Dampens Inflammation through IL-10 Induction Mediated by NOD2 and TLR9 Activation. <i>PLoS Pathogens</i> , 2014, 10, e1004050.	2.1	215
9	Outer Chain N-Glycans Are Required for Cell Wall Integrity and Virulence of <i>Candida albicans</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 90-98.	1.6	214
10	Lactate signalling regulates fungal $\beta$ -glucan masking and immune evasion. <i>Nature Microbiology</i> , 2017, 2, 16238.	5.9	197
11	Elevated Cell Wall Chitin in <i>Candida albicans</i> Confers Echinocandin Resistance <i>In Vivo</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 208-217.	1.4	181
12	Differential Adaptation of <i>Candida albicans</i> <i>In Vivo</i> Modulates Immune Recognition by Dectin-1. <i>PLoS Pathogens</i> , 2013, 9, e1003315.	2.1	181
13	Mnt1p and Mnt2p of <i>Candida albicans</i> Are Partially Redundant $\alpha$ -1,2-Mannosyltransferases That Participate in O-Linked Mannosylation and Are Required for Adhesion and Virulence. <i>Journal of Biological Chemistry</i> , 2005, 280, 1051-1060.	1.6	173
14	<i>Candida albicans</i> Pmr1p, a Secretory Pathway P-type $\text{Ca}^{2+}/\text{Mn}^{2+}$ -ATPase, Is Required for Glycosylation and Virulence. <i>Journal of Biological Chemistry</i> , 2005, 280, 23408-23415.	1.6	167
15	The <i>Candida albicans</i> CaACE2 gene affects morphogenesis, adherence and virulence. <i>Molecular Microbiology</i> , 2004, 53, 969-983.	1.2	166
16	Adaptation of <i>Candida albicans</i> to environmental pH induces cell wall remodelling and enhances innate immune recognition. <i>PLoS Pathogens</i> , 2017, 13, e1006403.	2.1	141
17	Temporal events in the intravenous challenge model for experimental <i>Candida albicans</i> infections in female mice. <i>Mycoses</i> , 2005, 48, 151-161.	1.8	138
18	Property Differences among the Four Major <i>Candida albicans</i> Strain Clades. <i>Eukaryotic Cell</i> , 2009, 8, 373-387.	3.4	138

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19	The <i>Cryptococcus neoformans</i> Titan cell is an inducible and regulated morphotype underlying pathogenesis. <i>PLoS Pathogens</i> , 2018, 14, e1006978.	2.1	137
20	Niche-Specific Activation of the Oxidative Stress Response by the Pathogenic Fungus <i>Candida albicans</i> . <i>Infection and Immunity</i> , 2007, 75, 2143-2151.	1.0	125
21	Loss of Cell Wall Mannosylphosphate in <i>Candida albicans</i> Does Not Influence Macrophage Recognition. <i>Journal of Biological Chemistry</i> , 2004, 279, 39628-39635.	1.6	123
22	GFP as a quantitative reporter of gene regulation in <i>Candida albicans</i> . <i>Yeast</i> , 2004, 21, 333-340.	0.8	113
23	CO <sub>2</sub> Acts as a Signalling Molecule in Populations of the Fungal Pathogen <i>Candida albicans</i> . <i>PLoS Pathogens</i> , 2010, 6, e1001193.	2.1	104
24	The Mnn2 Mannosyltransferase Family Modulates Mannoprotein Fibril Length, Immune Recognition and Virulence of <i>Candida albicans</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003276.	2.1	102
25	Genetic Dissection of Azole Resistance Mechanisms in <i>Candida albicans</i> and Their Validation in a Mouse Model of Disseminated Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 1476-1483.	1.4	96
26	Thioredoxin Regulates Multiple Hydrogen Peroxide-Induced Signaling Pathways in <i>Candida albicans</i> . <i>Molecular and Cellular Biology</i> , 2010, 30, 4550-4563.	1.1	93
27	Activation of the heat shock transcription factor Hsf1 is essential for the full virulence of the fungal pathogen <i>Candida albicans</i> . <i>Fungal Genetics and Biology</i> , 2011, 48, 297-305.	0.9	89
28	Genome-wide analysis of <i>Candida albicans</i> gene expression patterns during infection of the mammalian kidney. <i>Fungal Genetics and Biology</i> , 2009, 46, 210-219.	0.9	87
29	C-type lectin receptors and cytokines in fungal immunity. <i>Cytokine</i> , 2012, 58, 89-99.	1.4	87
30	<i>Candida albicans</i> Chitin Increases Arginase-1 Activity in Human Macrophages, with an Impact on Macrophage Antimicrobial Functions. <i>MBio</i> , 2017, 8, .	1.8	87
31	Peroxisomal Fatty Acid $\beta$ -Oxidation Is Not Essential for Virulence of <i>Candida albicans</i> . <i>Eukaryotic Cell</i> , 2006, 5, 1847-1856.	3.4	85
32	Comparative Transcript Profiling of <i>Candida albicans</i> and <i>Candida dubliniensis</i> Identifies <i>SFL2</i> , a <i>C. albicans</i> Gene Required for Virulence in a Reconstituted Epithelial Infection Model. <i>Eukaryotic Cell</i> , 2010, 9, 251-265.	3.4	78
33	Hosting Infection: Experimental Models to Assay <i>Candida</i> Virulence. <i>International Journal of Microbiology</i> , 2012, 2012, 1-12.	0.9	76
34	The Rewiring of Ubiquitination Targets in a Pathogenic Yeast Promotes Metabolic Flexibility, Host Colonization and Virulence. <i>PLoS Pathogens</i> , 2016, 12, e1005566.	2.1	74
35	<i>Candida albicans</i> colonization and dissemination from the murine gastrointestinal tract: the influence of morphology and Th17 immunity. <i>Cellular Microbiology</i> , 2015, 17, 445-450.	1.1	66
36	Efficacy of Caspofungin and Voriconazole Combinations in Experimental Aspergillosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 3697-3701.	1.4	65

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37	Ybp1 and Gpx3 Signaling in <i>Candida albicans</i> Govern Hydrogen Peroxide-Induced Oxidation of the Cap1 Transcription Factor and Macrophage Escape. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 2244-2260.	2.5	65
38	Early-Expressed Chemokines Predict Kidney Immunopathology in Experimental Disseminated <i>Candida albicans</i> Infections. <i>PLoS ONE</i> , 2009, 4, e6420.	1.1	64
39	Host-Imposed Copper Poisoning Impacts Fungal Micronutrient Acquisition during Systemic <i>Candida albicans</i> Infections. <i>PLoS ONE</i> , 2016, 11, e0158683.	1.1	64
40	Molecular and proteomic analyses highlight the importance of ubiquitination for the stress resistance, metabolic adaptation, morphogenetic regulation and virulence of <i>Candida albicans</i> . <i>Molecular Microbiology</i> , 2011, 79, 1574-1593.	1.2	59
41	Single human B cell-derived monoclonal anti- <i>Candida</i> antibodies enhance phagocytosis and protect against disseminated candidiasis. <i>Nature Communications</i> , 2018, 9, 5288.	5.8	56
42	Expansion of Foxp3 <sup>+</sup> T <sub>H</sub> 17 cell populations by <i>Candida albicans</i> enhances both Th17 cell responses and fungal dissemination after intravenous challenge. <i>European Journal of Immunology</i> , 2014, 44, 1069-1083.	1.6	55
43	Functional specialization and differential regulation of short-chain carboxylic acid transporters in the pathogen <i>Candida albicans</i> . <i>Molecular Microbiology</i> , 2010, 75, 1337-1354.	1.2	54
44	Dectin-1 Is Not Required for Controlling <i>Candida albicans</i> Colonization of the Gastrointestinal Tract. <i>Infection and Immunity</i> , 2012, 80, 4216-4222.	1.0	54
45	Inhibition of Classical and Alternative Modes of Respiration in <i>Candida albicans</i> Leads to Cell Wall Remodeling and Increased Macrophage Recognition. <i>MBio</i> , 2019, 10, .	1.8	53
46	Differential regulation of the transcriptional repressor NRG1 accounts for altered host-cell interactions in <i>Candida albicans</i> and <i>Candida dubliniensis</i> . <i>Molecular Microbiology</i> , 2007, 66, 915-929.	1.2	50
47	Massive induction of innate immune response to <i>Candida albicans</i> in the kidney in a murine intravenous challenge model. <i>FEMS Yeast Research</i> , 2009, 9, 1111-1122.	1.1	49
48	The contribution of mouse models to our understanding of systemic candidiasis. <i>FEMS Microbiology Letters</i> , 2011, 320, 1-8.	0.7	49
49	Fungal Iron Availability during Deep Seated Candidiasis Is Defined by a Complex Interplay Involving Systemic and Local Events. <i>PLoS Pathogens</i> , 2013, 9, e1003676.	2.1	48
50	MAPKKK-independent Regulation of the Hog1 Stress-activated Protein Kinase in <i>Candida albicans</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 42002-42016.	1.6	46
51	Pho4 mediates phosphate acquisition in <i>Candida albicans</i> and is vital for stress resistance and metal homeostasis. <i>Molecular Biology of the Cell</i> , 2016, 27, 2784-2801.	0.9	46
52	<i>Candida albicans</i> Iff11, a Secreted Protein Required for Cell Wall Structure and Virulence. <i>Infection and Immunity</i> , 2007, 75, 2922-2928.	1.0	45
53	Wild-type <i>Drosophila melanogaster</i> as an alternative model system for investigating the pathogenicity of <i>Candida albicans</i> . <i>DMM Disease Models and Mechanisms</i> , 2011, 4, 504-514.	1.2	45
54	Elevated catalase expression in a fungal pathogen is a double-edged sword of iron. <i>PLoS Pathogens</i> , 2017, 13, e1006405.	2.1	43

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55	Different Consequences of ACE2 and SWI5 Gene Disruptions for Virulence of Pathogenic and Nonpathogenic Yeasts. <i>Infection and Immunity</i> , 2006, 74, 5244-5248.	1.0	42
56	<i>Candida albicans</i> GRX2, encoding a putative glutaredoxin, is required for virulence in a murine model. <i>Genetics and Molecular Research</i> , 2007, 6, 1051-63.	0.3	41
57	Carnitine-Dependent Transport of Acetyl Coenzyme A in <i>Candida albicans</i> Is Essential for Growth on Nonfermentable Carbon Sources and Contributes to Biofilm Formation. <i>Eukaryotic Cell</i> , 2008, 7, 610-618.	3.4	40
58	An ex vivo Human Skin Model to Study Superficial Fungal Infections. <i>Frontiers in Microbiology</i> , 2019, 10, 1172.	1.5	40
59	Functional analysis of the phospholipase C gene CaPLC1 and two unusual phospholipase C genes, CaPLC2 and CaPLC3, of <i>Candida albicans</i> . <i>Microbiology (United Kingdom)</i> , 2005, 151, 3381-3394.	0.7	39
60	Genome-wide gene expression profiling and a forward genetic screen show that differential expression of the sodium ion transporter <i>Ena21</i> contributes to the differential tolerance of <i>Candida albicans</i> and <i>Candida dubliniensis</i> to osmotic stress. <i>Molecular Microbiology</i> , 2009, 72, 216-228.	1.2	37
61	Contribution of <i>Fdh3</i> and <i>Glr1</i> to Glutathione Redox State, Stress Adaptation and Virulence in <i>Candida albicans</i> . <i>PLoS ONE</i> , 2015, 10, e0126940.	1.1	35
62	Echinocandin resistance due to simultaneous FKS mutation and increased cell wall chitin in a <i>Candida albicans</i> bloodstream isolate following brief exposure to caspofungin. <i>Journal of Medical Microbiology</i> , 2012, 61, 1330-1334.	0.7	34
63	Need for Early Antifungal Treatment Confirmed in Experimental Disseminated <i>Candida albicans</i> Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 4911-4914.	1.4	29
64	General hospital outbreak of invasive candidiasis due to azole-resistant <i>Candida parapsilosis</i> associated with an <i>Erg11</i> Y132F mutation. <i>Medical Mycology</i> , 2021, 59, 664-671.	0.3	29
65	Blocking two-component signalling enhances <i>Candida albicans</i> virulence and reveals adaptive mechanisms that counteract sustained SAPK activation. <i>PLoS Pathogens</i> , 2017, 13, e1006131.	2.1	28
66	The environmental stress sensitivities of pathogenic <i>Candida</i> species, including <i>Candida auris</i> , and implications for their spread in the hospital setting. <i>Medical Mycology</i> , 2020, 58, 744-755.	0.3	27
67	Enhanced efficacy of synergistic combinations of antimicrobial peptides with caspofungin versus <i>Candida albicans</i> in insect and murine models of systemic infection. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2013, 32, 1055-1062.	1.3	25
68	Role of the <i>Candida albicans</i> <i>MNN1</i> gene family in cell wall structure and virulence. <i>BMC Research Notes</i> , 2013, 6, 294.	0.6	23
69	Cytokine Measurement Using Cytometric Bead Arrays. <i>Methods in Molecular Biology</i> , 2012, 845, 425-434.	0.4	21
70	Influence of grapefruit juice on itraconazole plasma levels in mice and guinea pigs. <i>Journal of Antimicrobial Chemotherapy</i> , 2002, 50, 219-224.	1.3	20
71	Multicenter Collaborative Study for Standardization of <i>Candida albicans</i> Genotyping Using a Polymorphic Microsatellite Marker. <i>Journal of Clinical Microbiology</i> , 2010, 48, 2578-2581.	1.8	19
72	Stress-induced nuclear accumulation is dispensable for <i>Hog1</i> -dependent gene expression and virulence in a fungal pathogen. <i>Scientific Reports</i> , 2017, 7, 14340.	1.6	17

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73	Candida Infections and Modelling Disease. , 2010, , 41-67.		17
74	Amplification of TLO Mediator Subunit Genes Facilitate Filamentous Growth in Candida Spp.. PLoS Genetics, 2016, 12, e1006373.	1.5	16
75	Three Related Enzymes in Candida albicans Achieve Arginine- and Agmatine-Dependent Metabolism That Is Essential for Growth and Fungal Virulence. MBio, 2020, 11, .	1.8	15
76	Multiple functions of DOA1 in Candida albicans. Microbiology (United Kingdom), 2007, 153, 1026-1041.	0.7	15
77	Differential Regulation of Kidney and Spleen Cytokine Responses in Mice Challenged with Pathology-Standardized Doses of <i>Candida albicans</i> Mannosylation Mutants. Infection and Immunity, 2011, 79, 146-152.	1.0	14
78	Murine Model for Fusarium oxysporum Invasive Fusariosis Reveals Organ-Specific Structures for Dissemination and Long-Term Persistence. PLoS ONE, 2014, 9, e89920.	1.1	14
79	Mouse Model of Invasive Fungal Infection. Methods in Molecular Biology, 2013, 1031, 145-153.	0.4	11
80	Identification of a Novel Response Regulator, Crr1, That Is Required for Hydrogen Peroxide Resistance in Candida albicans. PLoS ONE, 2011, 6, e27979.	1.1	9
81	A Bright Future for Fluorescence Imaging of Fungi in Living Hosts. Journal of Fungi (Basel,) Tj ETQq1 1 0.784314 rgBT/Overlogk 10 Tf	1.5	8
82	Host Responses in an Ex Vivo Human Skin Model Challenged With Malassezia sympodialis. Frontiers in Cellular and Infection Microbiology, 2020, 10, 561382.	1.8	8
83	Efficacy of parenteral itraconazole against disseminated Candida albicans infection in two mouse strains. Journal of Antimicrobial Chemotherapy, 2002, 50, 225-229.	1.3	6
84	The Candida albicans pH-regulated KER1 gene encodes a lysine/glutamic-acid-rich plasma-membrane protein that is involved in cell aggregation. Microbiology (United Kingdom), 2004, 150, 2641-2651.	0.7	6
85	Mouse Intravenous Challenge Models and Applications. Methods in Molecular Biology, 2012, 845, 499-509.	0.4	6
86	A novel renal epithelial cell in vitro assay to assess <i>Candida albicans</i> virulence. Virulence, 2014, 5, 286-296.	1.8	5
87	Safety aspects of working with <i>Candida albicans</i> -infected mice. Medical Mycology, 2004, 42, 305-309.	0.3	4
88	Monoclonal Antibodies Targeting Surface-Exposed Epitopes of Candida albicans Cell Wall Proteins Confer <i>In Vivo</i> Protection in an Infection Model. Antimicrobial Agents and Chemotherapy, 2022, 66, e0195721.	1.4	4
89	Blocking Polyphosphate Mobilization Inhibits Pho4 Activation and Virulence in the Pathogen Candida albicans. MBio, 2022, 13, e0034222.	1.8	2
90	Mouse Gastrointestinal Colonization Model for Candida auris. Methods in Molecular Biology, 2022, , 329-340.	0.4	2

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91	Molecular and proteomic analyses highlight the importance of ubiquitination for the stress resistance, metabolic adaptation, morphogenetic regulation and virulence of <i>Candida albicans</i> . Molecular Microbiology, 2012, 84, 594-594.	1.2	1
92	Utility of Multi Locus Sequence Typing (MLST) in the Investigation of a Cluster of <i>Candida albicans</i> Infection in Recipients of Solid Organs from a Common Donor. Transplantation, 2018, 102, S99.	0.5	0
93	206.3: Utility of multilocus sequence typing (MLST) in the investigation of a cluster of <i>Candida albicans</i> infection in recipients of solid organs from a common donor.. Transplantation, 2019, 103, S24-S25.	0.5	0
94	<i>Candida Albicans</i> : New Insights in Infection, Disease, and Treatment. , 2007, , 99-129.		0
95	Virulence traits and differential translocation of gut-derived <i>Candida albicans</i> . Access Microbiology, 2022, 4, .	0.2	0