

# Donna M Maccallum

## List of Publications by Year in descending order

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95  
papers

7,771  
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47006

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53230

85  
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101  
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101  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Monoclonal Antibodies Targeting Surface-Exposed Epitopes of <i>Candida albicans</i> Cell Wall Proteins Confer <i>In Vivo</i> Protection in an Infection Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, e0195721.	3.2	4
2	Blocking Polyphosphate Mobilization Inhibits Pho4 Activation and Virulence in the Pathogen <i>Candida albicans</i> . <i>MBio</i> , 2022, 13, e0034222.	4.1	2
3	Mouse Gastrointestinal Colonization Model for <i>Candida auris</i> . <i>Methods in Molecular Biology</i> , 2022, , 329-340.	0.9	2
4	Virulence traits and differential translocation of gut-derived <i>Candida albicans</i> . <i>Access Microbiology</i> , 2022, 4, .	0.5	0
5	General hospital outbreak of invasive candidiasis due to azole-resistant <i>Candida parapsilosis</i> associated with an Erg11 Y132F mutation. <i>Medical Mycology</i> , 2021, 59, 664-671.	0.7	29
6	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.	0.7	27
7	Three Related Enzymes in <i>Candida albicans</i> Achieve Arginine- and Agmatine-Dependent Metabolism That Is Essential for Growth and Fungal Virulence. <i>MBio</i> , 2020, 11, .	4.1	15
8	Host Responses in an Ex Vivo Human Skin Model Challenged With <i>Malassezia sympodialis</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 561382.	3.9	8
9	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, .	4.1	53
10	An ex vivo Human Skin Model to Study Superficial Fungal Infections. <i>Frontiers in Microbiology</i> , 2019, 10, 1172.	3.5	40
11	A Bright Future for Fluorescence Imaging of Fungi in Living Hosts. <i>Journal of Fungi (Basel)</i> , Tj ETQq1 1 0.784314 rgBT/Overlogk 10 Tf 50	3.5	50
12	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.. <i>Transplantation</i> , 2019, 103, S24-S25.	1.0	0
13	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. <i>Transplantation</i> , 2018, 102, S99.	1.0	0
14	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.	12.8	56
15	The <i>Cryptococcus neoformans</i> Titan cell is an inducible and regulated morphotype underlying pathogenesis. <i>PLoS Pathogens</i> , 2018, 14, e1006978.	4.7	137
16	<i>Candida albicans</i> Chitin Increases Arginase-1 Activity in Human Macrophages, with an Impact on Macrophage Antimicrobial Functions. <i>MBio</i> , 2017, 8, .	4.1	87
17	Lactate signalling regulates fungal $\beta$ -glucan masking and immune evasion. <i>Nature Microbiology</i> , 2017, 2, 16238.	13.3	197
18	Stress-induced nuclear accumulation is dispensable for Hog1-dependent gene expression and virulence in a fungal pathogen. <i>Scientific Reports</i> , 2017, 7, 14340.	3.3	17

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19	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.	4.7	28
20	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.	4.7	141
21	Elevated catalase expression in a fungal pathogen is a double-edged sword of iron. <i>PLoS Pathogens</i> , 2017, 13, e1006405.	4.7	43
22	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.	2.1	46
23	Amplification of TLO Mediator Subunit Genes Facilitate Filamentous Growth in <i>Candida</i> Spp.. <i>PLoS Genetics</i> , 2016, 12, e1006373.	3.5	16
24	Host-Imposed Copper Poisoning Impacts Fungal Micronutrient Acquisition during Systemic <i>Candida albicans</i> Infections. <i>PLoS ONE</i> , 2016, 11, e0158683.	2.5	64
25	The Rewiring of Ubiquitination Targets in a Pathogenic Yeast Promotes Metabolic Flexibility, Host Colonization and Virulence. <i>PLoS Pathogens</i> , 2016, 12, e1005566.	4.7	74
26	Contribution of Fdh3 and Glr1 to Glutathione Redox State, Stress Adaptation and Virulence in <i>Candida albicans</i> . <i>PLoS ONE</i> , 2015, 10, e0126940.	2.5	35
27	<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.	2.1	66
28	Murine Model for <i>Fusarium oxysporum</i> Invasive Fusariosis Reveals Organ-Specific Structures for Dissemination and Long-Term Persistence. <i>PLoS ONE</i> , 2014, 9, e89920.	2.5	14
29	Fungal Chitin Dampens Inflammation through IL-10 Induction Mediated by NOD2 and TLR9 Activation. <i>PLoS Pathogens</i> , 2014, 10, e1004050.	4.7	215
30	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.	2.9	55
31	A novel renal epithelial cell in vitro assay to assess <i>Candida albicans</i> virulence. <i>Virulence</i> , 2014, 5, 286-296.	4.4	5
32	Role of the <i>Candida albicans</i> MNN1 gene family in cell wall structure and virulence. <i>BMC Research Notes</i> , 2013, 6, 294.	1.4	23
33	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.	5.4	65
34	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.	2.9	25
35	Mouse Model of Invasive Fungal Infection. <i>Methods in Molecular Biology</i> , 2013, 1031, 145-153.	0.9	11
36	Differential Adaptation of <i>Candida albicans</i> In Vivo Modulates Immune Recognition by Dectin-1. <i>PLoS Pathogens</i> , 2013, 9, e1003315.	4.7	181

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37	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.	4.7	48
38	The Mnn2 Mannosyltransferase Family Modulates Mannoprotein Fibril Length, Immune Recognition and Virulence of <i>Candida albicans</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003276.	4.7	102
39	Hosting Infection: Experimental Models to Assay <i>Candida</i> Virulence. <i>International Journal of Microbiology</i> , 2012, 2012, 1-12.	2.3	76
40	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.	3.2	181
41	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.	1.8	34
42	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.	2.2	54
43	C-type lectin receptors and cytokines in fungal immunity. <i>Cytokine</i> , 2012, 58, 89-99.	3.2	87
44	Mouse Intravenous Challenge Models and Applications. <i>Methods in Molecular Biology</i> , 2012, 845, 499-509.	0.9	6
45	Cytokine Measurement Using Cytometric Bead Arrays. <i>Methods in Molecular Biology</i> , 2012, 845, 425-434.	0.9	21
46	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> , 2012, 84, 594-594.	2.5	1
47	Host carbon sources modulate cell wall architecture, drug resistance and virulence in a fungal pathogen. <i>Cellular Microbiology</i> , 2012, 14, 1319-1335.	2.1	274
48	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.	2.1	89
49	Identification of a Novel Response Regulator, Crr1, That Is Required for Hydrogen Peroxide Resistance in <i>Candida albicans</i> . <i>PLoS ONE</i> , 2011, 6, e27979.	2.5	9
50	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.	2.5	59
51	The contribution of mouse models to our understanding of systemic candidiasis. <i>FEMS Microbiology Letters</i> , 2011, 320, 1-8.	1.8	49
52	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.	2.4	45
53	Differential Regulation of Kidney and Spleen Cytokine Responses in Mice Challenged with Pathology-Standardized Doses of <i>Candida albicans</i> Mannosylation Mutants. <i>Infection and Immunity</i> , 2011, 79, 146-152.	2.2	14
54	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.	3.4	46

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55	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.	2.5	54
56	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
57	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.	3.9	19
58	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.	3.2	96
59	Thioredoxin Regulates Multiple Hydrogen Peroxide-Induced Signaling Pathways in <i>Candida albicans</i> . <i>Molecular and Cellular Biology</i> , 2010, 30, 4550-4563.	2.3	93
60	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.	4.7	104
61	<i>Candida</i> Infections and Modelling Disease. , 2010, , 41-67.		17
62	Property Differences among the Four Major <i>Candida albicans</i> Strain Clades. <i>Eukaryotic Cell</i> , 2009, 8, 373-387.	3.4	138
63	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.	2.5	37
64	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.	2.3	49
65	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.	2.1	87
66	Early-Expressed Chemokines Predict Kidney Immunopathology in Experimental Disseminated <i>Candida albicans</i> Infections. <i>PLoS ONE</i> , 2009, 4, e6420.	2.5	64
67	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
68	<i>Candida albicans</i> Iff11, a Secreted Protein Required for Cell Wall Structure and Virulence. <i>Infection and Immunity</i> , 2007, 75, 2922-2928.	2.2	45
69	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.	2.2	125
70	Differential regulation of the transcriptional repressor <i>NRG1</i> accounts for altered host-cell interactions in <i>Candida albicans</i> and <i>Candida dubliniensis</i> . <i>Molecular Microbiology</i> , 2007, 66, 915-929.	2.5	50
71	Multiple functions of <i>DOA1</i> in <i>Candida albicans</i> . <i>Microbiology (United Kingdom)</i> , 2007, 153, 1026-1041.	1.8	15
72	<i>Candida Albicans</i> : New Insights in Infection, Disease, and Treatment. , 2007, , 99-129.		0

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73	<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.	0.2	41
74	Niche-specific regulation of central metabolic pathways in a fungal pathogen. <i>Cellular Microbiology</i> , 2006, 8, 961-971.	2.1	322
75	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.	3.4	214
76	Different Consequences of ACE2 and SWI5 Gene Disruptions for Virulence of Pathogenic and Nonpathogenic Yeasts. <i>Infection and Immunity</i> , 2006, 74, 5244-5248.	2.2	42
77	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
78	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.	3.4	222
79	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.	8.2	632
80	Temporal events in the intravenous challenge model for experimental <i>Candida albicans</i> infections in female mice. <i>Mycoses</i> , 2005, 48, 151-161.	4.0	138
81	Granulocytes govern the transcriptional response, morphology and proliferation of <i>Candida albicans</i> in human blood. <i>Molecular Microbiology</i> , 2005, 56, 397-415.	2.5	414
82	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.	1.8	39
83	Efficacy of Caspofungin and Voriconazole Combinations in Experimental Aspergillosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 3697-3701.	3.2	65
84	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.	3.4	173
85	<i>Candida albicans</i> Pmr1p, a Secretory Pathway P-type Ca <sup>2+</sup> /Mn <sup>2+</sup> -ATPase, Is Required for Glycosylation and Virulence. <i>Journal of Biological Chemistry</i> , 2005, 280, 23408-23415.	3.4	167
86	Safety aspects of working with <i>Candida albicans</i> -infected mice. <i>Medical Mycology</i> , 2004, 42, 305-309.	0.7	4
87	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
88	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.	3.4	123
89	Need for Early Antifungal Treatment Confirmed in Experimental Disseminated <i>Candida albicans</i> Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 4911-4914.	3.2	29
90	The <i>Candida albicans</i> pH-regulated KER1 gene encodes a lysine/glutamic-acid-rich plasma-membrane protein that is involved in cell aggregation. <i>Microbiology (United Kingdom)</i> , 2004, 150, 2641-2651.	1.8	6

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91	The Candida albicans CaACE2 gene affects morphogenesis, adherence and virulence. Molecular Microbiology, 2004, 53, 969-983.	2.5	166
92	GFP as a quantitative reporter of gene regulation in Candida albicans. Yeast, 2004, 21, 333-340.	1.7	113
93	Efficacy of parenteral itraconazole against disseminated Candida albicans infection in two mouse strains. Journal of Antimicrobial Chemotherapy, 2002, 50, 225-229.	3.0	6
94	Influence of grapefruit juice on itraconazole plasma levels in mice and guinea pigs. Journal of Antimicrobial Chemotherapy, 2002, 50, 219-224.	3.0	20
95	NRG1 represses yeast-hypha morphogenesis and hypha-specific gene expression in Candida albicans. EMBO Journal, 2001, 20, 4742-4752.	7.8	394