

Robin C May

List of Publications by Year in descending order

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112
papers

7,636
citations

53751

45
h-index

58549

82
g-index

159
all docs

159
docs citations

159
times ranked

7664
citing authors

#	ARTICLE	IF	CITATIONS
1	Scar, a WASp-related protein, activates nucleation of actin filaments by the Arp2/3 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 3739-3744.	3.3	695
2	<i>Cryptococcus</i> : from environmental saprophyte to global pathogen. <i>Nature Reviews Microbiology</i> , 2016, 14, 106-117.	13.6	387
3	Emergence and Pathogenicity of Highly Virulent <i>Cryptococcus gattii</i> Genotypes in the Northwest United States. <i>PLoS Pathogens</i> , 2010, 6, e1000850.	2.1	303
4	Involvement of the Arp2/3 complex in phagocytosis mediated by Fc γ R or CR3. <i>Nature Cell Biology</i> , 2000, 2, 246-248.	4.6	296
5	Expulsion of Live Pathogenic Yeast by Macrophages. <i>Current Biology</i> , 2006, 16, 2156-2160.	1.8	278
6	The Case for Adopting the "Species Complex" Nomenclature for the Etiologic Agents of Cryptococcosis. <i>MSphere</i> , 2017, 2, .	1.3	274
7	Rho-Kinase and Myosin-II Control Phagocytic Cup Formation during CR, but Not Fc γ R, Phagocytosis. <i>Current Biology</i> , 2002, 12, 1413-1418.	1.8	230
8	The fatal fungal outbreak on Vancouver Island is characterized by enhanced intracellular parasitism driven by mitochondrial regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12980-12985.	3.3	180
9	<i>Cryptococcal</i> Interactions with the Host Immune System. <i>Eukaryotic Cell</i> , 2010, 9, 835-846.	3.4	167
10	The Arp2/3 complex is essential for the actin-based motility of <i>Listeria monocytogenes</i> . <i>Current Biology</i> , 1999, 9, 759-762.	1.8	164
11	<i>Caenorhabditis elegans</i> , a Model Organism for Investigating Immunity. <i>Applied and Environmental Microbiology</i> , 2012, 78, 2075-2081.	1.4	158
12	Genes Required for Systemic RNA Interference in <i>Caenorhabditis elegans</i> . <i>Current Biology</i> , 2004, 14, 111-116.	1.8	154
13	Cytokine Signaling Regulates the Outcome of Intracellular Macrophage Parasitism by <i>Cryptococcus neoformans</i> . <i>Infection and Immunity</i> , 2009, 77, 3450-3457.	1.0	146
14	Actin polymerization driven by WASH causes V-ATPase retrieval and vesicle neutralization before exocytosis. <i>Journal of Cell Biology</i> , 2011, 193, 831-839.	2.3	144
15	<i>Cryptococcus neoformans</i> Intracellular Proliferation and Capsule Size Determines Early Macrophage Control of Infection. <i>Scientific Reports</i> , 2016, 6, 21489.	1.6	139
16	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
17	<i>Cryptococcus</i> interactions with macrophages: evasion and manipulation of the phagosome by a fungal pathogen. <i>Cellular Microbiology</i> , 2013, 15, 403-411.	1.1	131
18	Gene flow contributes to diversification of the major fungal pathogen <i>Candida albicans</i> . <i>Nature Communications</i> , 2018, 9, 2253.	5.8	131

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19	Efficient phagocytosis and laccase activity affect the outcome of HIV-associated cryptococcosis. <i>Journal of Clinical Investigation</i> , 2014, 124, 2000-2008.	3.9	130
20	Pathogen-derived extracellular vesicles mediate virulence in the fatal human pathogen <i>Cryptococcus gattii</i> . <i>Nature Communications</i> , 2018, 9, 1556.	5.8	128
21	The Human Fungal Pathogen <i>Cryptococcus neoformans</i> Escapes Macrophages by a Phagosome Emptying Mechanism That Is Inhibited by Arp2/3 Complex-Mediated Actin Polymerisation. <i>PLoS Pathogens</i> , 2010, 6, e1001041.	2.1	127
22	<i>Cryptococcus gattii</i> in North American Pacific Northwest: Whole-Population Genome Analysis Provides Insights into Species Evolution and Dispersal. <i>MBio</i> , 2014, 5, e01464-14.	1.8	126
23	Ancient Dispersal of the Human Fungal Pathogen <i>Cryptococcus gattii</i> from the Amazon Rainforest. <i>PLoS ONE</i> , 2013, 8, e71148.	1.1	122
24	Genome Evolution and Innovation across the Four Major Lineages of <i>Cryptococcus gattii</i> . <i>MBio</i> , 2015, 6, e00868-15.	1.8	101
25	A Diverse Population of <i>Cryptococcus gattii</i> Molecular Type VGIII in Southern Californian HIV/AIDS Patients. <i>PLoS Pathogens</i> , 2011, 7, e1002205.	2.1	95
26	Genotypic Diversity Is Associated with Clinical Outcome and Phenotype in Cryptococcal Meningitis across Southern Africa. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003847.	1.3	94
27	Chapter 5 Virulence in <i>Cryptococcus</i> Species. <i>Advances in Applied Microbiology</i> , 2009, 67, 131-190.	1.3	88
28	The fungal pathogen <i>Cryptococcus neoformans</i> manipulates macrophage phagosome maturation. <i>Cellular Microbiology</i> , 2015, 17, 702-713.	1.1	88
29	SEC14 is a specific requirement for secretion of phospholipase B1 and pathogenicity of <i>Cryptococcus neoformans</i> . <i>Molecular Microbiology</i> , 2011, 80, 1088-1101.	1.2	87
30	<i>Cryptosporidium parvum</i> Infection Requires Host Cell Actin Polymerization. <i>Infection and Immunity</i> , 2001, 69, 5940-5942.	1.0	86
31	Direct cell-to-cell spread of a pathogenic yeast. <i>BMC Immunology</i> , 2007, 8, 15.	0.9	86
32	<i>Cryptococcus gattii</i> VGIII Isolates Causing Infections in HIV/AIDS Patients in Southern California: Identification of the Local Environmental Source as Arboreal. <i>PLoS Pathogens</i> , 2014, 10, e1004285.	2.1	85
33	Zebrafish: A See-Through Host and a Fluorescent Toolbox to Probe Host-Pathogen Interaction. <i>PLoS Pathogens</i> , 2012, 8, e1002349.	2.1	84
34	Division of labour in response to host oxidative burst drives a fatal <i>Cryptococcus gattii</i> outbreak. <i>Nature Communications</i> , 2014, 5, 5194.	5.8	82
35	SadA, a Trimeric Autotransporter from <i>Salmonella enterica</i> Serovar Typhimurium, Can Promote Biofilm Formation and Provides Limited Protection against Infection. <i>Infection and Immunity</i> , 2011, 79, 4342-4352.	1.0	79
36	Mechanisms of infection by the human fungal pathogen <i>Cryptococcus neoformans</i> . <i>Future Microbiology</i> , 2012, 7, 1297-1313.	1.0	76

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37	Laboratory adapted <i>Escherichia coli</i> K12 becomes a pathogen of <i>Caenorhabditis elegans</i> upon restoration of <i>O</i> antigen biosynthesis. <i>Molecular Microbiology</i> , 2013, 87, 939-950.	1.2	72
38	Fungal Pathogens: Survival and Replication within Macrophages. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a019661.	2.9	72
39	What makes <i>Cryptococcus gattii</i> a pathogen?. <i>FEMS Yeast Research</i> , 2016, 16, fov106.	1.1	69
40	The Arp2/3 complex: a central regulator of the actin cytoskeleton. <i>Cellular and Molecular Life Sciences</i> , 2001, 58, 1607-1626.	2.4	66
41	Mechanisms of microbial escape from phagocyte killing. <i>Biochemical Society Transactions</i> , 2013, 41, 475-490.	1.6	62
42	The CovS/CovR Acid Response Regulator Is Required for Intracellular Survival of Group B Streptococcus in Macrophages. <i>Infection and Immunity</i> , 2012, 80, 1650-1661.	1.0	59
43	Automated Analysis of Cryptococcal Macrophage Parasitism Using GFP-Tagged Cryptococci. <i>PLoS ONE</i> , 2010, 5, e15968.	1.1	58
44	Protist-Type Lysozymes of the Nematode <i>Caenorhabditis elegans</i> Contribute to Resistance against Pathogenic <i>Bacillus thuringiensis</i> . <i>PLoS ONE</i> , 2011, 6, e24619.	1.1	57
45	Gender, immunity and the regulation of longevity. <i>BioEssays</i> , 2007, 29, 795-802.	1.2	49
46	Extracellular vesicles of human pathogenic fungi. <i>Current Opinion in Microbiology</i> , 2019, 52, 90-99.	2.3	47
47	<i>Cryptococcus</i> extracellular vesicles properties and their use as vaccine platforms. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12129.	5.5	47
48	RNA Interference Spreading in <i>C. elegans</i> . <i>Methods in Enzymology</i> , 2005, 392, 308-315.	0.4	46
49	Transmission of Hypervirulence Traits via Sexual Reproduction within and between Lineages of the Human Fungal Pathogen <i>Cryptococcus gattii</i> . <i>PLoS Genetics</i> , 2013, 9, e1003771.	1.5	45
50	Cryptococcal Phospholipase B1 Is Required for Intracellular Proliferation and Control of Titan Cell Morphology during Macrophage Infection. <i>Infection and Immunity</i> , 2015, 83, 1296-1304.	1.0	45
51	Vomocytosis of live pathogens from macrophages is regulated by the atypical MAP kinase ERK5. <i>Science Advances</i> , 2017, 3, e1700898.	4.7	45
52	Mitochondria and the regulation of hypervirulence in the fatal fungal outbreak on Vancouver Island. <i>Virulence</i> , 2010, 1, 197-201.	1.8	41
53	<i>Cryptococcus neoformans</i> Thermotolerance to Avian Body Temperature Is Sufficient For Extracellular Growth But Not Intracellular Survival In Macrophages. <i>Scientific Reports</i> , 2016, 6, 20977.	1.6	39
54	Phenotypic Covariance of Longevity, Immunity and Stress Resistance in the <i>Caenorhabditis</i> Nematodes. <i>PLoS ONE</i> , 2010, 5, e9978.	1.1	36

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55	Characterizing the Mechanisms of Nonopsonic Uptake of Cryptococci by Macrophages. <i>Journal of Immunology</i> , 2018, 200, 3539-3546.	0.4	36
56	Hepatocytes Delete Regulatory T Cells by Enclysis, a CD4+ T Cell Engulfment Process. <i>Cell Reports</i> , 2019, 29, 1610-1620.e4.	2.9	36
57	Sex-Dependent Resistance to the Pathogenic Fungus <i>Cryptococcus neoformans</i> . <i>Genetics</i> , 2006, 173, 677-683.	1.2	35
58	Top-Down LESA Mass Spectrometry Protein Analysis of Gram-Positive and Gram-Negative Bacteria. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2066-2077.	1.2	32
59	Species-specific antifungal activity of blue light. <i>Scientific Reports</i> , 2017, 7, 4605.	1.6	32
60	A Two-Gene Balance Regulates <i>Salmonella</i> Typhimurium Tolerance in the Nematode <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2011, 6, e16839.	1.1	31
61	Microevolutionary traits and comparative population genomics of the emerging pathogenic fungus <i>Cryptococcus gattii</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20160021.	1.8	30
62	15-keto-prostaglandin E2 activates host peroxisome proliferator-activated receptor gamma (PPAR- γ) to promote <i>Cryptococcus neoformans</i> growth during infection. <i>PLoS Pathogens</i> , 2019, 15, e1007597.	2.1	30
63	New weapons in the <i>Cryptococcus</i> infection toolkit. <i>Current Opinion in Microbiology</i> , 2016, 34, 67-74.	2.3	29
64	Experimental Models of Cryptococcosis. <i>International Journal of Microbiology</i> , 2012, 2012, 1-10.	0.9	28
65	Viral infection triggers interferon-induced expulsion of live <i>Cryptococcus neoformans</i> by macrophages. <i>PLoS Pathogens</i> , 2020, 16, e1008240.	2.1	25
66	Now for something completely different: Prototheca, pathogenic algae. <i>PLoS Pathogens</i> , 2021, 17, e1009362.	2.1	25
67	Capsule Independent Uptake of the Fungal Pathogen <i>Cryptococcus neoformans</i> into Brain Microvascular Endothelial Cells. <i>PLoS ONE</i> , 2012, 7, e35455.	1.1	24
68	Vomocytosis: What we know so far. <i>Cellular Microbiology</i> , 2020, 22, e13145.	1.1	24
69	Zinc and Iron Homeostasis: Target-Based Drug Screening as New Route for Antifungal Drug Development. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 181.	1.8	23
70	Antifungal resistance: more research needed. <i>Lancet, The</i> , 2014, 384, 1427.	6.3	20
71	Novel cell-based in vitro screen to identify small-molecule inhibitors against intracellular replication of <i>Cryptococcus neoformans</i> in macrophages. <i>International Journal of Antimicrobial Agents</i> , 2016, 48, 69-77.	1.1	20
72	IgG1 Is Required for Optimal Protection after Immunization with the Purified Porin OmpD from <i>Salmonella</i> Typhimurium. <i>Journal of Immunology</i> , 2017, 199, 4103-4109.	0.4	20

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73	Systematic analysis of funding awarded for mycology research to institutions in the UK, 1997â€“2010. <i>BMJ Open</i> , 2014, 4, e004129.	0.8	19
74	Arps: Actin-Related Proteins. <i>Results and Problems in Cell Differentiation</i> , 2001, 32, 213-229.	0.2	18
75	Quantifying donor-to-donor variation in macrophage responses to the human fungal pathogen <i>Cryptococcus neoformans</i> . <i>PLoS ONE</i> , 2018, 13, e0194615.	1.1	17
76	A Glucuronoxylomannan Epitope Exhibits Serotype-Specific Accessibility and Redistributes towards the Capsule Surface during Titanization of the Fungal Pathogen <i>Cryptococcus neoformans</i> . <i>Infection and Immunity</i> , 2019, 87, .	1.0	16
77	Direct identification of bacterial and human proteins from infected wounds in living 3D skin models. <i>Scientific Reports</i> , 2020, 10, 11900.	1.6	15
78	Variability in innate host immune responses to cryptococcosis. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2018, 113, e180060.	0.8	14
79	Regulator of G-Protein Signalling-14 (RGS14) Regulates the Activation of β_2 Integrin during Phagocytosis. <i>PLoS ONE</i> , 2013, 8, e69163.	1.1	13
80	AIDS-Related Mycoses: Updated Progress and Future Priorities. <i>Trends in Microbiology</i> , 2020, 28, 425-428.	3.5	13
81	Transcriptional Heterogeneity of <i>Cryptococcus gattii</i> VGII Compared with Non-VGII Lineages Underpins Key Pathogenicity Pathways. <i>MSphere</i> , 2018, 3, .	1.3	12
82	In Fungal Intracellular Pathogenesis, Form Determines Fate. <i>MBio</i> , 2018, 9, .	1.8	12
83	Deciphering Fungal Extracellular Vesicles: From Cell Biology to Pathogenesis. <i>Current Clinical Microbiology Reports</i> , 2019, 6, 89-97.	1.8	12
84	Application of High-Field Asymmetric Waveform Ion Mobility Separation to LESA Mass Spectrometry of Bacteria. <i>Analytical Chemistry</i> , 2019, 91, 4755-4761.	3.2	12
85	<i>Cryptococcus neoformans</i> Secretes Small Molecules That Inhibit IL-1 β Inflammasome-Dependent Secretion. <i>Mediators of Inflammation</i> , 2020, 2020, 1-20.	1.4	12
86	Younger for Longer: Insulin Signalling, Immunity and Ageing. <i>Current Aging Science</i> , 2010, 3, 166-176.	0.4	12
87	pH Manipulation as a Novel Strategy for Treating Mucormycosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 6968-6974.	1.4	10
88	Cryptococcal 3-Hydroxy Fatty Acids Protect Cells Against Amoebal Phagocytosis. <i>Frontiers in Microbiology</i> , 2015, 6, 1351.	1.5	9
89	Electroporation and Mass Spectrometry: A New Paradigm for In Situ Analysis of Intact Proteins Direct from Living Yeast Colonies. <i>Analytical Chemistry</i> , 2020, 92, 2605-2611.	3.2	8
90	Liquid Extraction Surface Analysis Mass Spectrometry of ESKAPE Pathogens. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1345-1351.	1.2	8

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91	Plagiarism and Pathogenesis. <i>Developmental Cell</i> , 2001, 1, 317-318.	3.1	7
92	Human immune polymorphisms associated with the risk of cryptococcal disease. <i>Immunology</i> , 2022, 165, 143-157.	2.0	5
93	Pre-copulatory reproductive behaviours are preserved in <i>Drosophila melanogaster</i> infected with bacteria. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220492.	1.2	5
94	Custom-Made Quorum Sensing for a Eukaryote. <i>Developmental Cell</i> , 2016, 37, 391-392.	3.1	4
95	PyrifenoX, an ergosterol inhibitor, differentially affects <i>Cryptococcus neoformans</i> and <i>Cryptococcus gattii</i> . <i>Medical Mycology</i> , 2020, 58, 928-937.	0.3	4
96	Native ambient mass spectrometry of intact protein assemblies directly from <i>Escherichia coli</i> colonies. <i>Chemical Communications</i> , 2022, 58, 6857-6860.	2.2	4
97	Editorial overview: Host-microbe interactions: fungi. <i>Current Opinion in Microbiology</i> , 2017, 40, v-vii.	2.3	3
98	Plugging a Leak: How Phagosomes "Stretch" to Accommodate Pathogen Growth. <i>Cell Host and Microbe</i> , 2020, 28, 774-775.	5.1	2
99	Cytotoxic T lymphocytes can induce a condemned state and synchronous post-mitotic apoptosis of daughter target cells. <i>European Journal of Immunology</i> , 1999, 29, 1793-1802.	1.6	1
100	It takes (more than) two to tango. <i>Trends in Cell Biology</i> , 2000, 10, 464.	3.6	1
101	Fuel-injected cell motility. <i>Trends in Cell Biology</i> , 2001, 11, 281.	3.6	1
102	Using Flow Cytometry to Analyze <i>Cryptococcus</i> Infection of Macrophages. <i>Methods in Molecular Biology</i> , 2017, 1519, 349-357.	0.4	1
103	Intracellular Replication and Exit Strategies. , 0, , 441-450.		1
104	Fungal Extracellular Vesicles in Interkingdom Communication. <i>Current Topics in Microbiology and Immunology</i> , 2021, 432, 81-88.	0.7	1
105	Dimers are forever. <i>Trends in Cell Biology</i> , 1999, 9, 214.	3.6	0
106	The bugs that get away. <i>Trends in Cell Biology</i> , 1999, 9, 343.	3.6	0
107	It's not how old you are, but how old your T-cells feel. <i>Trends in Cell Biology</i> , 2000, 10, 313.	3.6	0
108	Two tales of tails. <i>Trends in Cell Biology</i> , 2001, 11, 401.	3.6	0

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109	Of Russian dolls and river blindness. Trends in Cell Biology, 2002, 12, 250.	3.6	0
110	Ready-mix protein cookery. Trends in Cell Biology, 2002, 12, 498.	3.6	0
111	Isolating Intact Pathogens from Tissues. Genetic Engineering and Biotechnology News, 2012, 32, 30-31.	0.1	0
112	Exploring New Insights into Fungal Biology as Novel Antifungal Drug Targets. , 2015, , 159-182.		0