Robert T Wheeler

List of Publications by Year
in descending order

48 papers	5,178 citations	147566 31 h-index	197535 49 g-index
53 all docs	53 docs citations	53 times ranked	7153 citing authors

#	Article	IF	Citations
1	Regulation of progenitor cell proliferation and granulocyte function by microRNA-223. Nature, 2008, 451, 1125-1129.	13.7	1,097
2	Candidalysin is a fungal peptide toxin critical for mucosal infection. Nature, 2016, 532, 64-68.	13.7	628
3	A Drug-Sensitive Genetic Network Masks Fungi from the Immune System. PLoS Pathogens, 2006, 2, e35.	2.1	313
4	Dynamic, Morphotype-Specific Candida albicans Î²-Glucan Exposure during Infection and Drug Treatment. PLoS Pathogens, 2008, 4, e1000227.	2.1	269
5	CX3CR1-dependent renal macrophage survival promotes Candida control and host survival. Journal of Clinical Investigation, 2013, 123, 5035-5051.	3.9	190
6	Differential Localization of Two Histidine Kinases Controlling Bacterial Cell Differentiation. Molecular Cell, 1999, 4, 683-694.	4.5	183
7	Differential Adaptation of Candida albicans In Vivo Modulates Immune Recognition by Dectin-1. PLoS Pathogens, 2013, 9, e1003315.	2.1	181
8	Glucose Homeostasis Is Important for Immune Cell Viability during Candida Challenge and Host Survival of Systemic Fungal Infection. Cell Metabolism, 2018, 27, 988-1006.e7.	7.2	162
9	Linking high-resolution metabolic flux phenotypes and transcriptional regulation in yeast modulated by the global regulator Gcn4p. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6477-6482.	3.3	154
10	Dynamic Fungal Cell Wall Architecture in Stress Adaptation and Immune Evasion. Trends in Microbiology, 2018, 26, 284-295.	3.5	130
11	Live Imaging of Disseminated Candidiasis in Zebrafish Reveals Role of Phagocyte Oxidase in Limiting Filamentous Growth. Eukaryotic Cell, 2011, 10, 932-944.	3.4	112
12	Neutrophil Attack Triggers Extracellular Trap-Dependent Candida Cell Wall Remodeling and Altered Immune Recognition. PLoS Pathogens, 2016, 12, e1005644.	2.1	108
13	Wastewater Surveillance for SARS-CoV-2 on College Campuses: Initial Efforts, Lessons Learned, and Research Needs. International Journal of Environmental Research and Public Health, 2021, 18, 4455.	1.2	107
14	Candidalysin activates innate epithelial immune responses via epidermal growth factor receptor. Nature Communications, 2019, 10, 2297.	5.8	104
15	A Saccharomyces cerevisiae mutant with increased virulence. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2766-2770.	3.3	100
16	NADPH Oxidase-Driven Phagocyte Recruitment Controls Candida albicans Filamentous Growth and Prevents Mortality. PLoS Pathogens, 2013, 9, e1003634.	2.1	89
17	Zebrafish: A See-Through Host and a Fluorescent Toolbox to Probe Hostâ€“Pathogen Interaction. PLoS Pathogens, 2012, 8, e1002349.	2.1	84
18	Candida albicans and Pseudomonas aeruginosa Interact To Enhance Virulence of Mucosal Infection in Transparent Zebrafish. Infection and Immunity, 2017, 85, .	1.0	79

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19	Microglia and amyloid precursor protein coordinate control of transient Candida cerebritis with memory deficits. Nature Communications, 2019, 10, 58.	5.8	78
20	Hsf1 and Hsp90 orchestrate temperature-dependent global transcriptional remodelling and chromatin architecture in Candida albicans. Nature Communications, 2016, 7, 11704.	5.8	77
21	Fungal Pathogens: Survival and Replication within Macrophages. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a019661.	2.9	72
22	Masking of Î²(1-3)-Glucan in the Cell Wall of Candida albicans from Detection by Innate Immune Cells Depends on Phosphatidylserine. Infection and Immunity, 2014, 82, 4405-4413.	1.0	65
23	Candida albicans Induces Arginine Biosynthetic Genes in Response to Host-Derived Reactive Oxygen Species. Eukaryotic Cell, 2013, 12, 91-100.	3.4	62
24	Mucosal candidiasis elicits NF-ÎºB activation, proinflammatory gene expression and localized neutrophilia in zebrafish. DMM Disease Models and Mechanisms, 2013, 6, 1260-70.	1.2	59
25	A zebrafish larval model reveals early tissue-specific innate immune responses to Mucor circinelloides. DMM Disease Models and Mechanisms, 2015, 8, 1375-88.	1.2	57
26	Studies Into Î²-Glucan Recognition in Fish Suggests a Key Role for the C-Type Lectin Pathway. Frontiers in Immunology, 2019, 10, 280.	2.2	56
27	The Zebrafish as a Model Host for Invasive Fungal Infections. Journal of Fungi (Basel, Switzerland), 2018, 4, 136.	1.5	47
28	Bacterial Chromosome Segregation: Is There a Mitotic Apparatus?. Cell, 1997, 88, 577-579.	13.5	45
29	Î²-(1,3)-Glucan Unmasking in Some Candida albicans Mutants Correlates with Increases in Cell Wall Surface Roughness and Decreases in Cell Wall Elasticity. Infection and Immunity, 2017, 85, .	1.0	44
30	Phenotypic Plasticity Regulates Candida albicans Interactions and Virulence in the Vertebrate Host. Frontiers in Microbiology, 2016, 7, 780.	1.5	36
31	Utilization of zebrafish for intravital study of eukaryotic pathogenâ€“host interactions. Developmental and Comparative Immunology, 2014, 46, 108-115.	1.0	35
32	The complex roles of NADPH oxidases in fungal infection. Cellular Microbiology, 2014, 16, 1156-1167.	1.1	34
33	Epitope unmasking in vulvovaginal candidiasis is associated with hyphal growth and neutrophilic infiltration. PLoS ONE, 2018, 13, e0201436.	1.1	32
34	It Takes Two to Tango: How a Dysregulation of the Innate Immunity, Coupled With Candida Virulence, Triggers VVC Onset. Frontiers in Microbiology, 2021, 12, 692491.	1.5	32
35	Passive sampling to scale wastewater surveillance of infectious disease: Lessons learned from COVID-19. Science of the Total Environment, 2022, 835, 155347.	3.9	31
36	Yeast and Filaments Have Specialized, Independent Activities in a Zebrafish Model of Candida albicans Infection. Infection and Immunity, 2018, 86, .	1.0	30

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37	Control of Mucosal Candidiasis in the Zebrafish Swim Bladder Depends on Neutrophils That Block Filament Invasion and Drive Extracellular-Trap Production. Infection and Immunity, 2017, 85, .	1.0	29
38	Non-invasive Imaging of Disseminated Candidiasis in Zebrafish Larvae. Journal of Visualized Experiments, 2012, , .	0.2	21
39	Intravital Imaging Reveals Divergent Cytokine and Cellular Immune Responses to Candida albicans and Candida parapsilosis. MBio, 2019, 10, .	1.8	17
40	Protein localization during the Caulobacter crescentus cell cycle. Current Opinion in Microbiology, 1998, 1, 636-642.	2.3	16
41	Modeling Mucosal Candidiasis in Larval Zebrafish by Swimbladder Injection. Journal of Visualized Experiments, 2014, , e52182.	0.2	14
42	Candida parapsilosis Protects Premature Intestinal Epithelial Cells from Invasion and Damage by Candida albicans. Frontiers in Pediatrics, 2017, 5, 54.	0.9	14
43	Redundant Trojan horse and endothelial-circulatory mechanisms for host-mediated spread of Candida albicans yeast. PLoS Pathogens, 2020, 16, e1008414.	2.1	13
44	Perinuclear Anti-Neutrophil Cytoplasmic Antibodies (pANCA) Impair Neutrophil Candidacidal Activity and Are Increased in the Cellular Fraction of Vaginal Samples from Women with Vulvovaginal Candidiasis. Journal of Fungi (Basel, Switzerland), 2020, 6, 225.	1.5	8
45	Polyclonal anti- Candida antibody improves phagocytosis and overall outcome in zebrafish model of disseminated candidiasis. Developmental and Comparative Immunology, 2017, 68, 69-78.	1.0	7
46	Pseudomonas Synergizes with Fluconazole against Candida during Treatment of Polymicrobial Infection. Infection and Immunity, 2022, 90, e0062621.	1.0	7
47	In vitro Detection of Neutrophil Traps and Post-attack Cell Wall Changes in Candida Hyphae. Bio-protocol, 2017, 7, .	0.2	6
48	Transcriptional analysis of the Caulobacter 4.5 S RNA ffs gene and the physiological basis of an ffs mutant with a ts phenotype. Journal of Molecular Biology, 1997, 272, 665-676.	2.0	5