Serge Mostowy

List of Publications by Year
in descending order

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100 papers	14,366 citations	61945 43 h-index	28275 105 g-index
168 all docs	168 docs citations	168 times ranked	26920 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
3	Septins: the fourth component of the cytoskeleton. Nature Reviews Molecular Cell Biology, 2012, 13, 183-194.	16.1	641
4	p62 and NDP52 Proteins Target Intracytosolic Shigella and Listeria to Different Autophagy Pathways. Journal of Biological Chemistry, 2011, 286, 26987-26995.	1.6	257
5	Genomic Deletions Suggest a Phylogeny for theMycobacterium tuberculosisComplex. Journal of Infectious Diseases, 2002, 186, 74-80.	1.9	229
6	Entrapment of Intracytosolic Bacteria by Septin Cage-like Structures. Cell Host and Microbe, 2010, 8, 433-444.	5.1	229
7	Selective autophagy degrades DICER and AGO2 and regulates miRNA activity. Nature Cell Biology, 2012, 14, 1314-1321.	4.6	225
8	PhoP: A Missing Piece in the Intricate Puzzle of Mycobacterium tuberculosis Virulence. PLoS ONE, 2008, 3, e3496.	1.1	195
9	NOD2-Deficient Mice Have Impaired Resistance to Mycobacterium tuberculosis Infection through Defective Innate and Adaptive Immunity. Journal of Immunology, 2008, 181, 7157-7165.	0.4	183
10	The Zebrafish as a New Model for the In Vivo Study of Shigella flexneri Interaction with Phagocytes and Bacterial Autophagy. PLoS Pathogens, 2013, 9, e1003588.	2.1	169
11	Phagocytosisâ€dependent activation of a <scp>TLR</scp>9â€“<scp>BTK</scp>â€“calcineurinâ€“<scp>NFAT</scp> pathway coâ€ordinates innate immunity to Aspergillus fumigatus. EMBO Molecular Medicine, 2015, 7, 240-258.	3.3	153
12	Recruitment of the Major Vault Protein by InlK: A Listeria monocytogenes Strategy to Avoid Autophagy. PLoS Pathogens, 2011, 7, e1002168.	2.1	148
13	The cytoskeleton in cell-autonomous immunity: structural determinants of host defence. Nature Reviews Immunology, 2015, 15, 559-573.	10.6	141
14	Zebrafish Infection: From Pathogenesis to Cell Biology. Trends in Cell Biology, 2018, 28, 143-156.	3.6	136
15	The Case for Modeling Human Infection in Zebrafish. Trends in Microbiology, 2020, 28, 10-18.	3.5	132
16	Injections of Predatory Bacteria Work Alongside Host Immune Cells to Treat Shigella Infection in Zebrafish Larvae. Current Biology, 2016, 26, 3343-3351.	1.8	131
17	Mechanical force induces mitochondrial fission. ELife, 2017, 6, .	2.8	125
18	Speciesâ€specific impact of the autophagy machinery on Chikungunya virus infection. EMBO Reports, 2013, 14, 534-544.	2.0	121

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19	Autophagy-Virus Interplay: From Cell Biology to Human Disease. Frontiers in Cell and Developmental Biology, 2018, 6, 155.	1.8	112
20	The in vitro evolution of BCG vaccines. Vaccine, 2003, 21, 4270-4274.	1.7	108
21	Septins 2, 7, and 9 and MAP4 co-localize along the axoneme in the primary cilium and control ciliary length. Journal of Cell Science, 2013, 126, 2583-94.	1.2	108
22	THE EVOLUTION OF TRADE-OFFS: TESTING PREDICTIONS ON RESPONSE TO SELECTION AND ENVIRONMENTAL VARIATION. Evolution; International Journal of Organic Evolution, 2002, 56, 84-95.	1.1	105
23	Genomic Analysis Distinguishes Mycobacterium africanum. Journal of Clinical Microbiology, 2004, 42, 3594-3599.	1.8	102
24	Revisiting the Evolution of Mycobacterium bovis. Journal of Bacteriology, 2005, 187, 6386-6395.	1.0	101
25	Mitochondria mediate septin cage assembly to promote autophagy of Shigella. EMBO Reports, 2016, 17, 1029-1043.	2.0	91
26	Genomic Interrogation of the Dassie Bacillus Reveals It as a Unique RD1 Mutant within the Mycobacterium tuberculosis Complex. Journal of Bacteriology, 2004, 186, 104-109.	1.0	90
27	Autoinducer-2 Triggers the Oxidative Stress Response in Mycobacterium avium , Leading to Biofilm Formation. Applied and Environmental Microbiology, 2008, 74, 1798-1804.	1.4	89
28	Autophagy and bacterial clearance: a not so clear picture. Cellular Microbiology, 2013, 15, 395-402.	1.1	89
29	Reduced expression of antigenic proteins MPB70 and MPB83 in Mycobacterium bovis BCG strains due to a start codon mutation in sigK. Molecular Microbiology, 2005, 56, 1302-1313.	1.2	82
30	Septins Regulate Bacterial Entry into Host Cells. PLoS ONE, 2009, 4, e4196.	1.1	81
31	A Role for Septins in the Interaction between the Listeria monocytogenes Invasion Protein InlB and the Met Receptor. Biophysical Journal, 2011, 100, 1949-1959.	0.2	81
32	Mycolactone activation of Wiskott-Aldrich syndrome proteins underpins Buruli ulcer formation. Journal of Clinical Investigation, 2013, 123, 1501-1512.	3.9	79
33	Mutations in Mycobacterium tuberculosis Rv0444c, the gene encoding anti-SigK, explain high level expression of MPB70 and MPB83 in Mycobacterium bovis. Molecular Microbiology, 2006, 62, 1251-1263.	1.2	78
34	Extensive Genomic Polymorphism within Mycobacterium avium. Journal of Bacteriology, 2004, 186, 6332-6334.	1.0	76
35	Bacterial autophagy: restriction or promotion of bacterial replication?. Trends in Cell Biology, 2012, 22, 283-291.	3.6	70
36	Possible role of L-form switching in recurrent urinary tract infection. Nature Communications, 2019, 10, 4379.	5.8	65

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37	Septins Recognize and Entrap Dividing Bacterial Cells for Delivery to Lysosomes. Cell Host and Microbe, 2018, 24, 866-874.e4.	5.1	62
38	Cyclic-di-GMP regulates lipopolysaccharide modification and contributes to Pseudomonas aeruginosa immune evasion. Nature Microbiology, 2017, 2, 17027.	5.9	61
39	A membrane-depolarizing toxin substrate of the Staphylococcus aureus type VII secretion system mediates intraspecies competition. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20836-20847.	3.3	57
40	Calcineurin Orchestrates Lateral Transfer of Aspergillus fumigatus during Macrophage Cell Death. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 1127-1139.	2.5	54
41	Septin 11 Restricts InlB-mediated Invasion by Listeria. Journal of Biological Chemistry, 2009, 284, 11613-11621.	1.6	52
42	Septins restrict inflammation and protect zebrafish larvae from Shigella infection. PLoS Pathogens, 2017, 13, e1006467.	2.1	51
43	Wiskott-Aldrich syndrome protein regulates autophagy and inflammasome activity in innate immune cells. Nature Communications, 2017, 8, 1576.	5.8	50
44	SUMOylation of human septins is critical for septin filament bundling and cytokinesis. Journal of Cell Biology, 2017, 216, 4041-4052.	2.3	48
45	The Mycobacterium tuberculosis complex transcriptome of attenuation. Tuberculosis, 2004, 84, 197-204.	0.8	47
46	Direct detection of lipid A on intact Gram-negative bacteria by MALDI-TOF mass spectrometry. Journal of Microbiological Methods, 2016, 120, 68-71.	0.7	46
47	Point mutations in the DNA- and cNMP-binding domains of the homologue of the cAMP receptor protein (CRP) in Mycobacterium bovis BCG: implications for the inactivation of a global regulator and strain attenuation. Microbiology (United Kingdom), 2005, 151, 547-556.	0.7	44
48	Genomic Characterization of an Endemic Mycobacterium tuberculosis Strain: Evolutionary and Epidemiologic Implications. Journal of Clinical Microbiology, 2004, 42, 2573-2580.	1.8	43
49	The Origin and Evolution of Mycobacterium tuberculosis. Clinics in Chest Medicine, 2005, 26, 207-216.	0.8	43
50	Macrophageâ€“Microbe Interactions: Lessons from the Zebrafish Model. Frontiers in Immunology, 2017, 8, 1703.	2.2	40
51	Septins and Bacterial Infection. Frontiers in Cell and Developmental Biology, 2016, 4, 127.	1.8	39
52	Autophagy selectively regulates miRNA homeostasis. Autophagy, 2013, 9, 781-783.	4.3	38
53	Role of Endothelial Cell Septin 7 in the Endocytosis of Candida albicans. MBio, 2013, 4, e00542-13.	1.8	38
54	Cytoskeleton rearrangements during Listeria infection: Clathrin and septins as new players in the game. Cytoskeleton, 2009, 66, 816-823.	4.4	37

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55	Multiple Roles of the Cytoskeleton in Bacterial Autophagy. PLoS Pathogens, 2014, 10, e1004409.	2.1	37
56	Listeria and autophagy escape. Autophagy, 2012, 8, 132-134.	4.3	36
57	Use of zebrafish to study Shigella infection. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	36
58	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. Nature Communications, 2020, 11, 6172.	5.8	36
59	Virulence Factors That Modulate the Cell Biology of Listeria Infection and the Host Response. Advances in Immunology, 2012, 113, 19-32.	1.1	35
60	Septins suppress the release of vaccinia virus from infected cells. Journal of Cell Biology, 2018, 217, 2911-2929.	2.3	31
61	Shigella -Induced Emergency Granulopoiesis Protects Zebrafish Larvae from Secondary Infection. MBio, 2018, 9, .	1.8	28
62	Chytrid fungus infection in zebrafish demonstrates that the pathogen can parasitize non-amphibian vertebrate hosts. Nature Communications, 2017, 8, 15048.	5.8	27
63	Defects in LC3B2 and ATG4A underlie HSV2 meningitis and reveal a critical role for autophagy in antiviral defense in humans. Science Immunology, 2020, 5, .	5.6	27
64	Autophagy and the cytoskeleton. Autophagy, 2011, 7, 780-782.	4.3	26
65	Robust Phagocyte Recruitment Controls the Opportunistic Fungal Pathogen Mucor circinelloides in Innate Granulomas In Vivo. MBio, 2018, 9, .	1.8	24
66	Role of septins in microbial infection. Journal of Cell Science, 2019, 132, .	1.2	24
67	Mechanistic insight into bacterial entrapment by septin cage reconstitution. Nature Communications, 2021, 12, 4511.	5.8	24
68	Pyroptosis in host defence against bacterial infection. DMM Disease Models and Mechanisms, 2022, 15, .	1.2	24
69	Endoplasmic reticulum chaperone Gp96 controls actomyosin dynamics and protects against poreâ€forming toxins. EMBO Reports, 2017, 18, 303-318.	2.0	22
70	Shigella sonneiÂinfection of zebrafish reveals that O-antigen mediates neutrophil tolerance and dysentery incidence. PLoS Pathogens, 2019, 15, e1008006.	2.1	22
71	Shigella sonnei O-Antigen Inhibits Internalization, Vacuole Escape, and Inflammasome Activation. MBio, 2019, 10, .	1.8	22
72	Shigella sonnei. Trends in Microbiology, 2020, 28, 696-697.	3.5	21

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73	The history of septin biology and bacterial infection. Cellular Microbiology, 2020, 22, e13173.	1.1	21
74	Emerging technologies and infection models in cellular microbiology. Nature Communications, 2021, 12, 6764.	5.8	19
75	Human TANK-binding kinase 1 is required for early autophagy induction upon herpes simplex virus 1 infection. Journal of Allergy and Clinical Immunology, 2019, 143, 765-769.e7.	1.5	18
76	In vitro and in vivo properties of the bovine antimicrobial peptide, Bactenecin 5. PLoS ONE, 2019, 14, e0210508.	1.1	18
77	Interactions between Shigella flexneri and the Autophagy Machinery. Frontiers in Cellular and Infection Microbiology, 2016, 6, 17.	1.8	17
78	A requirement for septins and the autophagy receptor p62 in the proliferation of intracellular Shigella. Cytoskeleton, 2019, 76, 163-172.	1.0	17
79	Comparative Genomics in the Fight Against Tuberculosis. Molecular Diagnosis and Therapy, 2002, 2, 189-196.	3.3	16
80	The zebrafish as a novel model for thein vivostudy ofToxoplasma gondiireplication and interaction with macrophages. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	16
81	Septins as key regulators of actin based processes in bacterial infection. Biological Chemistry, 2011, 392, 831-835.	1.2	15
82	Molecular Genetic Analysis of Two Loci (Ity2andIty3) Involved in the Host Response to Infection With Salmonella Typhimurium Using Congenic Mice and Expression Profiling. Genetics, 2007, 177, 1125-1139.	1.2	14
83	Use of Shigella flexneri to Study Autophagy-Cytoskeleton Interactions. Journal of Visualized Experiments, 2014, , e51601.	0.2	14
84	Mitochondria promote septin assembly into cages that entrap Shigella for autophagy. Autophagy, 2018, 14, 913-914.	4.3	13
85	Molecular Tools for Typing and Branding the Tubercle Bacillus. Current Molecular Medicine, 2007, 7, 309-317.	0.6	12
86	From Pathogenesis to Cell Biology and Back. Cell Host and Microbe, 2009, 5, 510-513.	5.1	11
87	Shigella MreB promotes polar IcsA positioning for actin tail formation. Journal of Cell Science, 2019, 132, .	1.2	11
88	Genetic characterization of the Guinea-Bissau family of Mycobacterium tuberculosis complex strains. Microbes and Infection, 2004, 6, 272-278.	1.0	9
89	Septins recognize micron-scale membrane curvature. Journal of Cell Biology, 2016, 213, 5-6.	2.3	8
90	Investigation of septin biology in vivo using zebrafish. Methods in Cell Biology, 2016, 136, 221-241.	0.5	8

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91	Septins promote caspase activity and coordinate mitochondrial apoptosis. Cytoskeleton, 2023, 80, 254-265.	1.0	7
92	Mycobacterium africanum is not a major cause of human tuberculosis in Cape Town, South Africa. Tuberculosis, 2010, 90, 143-144.	0.8	6
93	Bacterial cell division is recognized by the septin cytoskeleton for restriction by autophagy. Autophagy, 2019, 15, 937-939.	4.3	5
94	Mimicry Embedding Facilitates Advanced Neural Network Training for Image-Based Pathogen Detection. MSphere, 2020, 5, .	1.3	5
95	Investigation of septins using infection by bacterial pathogens. Methods in Cell Biology, 2016, 136, 117-134.	0.5	4
96	Intact Cell Lipidomics Reveal Changes to the Ratio of Cardiolipins to Phosphatidylinositols in Response to Kanamycin in HeLa and Primary Cells. Chemical Research in Toxicology, 2018, 31, 688-696.	1.7	2
97	Bacterial Autophagy: How to Take a Complement. Cell Host and Microbe, 2018, 23, 580-582.	5.1	2
98	Correlative Light/Electron Microscopy: a Tool for Investigating Infectious Diseases. Microscopy and Microanalysis, 2009, 15, 862-863.	0.2	1
99	Salmonella ubiquitination: ARIH1 enters the fray. EMBO Reports, 2017, 18, 1476-1477.	2.0	1
100	Editorial overview: The molecular and cellular biology of septins. Cytoskeleton, 2019, 76, 5-6.	1.0	0