

Avinash Shenoy

List of Publications by Year in descending order

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39
papers

3,074
citations

236925

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302126

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docs citations

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times ranked

4658
citing authors

#	ARTICLE	IF	CITATIONS
1	A Family of IFN- γ -Inducible 65-kD GTPases Protects Against Bacterial Infection. <i>Science</i> , 2011, 332, 717-721.	12.6	419
2	GBP5 Promotes NLRP3 Inflammasome Assembly and Immunity in Mammals. <i>Science</i> , 2012, 336, 481-485.	12.6	409
3	IFN-Inducible GTPases in Host Cell Defense. <i>Cell Host and Microbe</i> , 2012, 12, 432-444.	11.0	259
4	Designing DNA nanodevices for compatibility with the immune system of higher organisms. <i>Nature Nanotechnology</i> , 2015, 10, 741-747.	31.5	203
5	Human <i>GBP1</i> is a microbe-specific gatekeeper of macrophage apoptosis and pyroptosis. <i>EMBO Journal</i> , 2019, 38, e100926.	7.8	170
6	IFN- γ Elicits Macrophage Autophagy via the p38 MAPK Signaling Pathway. <i>Journal of Immunology</i> , 2012, 189, 813-818.	0.8	148
7	The cytoskeleton in cell-autonomous immunity: structural determinants of host defence. <i>Nature Reviews Immunology</i> , 2015, 15, 559-573.	22.7	141
8	Site-directed mutagenesis using a single mutagenic oligonucleotide and DpnI digestion of template DNA. <i>Analytical Biochemistry</i> , 2003, 319, 335-336.	2.4	109
9	Growth inhibition of cytosolic <i>Salmonella</i> by caspase-1 and caspase-11 precedes host cell death. <i>Nature Communications</i> , 2016, 7, 13292.	12.8	106
10	<i>Citrobacter rodentium</i> "host" microbiota interactions: immunity, bioenergetics and metabolism. <i>Nature Reviews Microbiology</i> , 2019, 17, 701-715.	28.6	97
11	Emerging themes in IFN- γ -induced macrophage immunity by the p47 and p65 GTPase families. <i>Immunobiology</i> , 2008, 212, 771-784.	1.9	81
12	The Rv0805 Gene from <i>Mycobacterium tuberculosis</i> Encodes a γ -Cyclic Nucleotide Phosphodiesterase: A Biochemical and Mutational Analysis. <i>Biochemistry</i> , 2005, 44, 15695-15704.	2.5	80
13	Structural and Biochemical Analysis of the Rv0805 Cyclic Nucleotide Phosphodiesterase from <i>Mycobacterium tuberculosis</i> . <i>Journal of Molecular Biology</i> , 2007, 365, 211-225.	4.2	74
14	New messages from old messengers: cAMP and mycobacteria. <i>Trends in Microbiology</i> , 2006, 14, 543-550.	7.7	69
15	The Atypical Ubiquitin E2 Conjugase UBE2L3 Is an Indirect Caspase-1 Target and Controls IL-1 β Secretion by Inflammasomes. <i>Cell Reports</i> , 2017, 18, 1285-1297.	6.4	59
16	Human GBP1 Differentially Targets <i>Salmonella</i> and <i>Toxoplasma</i> to License Recognition of Microbial Ligands and Caspase-Mediated Death. <i>Cell Reports</i> , 2020, 32, 108008.	6.4	58
17	<i>Mycobacterial</i> adenylyl cyclases: Biochemical diversity and structural plasticity. <i>FEBS Letters</i> , 2006, 580, 3344-3352.	2.8	53
18	Septins restrict inflammation and protect zebrafish larvae from <i>Shigella</i> infection. <i>PLoS Pathogens</i> , 2017, 13, e1006467.	4.7	51

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19	A Survey of Nucleotide Cyclases in Actinobacteria: Unique Domain Organization and Expansion of the Class III Cyclase Family in <i>Mycobacterium tuberculosis</i> . <i>Comparative and Functional Genomics</i> , 2004, 5, 17-38.	2.0	48
20	Class III nucleotide cyclases in bacteria and archaeobacteria: lineage-specific expansion of adenylyl cyclases and a dearth of guanylyl cyclases. <i>FEBS Letters</i> , 2004, 561, 11-21.	2.8	47
21	Enteropathogenic <i>Escherichia coli</i> Stimulates Effector-Driven Rapid Caspase-4 Activation in Human Macrophages. <i>Cell Reports</i> , 2019, 27, 1008-1017.e6.	6.4	36
22	Mutational analysis of the <i>Mycobacterium tuberculosis</i> Rv1625c adenylyl cyclase: residues that confer nucleotide specificity contribute to dimerization. <i>FEBS Letters</i> , 2003, 545, 253-259.	2.8	32
23	Characterization of phylogenetically distant members of the adenylate cyclase family from mycobacteria: Rv1647 from <i>Mycobacterium tuberculosis</i> and its orthologue ML1399 from <i>M. leprae</i> . <i>Biochemical Journal</i> , 2005, 387, 541-551.	3.7	31
24	Antimicrobial inflammasomes: unified signalling against diverse bacterial pathogens. <i>Current Opinion in Microbiology</i> , 2015, 23, 32-41.	5.1	31
25	Regulation and repurposing of nutrient sensing and autophagy in innate immunity. <i>Autophagy</i> , 2021, 17, 1571-1591.	9.1	27
26	A Probe for NLRP3 Inflammasome Inhibitor MCC950 Identifies Carbonic Anhydrase 2 as a Novel Target. <i>ACS Chemical Biology</i> , 2021, 16, 982-990.	3.4	27
27	E3 Ubiquitin ligase ZNRF4 negatively regulates NOD2 signalling and induces tolerance to MDP. <i>Nature Communications</i> , 2017, 8, 15865.	12.8	26
28	Regulated proteolysis of p62/SQSTM1 enables differential control of autophagy and nutrient sensing. <i>Science Signaling</i> , 2018, 11, .	3.6	26
29	Modulation of Host Cell Processes by T3SS Effectors. <i>Current Topics in Microbiology and Immunology</i> , 2018, 416, 73-115.	1.1	26
30	<i>Shigella sonnei</i> O-Antigen Inhibits Internalization, Vacuole Escape, and Inflammasome Activation. <i>MBio</i> , 2019, 10, .	4.1	22
31	Genetic and pharmacological inhibition of inflammasomes reduces the survival of <i>Mycobacterium tuberculosis</i> strains in macrophages. <i>Scientific Reports</i> , 2020, 10, 3709.	3.3	19
32	Human TANK-binding kinase 1 is required for early autophagy induction upon herpes simplex virus 1 infection. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 765-769.e7.	2.9	18
33	Clustering of Tir during enteropathogenic <i>E. coli</i> infection triggers calcium influx-dependent pyroptosis in intestinal epithelial cells. <i>PLoS Biology</i> , 2020, 18, e3000986.	5.6	18
34	Vying for the control of inflammasomes: The cytosolic frontier of enteric bacterial pathogen-host interactions. <i>Cellular Microbiology</i> , 2020, 22, e13184.	2.1	17
35	Very long O-antigen chains of <i>Salmonella</i> Paratyphi A inhibit inflammasome activation and pyroptotic cell death. <i>Cellular Microbiology</i> , 2021, 23, e13306.	2.1	11
36	The ascent of nucleotide cyclases: conservation and evolution of a theme. <i>Journal of Biosciences</i> , 2002, 27, 85-91.	1.1	8

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37	Cyclic nucleotides, gut physiology and inflammation. FEBS Journal, 2020, 287, 1970-1981.	4.7	6
38	Mycobacterial STAND adenylyl cyclases: The HTH domain binds DNA to form biocrystallized nucleoids. Biophysical Journal, 2021, 120, 1231-1246.	0.5	4
39	His kinase or mine? Histidine kinases through evolution. Journal of Biosciences, 2000, 25, 317-322.	1.1	2