Partho Ghosh

List of Publications by Year
in descending order

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50	3,096	186265	223800
papers	citations	28 h-index	46 g-index

58	58	58	3257
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Process of Protein Transport by the Type III Secretion System. Microbiology and Molecular Biology Reviews, 2004, 68, 771-795.	6.6	351
2	Crystal structure of colicin Ia. Nature, 1997, 385, 461-464.	27.8	250
3	In Vivo Phospholipase Activity of the Pseudomonas aeruginosa Cytotoxin ExoU and Protection of Mammalian Cells with Phospholipase A2 Inhibitors. Journal of Biological Chemistry, 2003, 278, 41326-41332.	3.4	172
4	Three-Dimensional Secretion Signals in Chaperone-Effector Complexes of Bacterial Pathogens. Molecular Cell, 2002, 9, 971-980.	9.7	162
5	Structure of the InlB Leucine-Rich Repeats, a Domain that Triggers Host Cell Invasion by the Bacterial Pathogen L. monocytogenes. Molecular Cell, 1999, 4, 1063-1072.	9.7	161
6	M1 Protein Allows Group A Streptococcal Survival in Phagocyte Extracellular Traps through Cathelicidin Inhibition. Journal of Innate Immunity, 2009, 1, 202-214.	3.8	157
7	Coiled-Coil Irregularities and Instabilities in Group A Streptococcus M1 Are Required for Virulence. Science, 2008, 319, 1405-1408.	12.6	137
8	GW domains of the Listeria monocytogenes invasion protein InlB are SH3-like and mediate binding to host ligands. EMBO Journal, 2002, 21, 5623-5634.	7.8	107
9	Diversity-generating retroelements: natural variation, classification and evolution inferred from a large-scale genomic survey. Nucleic Acids Research, 2018, 46, 11-24.	14.5	102
10	Streptococcal M1 protein constructs a pathological host fibrinogen network. Nature, 2011, 472, 64-68.	27.8	100
11	Structure of the Rho-activating domain of Escherichia coli cytotoxic necrotizing factor 1. Nature Structural Biology, 2001, 8, 584-588.	9.7	95
12	The C-type lectin fold as an evolutionary solution for massive sequence variation. Nature Structural and Molecular Biology, 2005, 12, 886-892.	8.2	92
13	Listeria monocytogenes Internalin B Activates Junctional Endocytosis to Accelerate Intestinal Invasion. PLoS Pathogens, 2010, 6, e1000900.	4.7	86
14	Group A streptococcal M protein activates the NLRP3 inflammasome. Nature Microbiology, 2017, 2, 1425-1434.	13.3	73
15	Structure of the Yersinia type III secretory system chaperone SycE. , 2001, 8, 974-978.		68
16	GW domains of the Listeria monocytogenes invasion protein InlB are required for potentiation of Met activation. Molecular Microbiology, 2004, 52, 257-271.	2.5	67
17	Targeted diversity generation by intraterrestrial archaea and archaeal viruses. Nature Communications, 2015, 6, 6585.	12.8	63
18	Retroelement-guided protein diversification abounds in vast lineages of Bacteria and Archaea. Nature Microbiology, 2017, 2, 17045.	13.3	62

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19	Group A Streptococcal M1 Protein Sequesters Cathelicidin to Evade Innate Immune Killing. Cell Host and Microbe, 2015, 18, 471-477.	11.0	51
20	Two Translation Products of Yersinia yscQ Assemble To Form a Complex Essential to Type III Secretion. Biochemistry, 2012, 51, 1669-1677.	2.5	49
21	Surface display of a massively variable lipoprotein by a Legionella diversity-generating retroelement. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8212-8217.	7.1	48
22	Selective Ligand Recognition by a Diversity-Generating Retroelement Variable Protein. PLoS Biology, 2008, 6, e131.	5.6	47
23	Diversity-generating Retroelements in Phage and Bacterial Genomes. Microbiology Spectrum, 2014, 2, .	3.0	47
24	Conserved patterns hidden within group A Streptococcus M protein hypervariability recognize human C4b-binding protein. Nature Microbiology, 2016, 1, 16155.	13.3	47
25	Multiple Regions of Internalin B Contribute to Its Ability to Turn on the Ras-Mitogen-activated Protein Kinase Pathway. Journal of Biological Chemistry, 2003, 278, 7783-7789.	3.4	43
26	The Type III Secretion Chaperone SycE Promotes a Localized Disorder-to-Order Transition in the Natively Unfolded Effector YopE. Journal of Biological Chemistry, 2008, 283, 20857-20863.	3.4	39
27	Conservation of the C-type lectin fold for massive sequence variation in a Treponema diversity-generating retroelement. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14649-14653.	7.1	39
28	Coiled-coil destabilizing residues in the group A Streptococcus M1 protein are required for functional interaction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9515-9520.	7.1	37
29	Variation, Indispensability, and Masking in the M protein. Trends in Microbiology, 2018, 26, 132-144.	7.7	33
30	The Nonideal Coiled Coil of M Protein and Its Multifarious Functions in Pathogenesis. Advances in Experimental Medicine and Biology, 2011, 715, 197-211.	1.6	31
31	Mutual Exclusivity of Hyaluronan and Hyaluronidase in Invasive Group A Streptococcus. Journal of Biological Chemistry, 2014, 289, 32303-32315.	3.4	30
32	Group A Streptococcal M1 Protein Provides Resistance against the Antimicrobial Activity of Histones. Scientific Reports, 2017, 7, 43039.	3.3	29
33	Structure of the Essential Diversity-Generating Retroelement Protein bAvd and Its Functionally Important Interaction with Reverse Transcriptase. Structure, 2013, 21, 266-276.	3.3	26
34	The Fibrinogen-binding M1 Protein Reduces Pharyngeal Cell Adherence and Colonization Phenotypes of M1T1 Group A Streptococcus. Journal of Biological Chemistry, 2014, 289, 3539-3546.	3.4	22
35	Template-assisted synthesis of adenine-mutagenized cDNA by a retroelement protein complex. Nucleic Acids Research, 2018, 46, 9711-9725.	14.5	21
36	A carboxy-terminal fragment of colicin Ia forms ion channels. Journal of Membrane Biology, 1993, 134, 85-92.	2.1	19

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37	Structure and Interactions of the Cytoplasmic Domain of the Yersinia Type III Secretion Protein YscD. Journal of Bacteriology, 2012, 194, 5949-5958.	2.2	18
38	Conservation of the C-type lectin fold for accommodating massive sequence variation in archaeal diversity-generating retroelements. BMC Structural Biology, 2016, 16, 13.	2.3	15
39	A Solvent-Exposed Patch in Chaperone-Bound YopE Is Required for Translocation by the Type III Secretion System. Journal of Bacteriology, 2010, 192, 3114-3122.	2.2	14
40	Coiled-coil irregularities of the M1 protein structure promote M1â€“fibrinogen interaction and influence group A Streptococcus host cell interactions and virulence. Journal of Molecular Medicine, 2013, 91, 861-869.	3.9	14
41	Nonimmune antibody interactions of Group A Streptococcus M and M-like proteins. PLoS Pathogens, 2021, 17, e1009248.	4.7	13
42	Structure of the Essential Plasmodium Host Cell Traversal Protein SPECT1. PLoS ONE, 2014, 9, e114685.	2.5	12
43	Investigation of the Mechanism of Binding between Internalin B and Heparin Using Surface Plasmon Resonance. Biochemistry, 2007, 46, 2697-2706.	2.5	9
44	Diversity-generating Retroelements in Phage and Bacterial Genomes. , 0, , 1237-1252.		8
45	Characterization of the calcium-binding sites of Listeria monocytogenes InlB. Biochemical and Biophysical Research Communications, 2004, 316, 379-386.	2.1	7
46	An M protein coiled coil unfurls and exposes its hydrophobic core to capture LL-37. ELife, 0, 11, .	6.0	7
47	Crystal structure of a Thermus aquaticus diversity-generating retroelement variable protein. PLoS ONE, 2019, 14, e0205618.	2.5	5
48	Determinants of adenine-mutagenesis in diversity-generating retroelements. Nucleic Acids Research, 2021, 49, 1033-1045.	14.5	5
49	Contribution of Streptococcus pyogenes M87 protein to innate immune resistance and virulence. Microbial Pathogenesis, 2022, 169, 105636.	2.9	4
50	M1 Protein from GAS Protects against Histone Killing. FASEB Journal, 2015, 29, 718.18.	0.5	0