

Rekha G Panchal

List of Publications by Year in descending order

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94
papers

5,680
citations

81743

39
h-index

76769

74
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96
all docs

96
docs citations

96
times ranked

7223
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Toll-Like Receptor 2 Agonist Protects Mice in a Prophylactic Treatment Model Against Challenge With <i>Bacillus anthracis</i> . <i>Frontiers in Microbiology</i> , 2022, 13, 803041.	1.5	1
2	In Vitro Antibacterial Activity and In Vivo Efficacy of Sulbactam-Durlobactam against Pathogenic <i>Burkholderia</i> Species. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	5
3	Proteomic Analysis of Non-human Primate Peripheral Blood Mononuclear Cells During <i>Burkholderia mallei</i> Infection Reveals a Role of Ezrin in Glanders Pathogenesis. <i>Frontiers in Microbiology</i> , 2021, 12, 625211.	1.5	1
4	A direct spectropolarimetric assay of arabinose 5-phosphate isomerase. <i>Analytical Biochemistry</i> , 2021, 622, 114116.	1.1	1
5	In vitro and in vivo activity of GT-1, a novel siderophore cephalosporin, and GT-055, a broad-spectrum β -lactamase inhibitor, against biothreat and ESKAPE pathogens. <i>Journal of Antibiotics</i> , 2021, 74, 884-892.	1.0	6
6	Screening of a Focused Ubiquitin-Proteasome Pathway Inhibitor Library Identifies Small Molecules as Novel Modulators of Botulinum Neurotoxin Type A Toxicity. <i>Frontiers in Pharmacology</i> , 2021, 12, 763950.	1.6	4
7	Development of a <i>Coxiella burnetii</i> culture method for high-throughput assay to identify host-directed therapeutics. <i>Journal of Microbiological Methods</i> , 2020, 169, 105813.	0.7	1
8	Recent successes in therapeutics for Ebola virus disease: no time for complacency. <i>Lancet Infectious Diseases</i> , The, 2020, 20, e231-e237.	4.6	42
9	Combating biothreat pathogens: ongoing efforts for countermeasure development and unique challenges. , 2020, , 171-222.		0
10	<p>Enhancing the antibacterial activity of polymyxins using a nonantibiotic drug</p>. <i>Infection and Drug Resistance</i> , 2019, Volume 12, 1393-1405.	1.1	14
11	Robust biofilm assay for quantification and high throughput screening applications. <i>Journal of Microbiological Methods</i> , 2019, 159, 179-185.	0.7	16
12	Characterization of the plasma proteome of nonhuman primates during Ebola virus disease or melioidosis: a host response comparison. <i>Clinical Proteomics</i> , 2019, 16, 7.	1.1	9
13	Second generation of diazachrysenes: Protection of Ebola virus infected mice and mechanism of action. <i>European Journal of Medicinal Chemistry</i> , 2019, 162, 32-50.	2.6	15
14	Mitigating the Impact of Antibacterial Drug Resistance through Host-Directed Therapies: Current Progress, Outlook, and Challenges. <i>MBio</i> , 2018, 9, .	1.8	59
15	Bioengineering of bacterial pathogens for noninvasive imaging and in vivo evaluation of therapeutics. <i>Scientific Reports</i> , 2018, 8, 12618.	1.6	11
16	Quorum Sensing in <i>Burkholderia pseudomallei</i> and Other <i>Burkholderia</i> species. <i>Current Tropical Medicine Reports</i> , 2017, 4, 199-207.	1.6	2
17	Biochip for the Detection of <i>Bacillus anthracis</i> Lethal Factor and Therapeutic Agents against Anthrax Toxins. <i>Membranes</i> , 2016, 6, 36.	1.4	9
18	L1000CDS2: LINCS L1000 characteristic direction signatures search engine. <i>Npj Systems Biology and Applications</i> , 2016, 2, .	1.4	250

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19	BCX4430 – A broad-spectrum antiviral adenosine nucleoside analog under development for the treatment of Ebola virus disease. <i>Journal of Infection and Public Health</i> , 2016, 9, 220-226.	1.9	149
20	Bacterial genome engineering and synthetic biology: combating pathogens. <i>BMC Microbiology</i> , 2016, 16, 258.	1.3	26
21	Characterization of the murine macrophage response to infection with virulent and avirulent <i>Burkholderia</i> species. <i>BMC Microbiology</i> , 2015, 15, 259.	1.3	16
22	A reverse-phase protein microarray-based screen identifies host signaling dynamics upon <i>Burkholderia</i> spp. infection. <i>Frontiers in Microbiology</i> , 2015, 6, 683.	1.5	11
23	Evaluation of Ebola Virus Inhibitors for Drug Repurposing. <i>ACS Infectious Diseases</i> , 2015, 1, 317-326.	1.8	209
24	Heat fixation inactivates viral and bacterial pathogens and is compatible with downstream MALDI mass spectrometry tissue imaging. <i>BMC Microbiology</i> , 2015, 15, 101.	1.3	14
25	Host response during <i>Yersinia pestis</i> infection of human bronchial epithelial cells involves negative regulation of autophagy and suggests a modulation of survival-related and cellular growth pathways. <i>Frontiers in Microbiology</i> , 2015, 6, 50.	1.5	9
26	Src Family Kinase Inhibitors Antagonize the Toxicity of Multiple Serotypes of Botulinum Neurotoxin in Human Embryonic Stem Cell-Derived Motor Neurons. <i>Neurotoxicity Research</i> , 2015, 27, 384-398.	1.3	13
27	Anti-Ebola Activity of Diazachrysen Small Molecules. <i>ACS Infectious Diseases</i> , 2015, 1, 264-271.	1.8	10
28	Applications of In Vivo Imaging in the Evaluation of the Pathophysiology of Viral and Bacterial Infections and in Development of Countermeasures to BSL3/4 Pathogens. <i>Molecular Imaging and Biology</i> , 2015, 17, 4-17.	1.3	24
29	Phosphatase Inhibitors Function as Novel, Broad Spectrum Botulinum Neurotoxin Antagonists in Mouse and Human Embryonic Stem Cell-Derived Motor Neuron-Based Assays. <i>PLoS ONE</i> , 2015, 10, e0129264.	1.1	6
30	Induced IL-10 Splice Altering Approach to Antiviral Drug Discovery. <i>Nucleic Acid Therapeutics</i> , 2014, 24, 179-185.	2.0	12
31	Filovirus RefSeq Entries: Evaluation and Selection of Filovirus Type Variants, Type Sequences, and Names. <i>Viruses</i> , 2014, 6, 3663-3682.	1.5	49
32	Rational design of small molecules as vaccine adjuvants. <i>Science Translational Medicine</i> , 2014, 6, 263ra160.	5.8	153
33	Protection against filovirus diseases by a novel broad-spectrum nucleoside analogue BCX4430. <i>Nature</i> , 2014, 508, 402-405.	13.7	520
34	Synthesis and antibacterial evaluation of new, unsymmetrical triaryl bisamidine compounds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3366-3372.	1.0	18
35	A high-content imaging assay for the quantification of the <i>Burkholderia pseudomallei</i> induced multinucleated giant cell (MNGC) phenotype in murine macrophages. <i>BMC Microbiology</i> , 2014, 14, 98.	1.3	14
36	A High Content Imaging Assay for Identification of Botulinum Neurotoxin Inhibitors. <i>Journal of Visualized Experiments</i> , 2014, , e51915.	0.2	3

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37	Alveolar Macrophages Infected with Ames or Sterne Strain of Bacillus anthracis Elicit Differential Molecular Expression Patterns. PLoS ONE, 2014, 9, e87201.	1.1	2
38	Potent and broad-spectrum antibacterial activity of indole-based bisamidine antibiotics: Synthesis and SAR of novel analogs of MBX 1066 and MBX 1090. Bioorganic and Medicinal Chemistry, 2013, 21, 7790-7806.	1.4	28
39	Characterization of the Burkholderia thailandensis SOS Response by Using Whole-Transcriptome Shotgun Sequencing. Applied and Environmental Microbiology, 2013, 79, 5830-5843.	1.4	15
40	Anthrax toxin-induced rupture of artificial lipid bilayer membranes. Journal of Chemical Physics, 2013, 139, 065101.	1.2	18
41	Bis-imidazolinyllindoles are active against methicillin-resistant Staphylococcus aureus and multidrug-resistant Mycobacterium tuberculosis. Journal of Antibiotics, 2013, 66, 47-49.	1.0	6
42	Integrating High-Content Imaging and Chemical Genetics to Probe Host Cellular Pathways Critical for Yersinia Pestis Infection. PLoS ONE, 2013, 8, e55167.	1.1	7
43	A Systematic Screen of FDA-Approved Drugs for Inhibitors of Biological Threat Agents. PLoS ONE, 2013, 8, e60579.	1.1	223
44	A Limited Structural Modification Results in a Significantly More Efficacious Diazachrysen-Based Filovirus Inhibitor. Viruses, 2012, 4, 1279-1288.	1.5	13
45	High Content Image Based Analysis Identifies Cell Cycle Inhibitors as Regulators of Ebola Virus Infection. Viruses, 2012, 4, 1865-1877.	1.5	16
46	Discovery and Early Development of AVI-7537 and AVI-7288 for the Treatment of Ebola Virus and Marburg Virus Infections. Viruses, 2012, 4, 2806-2830.	1.5	105
47	Shedding Light on Filovirus Infection with High-Content Imaging. Viruses, 2012, 4, 1354-1371.	1.5	14
48	Peptide Conjugated Phosphorodiamidate Morpholino Oligomers Increase Survival of Mice Challenged with Ames Bacillus anthracis. Nucleic Acid Therapeutics, 2012, 22, 316-322.	2.0	11
49	High-throughput screen using a single-cell tyrosine phosphatase assay reveals biologically active inhibitors of tyrosine phosphatase CD45. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13972-13977.	3.3	27
50	Identification of an antioxidant small-molecule with broad-spectrum antiviral activity. Antiviral Research, 2012, 93, 23-29.	1.9	76
51	Identification of a Small-Molecule Entry Inhibitor for Filoviruses. Journal of Virology, 2011, 85, 3106-3119.	1.5	98
52	A Chemotype That Inhibits Three Unrelated Pathogenic Targets: The Botulinum Neurotoxin Serotype A Light Chain, P. falciparum Malaria, and the Ebola Filovirus. Journal of Medicinal Chemistry, 2011, 54, 1157-1169.	2.9	46
53	Efflux-mediated bis-indole resistance in Staphylococcus aureus reveals differential substrate specificities for MepA and MepR. Bioorganic and Medicinal Chemistry, 2010, 18, 2123-2130.	1.4	17
54	Development of High-Content Imaging Assays for Lethal Viral Pathogens. Journal of Biomolecular Screening, 2010, 15, 755-765.	2.6	52

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55	Comparative <i>In Vitro</i> Activity Profiles of Novel Bis-Indole Antibacterials against Gram-Positive and Gram-Negative Clinical Isolates. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3974-3977.	1.4	35
56	Reduced Expression of CD45 Protein-tyrosine Phosphatase Provides Protection against Anthrax Pathogenesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 12874-12885.	1.6	26
57	<i>Burkholderia mallei</i> tssM Encodes a Putative Deubiquitinase That Is Secreted and Expressed inside Infected RAW 264.7 Murine Macrophages. <i>Infection and Immunity</i> , 2009, 77, 1636-1648.	1.0	53
58	Novel Broad-Spectrum Bis-(Imidazolinyndole) Derivatives with Potent Antibacterial Activities against Antibiotic-Resistant Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 4283-4291.	1.4	44
59	Reduced Levels of Protein Tyrosine Phosphatase CD45 Protect Mice from the Lethal Effects of Ebola Virus Infection. <i>Cell Host and Microbe</i> , 2009, 6, 162-173.	5.1	22
60	Sizing the <i>Bacillus anthracis</i> PA63 Channel with Nonelectrolyte Poly(Ethylene Glycols). <i>Biophysical Journal</i> , 2008, 95, 1157-1164.	0.2	41
61	Primary Cultures of Embryonic Chicken Neurons for Sensitive Cell-Based Assay of Botulinum Neurotoxin: Implications for Therapeutic Discovery. <i>Journal of Biomolecular Screening</i> , 2007, 12, 370-377.	2.6	36
62	Filovirus-Like Particles Produced in Insect Cells: Immunogenicity and Protection in Rodents. <i>Journal of Infectious Diseases</i> , 2007, 196, S421-S429.	1.9	79
63	A Refined Pharmacophore Identifies Potent 4-Amino-7-chloroquinoline-Based Inhibitors of the Botulinum Neurotoxin Serotype A Metalloprotease. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 2127-2136.	2.9	58
64	Inhibition of Metalloprotease Botulinum Serotype A from a Pseudo-peptide Binding Mode to a Small Molecule That Is Active in Primary Neurons. <i>Journal of Biological Chemistry</i> , 2007, 282, 5004-5014.	1.6	98
65	A theoretical study of anthrax lethal factor inhibition by a set of novel carbamimidolyl-aryl-vinyl-carboxamidines: A possible mechanism involving zinc-ligation by amidine. <i>Computational and Theoretical Chemistry</i> , 2007, 821, 139-144.	1.5	5
66	Chemical Genetic Screening Identifies Critical Pathways in Anthrax Lethal Toxin-Induced Pathogenesis. <i>Chemistry and Biology</i> , 2007, 14, 245-255.	6.2	13
67	Passive immunotherapy of <i>Bacillus anthracis</i> pulmonary infection in mice with antisera produced by DNA immunization. <i>Vaccine</i> , 2006, 24, 5872-5880.	1.7	26
68	Anthrax Lethal Toxin Impairs Innate Immune Functions of Alveolar Macrophages and Facilitates <i>Bacillus anthracis</i> Survival. <i>Infection and Immunity</i> , 2006, 74, 5029-5034.	1.0	60
69	Antisense treatments for biothreat agents. <i>Current Opinion in Molecular Therapeutics</i> , 2006, 8, 93-103.	2.8	19
70	Conformational sampling of the botulinum neurotoxin serotype a light chain: implications for inhibitor binding. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 333-341.	1.4	39
71	Analysis of Ebola virus and VLP release using an immunocapture assay. <i>Journal of Virological Methods</i> , 2005, 127, 1-9.	1.0	43
72	Dendritic Cells Endocytose <i>Bacillus anthracis</i> Spores: Implications for Anthrax Pathogenesis. <i>Journal of Immunology</i> , 2005, 174, 5545-5552.	0.4	117

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73	Purified Bacillus anthracis Lethal Toxin Complex Formed in Vitro and during Infection Exhibits Functional and Biological Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 10834-10839.	1.6	54
74	Anthrax Biosensor, Protective Antigen Ion Channel Asymmetric Blockade. <i>Journal of Biological Chemistry</i> , 2005, 280, 34056-34062.	1.6	75
75	Functional Reconstitution of Protein Ion Channels into Planar Polymerizable Phospholipid Membranes. <i>Nano Letters</i> , 2005, 5, 1181-1185.	4.5	45
76	An all-atom model of the pore-like structure of hexameric VP40 from Ebola: Structural insights into the monomer-hexamer transition. <i>Journal of Structural Biology</i> , 2005, 151, 30-40.	1.3	22
77	Identification of small molecule inhibitors of anthrax lethal factor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 67-72.	3.6	136
78	The rat sodium iodide symporter gene permits more effective radioisotope concentration than the human sodium iodide symporter gene in human and rodent cancer cells. <i>Cancer Gene Therapy</i> , 2003, 10, 14-22.	2.2	16
79	Novel small molecule inhibitors of botulinum neurotoxin A metalloprotease activity. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 84-93.	1.0	98
80	Molecular mechanisms of filovirus cellular trafficking. <i>Microbes and Infection</i> , 2003, 5, 639-649.	1.0	39
81	P2X7 Receptor Cell Surface Expression and Cytolytic Pore Formation Are Regulated by a Distal C-terminal Region. <i>Journal of Biological Chemistry</i> , 2003, 278, 8853-8860.	1.6	153
82	In vivo oligomerization and raft localization of Ebola virus protein VP40 during vesicular budding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15936-15941.	3.3	194
83	Pore formation is not associated with macroscopic redistribution of P2X7 receptors. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C77-C84.	2.1	40
84	Mutant GABAA receptor $\gamma 2$ -subunit in childhood absence epilepsy and febrile seizures. <i>Nature Genetics</i> , 2001, 28, 49-52.	9.4	721
85	Title is missing!. <i>Nature Genetics</i> , 2001, 28, 49-52.	9.4	247
86	Genetically Targeted Calcium Sensors Enhance The Study Of Organelle Function In Living Cells. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000, 27, 738-744.	0.9	4
87	Partial Functional Correction of Xeroderma Pigmentosum Group A Cells by Suppressor tRNA. <i>Human Gene Therapy</i> , 1999, 10, 2209-2219.	1.4	30
88	Caged Catalytic Subunit of cAMP-Dependent Protein Kinase. <i>Journal of the American Chemical Society</i> , 1998, 120, 7661-7662.	6.6	57
89	Novel Therapeutic Strategies to Selectively Kill Cancer Cells. <i>Biochemical Pharmacology</i> , 1998, 55, 247-252.	2.0	82
90	Tumor protease-activated, pore-forming toxins from a combinatorial library. <i>Nature Biotechnology</i> , 1996, 14, 852-856.	9.4	67

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91	Interactions between Residues in Staphylococcal α -Hemolysin Revealed by Reversion Mutagenesis. Journal of Biological Chemistry, 1995, 270, 23072-23076.	1.6	37
92	Amplification and overexpression of epidermal growth factor receptor gene in human oropharyngeal cancer. European Journal of Cancer Part B, Oral Oncology, 1992, 28, 139-143.	0.9	56
93	Combinatorial RNA splicing alters the surface charge on the NMDA receptor. FEBS Letters, 1992, 305, 27-30.	1.3	102
94	Oncogene Amplification in Squamous Cell Carcinoma of the Oral Cavity. Japanese Journal of Cancer Research, 1989, 80, 430-437.	1.7	107