

Rekha G Panchal

List of Publications by Year in descending order

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94
papers

5,680
citations

81900

39
h-index

76900

74
g-index

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.	3.5	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, .	3.2	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.	3.5	1
4	A direct spectropolarimetric assay of arabinose 5-phosphate isomerase. <i>Analytical Biochemistry</i> , 2021, 622, 114116.	2.4	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.	2.0	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.	3.5	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.	1.6	1
8	Recent successes in therapeutics for Ebola virus disease: no time for complacency. <i>Lancet Infectious Diseases</i> , The, 2020, 20, e231-e237.	9.1	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.	2.7	14
11	Robust biofilm assay for quantification and high throughput screening applications. <i>Journal of Microbiological Methods</i> , 2019, 159, 179-185.	1.6	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.	2.1	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.	5.5	15
14	Mitigating the Impact of Antibacterial Drug Resistance through Host-Directed Therapies: Current Progress, Outlook, and Challenges. <i>MBio</i> , 2018, 9, .	4.1	59
15	Bioengineering of bacterial pathogens for noninvasive imaging and in vivo evaluation of therapeutics. <i>Scientific Reports</i> , 2018, 8, 12618.	3.3	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.	3.7	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.	3.0	9
18	L1000CDS2: LINCS L1000 characteristic direction signatures search engine. <i>Npj Systems Biology and Applications</i> , 2016, 2, .	3.0	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.	4.1	149
20	Bacterial genome engineering and synthetic biology: combating pathogens. <i>BMC Microbiology</i> , 2016, 16, 258.	3.3	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.	3.3	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.	3.5	11
23	Evaluation of Ebola Virus Inhibitors for Drug Repurposing. <i>ACS Infectious Diseases</i> , 2015, 1, 317-326.	3.8	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.	3.3	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.	3.5	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.	2.7	13
27	Anti-Ebola Activity of Diazachrysen Small Molecules. <i>ACS Infectious Diseases</i> , 2015, 1, 264-271.	3.8	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.	2.6	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.	2.5	6
30	Induced IL-10 Splice Altering Approach to Antiviral Drug Discovery. <i>Nucleic Acid Therapeutics</i> , 2014, 24, 179-185.	3.6	12
31	Filovirus RefSeq Entries: Evaluation and Selection of Filovirus Type Variants, Type Sequences, and Names. <i>Viruses</i> , 2014, 6, 3663-3682.	3.3	49
32	Rational design of small molecules as vaccine adjuvants. <i>Science Translational Medicine</i> , 2014, 6, 263ra160.	12.4	153
33	Protection against filovirus diseases by a novel broad-spectrum nucleoside analogue BCX4430. <i>Nature</i> , 2014, 508, 402-405.	27.8	520
34	Synthesis and antibacterial evaluation of new, unsymmetrical triaryl bisamidine compounds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3366-3372.	2.2	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.	3.3	14
36	A High Content Imaging Assay for Identification of Botulinum Neurotoxin Inhibitors. <i>Journal of Visualized Experiments</i> , 2014, , e51915.	0.3	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.	2.5	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.	3.0	28
39	Characterization of the Burkholderia thailandensis SOS Response by Using Whole-Transcriptome Shotgun Sequencing. Applied and Environmental Microbiology, 2013, 79, 5830-5843.	3.1	15
40	Anthrax toxin-induced rupture of artificial lipid bilayer membranes. Journal of Chemical Physics, 2013, 139, 065101.	3.0	18
41	Bis-imidazolinyllindoles are active against methicillin-resistant Staphylococcus aureus and multidrug-resistant Mycobacterium tuberculosis. Journal of Antibiotics, 2013, 66, 47-49.	2.0	6
42	Integrating High-Content Imaging and Chemical Genetics to Probe Host Cellular Pathways Critical for Yersinia Pestis Infection. PLoS ONE, 2013, 8, e55167.	2.5	7
43	A Systematic Screen of FDA-Approved Drugs for Inhibitors of Biological Threat Agents. PLoS ONE, 2013, 8, e60579.	2.5	223
44	A Limited Structural Modification Results in a Significantly More Efficacious Diazachrysen-Based Filovirus Inhibitor. Viruses, 2012, 4, 1279-1288.	3.3	13
45	High Content Image Based Analysis Identifies Cell Cycle Inhibitors as Regulators of Ebola Virus Infection. Viruses, 2012, 4, 1865-1877.	3.3	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.	3.3	105
47	Shedding Light on Filovirus Infection with High-Content Imaging. Viruses, 2012, 4, 1354-1371.	3.3	14
48	Peptide Conjugated Phosphorodiamidate Morpholino Oligomers Increase Survival of Mice Challenged with Ames Bacillus anthracis. Nucleic Acid Therapeutics, 2012, 22, 316-322.	3.6	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.	7.1	27
50	Identification of an antioxidant small-molecule with broad-spectrum antiviral activity. Antiviral Research, 2012, 93, 23-29.	4.1	76
51	Identification of a Small-Molecule Entry Inhibitor for Filoviruses. Journal of Virology, 2011, 85, 3106-3119.	3.4	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.	6.4	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.	3.0	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.	3.2	35
56	Reduced Expression of CD45 Protein-tyrosine Phosphatase Provides Protection against Anthrax Pathogenesis. <i>Journal of Biological Chemistry</i> , 2009, 284, 12874-12885.	3.4	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.	2.2	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.	3.2	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.	11.0	22
60	Sizing the <i>Bacillus anthracis</i> PA63 Channel with Nonelectrolyte Poly(Ethylene Glycols). <i>Biophysical Journal</i> , 2008, 95, 1157-1164.	0.5	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.	4.0	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.	6.4	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.	3.4	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.	6.0	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.	3.8	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.	2.2	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.	3.0	39
71	Analysis of Ebola virus and VLP release using an immunocapture assay. <i>Journal of Virological Methods</i> , 2005, 127, 1-9.	2.1	43
72	Dendritic Cells Endocytose <i>Bacillus anthracis</i> Spores: Implications for Anthrax Pathogenesis. <i>Journal of Immunology</i> , 2005, 174, 5545-5552.	0.8	117

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73	Purified Bacillus anthracis Lethal Toxin Complex Formed in Vitro and during Infection Exhibits Functional and Biological Activity. Journal of Biological Chemistry, 2005, 280, 10834-10839.	3.4	54
74	Anthrax Biosensor, Protective Antigen Ion Channel Asymmetric Blockade. Journal of Biological Chemistry, 2005, 280, 34056-34062.	3.4	75
75	Functional Reconstitution of Protein Ion Channels into Planar Polymerizable Phospholipid Membranes. Nano Letters, 2005, 5, 1181-1185.	9.1	45
76	An all-atom model of the pore-like structure of hexameric VP40 from Ebola: Structural insights into the monomer-hexamer transition. Journal of Structural Biology, 2005, 151, 30-40.	2.8	22
77	Identification of small molecule inhibitors of anthrax lethal factor. Nature Structural and Molecular Biology, 2004, 11, 67-72.	8.2	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. Cancer Gene Therapy, 2003, 10, 14-22.	4.6	16
79	Novel small molecule inhibitors of botulinum neurotoxin A metalloprotease activity. Biochemical and Biophysical Research Communications, 2003, 310, 84-93.	2.1	98
80	Molecular mechanisms of filovirus cellular trafficking. Microbes and Infection, 2003, 5, 639-649.	1.9	39
81	P2X7 Receptor Cell Surface Expression and Cytolytic Pore Formation Are Regulated by a Distal C-terminal Region. Journal of Biological Chemistry, 2003, 278, 8853-8860.	3.4	153
82	In vivo oligomerization and raft localization of Ebola virus protein VP40 during vesicular budding. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15936-15941.	7.1	194
83	Pore formation is not associated with macroscopic redistribution of P2X7 receptors. American Journal of Physiology - Cell Physiology, 2002, 283, C77-C84.	4.6	40
84	Mutant GABAA receptor γ 2-subunit in childhood absence epilepsy and febrile seizures. Nature Genetics, 2001, 28, 49-52.	21.4	721
85	Title is missing!. Nature Genetics, 2001, 28, 49-52.	21.4	247
86	Genetically Targeted Calcium Sensors Enhance The Study Of Organelle Function In Living Cells. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 738-744.	1.9	4
87	Partial Functional Correction of Xeroderma Pigmentosum Group A Cells by Suppressor tRNA. Human Gene Therapy, 1999, 10, 2209-2219.	2.7	30
88	Caged Catalytic Subunit of cAMP-Dependent Protein Kinase. Journal of the American Chemical Society, 1998, 120, 7661-7662.	18.7	57
89	Novel Therapeutic Strategies to Selectively Kill Cancer Cells. Biochemical Pharmacology, 1998, 55, 247-252.	4.4	82
90	Tumor protease-activated, pore-forming toxins from a combinatorial library. Nature Biotechnology, 1996, 14, 852-856.	17.5	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.	3.4	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.	2.8	102
94	Oncogene Amplification in Squamous Cell Carcinoma of the Oral Cavity. Japanese Journal of Cancer Research, 1989, 80, 430-437.	1.7	107