

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	Mutant GABAA receptor γ 2-subunit in childhood absence epilepsy and febrile seizures. <i>Nature Genetics</i> , 2001, 28, 49-52.	21.4	721
2	Protection against filovirus diseases by a novel broad-spectrum nucleoside analogue BCX4430. <i>Nature</i> , 2014, 508, 402-405.	27.8	520
3	L1000CDS2: LINCS L1000 characteristic direction signatures search engine. <i>Npj Systems Biology and Applications</i> , 2016, 2, .	3.0	250
4	Title is missing!. <i>Nature Genetics</i> , 2001, 28, 49-52.	21.4	247
5	A Systematic Screen of FDA-Approved Drugs for Inhibitors of Biological Threat Agents. <i>PLoS ONE</i> , 2013, 8, e60579.	2.5	223
6	Evaluation of Ebola Virus Inhibitors for Drug Repurposing. <i>ACS Infectious Diseases</i> , 2015, 1, 317-326.	3.8	209
7	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.	7.1	194
8	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.	3.4	153
9	Rational design of small molecules as vaccine adjuvants. <i>Science Translational Medicine</i> , 2014, 6, 263ra160.	12.4	153
10	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
11	Identification of small molecule inhibitors of anthrax lethal factor. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 67-72.	8.2	136
12	Dendritic Cells Endocytose <i>Bacillus anthracis</i> Spores: Implications for Anthrax Pathogenesis. <i>Journal of Immunology</i> , 2005, 174, 5545-5552.	0.8	117
13	Oncogene Amplification in Squamous Cell Carcinoma of the Oral Cavity. <i>Japanese Journal of Cancer Research</i> , 1989, 80, 430-437.	1.7	107
14	Discovery and Early Development of AVI-7537 and AVI-7288 for the Treatment of Ebola Virus and Marburg Virus Infections. <i>Viruses</i> , 2012, 4, 2806-2830.	3.3	105
15	Combinatorial RNA splicing alters the surface charge on the NMDA receptor. <i>FEBS Letters</i> , 1992, 305, 27-30.	2.8	102
16	Novel small molecule inhibitors of botulinum neurotoxin A metalloprotease activity. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 84-93.	2.1	98
17	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
18	Identification of a Small-Molecule Entry Inhibitor for Filoviruses. <i>Journal of Virology</i> , 2011, 85, 3106-3119.	3.4	98

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19	Novel Therapeutic Strategies to Selectively Kill Cancer Cells. <i>Biochemical Pharmacology</i> , 1998, 55, 247-252.	4.4	82
20	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
21	Identification of an antioxidant small-molecule with broad-spectrum antiviral activity. <i>Antiviral Research</i> , 2012, 93, 23-29.	4.1	76
22	Anthrax Biosensor, Protective Antigen Ion Channel Asymmetric Blockade. <i>Journal of Biological Chemistry</i> , 2005, 280, 34056-34062.	3.4	75
23	Tumor protease-activated, pore-forming toxins from a combinatorial library. <i>Nature Biotechnology</i> , 1996, 14, 852-856.	17.5	67
24	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
25	Mitigating the Impact of Antibacterial Drug Resistance through Host-Directed Therapies: Current Progress, Outlook, and Challenges. <i>MBio</i> , 2018, 9, .	4.1	59
26	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
27	Caged Catalytic Subunit of cAMP-Dependent Protein Kinase. <i>Journal of the American Chemical Society</i> , 1998, 120, 7661-7662.	13.7	57
28	Amplification and overexpression of epidermal growth factor receptor gene in human oropharyngeal cancer. <i>European Journal of Cancer Part B, Oral Oncology</i> , 1992, 28, 139-143.	0.9	56
29	Purified <i>Bacillus anthracis</i> Lethal Toxin Complex Formed in Vitro and during Infection Exhibits Functional and Biological Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 10834-10839.	3.4	54
30	<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
31	Development of High-Content Imaging Assays for Lethal Viral Pathogens. <i>Journal of Biomolecular Screening</i> , 2010, 15, 755-765.	2.6	52
32	Filovirus RefSeq Entries: Evaluation and Selection of Filovirus Type Variants, Type Sequences, and Names. <i>Viruses</i> , 2014, 6, 3663-3682.	3.3	49
33	A Chemotype That Inhibits Three Unrelated Pathogenic Targets: The Botulinum Neurotoxin Serotype A Light Chain, <i>P. falciparum</i> Malaria, and the Ebola Filovirus. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 1157-1169.	6.4	46
34	Functional Reconstitution of Protein Ion Channels into Planar Polymerizable Phospholipid Membranes. <i>Nano Letters</i> , 2005, 5, 1181-1185.	9.1	45
35	Novel Broad-Spectrum Bis-(Imidazolylindole) Derivatives with Potent Antibacterial Activities against Antibiotic-Resistant Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 4283-4291.	3.2	44
36	Analysis of Ebola virus and VLP release using an immunocapture assay. <i>Journal of Virological Methods</i> , 2005, 127, 1-9.	2.1	43

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37	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
38	Sizing the Bacillus anthracis PA63 Channel with Nonelectrolyte Poly(Ethylene Glycols). <i>Biophysical Journal</i> , 2008, 95, 1157-1164.	0.5	41
39	Pore formation is not associated with macroscopic redistribution of P2X7 receptors. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C77-C84.	4.6	40
40	Molecular mechanisms of filovirus cellular trafficking. <i>Microbes and Infection</i> , 2003, 5, 639-649.	1.9	39
41	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
42	Interactions between Residues in Staphylococcal α -Hemolysin Revealed by Reversion Mutagenesis. <i>Journal of Biological Chemistry</i> , 1995, 270, 23072-23076.	3.4	37
43	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
44	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
45	Partial Functional Correction of Xeroderma Pigmentosum Group A Cells by Suppressor tRNA. <i>Human Gene Therapy</i> , 1999, 10, 2209-2219.	2.7	30
46	Potent and broad-spectrum antibacterial activity of indole-based bisamidine antibiotics: Synthesis and SAR of novel analogs of MBX 1066 and MBX 1090. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 7790-7806.	3.0	28
47	High-throughput screen using a single-cell tyrosine phosphatase assay reveals biologically active inhibitors of tyrosine phosphatase CD45. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13972-13977.	7.1	27
48	Passive immunotherapy of Bacillus anthracis pulmonary infection in mice with antisera produced by DNA immunization. <i>Vaccine</i> , 2006, 24, 5872-5880.	3.8	26
49	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
50	Bacterial genome engineering and synthetic biology: combating pathogens. <i>BMC Microbiology</i> , 2016, 16, 258.	3.3	26
51	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
52	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.	2.8	22
53	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
54	Antisense treatments for biothreat agents. <i>Current Opinion in Molecular Therapeutics</i> , 2006, 8, 93-103.	2.8	19

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55	Anthrax toxin-induced rupture of artificial lipid bilayer membranes. <i>Journal of Chemical Physics</i> , 2013, 139, 065101.	3.0	18
56	Synthesis and antibacterial evaluation of new, unsymmetrical triaryl bisamidine compounds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3366-3372.	2.2	18
57	Efflux-mediated bis-indole resistance in <i>Staphylococcus aureus</i> reveals differential substrate specificities for MepA and MepR. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 2123-2130.	3.0	17
58	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.	4.6	16
59	High Content Image Based Analysis Identifies Cell Cycle Inhibitors as Regulators of Ebola Virus Infection. <i>Viruses</i> , 2012, 4, 1865-1877.	3.3	16
60	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
61	Robust biofilm assay for quantification and high throughput screening applications. <i>Journal of Microbiological Methods</i> , 2019, 159, 179-185.	1.6	16
62	Characterization of the <i>Burkholderia thailandensis</i> SOS Response by Using Whole-Transcriptome Shotgun Sequencing. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5830-5843.	3.1	15
63	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
64	Shedding Light on Filovirus Infection with High-Content Imaging. <i>Viruses</i> , 2012, 4, 1354-1371.	3.3	14
65	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
66	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
67	<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
68	Chemical Genetic Screening Identifies Critical Pathways in Anthrax Lethal Toxin-Induced Pathogenesis. <i>Chemistry and Biology</i> , 2007, 14, 245-255.	6.0	13
69	A Limited Structural Modification Results in a Significantly More Efficacious Diazachrysene-Based Filovirus Inhibitor. <i>Viruses</i> , 2012, 4, 1279-1288.	3.3	13
70	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
71	Induced IL-10 Splice Altering Approach to Antiviral Drug Discovery. <i>Nucleic Acid Therapeutics</i> , 2014, 24, 179-185.	3.6	12
72	Peptide Conjugated Phosphorodiamidate Morpholino Oligomers Increase Survival of Mice Challenged with Ames <i>Bacillus anthracis</i> . <i>Nucleic Acid Therapeutics</i> , 2012, 22, 316-322.	3.6	11

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73	A reverse-phase protein microarray-based screen identifies host signaling dynamics upon Burkholderia spp. infection. <i>Frontiers in Microbiology</i> , 2015, 6, 683.	3.5	11
74	Bioengineering of bacterial pathogens for noninvasive imaging and in vivo evaluation of therapeutics. <i>Scientific Reports</i> , 2018, 8, 12618.	3.3	11
75	Anti-Ebola Activity of Diazachrysene Small Molecules. <i>ACS Infectious Diseases</i> , 2015, 1, 264-271.	3.8	10
76	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
77	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
78	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
79	Integrating High-Content Imaging and Chemical Genetics to Probe Host Cellular Pathways Critical for <i>Yersinia Pestis</i> Infection. <i>PLoS ONE</i> , 2013, 8, e55167.	2.5	7
80	Bis-imidazolinyliindoles are active against methicillin-resistant <i>Staphylococcus aureus</i> and multidrug-resistant <i>Mycobacterium tuberculosis</i> . <i>Journal of Antibiotics</i> , 2013, 66, 47-49.	2.0	6
81	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
82	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
83	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
84	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
85	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.	1.9	4
86	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
87	A High Content Imaging Assay for Identification of Botulinum Neurotoxin Inhibitors. <i>Journal of Visualized Experiments</i> , 2014, , e51915.	0.3	3
88	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
89	Alveolar Macrophages Infected with Ames or Sterne Strain of <i>Bacillus anthracis</i> Elicit Differential Molecular Expression Patterns. <i>PLoS ONE</i> , 2014, 9, e87201.	2.5	2
90	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

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91	Proteomic Analysis of Non-human Primate Peripheral Blood Mononuclear Cells During Burkholderia mallei Infection Reveals a Role of Ezrin in Glanders Pathogenesis. <i>Frontiers in Microbiology</i> , 2021, 12, 625211.	3.5	1
92	A direct spectropolarimetric assay of arabinose 5-phosphate isomerase. <i>Analytical Biochemistry</i> , 2021, 622, 114116.	2.4	1
93	A Novel Toll-Like Receptor 2 Agonist Protects Mice in a Prophylactic Treatment Model Against Challenge With Bacillus anthracis. <i>Frontiers in Microbiology</i> , 2022, 13, 803041.	3.5	1
94	Combating biotreat pathogens: ongoing efforts for countermeasure development and unique challenges. , 2020, , 171-222.		0