

James M Rini

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

5,820
citations

172457

29
h-index

206112

48
g-index

55
all docs

55
docs citations

55
times ranked

10119
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistence of serum and saliva antibody responses to SARS-CoV-2 spike antigens in COVID-19 patients. <i>Science Immunology</i> , 2020, 5, .	11.9	714
2	Tim-3 expression defines a novel population of dysfunctional T cells with highly elevated frequencies in progressive HIV-1 infection. <i>Journal of Experimental Medicine</i> , 2008, 205, 2763-2779.	8.5	681
3	Structural basis of calcium-induced E-cadherin rigidification and dimerization. <i>Nature</i> , 1996, 380, 360-364.	27.8	660
4	X-ray Crystal Structure of the Human Galectin-3 Carbohydrate Recognition Domain at 2.1-Å... Resolution. <i>Journal of Biological Chemistry</i> , 1998, 273, 13047-13052.	3.4	372
5	Axonal Transport Enables Neuron-to-Neuron Propagation of Human Coronavirus OC43. <i>Journal of Virology</i> , 2018, 92, .	3.4	355
6	Structural and Thermodynamic Studies on Cation-π Interactions in Lectin-Ligand Complexes: High-Affinity Galectin-3 Inhibitors through Fine-Tuning of an Arginine-π Arene Interaction. <i>Journal of the American Chemical Society</i> , 2005, 127, 1737-1743.	13.7	231
7	Major antigen-induced domain rearrangements in an antibody. <i>Structure</i> , 1993, 1, 83-93.	3.3	216
8	X-ray Crystal Structure of C3d: A C3 Fragment and Ligand for Complement Receptor 2 . <i>Science</i> , 1998, 280, 1277-1281.	12.6	209
9	A simple protein-based surrogate neutralization assay for SARS-CoV-2. <i>JCI Insight</i> , 2020, 5, .	5.0	193
10	Detection of SARS-CoV-2 Viral Particles Using Direct, Reagent-Free Electrochemical Sensing. <i>Journal of the American Chemical Society</i> , 2021, 143, 1722-1727.	13.7	156
11	The human coronavirus HCoV-229E S-protein structure and receptor binding. <i>ELife</i> , 2019, 8, .	6.0	153
12	Systemic and mucosal IgA responses are variably induced in response to SARS-CoV-2 mRNA vaccination and are associated with protection against subsequent infection. <i>Mucosal Immunology</i> , 2022, 15, 799-808.	6.0	152
13	Comparative evaluation of two severe acute respiratory syndrome (SARS) vaccine candidates in mice challenged with SARS coronavirus. <i>Journal of General Virology</i> , 2006, 87, 641-650.	2.9	145
14	Simple piggyBac transposon-based mammalian cell expression system for inducible protein production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5004-5009.	7.1	128
15	The X-ray Crystal Structure of Human Aminopeptidase N Reveals a Novel Dimer and the Basis for Peptide Processing. <i>Journal of Biological Chemistry</i> , 2012, 287, 36804-36813.	3.4	119
16	N-glycans are direct determinants of CFTR folding and stability in secretory and endocytic membrane traffic. <i>Journal of Cell Biology</i> , 2009, 184, 847-862.	5.2	118
17	Neutralizing epitopes of the SARS-CoV S-protein cluster independent of repertoire, antigen structure or mAb technology. <i>MAbs</i> , 2010, 2, 53-66.	5.2	114
18	Detailed Analysis of the Free and Bound Conformations of an Antibody. <i>Journal of Molecular Biology</i> , 1993, 234, 1098-1118.	4.2	107

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19	Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112672.	10.1	100
20	Mutational Tuning of Galectin-3 Specificity and Biological Function. <i>Journal of Biological Chemistry</i> , 2010, 285, 35079-35091.	3.4	98
21	Receptor-binding loops in alphacoronavirus adaptation and evolution. <i>Nature Communications</i> , 2017, 8, 1735.	12.8	82
22	Recognition of EGF-like domains by the Notch-modifying O-fucosyltransferase POFUT1. <i>Nature Chemical Biology</i> , 2017, 13, 757-763.	8.0	62
23	X-ray Crystal Structure of Leukocyte Type Core 2 β 1,6-N-Acetylglucosaminyltransferase. <i>Journal of Biological Chemistry</i> , 2006, 281, 26693-26701.	3.4	61
24	Structural Insights into Immune Recognition of the Severe Acute Respiratory Syndrome Coronavirus S Protein Receptor Binding Domain. <i>Journal of Molecular Biology</i> , 2009, 388, 815-823.	4.2	56
25	X-ray Crystal Structures of Rabbit N-acetylglucosaminyltransferase I (GnT I) in Complex with Donor Substrate Analogues. <i>Journal of Molecular Biology</i> , 2006, 360, 67-79.	4.2	52
26	[7] X-ray crystallographic analysis of free and antigen-complexed Fab fragments to investigate structural basis of immune recognition. <i>Methods in Enzymology</i> , 1991, 203, 153-176.	1.0	41
27	Structural basis of Notch O-glycosylation and O α -xylosylation by mammalian protein α -O-glycosyltransferase 1 (POGLUT1). <i>Nature Communications</i> , 2017, 8, 185.	12.8	39
28	A homogeneous split-luciferase assay for rapid and sensitive detection of anti-SARS CoV-2 antibodies. <i>Nature Communications</i> , 2021, 12, 1806.	12.8	36
29	SPEEDS: A portable serological testing platform for rapid electrochemical detection of SARS-CoV-2 antibodies. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113762.	10.1	33
30	Tetravalent SARS-CoV-2 Neutralizing Antibodies Show Enhanced Potency and Resistance to Escape Mutations. <i>Journal of Molecular Biology</i> , 2021, 433, 167177.	4.2	31
31	Systematic Examination of Antigen-Specific Recall T Cell Responses to SARS-CoV-2 versus Influenza Virus Reveals a Distinct Inflammatory Profile. <i>Journal of Immunology</i> , 2021, 206, 37-50.	0.8	28
32	Galectin Structure.. <i>Trends in Glycoscience and Glycotechnology</i> , 1997, 9, 145-154.	0.1	27
33	The ZIP5 Ectodomain Co-Localizes with PrP and May Acquire a PrP-Like Fold That Assembles into a Dimer. <i>PLoS ONE</i> , 2013, 8, e72446.	2.5	23
34	Expansion of Dysfunctional Tim-3 α -Expressing Effector Memory CD8 $^+$ T Cells during Simian Immunodeficiency Virus Infection in Rhesus Macaques. <i>Journal of Immunology</i> , 2014, 193, 5576-5583.	0.8	23
35	Independent Lec1A CHO Glycosylation Mutants Arise from Point Mutations in N-Acetylglucosaminyltransferase I That Reduce Affinity for Both Substrates. Molecular Consequences Based on the Crystal Structure of GlcNAc-TI. <i>Biochemistry</i> , 2001, 40, 8765-8772.	2.5	22
36	Structural and Mechanistic Characterization of Leukocyte-Type Core 2 β 1,6-N-Acetylglucosaminyltransferase: A Metal-Ion-Independent GT-A Glycosyltransferase. <i>Journal of Molecular Biology</i> , 2011, 414, 798-811.	4.2	17

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37	Local acting S tickyâ€trap inhibits vascular endothelial growth factor dependent pathological angiogenesis in the eye. <i>EMBO Molecular Medicine</i> , 2014, 6, 604-623.	6.9	16
38	Intranasal HD-Ad vaccine protects the upper and lower respiratory tracts of hACE2 mice against SARS-CoV-2. <i>Cell and Bioscience</i> , 2021, 11, 202.	4.8	13
39	Persistence of T Cell and Antibody Responses to SARS-CoV-2 Up to 9 Months after Symptom Onset. <i>Journal of Immunology</i> , 2022, 208, 429-443.	0.8	12
40	Rapid and Facile Recombinant Expression of Bovine Rhodopsin in HEK293S GnTIâ€ Cells Using a PiggyBac Inducible System. <i>Methods in Enzymology</i> , 2015, 556, 307-330.	1.0	11
41	Crystallization and Preliminary X-ray Diffraction Analysis of the Human Dimeric S-Lac Lectin (L-14-II). <i>Journal of Molecular Biology</i> , 1993, 233, 553-555.	4.2	10
42	Xâ€ray Crystal Structure Determination of Mammalian Glycosyltransferases. <i>Methods in Enzymology</i> , 2006, 416, 30-48.	1.0	9
43	Exploiting the diphtheria toxin internalization receptor enhances delivery of proteins to lysosomes for enzyme replacement therapy. <i>Science Advances</i> , 2020, 6, .	10.3	6
44	SARS-CoV-2â€Reactive Mucosal B Cells in the Upper Respiratory Tract of Uninfected Individuals. <i>Journal of Immunology</i> , 2021, 207, 2581-2588.	0.8	5
45	Re-examining the proposed lectin properties of IL-2. <i>Molecular Immunology</i> , 2008, 45, 1241-1247.	2.2	4
46	Convergent CDR3 homology amongst Spike-specific antibody responses in convalescent COVID-19 subjects receiving the BNT162b2 vaccine. <i>Clinical Immunology</i> , 2022, 237, 108963.	3.2	4
47	Trimeric HIV-1 gp140 fused with APRIL, BAFF, and CD40L on the mucosal gp140-specific antibody responses in mice. <i>Vaccine</i> , 2020, 38, 2149-2159.	3.8	3
48	Detection and Neutralization of SARS-CoV-2 Using Non-conventional Variable Lymphocyte Receptor Antibodies of the Evolutionarily Distant Sea Lamprey. <i>Frontiers in Immunology</i> , 2021, 12, 659071.	4.8	2