

# James M Rini

## List of Publications by Citations

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52  
papers

4,266  
citations

27  
h-index

55  
g-index

55  
ext. papers

5,178  
ext. citations

9.6  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
52	Structural basis of calcium-induced E-cadherin rigidification and dimerization. <i>Nature</i> , <b>1996</b> , 380, 360-4	50.4	591
51	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> , <b>2008</b> , 205, 2763-79	16.6	557
50	Persistence of serum and saliva antibody responses to SARS-CoV-2 spike antigens in COVID-19 patients. <i>Science Immunology</i> , <b>2020</b> , 5,	28	396
49	X-ray crystal structure of the human galectin-3 carbohydrate recognition domain at 2.1-A resolution. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 13047-52	5.4	315
48	Axonal Transport Enables Neuron-to-Neuron Propagation of Human Coronavirus OC43. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	259
47	Structural and thermodynamic studies on cation- $\pi$ interactions in lectin-ligand complexes: high-affinity galectin-3 inhibitors through fine-tuning of an arginine-arene interaction. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 1737-43	16.4	212
46	Major antigen-induced domain rearrangements in an antibody. <i>Structure</i> , <b>1993</b> , 1, 83-93	5.2	201
45	X-ray crystal structure of C3d: a C3 fragment and ligand for complement receptor 2. <i>Science</i> , <b>1998</b> , 280, 1277-81	33.3	167
44	Comparative evaluation of two severe acute respiratory syndrome (SARS) vaccine candidates in mice challenged with SARS coronavirus. <i>Journal of General Virology</i> , <b>2006</b> , 87, 641-650	4.9	116
43	N-glycans are direct determinants of CFTR folding and stability in secretory and endocytic membrane traffic. <i>Journal of Cell Biology</i> , <b>2009</b> , 184, 847-62	7.3	110
42	The human coronavirus HCoV-229E S-protein structure and receptor binding. <i>ELife</i> , <b>2019</b> , 8,	8.9	106
41	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> , <b>2012</b> , 287, 36804-13	5.4	99
40	Detailed analysis of the free and bound conformations of an antibody. X-ray structures of Fab 17/9 and three different Fab-peptide complexes. <i>Journal of Molecular Biology</i> , <b>1993</b> , 234, 1098-118	6.5	97
39	A simple protein-based surrogate neutralization assay for SARS-CoV-2. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	95
38	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> , <b>2013</b> , 110, 5004-9	11.5	94
37	Neutralizing epitopes of the SARS-CoV S-protein cluster independent of repertoire, antigen structure or mAb technology. <i>MAbs</i> , <b>2010</b> , 2, 53-66	6.6	93
36	Mutational tuning of galectin-3 specificity and biological function. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 35079-91	5.4	75

35	Detection of SARS-CoV-2 Viral Particles Using Direct, Reagent-Free Electrochemical Sensing. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 1722-1727	16.4	70
34	Receptor-binding loops in alphacoronavirus adaptation and evolution. <i>Nature Communications</i> , <b>2017</b> , 8, 1735	17.4	60
33	X-ray crystal structure of leukocyte type core 2 beta1,6-N-acetylglucosaminyltransferase. Evidence for a convergence of metal ion-independent glycosyltransferase mechanism. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 26693-701	5.4	55
32	Structural insights into immune recognition of the severe acute respiratory syndrome coronavirus S protein receptor binding domain. <i>Journal of Molecular Biology</i> , <b>2009</b> , 388, 815-23	6.5	53
31	X-ray crystal structures of rabbit N-acetylglucosaminyltransferase I (GnT I) in complex with donor substrate analogues. <i>Journal of Molecular Biology</i> , <b>2006</b> , 360, 67-79	6.5	47
30	Recognition of EGF-like domains by the Notch-modifying O-fucosyltransferase POFUT1. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 757-763	11.7	42
29	X-ray crystallographic analysis of free and antigen-complexed Fab fragments to investigate structural basis of immune recognition. <i>Methods in Enzymology</i> , <b>1991</b> , 203, 153-76	1.7	37
28	Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 177, 112672	11.8	37
27	Mucosal versus systemic antibody responses to SARS-CoV-2 antigens in COVID-19 patients		30
26	Structural basis of Notch O-glycosylation and O-xylosylation by mammalian protein-O-glycosyltransferase 1 (POGLUT1). <i>Nature Communications</i> , <b>2017</b> , 8, 185	17.4	27
25	Galectin Structure.. <i>Trends in Glycoscience and Glycotechnology</i> , <b>1997</b> , 9, 145-154	0.1	24
24	Expansion of dysfunctional Tim-3-expressing effector memory CD8+ T cells during simian immunodeficiency virus infection in rhesus macaques. <i>Journal of Immunology</i> , <b>2014</b> , 193, 5576-83	5.3	21
23	The ZIP5 ectodomain co-localizes with PrP and may acquire a PrP-like fold that assembles into a dimer. <i>PLoS ONE</i> , <b>2013</b> , 8, e72446	3.7	19
22	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> , <b>2001</b> , 40, 8765-72	3.2	19
21	Structural and mechanistic characterization of leukocyte-type core 2 beta1,6-N-acetylglucosaminyltransferase: a metal-ion-independent GT-A glycosyltransferase. <i>Journal of Molecular Biology</i> , <b>2011</b> , 414, 798-811	6.5	16
20	A homogeneous split-luciferase assay for rapid and sensitive detection of anti-SARS CoV-2 antibodies. <i>Nature Communications</i> , <b>2021</b> , 12, 1806	17.4	14
19	Local acting Sticky-trap inhibits vascular endothelial growth factor dependent pathological angiogenesis in the eye. <i>EMBO Molecular Medicine</i> , <b>2014</b> , 6, 604-23	12	13
18	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> , <b>2021</b> , 206, 37-50	5.3	12

17	A mucosal antibody response is induced by intra-muscular SARS-CoV-2 mRNA vaccination		10
16	Tetravalent SARS-CoV-2 Neutralizing Antibodies Show Enhanced Potency and Resistance to Escape Mutations. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 167177	6.5	10
15	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> , <b>2022</b> ,	9.2	10
14	X-ray crystal structure determination of mammalian glycosyltransferases. <i>Methods in Enzymology</i> , <b>2006</b> , 416, 30-48	1.7	9
13	Rapid and facile recombinant expression of bovine rhodopsin in HEK293S GnTI(-) cells using a PiggyBac inducible system. <i>Methods in Enzymology</i> , <b>2015</b> , 556, 307-30	1.7	8
12	Synthetic antibodies neutralize SARS-CoV-2 infection of mammalian cells		8
11	Crystallization and preliminary X-ray diffraction analysis of the human dimeric S-Lac lectin (L-14-II). <i>Journal of Molecular Biology</i> , <b>1993</b> , 233, 553-5	6.5	6
10	Intranasal HD-Ad vaccine protects the upper and lower respiratory tracts of hACE2 mice against SARS-CoV-2. <i>Cell and Bioscience</i> , <b>2021</b> , 11, 202	9.8	4
9	SPEEDS: A portable serological testing platform for rapid electrochemical detection of SARS-CoV-2 antibodies. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 197, 113762	11.8	4
8	Trimeric HIV-1 gp140 fused with APRIL, BAFF, and CD40L on the mucosal gp140-specific antibody responses in mice. <i>Vaccine</i> , <b>2020</b> , 38, 2149-2159	4.1	3
7	Re-examining the proposed lectin properties of IL-2. <i>Molecular Immunology</i> , <b>2008</b> , 45, 1241-7	4.3	3
6	Exploiting the diphtheria toxin internalization receptor enhances delivery of proteins to lysosomes for enzyme replacement therapy. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	3
5	A simple protein-based surrogate neutralization assay for SARS-CoV-2		3
4	SARS-CoV-2-Reactive Mucosal B Cells in the Upper Respiratory Tract of Uninfected Individuals. <i>Journal of Immunology</i> , <b>2021</b> , 207, 2581-2588	5.3	1
3	Intranasal HD-Ad Vaccine Protects the Upper and Lower Respiratory Tracts of hACE2 Mice against SARS-CoV-2		1
2	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> , <b>2021</b> , 12, 659071	8.4	1
1	Convergent CDR3 homology amongst Spike-specific antibody responses in convalescent COVID-19 subjects receiving the BNT162b2 vaccine.. <i>Clinical Immunology</i> , <b>2022</b> , 108963	9	0