

Ryan McBride

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

2,900
citations

29
h-index

53
g-index

55
ext. papers

3,423
ext. citations

12.5
avg, IF

4.68
L-index

#	Paper	IF	Citations
53	Broadly neutralizing HIV antibodies define a glycan-dependent epitope on the prefusion conformation of gp41 on cleaved envelope trimers. <i>Immunity</i> , 2014 , 40, 657-68	32.3	286
52	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8508-E8517	11.5	216
51	Microbial glycan microarrays define key features of host-microbial interactions. <i>Nature Chemical Biology</i> , 2014 , 10, 470-6	11.7	156
50	Structural evolution of glycan recognition by a family of potent HIV antibodies. <i>Cell</i> , 2014 , 159, 69-79	56.2	147
49	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic Hairpin Structure. <i>Immunity</i> , 2017 , 46, 690-702	32.3	146
48	A structural explanation for the low effectiveness of the seasonal influenza H3N2 vaccine. <i>PLoS Pathogens</i> , 2017 , 13, e1006682	7.6	143
47	Functional balance of the hemagglutinin and neuraminidase activities accompanies the emergence of the 2009 H1N1 influenza pandemic. <i>Journal of Virology</i> , 2012 , 86, 9221-32	6.6	130
46	Preferential recognition of avian-like receptors in human influenza A H7N9 viruses. <i>Science</i> , 2013 , 342, 1230-5	33.3	124
45	Recent H3N2 Viruses Have Evolved Specificity for Extended, Branched Human-type Receptors, Conferring Potential for Increased Avidity. <i>Cell Host and Microbe</i> , 2017 , 21, 23-34	23.4	121
44	A Highly Pathogenic Avian H7N9 Influenza Virus Isolated from A Human Is Lethal in Some Ferrets Infected via Respiratory Droplets. <i>Cell Host and Microbe</i> , 2017 , 22, 615-626.e8	23.4	101
43	Influenza virus neuraminidases with reduced enzymatic activity that avidly bind sialic Acid receptors. <i>Journal of Virology</i> , 2012 , 86, 13371-83	6.6	97
42	Recognition of microbial glycans by human intelectin-1. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 603-10	17.6	96
41	Structure, receptor binding, and antigenicity of influenza virus hemagglutinins from the 1957 H2N2 pandemic. <i>Journal of Virology</i> , 2010 , 84, 1715-21	6.6	85
40	Mammalian adaptation of influenza A(H7N9) virus is limited by a narrow genetic bottleneck. <i>Nature Communications</i> , 2015 , 6, 6553	17.4	70
39	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , 2017 , 13, e1006390	7.6	65
38	Kinetic analysis of the influenza A virus HA/NA balance reveals contribution of NA to virus-receptor binding and NA-dependent rolling on receptor-containing surfaces. <i>PLoS Pathogens</i> , 2018 , 14, e1007233	7.6	61
37	Disubstituted Sialic Acid Ligands Targeting Siglecs CD33 and CD22 Associated with Myeloid Leukaemias and B Cell Lymphomas. <i>Chemical Science</i> , 2014 , 5, 2398-2406	9.4	60

36	Circulating avian influenza viruses closely related to the 1918 virus have pandemic potential. <i>Cell Host and Microbe</i> , 2014 , 15, 692-705	23.4	56
35	A human-infecting H10N8 influenza virus retains a strong preference for avian-type receptors. <i>Cell Host and Microbe</i> , 2015 , 17, 377-384	23.4	48
34	Synthesis of biologically active N- and O-linked glycans with multisialylated poly-N-acetyllactosamine extensions using P. damsela α -6 sialyltransferase. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18280-18283	16.4	48
33	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016 , 26, 907-910	5.8	44
32	Structure and receptor binding of the hemagglutinin from a human H6N1 influenza virus. <i>Cell Host and Microbe</i> , 2015 , 17, 369-376	23.4	35
31	Mutation of the Second Sialic Acid-Binding Site, Resulting in Reduced Neuraminidase Activity, Preceded the Emergence of H7N9 Influenza A Virus. <i>Journal of Virology</i> , 2017 , 91,	6.6	33
30	Evolution of the hemagglutinin protein of the new pandemic H1N1 influenza virus: maintaining optimal receptor binding by compensatory substitutions. <i>Journal of Virology</i> , 2013 , 87, 13868-77	6.6	33
29	Amino acid residues at positions 222 and 227 of the hemagglutinin together with the neuraminidase determine binding of H5 avian influenza viruses to sialyl Lewis X. <i>Archives of Virology</i> , 2016 , 161, 307-16	2.6	32
28	Sialylated keratan sulfate proteoglycans are Siglec-8 ligands in human airways. <i>Glycobiology</i> , 2018 , 28, 786-801	5.8	30
27	A single mutation in Taiwanese H6N1 influenza hemagglutinin switches binding to human-type receptors. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1314-1325	12	30
26	Structural Basis of Protection against H7N9 Influenza Virus by Human Anti-N9 Neuraminidase Antibodies. <i>Cell Host and Microbe</i> , 2019 , 26, 729-738.e4	23.4	29
25	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. <i>Cell Reports</i> , 2017 , 19, 235-245	23.4	27
24	Preventing an Antigenically Disruptive Mutation in Egg-Based H3N2 Seasonal Influenza Vaccines by Mutational Incompatibility. <i>Cell Host and Microbe</i> , 2019 , 25, 836-844.e5	23.4	27
23	Probing the binding specificities of human Siglecs by cell-based glycan arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	26
22	Bacterial Polysaccharide Specificity of the Pattern Recognition Receptor Langerin Is Highly Species-dependent. <i>Journal of Biological Chemistry</i> , 2017 , 292, 862-871	5.4	25
21	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. <i>Journal of Molecular Biology</i> , 2019 , 431, 842-856	6.5	24
20	A Sulfonamide Sialoside Analogue for Targeting Siglec-8 and -F on Immune Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14032-14037	16.4	23
19	In vivo tropism of Salmonella Typhi toxin to cells expressing a multiantennal glycan receptor. <i>Nature Microbiology</i> , 2018 , 3, 155-163	26.6	23

18	Identification of Stabilizing Mutations in an H5 Hemagglutinin Influenza Virus Protein. <i>Journal of Virology</i> , 2015 , 90, 2981-92	6.6	20
17	Antibody Responses to Immunization With HCV Envelope Glycoproteins as a Baseline for B-Cell-Based Vaccine Development. <i>Gastroenterology</i> , 2020 , 158, 1058-1071.e6	13.3	18
16	Click and Pick: Identification of Sialoside Analogues for Siglec-Based Cell Targeting. <i>Angewandte Chemie</i> , 2012 , 124, 11176-11180	3.6	16
15	Enhanced Human-Type Receptor Binding by Ferret-Transmissible H5N1 with a K193T Mutation. <i>Journal of Virology</i> , 2018 , 92,	6.6	13
14	Human Influenza Virus Hemagglutinins Contain Conserved Oligomannose N-Linked Glycans Allowing Potent Neutralization by Lectins. <i>Cell Host and Microbe</i> , 2020 , 27, 725-735.e5	23.4	12
13	Unique Structural Features of Influenza Virus H15 Hemagglutinin. <i>Journal of Virology</i> , 2017 , 91,	6.6	11
12	Hemagglutinin Traits Determine Transmission of Avian A/H10N7 Influenza Virus between Mammals. <i>Cell Host and Microbe</i> , 2020 , 28, 602-613.e7	23.4	11
11	Optimization of peptide arrays for studying antibodies to hepatitis C virus continuous epitopes. <i>Journal of Immunological Methods</i> , 2014 , 402, 35-42	2.5	10
10	Potential for Low-Pathogenic Avian H7 Influenza A Viruses To Replicate and Cause Disease in a Mammalian Model. <i>Journal of Virology</i> , 2017 , 91,	6.6	10
9	Low-Cost Peptide Microarrays for Mapping Continuous Antibody Epitopes. <i>Methods in Molecular Biology</i> , 2016 , 1352, 67-83	1.4	9
8	A Miniaturized Glycan Microarray Assay for Assessing Avidity and Specificity of Influenza A Virus Hemagglutinins. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	9
7	Changes to the dynamic nature of hemagglutinin and the emergence of the 2009 pandemic H1N1 influenza virus. <i>Scientific Reports</i> , 2015 , 5, 12828	4.9	7
6	E190V substitution of H6 hemagglutinin is one of key factors for binding to sulfated sialylated glycan receptor and infection to chickens. <i>Microbiology and Immunology</i> , 2020 , 64, 304-312	2.7	4
5	Recognition of Sialylated Poly-N-acetyllactosamine Chains on N- and O-Linked Glycans by Human and Avian Influenza A Virus Hemagglutinins. <i>Angewandte Chemie</i> , 2012 , 124, 4944-4947	3.6	4
4	Phenotypic Effects of Substitutions within the Receptor Binding Site of Highly Pathogenic Avian Influenza H5N1 Virus Observed during Human Infection. <i>Journal of Virology</i> , 2020 , 94,	6.6	3
3	Recognition of Sialylated Poly-N-acetyllactosamine Chains on N- and O-Linked Glycans by Human and Avian Influenza A Virus Hemagglutinins 2012 , 51, 4860		1
2	Structural Evolution of HIV-1 gp120 Glycan Recognition by the PGT121 Lineage of Potent Broadly Neutralizing Antibodies. <i>AIDS Research and Human Retroviruses</i> , 2014 , 30, A66-A66	1.6	
1	Charge Characteristics of Agouti-Related Protein Implicate Potent Involvement of Heparan Sulfate Proteoglycans in Metabolic Function. <i>IScience</i> , 2019 , 22, 557-570	6.1	

