Ryan McBride

List of Publications by Year in Descending Order

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	Probing the binding specificities of human Siglecs by cell-based glycan arrays. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	26
52	Phenotypic Effects of Substitutions within the Receptor Binding Site of Highly Pathogenic Avian Influenza H5N1 Virus Observed during Human Infection. *Journal of Virology*, **2020**, 94,	6.6	3
51	E190V substitution of H6 hemagglutinin is one of key factors for binding to sulfated sialylated glycan receptor and infection to chickens. *Microbiology and Immunology*, **2020**, 64, 304-312	2.7	4
50	Antibody Responses to Immunization With HCV Envelope Glycoproteins as a Baseline for B-Cell-Based Vaccine Development. *Gastroenterology*, **2020**, 158, 1058-1071.e6	13.3	18
49	Hemagglutinin Traits Determine Transmission of Avian A/H10N7 Influenza Virus between Mammals. *Cell Host and Microbe*, **2020**, 28, 602-613.e7	23.4	11
48	Human Influenza Virus Hemagglutinins Contain Conserved Oligomannose N-Linked Glycans Allowing Potent Neutralization by Lectins. *Cell Host and Microbe*, **2020**, 27, 725-735.e5	23.4	12
47	A Sulfonamide Sialoside Analogue for Targeting Siglec-8 and -F on Immune Cells. *Journal of the American Chemical Society*, **2019**, 141, 14032-14037	16.4	23
46	Preventing an Antigenically Disruptive Mutation in Egg-Based H3N2 Seasonal Influenza Vaccines by Mutational Incompatibility. *Cell Host and Microbe*, **2019**, 25, 836-844.e5	23.4	27
45	Charge Characteristics of Agouti-Related Protein Implicate Potent Involvement of Heparan Sulfate Proteoglycans in Metabolic Function. *IScience*, **2019**, 22, 557-570	6.1	
44	Structural Basis of Protection against H7N9 Influenza Virus by Human Anti-N9 Neuraminidase Antibodies. *Cell Host and Microbe*, **2019**, 26, 729-738.e4	23.4	29
43	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. *Journal of Molecular Biology*, **2019**, 431, 842-856	6.5	24
42	Enhanced Human-Type Receptor Binding by Ferret-Transmissible H5N1 with a K193T Mutation. *Journal of Virology*, **2018**, 92,	6.6	13
41	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. *PLoS Pathogens*, **2018**, 14, e1007233	7.6	61
40	Sialylated keratan sulfate proteoglycans are Siglec-8 ligands in human airways. *Glycobiology*, **2018**, 28, 786-801	5.8	30
39	In vivo tropism of Salmonella Typhi toxin to cells expressing a multiantennal glycan receptor. *Nature Microbiology*, **2018**, 3, 155-163	26.6	23
38	Bacterial Polysaccharide Specificity of the Pattern Recognition Receptor Langerin Is Highly Species-dependent. *Journal of Biological Chemistry*, **2017**, 292, 862-871	5.4	25
37	Mutation of the Second Sialic Acid-Binding Site, Resulting in Reduced Neuraminidase Activity, Preceded the Emergence of H7N9 Influenza A Virus. *Journal of Virology*, **2017**, 91,	6.6	33

36	Unique Structural Features of Influenza Virus H15 Hemagglutinin. *Journal of Virology*, **2017**, 91,	6.6	11
35	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. *Cell Reports*, **2017**, 19, 235-245	8.3	27
34	A Broadly Neutralizing Antibody Targets the Dynamic HIV Envelope Trimer Apex via a Long, Rigidified, and Anionic β-Hairpin Structure. *Immunity*, **2017**, 46, 690-702	32.3	146
33	Recent H3N2 Viruses Have Evolved Specificity for Extended, Branched Human-type Receptors, Conferring Potential for Increased Avidity. *Cell Host and Microbe*, **2017**, 21, 23-34	23.4	121
32	A Highly Pathogenic Avian H7N9 Influenza Virus Isolated from A Human Is Lethal in Some Ferrets Infected via Respiratory Droplets. *Cell Host and Microbe*, **2017**, 22, 615-626.e8	23.4	101
31	Three mutations switch H7N9 influenza to human-type receptor specificity. *PLoS Pathogens*, **2017**, 13, e1006390	7.6	65
30	A structural explanation for the low effectiveness of the seasonal influenza H3N2 vaccine. *PLoS Pathogens*, **2017**, 13, e1006682	7.6	143
29	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8508-E8517	11.5	216
28	A single mutation in Taiwanese H6N1 influenza hemagglutinin switches binding to human-type receptors. *EMBO Molecular Medicine*, **2017**, 9, 1314-1325	12	30
27	Potential for Low-Pathogenic Avian H7 Influenza A Viruses To Replicate and Cause Disease in a Mammalian Model. *Journal of Virology*, **2017**, 91,	6.6	10
26	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. *Archives of Virology* , **2016**, 161, 307-16	2.6	32
25	Low-Cost Peptide Microarrays for Mapping Continuous Antibody Epitopes. *Methods in Molecular Biology*, **2016**, 1352, 67-83	1.4	9
24	A Miniaturized Glycan Microarray Assay for Assessing Avidity and Specificity of Influenza A Virus Hemagglutinins. *Journal of Visualized Experiments*, **2016**,	1.6	9
23	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. *Glycobiology*, **2016**, 26, 907-910	5.8	44
22	Recognition of microbial glycans by human intelectin-1. *Nature Structural and Molecular Biology*, **2015**, 22, 603-10	17.6	96
21	Mammalian adaptation of influenza A(H7N9) virus is limited by a narrow genetic bottleneck. *Nature Communications*, **2015**, 6, 6553	17.4	70
20	A human-infecting H10N8 influenza virus retains a strong preference for avian-type receptors. *Cell Host and Microbe*, **2015**, 17, 377-384	23.4	48
19	Structure and receptor binding of the hemagglutinin from a human H6N1 influenza virus. *Cell Host and Microbe*, **2015**, 17, 369-376	23.4	35

18	Identification of Stabilizing Mutations in an H5 Hemagglutinin Influenza Virus Protein. *Journal of Virology*, **2015**, 90, 2981-92	6.6	20
17	Changes to the dynamic nature of hemagglutinin and the emergence of the 2009 pandemic H1N1 influenza virus. *Scientific Reports*, **2015**, 5, 12828	4.9	7
16	Optimization of peptide arrays for studying antibodies to hepatitis C virus continuous epitopes. *Journal of Immunological Methods*, **2014**, 402, 35-42	2.5	10
15	Microbial glycan microarrays define key features of host-microbial interactions. *Nature Chemical Biology*, **2014**, 10, 470-6	11.7	156
14	Structural Evolution of HIV-1 gp120 Glycan Recognition by the PGT121 Lineage of Potent Broadly Neutralizing Antibodies. *AIDS Research and Human Retroviruses*, **2014**, 30, A66-A66	1.6	
13	Structural evolution of glycan recognition by a family of potent HIV antibodies. *Cell*, **2014**, 159, 69-79	56.2	147
12	Disubstituted Sialic Acid Ligands Targeting Siglecs CD33 and CD22 Associated with Myeloid Leukaemias and B Cell Lymphomas. *Chemical Science*, **2014**, 5, 2398-2406	9.4	60
11	Circulating avian influenza viruses closely related to the 1918 virus have pandemic potential. *Cell Host and Microbe*, **2014**, 15, 692-705	23.4	56
10	Broadly neutralizing HIV antibodies define a glycan-dependent epitope on the prefusion conformation of gp41 on cleaved envelope trimers. *Immunity*, **2014**, 40, 657-68	32.3	286
9	Preferential recognition of avian-like receptors in human influenza A H7N9 viruses. *Science*, **2013**, 342, 1230-5	33.3	124
8	Evolution of the hemagglutinin protein of the new pandemic H1N1 influenza virus: maintaining optimal receptor binding by compensatory substitutions. *Journal of Virology*, **2013**, 87, 13868-77	6.6	33
7	Synthesis of biologically active N- and O-linked glycans with multisialylated poly-N-acetyllactosamine extensions using P. damsela α-6 sialyltransferase. *Journal of the American Chemical Society*, **2013**, 135, 18280-18283	16.4	48
6	Click and Pick: Identification of Sialoside Analogues for Siglec-Based Cell Targeting. *Angewandte Chemie*, **2012**, 124, 11176-11180	3.6	16
5	Influenza virus neuraminidases with reduced enzymatic activity that avidly bind sialic Acid receptors. *Journal of Virology*, **2012**, 86, 13371-83	6.6	97
4	Recognition of Sialylated Poly-N-acetyllactosamine Chains on N- and O-Linked Glycans by Human and Avian Influenza A Virus Hemagglutinins. *Angewandte Chemie*, **2012**, 124, 4944-4947	3.6	4
3	Functional balance of the hemagglutinin and neuraminidase activities accompanies the emergence of the 2009 H1N1 influenza pandemic. *Journal of Virology*, **2012**, 86, 9221-32	6.6	130
2	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
1	Structure, receptor binding, and antigenicity of influenza virus hemagglutinins from the 1957 H2N2 pandemic. *Journal of Virology*, **2010**, 84, 1715-21	6.6	85