

Robert P De Vries

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.

60
papers

2,278
citations

26
h-index

47
g-index

63
ext. papers

2,765
ext. citations

10
avg, IF

4.84
L-index

#	Paper	IF	Citations
60	Characterization of H7N9 influenza A viruses isolated from humans. <i>Nature</i> , 2013 , 501, 551-5	50.4	321
59	A general strategy for the chemoenzymatic synthesis of asymmetrically branched N-glycans. <i>Science</i> , 2013 , 341, 379-83	33.3	249
58	Binding of avian coronavirus spike proteins to host factors reflects virus tropism and pathogenicity. <i>Journal of Virology</i> , 2011 , 85, 8903-12	6.6	130
57	Preferential recognition of avian-like receptors in human influenza A H7N9 viruses. <i>Science</i> , 2013 , 342, 1230-5	33.3	124
56	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
55	The influenza A virus hemagglutinin glycosylation state affects receptor-binding specificity. <i>Virology</i> , 2010 , 403, 17-25	3.6	89
54	Recombinant soluble, multimeric HA and NA exhibit distinctive types of protection against pandemic swine-origin 2009 A(H1N1) influenza virus infection in ferrets. <i>Journal of Virology</i> , 2010 , 84, 10366-74	6.6	80
53	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , 2017 , 13, e1006390	7.6	65
52	Virus recognition of glycan receptors. <i>Current Opinion in Virology</i> , 2019 , 34, 117-129	7.5	62
51	A single immunization with soluble recombinant trimeric hemagglutinin protects chickens against highly pathogenic avian influenza virus H5N1. <i>PLoS ONE</i> , 2010 , 5, e10645	3.7	59
50	Hemagglutinin receptor specificity and structural analyses of respiratory droplet-transmissible H5N1 viruses. <i>Journal of Virology</i> , 2014 , 88, 768-73	6.6	54
49	Only two residues are responsible for the dramatic difference in receptor binding between swine and new pandemic H1 hemagglutinin. <i>Journal of Biological Chemistry</i> , 2011 , 286, 5868-75	5.4	53
48	Glycan-dependent immunogenicity of recombinant soluble trimeric hemagglutinin. <i>Journal of Virology</i> , 2012 , 86, 11735-44	6.6	52
47	Influenza A virus entry into cells lacking sialylated N-glycans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7457-62	11.5	52
46	H5N1 receptor specificity as a factor in pandemic risk. <i>Virus Research</i> , 2013 , 178, 99-113	6.4	50
45	N-Glycolylneuraminic Acid as a Receptor for Influenza A Viruses. <i>Cell Reports</i> , 2019 , 27, 3284-3294.e6	10.6	49
44	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

43	Synthesis of biologically active N- and O-linked glycans with multisialylated poly-N-acetylglucosamine extensions using P. damsela 2-6 sialyltransferase. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18280-18283	16.4	48
42	Glycosylation of the viral attachment protein of avian coronavirus is essential for host cell and receptor binding. <i>Journal of Biological Chemistry</i> , 2019 , 294, 7797-7809	5.4	44
41	Heparan Sulfate Proteoglycans as Attachment Factor for SARS-CoV-2. <i>ACS Central Science</i> , 2021 , 7, 1009-1018	10.8	36
40	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
39	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
38	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. <i>Nature Chemical Biology</i> , 2021 ,	11.7	33
37	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
36	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
35	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. <i>Cell Reports</i> , 2017 , 19, 235-245	2.5	27
34	Novel Receptor Specificity of Avian Gammacoronaviruses That Cause Enteritis. <i>Journal of Virology</i> , 2015 , 89, 8783-92	6.6	26
33	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. <i>Journal of Molecular Biology</i> , 2019 , 431, 842-856	6.5	24
32	A stabilized HIV-1 envelope glycoprotein trimer fused to CD40 ligand targets and activates dendritic cells. <i>Retrovirology</i> , 2011 , 8, 48	3.6	23
31	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins. <i>PLoS Pathogens</i> , 2021 , 17, e1009282	7.6	23
30	Protective efficacy of Newcastle disease virus expressing soluble trimeric hemagglutinin against highly pathogenic H5N1 influenza in chickens and mice. <i>PLoS ONE</i> , 2012 , 7, e44447	3.7	20
29	Three Amino Acid Changes in Avian Coronavirus Spike Protein Allow Binding to Kidney Tissue. <i>Journal of Virology</i> , 2020 , 94,	6.6	18
28	Enhanced Inhibition of Influenza A Virus Adhesion by Di- and Trivalent Hemagglutinin Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 6398-6404	8.3	16
27	Glycosylation Characterization of an Influenza H5N7 Hemagglutinin Series with Engineered Glycosylation Patterns: Implications for Structure-Function Relationships. <i>Journal of Proteome Research</i> , 2017 , 16, 398-412	5.6	16
26	Protecting-Group-Controlled Enzymatic Glycosylation of Oligo-N-Acetylglucosamine Derivatives. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10547-10552	16.4	14

25	Enhanced Human-Type Receptor Binding by Ferret-Transmissible H5N1 with a K193T Mutation. <i>Journal of Virology</i> , 2018 , 92,	6.6	13
24	Guinea Fowl Coronavirus Diversity Has Phenotypic Consequences for Glycan and Tissue Binding. <i>Journal of Virology</i> , 2019 , 93,	6.6	12
23	Hierarchical Multivalent Effects Control Influenza Host Specificity. <i>ACS Central Science</i> , 2020 , 6, 2311-2318.	18.8	12
22	Host tissue and glycan binding specificities of avian viral attachment proteins using novel avian tissue microarrays. <i>PLoS ONE</i> , 2015 , 10, e0128893	3.7	9
21	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
20	Characterization of human FDCs reveals regulation of T cells and antigen presentation to B cells. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	9
19	Liposome-targeted recombinant human acid sphingomyelinase: Production, formulation, and in vitro evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 137, 185-195	5.7	8
18	The Microbiota Contributes to the Control of Highly Pathogenic H5N9 Influenza Virus Replication in Ducks. <i>Journal of Virology</i> , 2020 , 94,	6.6	7
17	Influenza Virus Hemagglutinins H2, H5, H6, and H11 Are Not Targets of Pulmonary Surfactant Protein D: -Glycan Subtypes in Host-Pathogen Interactions. <i>Journal of Virology</i> , 2020 , 94,	6.6	6
16	Sialic acid-Dependent Binding and Viral Entry of SARS-CoV-2		6
15	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
14	Drivers of recombinant soluble influenza A virus hemagglutinin and neuraminidase expression in mammalian cells. <i>Protein Science</i> , 2020 , 29, 1975-1982	6.3	4
13	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
12	N-Glycolylneuraminic Acid in Animal Models for Human Influenza A Virus. <i>Viruses</i> , 2021 , 13,	6.2	3
11	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins		2
10	Tissue Microarrays to Visualize Influenza D Attachment to Host Receptors in the Respiratory Tract of Farm Animals. <i>Viruses</i> , 2021 , 13,	6.2	2
9	3D visualization of SARS-CoV-2 infection and receptor distribution in Syrian hamster lung lobes display distinct spatial arrangements		2
8	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses. <i>Nature Communications</i> , 2021 , 12, 5449	17.4	2

7	Distinct spatial arrangements of ACE2 and TMPRSS2 expression in Syrian hamster lung lobes dictates SARS-CoV-2 infection patterns.. <i>PLoS Pathogens</i> , 2022 , 18, e1010340	7.6	2
6	N-glycolylneuraminic acid binding of avian and equine H7 influenza A viruses.. <i>Journal of Virology</i> , 2022 , jvi0212021	6.6	1
5	Influenza D binding properties vary amongst the two major virus clades and wildlife species.. <i>Veterinary Microbiology</i> , 2021 , 264, 109298	3.3	1
4	Functionality of the putative surface glycoproteins of the Wuhan spiny eel influenza virus. <i>Nature Communications</i> , 2021 , 12, 6161	17.4	1
3	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses		1
2	N-glycolylneuraminic acid binding of avian H7 influenza A viruses		1
1	Pathobiology of highly pathogenic H5 avian influenza viruses in naturally infected Galliformes and Anseriformes in France during winter 2015-2016.. <i>Veterinary Research</i> , 2022 , 53, 11	3.8	1