

# Robert P De Vries

## List of Publications by Year in Descending Order

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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	N-glycolylneuraminic acid binding of avian and equine H7 influenza A viruses.. <i>Journal of Virology</i> , <b>2022</b> , jvi0212021	6.6	1
59	Pathobiology of highly pathogenic H5 avian influenza viruses in naturally infected Galliformes and Anseriformes in France during winter 2015-2016.. <i>Veterinary Research</i> , <b>2022</b> , 53, 11	3.8	1
58	Distinct spatial arrangements of ACE2 and TMPRSS2 expression in Syrian hamster lung lobes dictates SARS-CoV-2 infection patterns.. <i>PLoS Pathogens</i> , <b>2022</b> , 18, e1010340	7.6	2
57	Influenza D binding properties vary amongst the two major virus clades and wildlife species.. <i>Veterinary Microbiology</i> , <b>2021</b> , 264, 109298	3.3	1
56	Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2. <i>Nature Chemical Biology</i> , <b>2021</b> ,	11.7	33
55	Functionality of the putative surface glycoproteins of the Wuhan spiny eel influenza virus. <i>Nature Communications</i> , <b>2021</b> , 12, 6161	17.4	1
54	Tissue Microarrays to Visualize Influenza D Attachment to Host Receptors in the Respiratory Tract of Farm Animals. <i>Viruses</i> , <b>2021</b> , 13,	6.2	2
53	N-Glycolylneuraminic Acid in Animal Models for Human Influenza A Virus. <i>Viruses</i> , <b>2021</b> , 13,	6.2	3
52	Heparan Sulfate Proteoglycans as Attachment Factor for SARS-CoV-2. <i>ACS Central Science</i> , <b>2021</b> , 7, 100916018	10.8	36
51	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009282	7.6	23
50	Characterization of human FDCs reveals regulation of T cells and antigen presentation to B cells. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	9
49	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses. <i>Nature Communications</i> , <b>2021</b> , 12, 5449	17.4	2
48	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> , <b>2020</b> , 94,	6.6	3
47	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> , <b>2020</b> , 94,	6.6	6
46	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> , <b>2020</b> , 64, 304-312	2.7	4
45	The Microbiota Contributes to the Control of Highly Pathogenic H5N9 Influenza Virus Replication in Ducks. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	7
44	Three Amino Acid Changes in Avian Coronavirus Spike Protein Allow Binding to Kidney Tissue. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	18

43	Hierarchical Multivalent Effects Control Influenza Host Specificity. <i>ACS Central Science</i> , <b>2020</b> , 6, 2311-2318.8	18.8	12
42	Drivers of recombinant soluble influenza A virus hemagglutinin and neuraminidase expression in mammalian cells. <i>Protein Science</i> , <b>2020</b> , 29, 1975-1982	6.3	4
41	Enhanced Inhibition of Influenza A Virus Adhesion by Di- and Trivalent Hemagglutinin Inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 6398-6404	8.3	16
40	N-Glycolylneuraminic Acid as a Receptor for Influenza A Viruses. <i>Cell Reports</i> , <b>2019</b> , 27, 3284-3294.e6	10.6	49
39	Protecting-Group-Controlled Enzymatic Glycosylation of Oligo-N-Acetylglucosamine Derivatives. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10547-10552	16.4	14
38	Glycosylation of the viral attachment protein of avian coronavirus is essential for host cell and receptor binding. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 7797-7809	5.4	44
37	Virus recognition of glycan receptors. <i>Current Opinion in Virology</i> , <b>2019</b> , 34, 117-129	7.5	62
36	Guinea Fowl Coronavirus Diversity Has Phenotypic Consequences for Glycan and Tissue Binding. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	12
35	Liposome-targeted recombinant human acid sphingomyelinase: Production, formulation, and in vitro evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2019</b> , 137, 185-195	5.7	8
34	Fluorescent Trimeric Hemagglutinins Reveal Multivalent Receptor Binding Properties. <i>Journal of Molecular Biology</i> , <b>2019</b> , 431, 842-856	6.5	24
33	Enhanced Human-Type Receptor Binding by Ferret-Transmissible H5N1 with a K193T Mutation. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	13
32	The 150-Loop Restricts the Host Specificity of Human H10N8 Influenza Virus. <i>Cell Reports</i> , <b>2017</b> , 19, 235-245	24.5	27
31	Recent H3N2 Viruses Have Evolved Specificity for Extended, Branched Human-type Receptors, Conferring Potential for Increased Avidity. <i>Cell Host and Microbe</i> , <b>2017</b> , 21, 23-34	23.4	121
30	Three mutations switch H7N9 influenza to human-type receptor specificity. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006390	7.6	65
29	A single mutation in Taiwanese H6N1 influenza hemagglutinin switches binding to human-type receptors. <i>EMBO Molecular Medicine</i> , <b>2017</b> , 9, 1314-1325	12	30
28	Glycosylation Characterization of an Influenza H5N7 Hemagglutinin Series with Engineered Glycosylation Patterns: Implications for Structure-Function Relationships. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 398-412	5.6	16
27	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> , <b>2016</b> , 161, 307-16	2.6	32
26	A Miniaturized Glycan Microarray Assay for Assessing Avidity and Specificity of Influenza A Virus Hemagglutinins. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	9

25	A human-infecting H10N8 influenza virus retains a strong preference for avian-type receptors. <i>Cell Host and Microbe</i> , <b>2015</b> , 17, 377-384	23.4	48
24	Structure and receptor binding of the hemagglutinin from a human H6N1 influenza virus. <i>Cell Host and Microbe</i> , <b>2015</b> , 17, 369-376	23.4	35
23	Novel Receptor Specificity of Avian Gammacoronaviruses That Cause Enteritis. <i>Journal of Virology</i> , <b>2015</b> , 89, 8783-92	6.6	26
22	Host tissue and glycan binding specificities of avian viral attachment proteins using novel avian tissue microarrays. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128893	3.7	9
21	Hemagglutinin receptor specificity and structural analyses of respiratory droplet-transmissible H5N1 viruses. <i>Journal of Virology</i> , <b>2014</b> , 88, 768-73	6.6	54
20	Characterization of H7N9 influenza A viruses isolated from humans. <i>Nature</i> , <b>2013</b> , 501, 551-5	50.4	321
19	Preferential recognition of avian-like receptors in human influenza A H7N9 viruses. <i>Science</i> , <b>2013</b> , 342, 1230-5	33.3	124
18	A general strategy for the chemoenzymatic synthesis of asymmetrically branched N-glycans. <i>Science</i> , <b>2013</b> , 341, 379-83	33.3	249
17	Evolution of the hemagglutinin protein of the new pandemic H1N1 influenza virus: maintaining optimal receptor binding by compensatory substitutions. <i>Journal of Virology</i> , <b>2013</b> , 87, 13868-77	6.6	33
16	H5N1 receptor specificity as a factor in pandemic risk. <i>Virus Research</i> , <b>2013</b> , 178, 99-113	6.4	50
15	Synthesis of biologically active N- and O-linked glycans with multisialylated poly-N-acetylglucosamine extensions using P. damsela $\alpha$ -6 sialyltransferase. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18280-18283	16.4	48
14	Glycan-dependent immunogenicity of recombinant soluble trimeric hemagglutinin. <i>Journal of Virology</i> , <b>2012</b> , 86, 11735-44	6.6	52
13	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> , <b>2012</b> , 109, 7457-62	11.5	52
12	Protective efficacy of Newcastle disease virus expressing soluble trimeric hemagglutinin against highly pathogenic H5N1 influenza in chickens and mice. <i>PLoS ONE</i> , <b>2012</b> , 7, e44447	3.7	20
11	A stabilized HIV-1 envelope glycoprotein trimer fused to CD40 ligand targets and activates dendritic cells. <i>Retrovirology</i> , <b>2011</b> , 8, 48	3.6	23
10	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> , <b>2011</b> , 286, 5868-75	5.4	53
9	Binding of avian coronavirus spike proteins to host factors reflects virus tropism and pathogenicity. <i>Journal of Virology</i> , <b>2011</b> , 85, 8903-12	6.6	130
8	A single immunization with soluble recombinant trimeric hemagglutinin protects chickens against highly pathogenic avian influenza virus H5N1. <i>PLoS ONE</i> , <b>2010</b> , 5, e10645	3.7	59

7	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> , <b>2010</b> , 84, 10366-74	6.6	80
6	The influenza A virus hemagglutinin glycosylation state affects receptor-binding specificity. <i>Virology</i> , <b>2010</b> , 403, 17-25	3.6	89
5	Multimerization- and glycosylation-dependent receptor binding of SARS-CoV-2 spike proteins		2
4	Glycan remodeled erythrocytes facilitate antigenic characterization of recent A/H3N2 influenza viruses		1
3	N-glycolylneuraminic acid binding of avian H7 influenza A viruses		1
2	3D visualization of SARS-CoV-2 infection and receptor distribution in Syrian hamster lung lobes display distinct spatial arrangements		2
1	Sialic acid-Dependent Binding and Viral Entry of SARS-CoV-2		6