

# Charles J Russell

## List of Publications by Year in descending order

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75  
papers

3,671  
citations

117571

34  
h-index

138417

58  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3985  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influenza virus hemagglutinin concentrates in lipid raft microdomains for efficient viral fusion. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14610-14617.	3.3	323
2	Influenza HA Subtypes Demonstrate Divergent Phenotypes for Cleavage Activation and pH of Fusion: Implications for Host Range and Adaptation. PLoS Pathogens, 2013, 9, e1003151.	2.1	183
3	Novel Inhibitors of Influenza Virus Fusion: Structure-Activity Relationship and Interaction with the Viral Hemagglutinin. Journal of Virology, 2010, 84, 4277-4288.	1.5	137
4	Influenza Hemagglutinin Protein Stability, Activation, and Pandemic Risk. Trends in Microbiology, 2018, 26, 841-853.	3.5	134
5	The pH of Activation of the Hemagglutinin Protein Regulates H5N1 Influenza Virus Pathogenicity and Transmissibility in Ducks. Journal of Virology, 2010, 84, 1527-1535.	1.5	124
6	Fusion Protein of the Paramyxovirus SV5: Destabilizing and Stabilizing Mutants of Fusion Activation. Virology, 2000, 270, 17-30.	1.1	122
7	The Genesis of a Pandemic Influenza Virus. Cell, 2005, 123, 368-371.	13.5	116
8	Acid Stability of the Hemagglutinin Protein Regulates H5N1 Influenza Virus Pathogenicity. PLoS Pathogens, 2011, 7, e1002398.	2.1	110
9	Molecular requirements for a pandemic influenza virus: An acid-stable hemagglutinin protein. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1636-1641.	3.3	105
10	A dual-functional paramyxovirus F protein regulatory switch segment. Journal of Cell Biology, 2003, 163, 363-374.	2.3	100
11	Amino Acid Residues in the Fusion Peptide Pocket Regulate the pH of Activation of the H5N1 Influenza Virus Hemagglutinin Protein. Journal of Virology, 2009, 83, 3568-3580.	1.5	94
12	The pH of Activation of the Hemagglutinin Protein Regulates H5N1 Influenza Virus Replication and Pathogenesis in Mice. Journal of Virology, 2013, 87, 4826-4834.	1.5	90
13	Mammalian adaptation of influenza A(H7N9) virus is limited by a narrow genetic bottleneck. Nature Communications, 2015, 6, 6553.	5.8	90
14	The ectodomain of HA2 of influenza virus promotes rapid pH dependent membrane fusion 1 Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 286, 489-503.	2.0	84
15	Viral factors in influenza pandemic risk assessment. ELife, 2016, 5, .	2.8	82
16	Increased Acid Stability of the Hemagglutinin Protein Enhances H5N1 Influenza Virus Growth in the Upper Respiratory Tract but Is Insufficient for Transmission in Ferrets. Journal of Virology, 2013, 87, 9911-9922.	1.5	81
17	Drivers of airborne human-to-human pathogen transmission. Current Opinion in Virology, 2017, 22, 22-29.	2.6	81
18	Direct Determination of the Membrane Affinities of Individual Amino Acids. Biochemistry, 1996, 35, 1803-1809.	1.2	78

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19	Activation of a paramyxovirus fusion protein is modulated by inside-out signaling from the cytoplasmic tail. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9217-9222.	3.3	78
20	Acid-Induced Membrane Fusion by the Hemagglutinin Protein and Its Role in Influenza Virus Biology. <i>Current Topics in Microbiology and Immunology</i> , 2014, 385, 93-116.	0.7	75
21	Conserved Glycine Residues in the Fusion Peptide of the Paramyxovirus Fusion Protein Regulate Activation of the Native State. <i>Journal of Virology</i> , 2004, 78, 13727-13742.	1.5	66
22	Computer-assisted study of the relationship between molecular structure and Henry's law constant. <i>Analytical Chemistry</i> , 1992, 64, 1350-1355.	3.2	60
23	Novel Highly Pathogenic Avian A(H5N2) and A(H5N8) Influenza Viruses of Clade 2.3.4.4 from North America Have Limited Capacity for Replication and Transmission in Mammals. <i>MSphere</i> , 2016, 1, .	1.3	56
24	Ferrets as Models for Influenza Virus Transmission Studies and Pandemic Risk Assessments. <i>Emerging Infectious Diseases</i> , 2018, 24, 965-971.	2.0	56
25	A Contributing Role for Anti-Neuraminidase Antibodies on Immunity to Pandemic H1N1 2009 Influenza A Virus. <i>PLoS ONE</i> , 2011, 6, e26335.	1.1	55
26	Influenza Virus Overcomes Cellular Blocks To Productively Replicate, Impacting Macrophage Function. <i>Journal of Virology</i> , 2017, 91, .	1.5	55
27	The structural basis of paramyxovirus invasion. <i>Trends in Microbiology</i> , 2006, 14, 243-246.	3.5	54
28	Human PIV-2 recombinant Sendai virus (rSeV) elicits durable immunity and combines with two additional rSeVs to protect against hPIV-1, hPIV-2, hPIV-3, and RSV. <i>Vaccine</i> , 2009, 27, 1848-1857.	1.7	52
29	Novel Roles of Focal Adhesion Kinase in Cytoplasmic Entry and Replication of Influenza A Viruses. <i>Journal of Virology</i> , 2014, 88, 6714-6728.	1.5	52
30	The Receptor-Binding Domain of Influenza Virus Hemagglutinin Produced in <i>Escherichia coli</i> Folds into Its Native, Immunogenic Structure. <i>Journal of Virology</i> , 2011, 85, 865-872.	1.5	49
31	An Influenza A/H1N1/2009 Hemagglutinin Vaccine Produced in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2010, 5, e11694.	1.1	48
32	Contribution of H7 haemagglutinin to amantadine resistance and infectivity of influenza virus. <i>Journal of General Virology</i> , 2007, 88, 1266-1274.	1.3	46
33	Sendai virus recombinant vaccine expressing hPIV-3 HN or F elicits protective immunity and combines with a second recombinant to prevent hPIV-1, hPIV-3 and RSV infections. <i>Vaccine</i> , 2008, 26, 3480-3488.	1.7	43
34	Illumination of Parainfluenza Virus Infection and Transmission in Living Animals Reveals a Tissue-Specific Dichotomy. <i>PLoS Pathogens</i> , 2011, 7, e1002134.	2.1	43
35	Hemagglutinin Stability and Its Impact on Influenza A Virus Infectivity, Pathogenicity, and Transmissibility in Avians, Mice, Swine, Seals, Ferrets, and Humans. <i>Viruses</i> , 2021, 13, 746.	1.5	39
36	Mode of Parainfluenza Virus Transmission Determines the Dynamics of Primary Infection and Protection from Reinfection. <i>PLoS Pathogens</i> , 2013, 9, e1003786.	2.1	34

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37	Safety and Immunogenicity of an Intranasal Sendai Virus-Based Human Parainfluenza Virus Type 1 Vaccine in 3- to 6-Year-Old Children. <i>Vaccine Journal</i> , 2015, 22, 298-303.	3.2	34
38	Temperature Dependence of Polypeptide Partitioning between Water and Phospholipid Bilayers. <i>Biochemistry</i> , 1996, 35, 9526-9532.	1.2	33
39	Spring-Loaded Heptad Repeat Residues Regulate the Expression and Activation of Paramyxovirus Fusion Protein. <i>Journal of Virology</i> , 2007, 81, 3130-3141.	1.5	32
40	H1N1 influenza viruses varying widely in hemagglutinin stability transmit efficiently from swine to swine and to ferrets. <i>PLoS Pathogens</i> , 2017, 13, e1006276.	2.1	29
41	Characterizing Emerging Canine H3 Influenza Viruses. <i>PLoS Pathogens</i> , 2020, 16, e1008409.	2.1	29
42	Effect of Hemagglutinin-Neuraminidase Inhibitors BCX 2798 and BCX 2855 on Growth and Pathogenicity of Sendai/Human Parainfluenza Type 3 Chimera Virus in Mice. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 3942-3951.	1.4	26
43	Sendai virus as a backbone for vaccines against RSV and other human paramyxoviruses. <i>Expert Review of Vaccines</i> , 2016, 15, 189-200.	2.0	25
44	Focal adhesion kinase (FAK) regulates polymerase activity of multiple influenza A virus subtypes. <i>Virology</i> , 2016, 499, 369-374.	1.1	19
45	Safety and immunogenicity of an intranasal sendai virus-based vaccine for human parainfluenza virus type I and respiratory syncytial virus (SeVRSV) in adults. <i>Human Vaccines and Immunotherapeutics</i> , 2021, 17, 554-559.	1.4	19
46	HA stabilization promotes replication and transmission of swine H1N1 gamma influenza viruses in ferrets. <i>ELife</i> , 2020, 9, .	2.8	19
47	An Amino Acid in the Stalk Domain of N1 Neuraminidase Is Critical for Enzymatic Activity. <i>Journal of Virology</i> , 2017, 91, .	1.5	18
48	Hemagglutinin Stability Regulates H1N1 Influenza Virus Replication and Pathogenicity in Mice by Modulating Type I Interferon Responses in Dendritic Cells. <i>Journal of Virology</i> , 2020, 94, .	1.5	18
49	The Membrane Affinities of the Aliphatic Amino Acid Side Chains in an $\alpha$ -Helical Context Are Independent of Membrane Immersion Depth. <i>Biochemistry</i> , 1999, 38, 337-346.	1.2	17
50	2-Substituted-4,5-Dihydropyrimidine-6-Carboxamide Antiviral Targeted Libraries. <i>ACS Combinatorial Science</i> , 2009, 11, 1100-1104.	3.3	17
51	Sendai virus recombinant vaccine expressing a secreted, unconstrained respiratory syncytial virus fusion protein protects against RSV in cotton rats. <i>International Immunology</i> , 2015, 27, 229-236.	1.8	17
52	Sendai virus-based RSV vaccine protects against RSV challenge in an in vivo maternal antibody model. <i>Vaccine</i> , 2014, 32, 3264-3273.	1.7	16
53	Vaccines for the Paramyxoviruses and Pneumoviruses: Successes, Candidates, and Hurdles. <i>Viral Immunology</i> , 2018, 31, 133-141.	0.6	15
54	Residues in the Heptad Repeat A Region of the Fusion Protein Modulate the Virulence of Sendai Virus in Mice. <i>Journal of Virology</i> , 2010, 84, 810-821.	1.5	14

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55	Non-invasive Imaging of Sendai Virus Infection in Pharmacologically Immunocompromised Mice: NK and T Cells, but not Neutrophils, Promote Viral Clearance after Therapy with Cyclophosphamide and Dexamethasone. <i>PLoS Pathogens</i> , 2016, 12, e1005875.	2.1	14
56	Pathogenicity and peramivir efficacy in immunocompromised murine models of influenza B virus infection. <i>Scientific Reports</i> , 2017, 7, 7345.	1.6	13
57	A pharmacologically immunosuppressed mouse model for assessing influenza B virus pathogenicity and oseltamivir treatment. <i>Antiviral Research</i> , 2017, 148, 20-31.	1.9	13
58	Directed Evolution of an Influenza Reporter Virus To Restore Replication and Virulence and Enhance Noninvasive Bioluminescence Imaging in Mice. <i>Journal of Virology</i> , 2018, 92, .	1.5	12
59	Relationship between hemagglutinin stability and influenza virus persistence after exposure to low pH or supraphysiological heating. <i>PLoS Pathogens</i> , 2021, 17, e1009910.	2.1	12
60	Robustness of the Ferret Model for Influenza Risk Assessment Studies: a Cross-Laboratory Exercise. <i>MBio</i> , 2022, 13, .	1.8	12
61	Fecal Influenza in Mammals: Selection of Novel Variants. <i>Journal of Virology</i> , 2013, 87, 11476-11486.	1.5	11
62	A Sendai virus recombinant vaccine expressing a gene for truncated human metapneumovirus (hMPV) fusion protein protects cotton rats from hMPV challenge. <i>Virology</i> , 2017, 509, 60-66.	1.1	11
63	Stalking Influenza Diversity with a Universal Antibody. <i>New England Journal of Medicine</i> , 2011, 365, 1541-1542.	13.9	10
64	Changes to the dynamic nature of hemagglutinin and the emergence of the 2009 pandemic H1N1 influenza virus. <i>Scientific Reports</i> , 2015, 5, 12828.	1.6	10
65	Relationships among Dissemination of Primary Parainfluenza Virus Infection in the Respiratory Tract, Mucosal and Peripheral Immune Responses, and Protection from Reinfection: a Noninvasive Bioluminescence-Imaging Study. <i>Journal of Virology</i> , 2015, 89, 3568-3583.	1.5	10
66	Human Metapneumovirus: A Largely Unrecognized Threat to Human Health. <i>Pathogens</i> , 2020, 9, 109.	1.2	10
67	Sendai Virus-Vectored Vaccines That Express Envelope Glycoproteins of Respiratory Viruses. <i>Viruses</i> , 2021, 13, 1023.	1.5	10
68	Influence of Antigen Insertion Site and Vector Dose on Immunogenicity and Protective Capacity in Sendai Virus-Based Human Parainfluenza Virus Type 3 Vaccines. <i>Journal of Virology</i> , 2013, 87, 5959-5969.	1.5	8
69	Swine H1N1 Influenza Virus Variants with Enhanced Polymerase Activity and HA Stability Promote Airborne Transmission in Ferrets. <i>Journal of Virology</i> , 2022, 96, e0010022.	1.5	8
70	Dynamics of Sendai Virus Spread, Clearance, and Immunotherapeutic Efficacy after Hematopoietic Cell Transplant Imaged Noninvasively in Mice. <i>Journal of Virology</i> , 2018, 92, .	1.5	6
71	Quantifying dose-, strain-, and tissue-specific kinetics of parainfluenza virus infection. <i>PLoS Computational Biology</i> , 2021, 17, e1009299.	1.5	5
72	Interplay between H1N1 influenza a virus infection, extracellular and intracellular respiratory tract pH, and host responses in a mouse model. <i>PLoS ONE</i> , 2021, 16, e0251473.	1.1	3

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73	Development of Sendai virus-based vaccines to prevent pediatric respiratory virus infections. <i>Procedia in Vaccinology</i> , 2009, 1, 41-44.	0.4	0
74	Parainfluenza Virus Spread, Clearance, and Treatment in a Hematopoietic Cell Transplant Model Using Monoclonal Antibodies, Adoptively Transferred NK Cells, and T Lymphocytes. <i>Biology of Blood and Marrow Transplantation</i> , 2018, 24, S100.	2.0	0
75	Novel Vaccines and Drugs That Target the Surface Glycoproteins of Influenza Viruses, RSV, Parainfluenza Viruses, and SARS-CoV-2. <i>Viruses</i> , 2022, 14, 1160.	1.5	0