John N Barr

List of Publications by Year
in descending order

64 papers	2,727 citations	159585 30 h-index	189892 50 g-index
65 all docs	65 docs citations	65 times ranked	3438 citing authors

#	Article	IF	Citations
1	Efficient recovery of infectious vesicular stomatitis virus entirely from cDNA clones.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 8388-8392.	7.1	463
2	Recent advances in the molecular and cellular biology of bunyaviruses. Journal of General Virology, 2011, 92, 2467-2484.	2.9	165
3	Transcriptional control of the RNA-dependent RNA polymerase of vesicular stomatitis virus. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1577, 337-353.	2.4	100
4	Structure, Function, and Evolution of the Crimean-Congo Hemorrhagic Fever Virus Nucleocapsid Protein. Journal of Virology, 2012, 86, 10914-10923.	3.4	94
5	Quantitative Proteomic Analysis of A549 Cells Infected with Human Respiratory Syncytial Virus. Molecular and Cellular Proteomics, 2010, 9, 2438-2459.	3.8	82
6	Elucidation of the Ebola Virus VP24 Cellular Interactome and Disruption of Virus Biology through Targeted Inhibition of Host-Cell Protein Function. Journal of Proteome Research, 2014, 13, 5120-5135.	3.7	79
7	Bunyamwera Bunyavirus RNA Synthesis Requires Cooperation of 3â€²- and 5â€²-Terminal Sequences. Journal of Virology, 2004, 78, 1129-1138.	3.4	77
8	How RNA viruses maintain their genome integrity. Journal of General Virology, 2010, 91, 1373-1387.	2.9	70
9	Segment-specific terminal sequences of Bunyamwera bunyavirus regulate genome replication. Virology, 2003, 311, 326-338.	2.4	69
10	Nucleocapsid protein structures from orthobunyaviruses reveal insight into ribonucleoprotein architecture and RNA polymerization. Nucleic Acids Research, 2013, 41, 5912-5926.	14.5	69
11	Interactome Analysis of the Human Respiratory Syncytial Virus RNA Polymerase Complex Identifies Protein Chaperones as Important Cofactors That Promote L-Protein Stability and RNA Synthesis. Journal of Virology, 2015, 89, 917-930.	3.4	65
12	Polymerase Slippage at Vesicular Stomatitis Virus Gene Junctions To Generate Poly(A) Is Regulated by the Upstream 3â€²-AUAC-5â€² Tetranucleotide: Implications for the Mechanism of Transcription Termination. Journal of Virology, 2001, 75, 6901-6913.	3.4	62
13	The Interactome of the Human Respiratory Syncytial Virus NS1 Protein Highlights Multiple Effects on Host Cell Biology. Journal of Virology, 2012, 86, 7777-7789.	3.4	61
14	The Asymmetric Structure of an Icosahedral Virus Bound to Its Receptor Suggests a Mechanism for Genome Release. Structure, 2013, 21, 1225-1234.	3.3	61
15	Crystal structure of the essential transcription antiterminator M2-1 protein of human respiratory syncytial virus and implications of its phosphorylation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1580-1585.	7.1	58
16	Identification of a Minimal Size Requirement for Termination of Vesicular Stomatitis Virus mRNA: Implications for the Mechanism of Transcription. Journal of Virology, 2000, 74, 8268-8276.	3.4	57
17	Using SILAC and quantitative proteomics to investigate the interactions between viral and host proteomes. Proteomics, 2012, 12, 666-672.	2.2	57
18	Direct visualization of the small hydrophobic protein of human respiratory syncytial virus reveals the structural basis for membrane permeability. FEBS Letters, 2010, 584, 2786-2790.	2.8	56

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19	Viral dependence on cellular ion channels â€“ an emerging anti-viral target?. Journal of General Virology, 2017, 98, 345-351.	2.9	54
20	Role of the Conserved Nucleotide Mismatch within 3â€²- and 5â€²-Terminal Regions of Bunyamwera Virus in Signaling Transcription. Journal of Virology, 2005, 79, 3586-3594.	3.4	49
21	Bunyavirus mRNA synthesis is coupled to translation to prevent premature transcription termination. Rna, 2007, 13, 731-736.	3.5	49
22	Quantitative proteomic analysis of A549 cells infected with human respiratory syncytial virus subgroup B using SILAC coupled to LCâ€MS/MS. Proteomics, 2010, 10, 4320-4334.	2.2	45
23	Modulation of Potassium Channels Inhibits Bunyavirus Infection. Journal of Biological Chemistry, 2016, 291, 3411-3422.	3.4	45
24	Elucidating variations in the nucleotide sequence of Ebola virus associated with increasing pathogenicity. Genome Biology, 2014, 15, 540.	8.8	44
25	Elucidation of the Cellular Interactome of Ebola Virus Nucleoprotein and Identification of Therapeutic Targets. Journal of Proteome Research, 2016, 15, 4290-4303.	3.7	43
26	Bunyavirus requirement for endosomal K+ reveals new roles of cellular ion channels during infection. PLoS Pathogens, 2018, 14, e1006845.	4.7	42
27	A quantitative proteomic analysis of lung epithelial (A549) cells infected with 2009 pandemic influenza A virus using stable isotope labelling with amino acids in cell culture. Proteomics, 2012, 12, 1431-1436.	2.2	39
28	Heat Shock Protein 70 Family Members Interact with Crimean-Congo Hemorrhagic Fever Virus and Hazara Virus Nucleocapsid Proteins and Perform a Functional Role in the Nairovirus Replication Cycle. Journal of Virology, 2016, 90, 9305-9316.	3.4	36
29	Potassium is a trigger for conformational change in the fusion spike of an enveloped RNA virus. Journal of Biological Chemistry, 2018, 293, 9937-9944.	3.4	34
30	Identification of an Upstream Sequence Element Required for Vesicular Stomatitis Virus mRNA Transcription. Journal of Virology, 2002, 76, 7632-7641.	3.4	32
31	Investigating the Influence of Ribavirin on Human Respiratory Syncytial Virus RNA Synthesis by Using a High-Resolution Transcriptome Sequencing Approach. Journal of Virology, 2016, 90, 4876-4888.	3.4	32
32	Ion Channels as Therapeutic Targets for Viral Infections: Further Discoveries and Future Perspectives. Viruses, 2020, 12, 844.	3.3	31
33	Identification of the Bunyamwera bunyavirus transcription termination signal. Journal of General Virology, 2006, 87, 189-198.	2.9	31
34	The Bunyamwera Virus mRNA Transcription Signal Resides within both the 3â€² and the 5â€² Terminal Regions and Allows Ambisense Transcription from a Model RNA Segment. Journal of Virology, 2005, 79, 12602-12607.	3.4	30
35	Amino acid changes within the Bunyamwera virus nucleocapsid protein differentially affect the mRNA transcription and RNA replication activities of assembled ribonucleoprotein templates. Journal of General Virology, 2011, 92, 80-84.	2.9	30
36	Characterization of the Interaction between Human Respiratory Syncytial Virus and the Cell Cycle in Continuous Cell Culture and Primary Human Airway Epithelial Cells. Journal of Virology, 2011, 85, 10300-10309.	3.4	30

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37	The Structure of the Human Respiratory Syncytial Virus M2-1 Protein Bound to the Interaction Domain of the Phosphoprotein P Defines the Orientation of the Complex. MBio, 2018, 9, .	4.1	28
38	The crystal structure of the Hazara virus nucleocapsid protein. BMC Structural Biology, 2015, 15, 24.	2.3	26
39	Investigating the specificity and stoichiometry of RNA binding by the nucleocapsid protein of Bunyamwera virus. Rna, 2009, 15, 391-399.	3.5	25
40	Cellular cholesterol abundance regulates potassium accumulation within endosomes and is an important determinant in bunyavirus entry. Journal of Biological Chemistry, 2019, 294, 7335-7347.	3.4	25
41	Proteomic analysis of mitochondria in respiratory epithelial cells infected with human respiratory syncytial virus and functional implications for virus and cell biology. Journal of Pharmacy and Pharmacology, 2015, 67, 300-318.	2.4	20
42	Characterisation of the interaction between the nucleoprotein and phosphoprotein of pneumonia virus of mice. Virus Research, 1995, 39, 221-235.	2.2	17
43	Effects of a point mutation in the 3â€² end of the S genome segment of naturally occurring and engineered Bunyamwera viruses. Journal of General Virology, 2003, 84, 789-793.	2.9	14
44	Identification of a small molecule inhibitor of Ebola virus genome replication and transcription using in silico screening. Antiviral Research, 2018, 156, 46-54.	4.1	14
45	TMEM16A/ANO1 calcium-activated chloride channel as a novel target for the treatment of human respiratory syncytial virus infection. Thorax, 2021, 76, 64-72.	5.6	13
46	Selection for gene junction sequences important for VSV transcription. Virology, 2008, 380, 379-387.	2.4	10
47	Quantification of Ebola virus replication kinetics in vitro. PLoS Computational Biology, 2020, 16, e1008375.	3.2	10
48	The Native Orthobunyavirus Ribonucleoprotein Possesses a Helical Architecture. MBio, 2022, 13, .	4.1	10
49	Purification, crystallization and preliminary X-ray crystallographic analysis of the nucleocapsid protein of Bunyamwera virus. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 361-364.	0.7	9
50	Bunyamwera virus can repair both insertions and deletions during RNA replication. Rna, 2010, 16, 1138-1145.	3.5	9
51	The RNA Replication Site of Tula Orthohantavirus Resides within a Remodelled Golgi Network. Cells, 2020, 9, 1569.	4.1	9
52	Different NF-Î°B activation characteristics of human respiratory syncytial virus subgroups A and B. Microbial Pathogenesis, 2012, 52, 184-191.	2.9	8
53	Development of a multiplex assay for antibody detection in serum against pathogens affecting ruminants. Transboundary and Emerging Diseases, 2021, 68, 1229-1239.	3.0	7
54	Probing Bunyavirus N protein oligomerisation using mass spectrometry. Rapid Communications in Mass Spectrometry, 2014, 28, 793-800.	1.5	6

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55	Hazara Nairovirus Requires COPI Components in both Arf1-Dependent and Arf1-Independent Stages of Its Replication Cycle. Journal of Virology, 2020, 94, .	3.4	5
56	Tula orthohantavirus nucleocapsid protein is cleaved in infected cells and may sequester activated caspase-3 during persistent infection to suppress apoptosis. Journal of General Virology, 2019, 100, 1208-1221.	2.9	5
57	Structure and Function of the Human Respiratory Syncytial Virus M2â€"1 Protein. Sub-Cellular Biochemistry, 2018, 88, 245-260.	2.4	4
58	Characterization and applications of a Crimean-Congo hemorrhagic fever virus nucleoprotein-specific Affimer: Inhibitory effects in viral replication and development of colorimetric diagnostic tests. PLoS Neglected Tropical Diseases, 2020, 14, e0008364.	3.0	4
59	Development of a multiplex microsphere immunoassay for the detection of antibodies against highly pathogenic viruses in human and animal serum samples. PLoS Neglected Tropical Diseases, 2020, 14, e0008699.	3.0	3
60	Host switching pathogens, infectious outbreaks and zoonosis: A Marie SkÅ,odowska-Curie innovative training network (HONOURs). Virus Research, 2018, 257, 120-124.	2.2	2
61	Mutagenic Analysis of Hazara Nairovirus Nontranslated Regions during Single- and Multistep Growth Identifies both Attenuating and Functionally Critical Sequences for Virus Replication. Journal of Virology, 2020, 94, .	3.4	2
62	The Molecular and Cellular Biology of Emerging Bunyaviruses. , 2011, , 261-294.		0
63	Reply to Rameix-Welti, â€œNo Incongruity in Respiratory Syncytial Virus M2-1 Protein Remaining Bound to Viral mRNAs during Their Entire Life Timeâ€. MBio, 2019, 10, .	4.1	0
64	Cellular cholesterol abundance regulates potassium accumulation within endosomes and is an important determinant in Bunyavirus entry. Access Microbiology, 2019, 1, .	0.5	0