Rachel Fearns

List of Publications by Year
in descending order

50 papers	3,590 citations	218677 26 h-index	189892 50 g-index
56 all docs	56 docs citations	56 times ranked	4653 citing authors

#	Article	IF	Citations
1	Therapeutic efficacy of the small molecule GS-5734 against Ebola virus in rhesus monkeys. Nature, 2016, 531, 381-385.	27.8	1,245
2	Role of the M2-1 Transcription Antitermination Protein of Respiratory Syncytial Virus in Sequential Transcription. Journal of Virology, 1999, 73, 5852-5864.	3.4	207
3	Respiratory Syncytial Virus: Virology, Reverse Genetics, and Pathogenesis of Disease. Current Topics in Microbiology and Immunology, 2013, 372, 3-38.	1.1	193
4	Orally Efficacious Broad-Spectrum Ribonucleoside Analog Inhibitor of Influenza and Respiratory Syncytial Viruses. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	162
5	Initiation and regulation of paramyxovirus transcription and replication. Virology, 2015, 479-480, 545-554.	2.4	105
6	Increased Expression of the N Protein of Respiratory Syncytial Virus Stimulates Minigenome Replication but Does Not Alter the Balance between the Synthesis of mRNA and Antigenome. Virology, 1997, 236, 188-201.	2.4	104
7	Unravelling the complexities of respiratory syncytial virus RNA synthesis. Journal of General Virology, 2006, 87, 1805-1821.	2.9	97
8	Rational Design of Live-Attenuated Recombinant Vaccine Virus for Human Respiratory Syncytial Virus by Reverse Genetics. Advances in Virus Research, 1999, 54, 423-451.	2.1	78
9	Respiratory Syncytial Virus Can Infect Basal Cells and Alter Human Airway Epithelial Differentiation. PLoS ONE, 2014, 9, e102368.	2.5	77
10	The Respiratory Syncytial Virus Polymerase Has Multiple RNA Synthesis Activities at the Promoter. PLoS Pathogens, 2012, 8, e1002980.	4.7	74
11	Structure of the human metapneumovirus polymerase phosphoprotein complex. Nature, 2020, 577, 275-279.	27.8	72
12	How RNA viruses maintain their genome integrity. Journal of General Virology, 2010, 91, 1373-1387.	2.9	70
13	Molecular Basis for the Selective Inhibition of Respiratory Syncytial Virus RNA Polymerase by 2'-Fluoro-4'-Chloromethyl-Cytidine Triphosphate. PLoS Pathogens, 2015, 11, e1004995.	4.7	69
14	Mapping the Transcription and Replication Promoters of Respiratory Syncytial Virus. Journal of Virology, 2002, 76, 1663-1672.	3.4	68
15	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
16	Model for Polymerase Access to the Overlapped L Gene of Respiratory Syncytial Virus. Journal of Virology, 1999, 73, 388-397.	3.4	62
17	Polymerases of paramyxoviruses and pneumoviruses. Virus Research, 2017, 234, 87-102.	2.2	59
18	Roles of the respiratory syncytial virus trailer region: Effects of mutations on genome production and stress granule formation. Virology, 2010, 406, 241-252.	2.4	55

#	Article	IF	Citations
19	Respiratory Syncytial Virus Polymerase Can Initiate Transcription from Position 3 of the Leader Promoter. Journal of Virology, 2013, 87, 3196-3207.	3.4	54
20	New antiviral approaches for respiratory syncytial virus and other mononegaviruses: Inhibiting the RNA polymerase. Antiviral Research, 2016, 134, 63-76.	4.1	51
21	Functional Analysis of the Genomic and Antigenomic Promoters of Human Respiratory Syncytial Virus. Journal of Virology, 2000, 74, 6006-6014.	3.4	49
22	Respiratory Syncytial Virus Inhibitor AZ-27 Differentially Inhibits Different Polymerase Activities at the Promoter. Journal of Virology, 2015, 89, 7786-7798.	3.4	48
23	Identification of Internal Sequences in the 3â€² Leader Region of Human Respiratory Syncytial Virus That Enhance Transcription and Confer Replication Processivity. Journal of Virology, 2005, 79, 2449-2460.	3.4	47
24	Evidence that the polymerase of respiratory syncytial virus initiates RNA replication in a nontemplated fashion. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10226-10231.	7.1	35
25	Evidence that the Respiratory Syncytial Virus Polymerase Is Recruited to Nucleotides 1 to 11 at the 3â€² End of the Nucleocapsid and Can Scan To Access Internal Signals. Journal of Virology, 2005, 79, 11311-11322.	3.4	34
26	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
27	Interferon-Induced Alterations in the Pattern of Parainfluenza Virus 5 Transcription and Protein Synthesis and the Induction of Virus Inclusion Bodies. Journal of Virology, 2005, 79, 14112-14121.	3.4	30
28	Helical ordering of envelopeâ€associated proteins and glycoproteins in respiratory syncytial virus. EMBO Journal, 2022, 41, e109728.	7.8	29
29	Akt Inhibitor Akt-IV Blocks Virus Replication through an Akt-Independent Mechanism. Journal of Virology, 2009, 83, 11665-11672.	3.4	26
30	RNA elongation by respiratory syncytial virus polymerase is calibrated by conserved region V. PLoS Pathogens, 2017, 13, e1006803.	4.7	26
31	The first two nucleotides of the respiratory syncytial virus antigenome RNA replication product can be selected independently of the promoter terminus. Rna, 2011, 17, 1895-1906.	3.5	25
32	Factors affecting de novo RNA synthesis and back-priming by the respiratory syncytial virus polymerase. Virology, 2014, 462-463, 318-327.	2.4	24
33	Ebolavirus polymerase uses an unconventional genome replication mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8535-8543.	7.1	24
34	Development of an allosteric inhibitor class blocking RNA elongation by the respiratory syncytial virus polymerase complex. Journal of Biological Chemistry, 2018, 293, 16761-16777.	3.4	23
35	Mechanism for de novo initiation at two sites in the respiratory syncytial virus promoter. Nucleic Acids Research, 2018, 46, 6785-6796.	14.5	23
36	EDP-938, a novel nucleoprotein inhibitor of respiratory syncytial virus, demonstrates potent antiviral activities in vitro and in a non-human primate model. PLoS Pathogens, 2021, 17, e1009428.	4.7	21

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37	Killing two birds with one stone: How the respiratory syncytial virus polymerase initiates transcription and replication. PLoS Pathogens, 2019, 15, e1007548.	4.7	18
38	Polymerase-tagged respiratory syncytial virus reveals a dynamic rearrangement of the ribonucleocapsid complex during infection. PLoS Pathogens, 2020, 16, e1008987.	4.7	16
39	Dual Catalytic Synthesis of Antiviral Compounds Based on Metallocarbeneâ€“Azide Cascade Chemistry. Journal of Organic Chemistry, 2018, 83, 6829-6842.	3.2	14
40	Cation currents in human airway epithelial cells induced by infection with influenza A virus. Journal of Physiology, 2009, 587, 3159-3173.	2.9	13
41	Novel diversity-oriented synthesis-derived respiratory syncytial virus inhibitors identified via a high throughput replicon-based screen. Antiviral Research, 2016, 131, 19-25.	4.1	10
42	Comparison of RNA synthesis initiation properties of non-segmented negative strand RNA virus polymerases. PLoS Pathogens, 2021, 17, e1010151.	4.7	8
43	The respiratory syncytial virus polymerase can perform RNA synthesis with modified primers and nucleotide analogs. Virology, 2020, 540, 66-74.	2.4	6
44	Respiratory syncytial virus M2-1 protein associates non-specifically with viral messenger RNA and with specific cellular messenger RNA transcripts. PLoS Pathogens, 2021, 17, e1009589.	4.7	6
45	The Respiratory Syncytial Virus Polymerase: AÂMultitasking Machine. Trends in Microbiology, 2019, 27, 969-971.	7.7	5
46	Distinctive features of the respiratory syncytial virus priming loop compared to other non-segmented negative strand RNA viruses. PLoS Pathogens, 2022, 18, e1010451.	4.7	5
47	Decapping protein 1 phosphorylation modulates IL-8 expression during respiratory syncytial virus infection. Virology, 2015, 481, 199-209.	2.4	4
48	Third Tofo Advanced Study Week on Emerging and Re-emerging Viruses, 2018. Antiviral Research, 2019, 162, 142-150.	4.1	3
49	RSV M2-1 Protein in Complex with RNA: Old Questions Are Answered and a New One Emerges. Structure, 2020, 28, 977-978.	3.3	3
50	Genetic instability of RNA viruses. , 2021, , 23-38.		0