

Bruno Canard

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51
papers

4,359
citations

28
h-index

56
g-index

56
ext. papers

5,338
ext. citations

8.9
avg, IF

5.36
L-index

#	Paper	IF	Citations
51	An RNA cap (nucleoside-2XO)-methyltransferase in the flavivirus RNA polymerase NS5: crystal structure and functional characterization. <i>EMBO Journal</i> , 2002 , 21, 2757-68	13	433
50	Discovery of an RNA virus 3X>5Xexoribonuclease that is critically involved in coronavirus RNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5108-13	11.5	396
49	One severe acute respiratory syndrome coronavirus protein complex integrates processive RNA polymerase and exonuclease activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3900-9	11.5	344
48	Conventional and unconventional mechanisms for capping viral mRNA. <i>Nature Reviews Microbiology</i> , 2011 , 10, 51-65	22.2	261
47	Structural and molecular basis of mismatch correction and ribavirin excision from coronavirus RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E162-E171	11.5	230
46	Crystal structure and functional analysis of the SARS-coronavirus RNA cap 2XO-methyltransferase nsp10/nsp16 complex. <i>PLoS Pathogens</i> , 2011 , 7, e1002059	7.6	230
45	In vitro reconstitution of SARS-coronavirus mRNA cap methylation. <i>PLoS Pathogens</i> , 2010 , 6, e1000863	7.6	228
44	Remdesivir and SARS-CoV-2: Structural requirements at both nsp12 RdRp and nsp14 Exonuclease active-sites. <i>Antiviral Research</i> , 2020 , 178, 104793	10.8	210
43	The severe acute respiratory syndrome-coronavirus replicative protein nsp9 is a single-stranded RNA-binding subunit unique in the RNA virus world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3792-6	11.5	210
42	RNA 3Xend mismatch excision by the severe acute respiratory syndrome coronavirus nonstructural protein nsp10/nsp14 exoribonuclease complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9372-7	11.5	209
41	A second, non-canonical RNA-dependent RNA polymerase in SARS coronavirus. <i>EMBO Journal</i> , 2006 , 25, 4933-42	13	193
40	Coronavirus nonstructural protein 16 is a cap-0 binding enzyme possessing (nucleoside-2XO)-methyltransferase activity. <i>Journal of Virology</i> , 2008 , 82, 8071-84	6.6	177
39	Structural and functional analysis of methylation and 5XRNA sequence requirements of short capped RNAs by the methyltransferase domain of dengue virus NS5. <i>Journal of Molecular Biology</i> , 2007 , 372, 723-36	6.5	136
38	SARS-CoV ORF1b-encoded nonstructural proteins 12-16: replicative enzymes as antiviral targets. <i>Antiviral Research</i> , 2014 , 101, 122-30	10.8	113
37	Rapid incorporation of Favipiravir by the fast and permissive viral RNA polymerase complex results in SARS-CoV-2 lethal mutagenesis. <i>Nature Communications</i> , 2020 , 11, 4682	17.4	105
36	Zika Virus Methyltransferase: Structure and Functions for Drug Design Perspectives. <i>Journal of Virology</i> , 2017 , 91,	6.6	86
35	The Curious Case of the Nidovirus Exoribonuclease: Its Role in RNA Synthesis and Replication Fidelity. <i>Frontiers in Microbiology</i> , 2019 , 10, 1813	5.7	86

34	The hexamer structure of Rift Valley fever virus nucleoprotein suggests a mechanism for its assembly into ribonucleoprotein complexes. <i>PLoS Pathogens</i> , 2011 , 7, e1002030	7.6	82
33	Selective serotonin reuptake inhibitor fluoxetine inhibits replication of human enteroviruses B and D by targeting viral protein 2C. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 1952-6	5.9	73
32	The thiazolobenzimidazole TBZE-029 inhibits enterovirus replication by targeting a short region immediately downstream from motif C in the nonstructural protein 2C. <i>Journal of Virology</i> , 2008 , 82, 4720-30	6.6	61
31	AT-527, a Double Prodrug of a Guanosine Nucleotide Analog, Is a Potent Inhibitor of SARS-CoV-2 and a Promising Oral Antiviral for Treatment of COVID-19. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65,	5.9	54
30	Screening of a Library of FDA-Approved Drugs Identifies Several Enterovirus Replication Inhibitors That Target Viral Protein 2C. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 2627-38	5.9	49
29	Novel 2-phenyl-5-[(E)-2-(thiophen-2-yl)ethenyl]-1,3,4-oxadiazole and 3-phenyl-5-[(E)-2-(thiophen-2-yl)ethenyl]-1,2,4-oxadiazole derivatives as dengue virus inhibitors targeting NS5 polymerase. <i>European Journal of Medicinal Chemistry</i> , 2016 , 109, 146-56	6.8	41
28	Synthesis of 5Xcap-0 and cap-1 RNAs using solid-phase chemistry coupled with enzymatic methylation by human (guanine-N ⁷)methyl transferase. <i>Rna</i> , 2012 , 18, 856-68	5.8	37
27	X-ray structure and activities of an essential Mononegavirales L-protein domain. <i>Nature Communications</i> , 2015 , 6, 8749	17.4	36
26	Structural and Functional Basis of the Fidelity of Nucleotide Selection by Flavivirus RNA-Dependent RNA Polymerases. <i>Viruses</i> , 2018 , 10,	6.2	34
25	Biflavonoids of <i>Dacrydium balansae</i> with potent inhibitory activity on dengue 2 NS5 polymerase. <i>Planta Medica</i> , 2012 , 78, 672-7	3.1	30
24	The methyltransferase domain of the Sudan ebolavirus L protein specifically targets internal adenosines of RNA substrates, in addition to the cap structure. <i>Nucleic Acids Research</i> , 2018 , 46, 7902-7912	29.1	27
23	Simeprevir Potently Suppresses SARS-CoV-2 Replication and Synergizes with Remdesivir. <i>ACS Central Science</i> , 2021 , 7, 792-802	16.8	24
22	Biochemical principles and inhibitors to interfere with viral capping pathways. <i>Current Opinion in Virology</i> , 2017 , 24, 87-96	7.5	19
21	Comparative production analysis of three phlebovirus nucleoproteins under denaturing or non-denaturing conditions for crystallographic studies. <i>PLoS Neglected Tropical Diseases</i> , 2011 , 5, e936	4.8	15
20	The 2C putative helicase of echovirus 30 adopts a hexameric ring-shaped structure. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010 , 66, 1116-20		12
19	A fluorescence-based high throughput-screening assay for the SARS-CoV RNA synthesis complex. <i>Journal of Virological Methods</i> , 2021 , 288, 114013	2.6	9
18	Inhibition of SARS-CoV-2 polymerase by nucleotide analogs: a single molecule perspective 2021 ,		8
17	The C-Terminal Domain of the Sudan Ebolavirus L Protein Is Essential for RNA Binding and Methylation. <i>Journal of Virology</i> , 2020 , 94,	6.6	7

16	Crystal structures of endonuclease domain complexed with diketo-acid ligands. <i>IUCrJ</i> , 2018 , 5, 223-235	4.7	7
15	Protein-primed RNA synthesis in SARS-CoVs and structural basis for inhibition by AT-527		7
14	A dual mechanism of action of AT-527 against SARS-CoV-2 polymerase.. <i>Nature Communications</i> , 2022 , 13, 621	17.4	6
13	Activity inhibition and crystal polymorphism induced by active-site metal swapping. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017 , 73, 641-649	5.5	5
12	Toscana virus nucleoprotein oligomer organization observed in solution. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017 , 73, 650-659	5.5	5
11	Brothers in Arms: Structure, Assembly and Function of Nucleoprotein. <i>Viruses</i> , 2020 , 12,	6.2	5
10	Structure-function analysis of the nsp14 N7-guanine methyltransferase reveals an essential role in replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
9	Arenaviridae exoribonuclease presents genomic RNA edition capacity		4
8	Evaluation of AT-752, a Double Prodrug of a Guanosine Nucleotide Analog with and Activity against Dengue and Other Flaviviruses. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , 65, e0098821	5.9	4
7	The methyltransferase domain of the Respiratory Syncytial Virus L protein catalyzes cap N7 and 2XO-methylation. <i>PLoS Pathogens</i> , 2021 , 17, e1009562	7.6	3
6	Metal chelators for the inhibition of the lymphocytic choriomeningitis virus endonuclease domain. <i>Antiviral Research</i> , 2019 , 162, 79-89	10.8	3
5	The nucleotide addition cycle of the SARS-CoV-2 polymerase 2021 ,		2
4	Fluoxetine targets an allosteric site in the enterovirus 2C AAA+ ATPase and stabilizes a ring-shaped hexameric complex.. <i>Science Advances</i> , 2022 , 8, eabj7615	14.3	1
3	Identification of aNidoviralesOrf1a N7-guanine cap Methyltransferase signature-sequence as a genetic marker of large genomeTobaniviridae		1
2	The enzymes for genome size increase and maintenance of large (+)RNA viruses. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 866-877	10.3	0
1	Observation of arenavirus nucleoprotein heptamer assembly. <i>FEBS Open Bio</i> , 2021 , 11, 1076-1083	2.7	