Bruno Canard

List of Publications by Year in Descending Order

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	Fluoxetine targets an allosteric site in the enterovirus 2C AAA+ ATPase and stabilizes a ring-shaped hexameric complex.. *Science Advances*, **2022**, 8, eabj7615	14.3	1
50	A dual mechanism of action of AT-527 against SARS-CoV-2 polymerase.. *Nature Communications*, **2022**, 13, 621	17.4	6
49	Structure-function analysis of the nsp14 N7-guanine methyltransferase reveals an essential role in replication. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
48	Inhibition of SARS-CoV-2 polymerase by nucleotide analogs: a single molecule perspective **2021**,		8
47	The nucleotide addition cycle of the SARS-CoV-2 polymerase **2021**,		2
46	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. *Antimicrobial Agents and Chemotherapy*, **2021**, 65,	5.9	54
45	Simeprevir Potently Suppresses SARS-CoV-2 Replication and Synergizes with Remdesivir. *ACS Central Science*, **2021**, 7, 792-802	16.8	24
44	The methyltransferase domain of the Respiratory Syncytial Virus L protein catalyzes cap N7 and 2′O-methylation. *PLoS Pathogens*, **2021**, 17, e1009562	7.6	3
43	The enzymes for genome size increase and maintenance of large (+)RNA viruses. *Trends in Biochemical Sciences*, **2021**, 46, 866-877	10.3	0
42	A fluorescence-based high throughput-screening assay for the SARS-CoV RNA synthesis complex. *Journal of Virological Methods*, **2021**, 288, 114013	2.6	9
41	Observation of arenavirus nucleoprotein heptamer assembly. *FEBS Open Bio*, **2021**, 11, 1076-1083	2.7	
40	Evaluation of AT-752, a Double Prodrug of a Guanosine Nucleotide Analog with and Activity against Dengue and Other Flaviviruses. *Antimicrobial Agents and Chemotherapy*, **2021**, 65, e0098821	5.9	4
39	Remdesivir and SARS-CoV-2: Structural requirements at both nsp12 RdRp and nsp14 Exonuclease active-sites. *Antiviral Research*, **2020**, 178, 104793	10.8	210
38	The C-Terminal Domain of the Sudan Ebolavirus L Protein Is Essential for RNA Binding and Methylation. *Journal of Virology*, **2020**, 94,	6.6	7
37	Brothers in Arms: Structure, Assembly and Function of Nucleoprotein. *Viruses*, **2020**, 12,	6.2	5
36	Rapid incorporation of Favipiravir by the fast and permissive viral RNA polymerase complex results in SARS-CoV-2 lethal mutagenesis. *Nature Communications*, **2020**, 11, 4682	17.4	105
35	The Curious Case of the Nidovirus Exoribonuclease: Its Role in RNA Synthesis and Replication Fidelity. *Frontiers in Microbiology*, **2019**, 10, 1813	5.7	86

34	Metal chelators for the inhibition of the lymphocytic choriomeningitis virus endonuclease domain. *Antiviral Research*, **2019**, 162, 79-89	10.8	3
33	Structural and molecular basis of mismatch correction and ribavirin excision from coronavirus RNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E162-E171	11.5	230
32	Structural and Functional Basis of the Fidelity of Nucleotide Selection by Flavivirus RNA-Dependent RNA Polymerases. *Viruses*, **2018**, 10,	6.2	34
31	Crystal structures of endonuclease domain complexed with diketo-acid ligands. *IUCrJ*, **2018**, 5, 223-235	4.7	7
30	The methyltransferase domain of the Sudan ebolavirus L protein specifically targets internal adenosines of RNA substrates, in addition to the cap structure. *Nucleic Acids Research*, **2018**, 46, 7902-7912	20.1	27
29	Biochemical principles and inhibitors to interfere with viral capping pathways. *Current Opinion in Virology*, **2017**, 24, 87-96	7.5	19
28	Zika Virus Methyltransferase: Structure and Functions for Drug Design Perspectives. *Journal of Virology*, **2017**, 91,	6.6	86
27	Activity inhibition and crystal polymorphism induced by active-site metal swapping. *Acta Crystallographica Section D: Structural Biology*, **2017**, 73, 641-649	5.5	5
26	Toscana virus nucleoprotein oligomer organization observed in solution. *Acta Crystallographica Section D: Structural Biology*, **2017**, 73, 650-659	5.5	5
25	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. *European Journal of Medicinal Chemistry*, **2016**, 109, 146-56	6.8	41
24	Screening of a Library of FDA-Approved Drugs Identifies Several Enterovirus Replication Inhibitors That Target Viral Protein 2C. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 2627-38	5.9	49
23	X-ray structure and activities of an essential Mononegavirales L-protein domain. *Nature Communications*, **2015**, 6, 8749	17.4	36
22	SARS-CoV ORF1b-encoded nonstructural proteins 12-16: replicative enzymes as antiviral targets. *Antiviral Research*, **2014**, 101, 122-30	10.8	113
21	One severe acute respiratory syndrome coronavirus protein complex integrates processive RNA polymerase and exonuclease activities. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3900-9	11.5	344
20	Selective serotonin reuptake inhibitor fluoxetine inhibits replication of human enteroviruses B and D by targeting viral protein 2C. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 1952-6	5.9	73
19	Synthesis of 5′cap-0 and cap-1 RNAs using solid-phase chemistry coupled with enzymatic methylation by human (guanine-N7)-methyl transferase. *Rna*, **2012**, 18, 856-68	5.8	37
18	Biflavonoids of Dacrydium balansae with potent inhibitory activity on dengue 2 NS5 polymerase. *Planta Medica*, **2012**, 78, 672-7	3.1	30
17	RNA 3′-end mismatch excision by the severe acute respiratory syndrome coronavirus nonstructural protein nsp10/nsp14 exoribonuclease complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9372-7	11.5	209

16	Conventional and unconventional mechanisms for capping viral mRNA. *Nature Reviews Microbiology* , **2011**, 10, 51-65	22.2	261
15	Comparative production analysis of three phlebovirus nucleoproteins under denaturing or non-denaturing conditions for crystallographic studies. *PLoS Neglected Tropical Diseases*, **2011**, 5, e936	4.8	15
14	The hexamer structure of Rift Valley fever virus nucleoprotein suggests a mechanism for its assembly into ribonucleoprotein complexes. *PLoS Pathogens*, **2011**, 7, e1002030	7.6	82
13	Crystal structure and functional analysis of the SARS-coronavirus RNA cap 2′-O-methyltransferase nsp10/nsp16 complex. *PLoS Pathogens*, **2011**, 7, e1002059	7.6	230
12	In vitro reconstitution of SARS-coronavirus mRNA cap methylation. *PLoS Pathogens*, **2010**, 6, e1000863	7.6	228
11	The 2C putative helicase of echovirus 30 adopts a hexameric ring-shaped structure. *Acta Crystallographica Section D: Biological Crystallography*, **2010**, 66, 1116-20		12
10	Coronavirus nonstructural protein 16 is a cap-0 binding enzyme possessing (nucleoside-2′O)-methyltransferase activity. *Journal of Virology*, **2008**, 82, 8071-84	6.6	177
9	The thiazolobenzimidazole TBZE-029 inhibits enterovirus replication by targeting a short region immediately downstream from motif C in the nonstructural protein 2C. *Journal of Virology*, **2008**, 82, 4720-30	6.6	61
8	Structural and functional analysis of methylation and 5′RNA sequence requirements of short capped RNAs by the methyltransferase domain of dengue virus NS5. *Journal of Molecular Biology*, **2007**, 372, 723-36	6.5	136
7	Discovery of an RNA virus 3′>5′exoribonuclease that is critically involved in coronavirus RNA synthesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5108-13	11.5	396
6	A second, non-canonical RNA-dependent RNA polymerase in SARS coronavirus. *EMBO Journal*, **2006** , 25, 4933-42	13	193
5	The severe acute respiratory syndrome-coronavirus replicative protein nsp9 is a single-stranded RNA-binding subunit unique in the RNA virus world. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 3792-6	11.5	210
4	An RNA cap (nucleoside-2′O-)-methyltransferase in the flavivirus RNA polymerase NS5: crystal structure and functional characterization. *EMBO Journal*, **2002**, 21, 2757-68	13	433
3	Arenaviridae exoribonuclease presents genomic RNA edition capacity		4
2	Identification of aNidoviralesOrf1a N7-guanine cap Methyltransferase signature-sequence as a genetic marker of large genomeTobaniviridae		1
1	Protein-primed RNA synthesis in SARS-CoVs and structural basis for inhibition by AT-527		7