

Etienne Decroly

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102
papers

7,042
citations

42
h-index

83
g-index

120
ext. papers

8,637
ext. citations

8.8
avg, IF

6.41
L-index

#	Paper	IF	Citations
102	The spike glycoprotein of the new coronavirus 2019-nCoV contains a furin-like cleavage site absent in CoV of the same clade. <i>Antiviral Research</i> , 2020 , 176, 104742	10.8	1035
101	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
100	The Nonstructural Proteins Directing Coronavirus RNA Synthesis and Processing. <i>Advances in Virus Research</i> , 2016 , 96, 59-126	10.7	326
99	Conventional and unconventional mechanisms for capping viral mRNA. <i>Nature Reviews Microbiology</i> , 2011 , 10, 51-65	22.2	261
98	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
97	Crystal structure and functional analysis of the SARS-coronavirus RNA cap 2'-O-methyltransferase nsp10/nsp16 complex. <i>PLoS Pathogens</i> , 2011 , 7, e1002059	7.6	230
96	In vitro reconstitution of SARS-coronavirus mRNA cap methylation. <i>PLoS Pathogens</i> , 2010 , 6, e1000863	7.6	228
95	Structure and functionality in flavivirus NS-proteins: perspectives for drug design. <i>Antiviral Research</i> , 2010 , 87, 125-48	10.8	227
94	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
93	RNA 3'-end 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
92	In vitro screening of a FDA approved chemical library reveals potential inhibitors of SARS-CoV-2 replication. <i>Scientific Reports</i> , 2020 , 10, 13093	4.9	205
91	Coronavirus nonstructural protein 16 is a cap-0 binding enzyme possessing (nucleoside-2'-O)-methyltransferase activity. <i>Journal of Virology</i> , 2008 , 82, 8071-84	6.6	177
90	Structural and functional analysis of methylation and 5'-RNA 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
89	Insights into RNA synthesis, capping, and proofreading mechanisms of SARS-coronavirus. <i>Virus Research</i> , 2014 , 194, 90-9	6.4	135
88	Coronavirus Nsp10, a critical co-factor for activation of multiple replicative enzymes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25783-96	5.4	116
87	SARS-CoV ORF1b-encoded nonstructural proteins 12-16: replicative enzymes as antiviral targets. <i>Antiviral Research</i> , 2014 , 101, 122-30	10.8	113
86	The prosegments of furin and PC7 as potent inhibitors of proprotein convertases. In vitro and ex vivo assessment of their efficacy and selectivity. <i>Journal of Biological Chemistry</i> , 1999 , 274, 33913-20	5.4	112

85	The pore-forming toxin proaerolysin is activated by furin. <i>Journal of Biological Chemistry</i> , 1998 , 273, 32656-61	111
84	Maturation of HIV envelope glycoprotein precursors by cellular endoproteases. <i>BBA - Biomembranes</i> , 2000 , 1469, 121-32	105
83	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
82	Comparative cellular processing of the human immunodeficiency virus (HIV-1) envelope glycoprotein gp160 by the mammalian subtilisin/kexin-like convertases. <i>Biochemical Journal</i> , 1996 , 314 (Pt 2), 521-32	3.8 97
81	Identification of the paired basic convertases implicated in HIV gp160 processing based on in vitro assays and expression in CD4(+) cell lines. <i>Journal of Biological Chemistry</i> , 1996 , 271, 30442-50	5.4 96
80	FTSJ3 is an RNA 2'-O-methyltransferase recruited by HIV to avoid innate immune sensing. <i>Nature</i> , 2019 , 565, 500-504	50.4 91
79	Orientation and structure of the NH2-terminal HIV-1 gp41 peptide in fused and aggregated liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993 , 1145, 124-33	3.8 88
78	HIV-1 and MLV Gag proteins are sufficient to recruit APOBEC3G into virus-like particles. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 321, 566-73	3.4 87
77	Zika Virus Methyltransferase: Structure and Functions for Drug Design Perspectives. <i>Journal of Virology</i> , 2017 , 91,	6.6 86
76	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
75	Virtual screening and bioassay study of novel inhibitors for dengue virus mRNA cap (nucleoside-2'O)-methyltransferase. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 7795-802	3.4 66
74	Structure of the Respiratory Syncytial Virus Polymerase Complex. <i>Cell</i> , 2019 , 179, 193-204.e14	56.2 64
73	Recognition of RNA cap in the Wesselsbron virus NS5 methyltransferase domain: implications for RNA-capping mechanisms in Flavivirus. <i>Journal of Molecular Biology</i> , 2009 , 385, 140-52	6.5 63
72	The viral RNA capping machinery as a target for antiviral drugs. <i>Antiviral Research</i> , 2012 , 96, 21-31	10.8 59
71	Flaviviral methyltransferase/RNA interaction: structural basis for enzyme inhibition. <i>Antiviral Research</i> , 2009 , 83, 28-34	10.8 57
70	Processing of alpha4 integrin by the proprotein convertases: histidine at position P6 regulates cleavage. <i>Biochemical Journal</i> , 2003 , 373, 475-84	3.8 55
69	Discovery of novel dengue virus NS5 methyltransferase non-nucleoside inhibitors by fragment-based drug design. <i>European Journal of Medicinal Chemistry</i> , 2017 , 125, 865-880	6.8 51
68	The tyrosine kinase Hck is an inhibitor of HIV-1 replication counteracted by the viral vif protein. <i>Journal of Biological Chemistry</i> , 2001 , 276, 16885-93	5.4 51

67	Molecular mapping of the RNA Cap 2'-O-methyltransferase activation interface between severe acute respiratory syndrome coronavirus nsp10 and nsp16. <i>Journal of Biological Chemistry</i> , 2010 , 285, 33230-33241	5.4	49
66	Comparative functional role of PC7 and furin in the processing of the HIV envelope glycoprotein gp160. <i>FEBS Letters</i> , 1997 , 405, 68-72	3.8	49
65	The methyltransferase domain of dengue virus protein NS5 ensures efficient RNA synthesis initiation and elongation by the polymerase domain. <i>Nucleic Acids Research</i> , 2014 , 42, 11642-56	20.1	48
64	Assessment of Dengue virus helicase and methyltransferase as targets for fragment-based drug discovery. <i>Antiviral Research</i> , 2014 , 106, 61-70	10.8	47
63	Biochemical characterization of the (nucleoside-2'O)-methyltransferase activity of dengue virus protein NS5 using purified capped RNA oligonucleotides (7Me)GpppAC(n) and GpppAC(n). <i>Journal of General Virology</i> , 2010 , 91, 112-21	4.9	46
62	High-yield production of short GpppA- and 7MeGpppA-capped RNAs and HPLC-monitoring of methyltransfer reactions at the guanine-N7 and adenosine-2'O positions. <i>Nucleic Acids Research</i> , 2007 , 35, e26	20.1	44
61	Cooperative and specific binding of Vif to the 5' region of HIV-1 genomic RNA. <i>Journal of Molecular Biology</i> , 2005 , 354, 55-72	6.5	43
60	Binding of the Methyl Donor -Adenosyl-L-Methionine to Middle East Respiratory Syndrome Coronavirus 2'-Methyltransferase nsp16 Promotes Recruitment of the Allosteric Activator nsp10. <i>Journal of Virology</i> , 2017 , 91,	6.6	42
59	Furin and proprotein convertase 7 (PC7)/lymphoma PC endogenously expressed in rat liver can be resolved into distinct post-Golgi compartments. <i>Biochemical Journal</i> , 1998 , 336 (Pt 2), 311-6	3.8	39
58	mRNA Capping by Venezuelan Equine Encephalitis Virus nsP1: Functional Characterization and Implications for Antiviral Research. <i>Journal of Virology</i> , 2015 , 89, 8292-303	6.6	38
57	In vitro screening of a FDA approved chemical library reveals potential inhibitors of SARS-CoV-2 replication		38
56	Synthesis of 5' cap-0 and cap-1 RNAs using solid-phase chemistry coupled with enzymatic methylation by human (guanine-N7)-methyl transferase. <i>Rna</i> , 2012 , 18, 856-68	5.8	37
55	X-ray structure and activities of an essential Mononegavirales L-protein domain. <i>Nature Communications</i> , 2015 , 6, 8749	17.4	36
54	Interaction of human immunodeficiency virus type 1 Vif with Gag and Gag-Pol precursors: co-encapsidation and interference with viral protease-mediated Gag processing. <i>Journal of General Virology</i> , 2001 , 82, 2719-2733	4.9	36
53	Antiviral activity of [1,2,3]triazolo[4,5-d]pyrimidin-7(6H)-ones against chikungunya virus targeting the viral capping nsP1. <i>Antiviral Research</i> , 2017 , 144, 216-222	10.8	35
52	Development of specific dengue virus 2'-O- and N7-methyltransferase assays for antiviral drug screening. <i>Antiviral Research</i> , 2013 , 99, 292-300	10.8	34
51	Favipiravir strikes the SARS-CoV-2 at its Achilles heel, the RNA polymerase 2020 ,		33
50	Tracing the origins of SARS-COV-2 in coronavirus phylogenies: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1-17	13.3	31

49	The Vif protein of human immunodeficiency virus type 1 is posttranslationally modified by ubiquitin. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 66-72	3.4	30
48	Structure-based drug repositioning over the human TMPRSS2 protease domain: search for chemical probes able to repress SARS-CoV-2 Spike protein cleavages. <i>European Journal of Pharmaceutical Sciences</i> , 2020 , 153, 105495	5.1	28
47	Synthesis of adenine dinucleosides SAM analogs as specific inhibitors of SARS-CoV nsp14 RNA cap guanine-N7-methyltransferase. <i>European Journal of Medicinal Chemistry</i> , 2020 , 201, 112557	6.8	27
46	Filovirus proteins for antiviral drug discovery: A structure/function analysis of surface glycoproteins and virus entry. <i>Antiviral Research</i> , 2016 , 135, 1-14	10.8	27
45	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	39.1	27
44	Toward the identification of viral cap-methyltransferase inhibitors by fluorescence screening assay. <i>Antiviral Research</i> , 2017 , 144, 330-339	10.8	26
43	Filovirus proteins for antiviral drug discovery: Structure/function bases of the replication cycle. <i>Antiviral Research</i> , 2017 , 141, 48-61	10.8	25
42	The tyrosine kinases Fyn and Hck favor the recruitment of tyrosine-phosphorylated APOBEC3G into vif-defective HIV-1 particles. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 329, 917-24	3.4	21
41	Comparative processing of bovine leukemia virus envelope glycoprotein gp72 by subtilisin/kexin-like mammalian convertases. <i>FEBS Letters</i> , 1997 , 406, 205-10	3.8	20
40	Drugs against SARS-CoV-2: What do we know about their mode of action?. <i>Reviews in Medical Virology</i> , 2020 , 30, 1-10	11.7	20
39	Biochemical principles and inhibitors to interfere with viral capping pathways. <i>Current Opinion in Virology</i> , 2017 , 24, 87-96	7.5	19
38	Human Discs Large is a new negative regulator of human immunodeficiency virus-1 infectivity. <i>Molecular Biology of the Cell</i> , 2009 , 20, 498-508	3.5	19
37	Hijacking DNA methyltransferase transition state analogues to produce chemical scaffolds for PRMT inhibitors. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	16
36	Crystallization and diffraction analysis of the SARS coronavirus nsp10-nsp16 complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 404-8		15
35	Filovirus proteins for antiviral drug discovery: Structure/function of proteins involved in assembly and budding. <i>Antiviral Research</i> , 2018 , 150, 183-192	10.8	14
34	Occurrence of an HIV-1 gp160 endoproteolytic activity in low-density vesicles and evidence for a distinct density distribution from endogenously expressed furin and PC7/LPC convertases. <i>FEBS Letters</i> , 1999 , 456, 97-102	3.8	14
33	APOBEC3G ubiquitination by Nedd4-1 favors its packaging into HIV-1 particles. <i>Journal of Molecular Biology</i> , 2005 , 345, 547-58	6.5	13
32	Approved drugs screening against the nsP1 capping enzyme of Venezuelan equine encephalitis virus using an immuno-based assay. <i>Antiviral Research</i> , 2019 , 163, 59-69	10.8	13

31	Secondary structure of gp160 and gp120 envelope glycoproteins of human immunodeficiency virus type 1: a Fourier transform infrared spectroscopic study. <i>Journal of Virology</i> , 1993 , 67, 3552-60	6.6	12
30	Optimization of a fragment linking hit toward Dengue and Zika virus NS5 methyltransferases inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2019 , 161, 323-333	6.8	12
29	An anti-human immunodeficiency virus multiple antigen peptide encompassing the cleavage region of the env precursor interferes with membrane fusion at a post-CD4 binding step. <i>Virology</i> , 2000 , 273, 169-77	3.6	11
28	Involvement of an Arginine Triplet in M1 Matrix Protein Interaction with Membranes and in M1 Recruitment into Virus-Like Particles of the Influenza A(H1N1)pdm09 Virus. <i>PLoS ONE</i> , 2016 , 11, e0165427	3.7	11
27	Evaluation of Adamantane Derivatives as Inhibitors of Dengue Virus mRNA Cap Methyltransferase by Docking and Molecular Dynamics Simulations. <i>Molecular Informatics</i> , 2013 , 32, 155-64	3.8	9
26	Design, Synthesis and Discovery of N,N'-Carbazoyl-aryl-urea Inhibitors of Zika NS5 Methyltransferase and Virus Replication. <i>ChemMedChem</i> , 2020 , 15, 385-390	3.7	9
25	Novel Class of Chikungunya Virus Small Molecule Inhibitors That Targets the Viral Capping Machinery. <i>Antimicrobial Agents and Chemotherapy</i> , 2020 , 64,	5.9	8
24	Implications of Spike-glycoprotein processing at S1/S2 by Furin, at S2 by Furin and/or TMPRSS2 and shedding of ACE2: cell-to-cell fusion, cell entry and infectivity of SARS-CoV-2		8
23	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
22	Properties of HIV membrane reconstituted from its recombinant gp160 envelope glycoprotein. <i>AIDS Research and Human Retroviruses</i> , 1992 , 8, 1823-31	1.6	7
21	Synthesis and biological evaluation of novel flexible nucleoside analogues that inhibit flavivirus replication in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115713	3.4	7
20	Protein-primed RNA synthesis in SARS-CoVs and structural basis for inhibition by AT-527		7
19	Distinctive Roles of Furin and TMPRSS2 in SARS-CoV-2 Infectivity.. <i>Journal of Virology</i> , 2022 , e0012822	6.6	7
18	C3P3-G1: first generation of a eukaryotic artificial cytoplasmic expression system. <i>Nucleic Acids Research</i> , 2019 , 47, 2681-2698	20.1	6
17	A dual mechanism of action of AT-527 against SARS-CoV-2 polymerase.. <i>Nature Communications</i> , 2022 , 13, 621	17.4	6
16	Mutations on VEEV nsP1 relate RNA capping efficiency to ribavirin susceptibility. <i>Antiviral Research</i> , 2020 , 182, 104883	10.8	6
15	A N7-guanine RNA cap methyltransferase signature-sequence as a genetic marker of large genome, non-mammalian. <i>NAR Genomics and Bioinformatics</i> , 2020 , 2, lqz022	3.7	5
14	An appeal for an objective, open, and transparent scientific debate about the origin of SARS-CoV-2. <i>Lancet, The</i> , 2021 , 398, 1402-1404	40	5

13	Reevaluation of possible outcomes of infections with human immunodeficiency virus. <i>Clinical Microbiology and Infection</i> , 2016 , 22, 299-311	9.5	4
12	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
11	First insights into the structural features of Ebola virus methyltransferase activities. <i>Nucleic Acids Research</i> , 2021 , 49, 1737-1748	20.1	4
10	Synthesis of Adenine Dinucleosides 2',5'-Bridged by Sulfur-Containing Linkers as Bisubstrate SAM Analogues for Viral RNA 2'-O-Methyltransferases. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 6486-6495	3.2	3
9	The methyltransferase domain of the Respiratory Syncytial Virus L protein catalyzes cap N7 and 2'-O-methylation. <i>PLoS Pathogens</i> , 2021 , 17, e1009562	7.6	3
8	A closed-handed affair: positive-strand RNA virus polymerases. <i>Future Virology</i> , 2014 , 9, 769-784	2.4	1
7	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
6	Identification of aNidoviralesOrf1a N7-guanine cap Methyltransferase signature-sequence as a genetic marker of large genomeTobaniviridae		1
5	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
4	Structure and Sequence Requirements for RNA Capping at the Venezuelan Equine Encephalitis Virus RNA 5' End. <i>Journal of Virology</i> , 2021 , 95, e0077721	6.6	0
3	System-oriented optimization of multi-target 2,6-diaminopurine derivatives: Easily accessible broad-spectrum antivirals active against flaviviruses, influenza virus and SARS-CoV-2. <i>European Journal of Medicinal Chemistry</i> , 2021 , 224, 113683	6.8	0
2	Les enzymes de la r�plication/transcription chez les coronavirus. <i>Virologie</i> , 2012 , 16, 199-209	0.4	
1	Structures and exoribonuclease activity fonctions in arenavirus and coronavirus. <i>Virologie</i> , 2013 , 17, 317-330	0.4	