Steeve Boulant

List of Publications by Year
in descending order

85	8,098	81839	56687
papers	citations	39 h-index	83 g-index

106	106	106	12043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Peroxisomes Are Signaling Platforms for Antiviral Innate Immunity. Cell, 2010, 141, 668-681.	13.5	717
2	A colorimetric RT-LAMP assay and LAMP-sequencing for detecting SARS-CoV-2 RNA in clinical samples. Science Translational Medicine, 2020, 12, .	5.8	516
3	SARS-CoV-2 structure and replication characterized by in situ cryo-electron tomography. Nature Communications, 2020, 11, 5885.	5.8	514
4	Actin dynamics counteract membrane tension during clathrin-mediated endocytosis. Nature Cell Biology, 2011, 13, 1124-1131.	4.6	488
5	The First Five Seconds in the Life of a Clathrin-Coated Pit. Cell, 2012, 150, 495-507.	13.5	341
6	Diverse intracellular pathogens activate type III interferon expression from peroxisomes. Nature Immunology, 2014, 15, 717-726.	7.0	311
7	Critical Role of Type III Interferon in Controlling SARS-CoV-2 Infection in Human Intestinal Epithelial Cells. Cell Reports, 2020, 32, 107863.	2.9	295
8	Perforin pores in the endosomal membrane trigger the release of endocytosed granzyme B into the cytosol of target cells. Nature Immunology, 2011, 12, 770-777.	7.0	251
9	Disrupting the association of hepatitis C virus core protein with lipid droplets correlates with a loss in production of infectious virus. Journal of General Virology, 2007, 88, 2204-2213.	1.3	225
10	TMPRSS2 expression dictates the entry route used by SARSâ€CoVâ€2 to infect host cells. EMBO Journal, 2021, 40, e107821.	3.5	223
11	The Lipid Droplet Binding Domain of Hepatitis C Virus Core Protein Is a Major Determinant for Efficient Virus Assembly. Journal of Biological Chemistry, 2007, 282, 37158-37169.	1.6	218
12	Interferons and viruses induce a novel truncated ACE2 isoform and not the full-length SARS-CoV-2 receptor. Nature Genetics, 2020, 52, 1283-1293.	9.4	217
13	Integrative Imaging Reveals SARS-CoV-2-Induced Reshaping of Subcellular Morphologies. Cell Host and Microbe, 2020, 28, 853-866.e5.	5.1	213
14	Hepatitis C Virus Core Protein Induces Lipid Droplet Redistribution in a Microtubuleâ€•and Dyneinâ€Dependent Manner. Traffic, 2008, 9, 1268-1282.	1.3	194
15	Structural Determinants That Target the Hepatitis C Virus Core Protein to Lipid Droplets. Journal of Biological Chemistry, 2006, 281, 22236-22247.	1.6	188
16	Visualization of Double-Stranded RNA in Cells Supporting Hepatitis C Virus RNA Replication. Journal of Virology, 2008, 82, 2182-2195.	1.5	157
17	Dynamics of Virus-Receptor Interactions in Virus Binding, Signaling, and Endocytosis. Viruses, 2015, 7, 2794-2815.	1.5	157
18	Differential Regulation of Type I and Type III Interferon Signaling. International Journal of Molecular Sciences, 2019, 20, 1445.	1.8	147

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19	Hepatitis C Virus Core Protein Is a Dimeric Alpha-Helical Protein Exhibiting Membrane Protein Features. Journal of Virology, 2005, 79, 11353-11365.	1.5	128
20	Clathrin-adaptor ratio and membrane tension regulate the flat-to-curved transition of the clathrin coat during endocytosis. Nature Communications, 2018, 9, 1109.	5.8	109
21	miR-16 and miR-125b are involved in barrier function dysregulation through the modulation of claudin-2 and cingulin expression in the jejunum in IBS with diarrhoea. Gut, 2017, 66, 1537.1-1538.	6.1	105
22	The hepatitis C virus Core protein is a potent nucleic acid chaperone that directs dimerization of the viral (+) strand RNA in vitro. Nucleic Acids Research, 2004, 32, 2623-2631.	6.5	104
23	Differential induction of interferon stimulated genes between type I and type III interferons is independent of interferon receptor abundance. PLoS Pathogens, 2018, 14, e1007420.	2.1	100
24	Importance of Type I and III Interferons at Respiratory and Intestinal Barrier Surfaces. Frontiers in Immunology, 2020, 11, 608645.	2.2	100
25	Requirement of cellular DDX3 for hepatitis C virus replication is unrelated to its interaction with the viral core protein. Journal of General Virology, 2010, 91, 122-132.	1.3	96
26	Type I and Type III Interferons Display Different Dependency on Mitogen-Activated Protein Kinases to Mount an Antiviral State in the Human Gut. Frontiers in Immunology, 2017, 8, 459.	2.2	84
27	Maturation of Hepatitis C Virus Core Protein by Signal Peptide Peptidase Is Required for Virus Production. Journal of Biological Chemistry, 2008, 283, 16850-16859.	1.6	78
28	Singleâ€cell analyses reveal SARSâ€CoVâ€2 interference with intrinsic immune response in the human gut. Molecular Systems Biology, 2021, 17, e10232.	3.2	78
29	Silibinin inhibits hepatitis C virus entry into hepatocytes by hindering clathrin-dependent trafficking. Cellular Microbiology, 2013, 15, n/a-n/a.	1.1	73
30	3D Correlative Cryo-Structured Illumination Fluorescence and Soft X-ray Microscopy Elucidates Reovirus Intracellular Release Pathway. Cell, 2020, 182, 515-530.e17.	13.5	73
31	Unusual Multiple Recoding Events Leading to Alternative Forms of Hepatitis C Virus Core Protein from Genotype 1b. Journal of Biological Chemistry, 2003, 278, 45785-45792.	1.6	72
32	Arbidol inhibits viral entry by interfering with clathrin-dependent trafficking. Antiviral Research, 2013, 100, 215-219.	1.9	72
33	Nucleolin Associates with the Human Cytomegalovirus DNA Polymerase Accessory Subunit UL44 and Is Necessary for Efficient Viral Replication. Journal of Virology, 2010, 84, 1771-1784.	1.5	66
34	Initiation of Hepatitis C Virus Infection Requires the Dynamic Microtubule Network. Journal of Biological Chemistry, 2009, 284, 13778-13791.	1.6	64
35	Dynamics of Intracellular Clathrin/AP1- and Clathrin/AP3-Containing Carriers. Cell Reports, 2012, 2, 1111-1119.	2.9	55
36	Genetic regulation of OAS1 nonsense-mediated decay underlies association with COVID-19 hospitalization in patients of European and African ancestries. Nature Genetics, 2022, 54, 1103-1116.	9.4	54

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37	Similar uptake but different trafficking and escape routes of reovirus virions and infectious subvirion particles imaged in polarized Madinâ€“Darby canine kidney cells. Molecular Biology of the Cell, 2013, 24, 1196-1207.	0.9	47
38	Asymmetric distribution of TLR3 leads to a polarized immune response in human intestinal epithelial cells. Nature Microbiology, 2020, 5, 181-191.	5.9	45
39	Lipid Metabolism and HCV Infection. Viruses, 2010, 2, 1195-1217.	1.5	43
40	Human Cytomegalovirus UL44 Concentrates at the Periphery of Replication Compartments, the Site of Viral DNA Synthesis. Journal of Virology, 2012, 86, 2089-2095.	1.5	42
41	Bin1 directly remodels actin dynamics through its <scp>BAR</scp> domain. EMBO Reports, 2017, 18, 2051-2066.	2.0	42
42	A diabetic milieu increases ACE2 expression and cellular susceptibility to SARS-CoV-2 infections in human kidney organoids and patient cells. Cell Metabolism, 2022, 34, 857-873.e9.	7.2	40
43	Hepatitis C Virus Core Protein Acts as a trans-Modulating Factor on Internal Translation Initiation of the Viral RNA. Journal of Biological Chemistry, 2005, 280, 17737-17748.	1.6	39
44	Reovirus inhibits interferon production by sequestering IRF3 into viral factories. Scientific Reports, 2017, 7, 10873.	1.6	39
45	Host Cell Nucleolin Is Required To Maintain the Architecture of Human Cytomegalovirus Replication Compartments. MBio, 2012, 3, .	1.8	38
46	Novel Chimeric Gene Therapy Vectors Based on Adeno-Associated Virus and Four Different Mammalian Bocaviruses. Molecular Therapy - Methods and Clinical Development, 2019, 12, 202-222.	1.8	38
47	Reovirus intermediate subviral particles constitute a strategy to infect intestinal epithelial cells by exploiting TGF-Î² dependent pro-survival signaling. Cellular Microbiology, 2016, 18, 1831-1845.	1.1	36
48	NSs amyloid formation is associated with the virulence of Rift Valley fever virus in mice. Nature Communications, 2020, 11, 3281.	5.8	36
49	Forces during cellular uptake of viruses and nanoparticles at the ventral side. Nature Communications, 2020, 11, 32.	5.8	35
50	Hypoxic Environment Promotes Barrier Formation in Human Intestinal Epithelial Cells through Regulation of MicroRNA 320a Expression. Molecular and Cellular Biology, 2019, 39, .	1.1	34
51	Multivalent 9-O-Acetylated-sialic acid glycoclusters as potent inhibitors for SARS-CoV-2 infection. Nature Communications, 2022, 13, 2564.	5.8	32
52	Transcriptional slippage prompts recoding in alternate reading frames in the hepatitis C virus (HCV) core sequence from strain HCV-1. Journal of General Virology, 2008, 89, 1569-1578.	1.3	31
53	Expression of the alternative reading frame protein of Hepatitis C virus induces cytokines involved in hepatic injuries. Journal of General Virology, 2007, 88, 1149-1162.	1.3	30
54	Teratogenic Rubella Virus Alters the Endodermal Differentiation Capacity of Human Induced Pluripotent Stem Cells. Cells, 2019, 8, 870.	1.8	29

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55	A family of conserved bacterial virulence factors dampens interferon responses by blocking calcium signaling. Cell, 2022, 185, 2354-2369.e17.	13.5	26
56	HIV-1 Vpu Antagonizes CD317/Tetherin by Adaptor Protein-1-Mediated Exclusion from Virus Assembly Sites. Journal of Virology, 2016, 90, 6709-6723.	1.5	25
57	Genome packaging of reovirus is mediated by the scaffolding property of the microtubule network. Cellular Microbiology, 2017, 19, e12765.	1.1	25
58	Recruitment of Cellular Clathrin to Viral Factories and Disruption of Clathrinâ€Dependent Trafficking. Traffic, 2011, 12, 1179-1195.	1.3	24
59	Singleâ€cell transcriptomics reveals immune response of intestinal cell types to viral infection. Molecular Systems Biology, 2021, 17, e9833.	3.2	24
60	Microscopyâ€based assay for semiâ€quantitative detection of SARSâ€CoVâ€2 specific antibodies in human sera. BioEssays, 2021, 43, e2000257.	1.2	22
61	The FDA-Approved Drug Cobicistat Synergizes with Remdesivir To Inhibit SARS-CoV-2 Replication In Vitro and Decreases Viral Titers and Disease Progression in Syrian Hamsters. MBio, 2022, 13, e0370521.	1.8	22
62	Host factors facilitating SARSâ€CoVâ€2 virus infection and replication in the lungs. Cellular and Molecular Life Sciences, 2021, 78, 5953-5976.	2.4	19
63	Surface Immobilization of Viruses and Nanoparticles Elucidates Early Events in Clathrin-Mediated Endocytosis. ACS Infectious Diseases, 2018, 4, 1585-1600.	1.8	18
64	Development of Feline Ileum- and Colon-Derived Organoids and Their Potential Use to Support Feline Coronavirus Infection. Cells, 2020, 9, 2085.	1.8	17
65	SARSâ€CoVâ€2 infection remodels the host protein thermal stability landscape. Molecular Systems Biology, 2021, 17, e10188.	3.2	17
66	Increased Sensitivity of SARS-CoV-2 to Type III Interferon in Human Intestinal Epithelial Cells. Journal of Virology, 2022, 96, e0170521.	1.5	17
67	Selective Janus kinase inhibition preserves interferon-Î»â€“mediated antiviral responses. Science Immunology, 2021, 6, .	5.6	16
68	A PRDX1â€p38Î± heterodimer amplifies METâ€driven invasion of IDHâ€wildtype and IDHâ€mutant gliomas. International Journal of Cancer, 2018, 143, 1176-1187.	2.3	14
69	Rubella Virus Strain-Associated Differences in the Induction of Oxidative Stress Are Independent of Their Interferon Activation. Viruses, 2018, 10, 540.	1.5	11
70	Eden growth models for flat clathrin lattices with vacancies. New Journal of Physics, 2020, 22, 073043.	1.2	11
71	Novel Toscana Virus Reverse Genetics System Establishes NSs as an Antagonist of Type I Interferon Responses. Viruses, 2020, 12, 400.	1.5	10
72	ExÂvivo and inÂvivo suppression of SARS-CoV-2 with combinatorial AAV/RNAi expression vectors. Molecular Therapy, 2022, 30, 2005-2023.	3.7	10

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73	Type-Specific Crosstalk Modulates Interferon Signaling in Intestinal Epithelial Cells. Journal of Interferon and Cytokine Research, 2019, 39, 650-660.	0.5	9
74	Subcellular localizations of the hepatitis C virus alternate reading frame proteins. Virus Research, 2009, 139, 106-110.	1.1	7
75	The origin of diarrhea in rotavirus infection. Science, 2020, 370, 909-910.	6.0	7
76	Reversible Fusion Proteins as a Tool to Enhance Uptake of Virus-Functionalized LbL Microcarriers. Biomacromolecules, 2018, 19, 3212-3223.	2.6	6
77	Role of Clathrin Light Chains in Regulating Invadopodia Formation. Cells, 2021, 10, 451.	1.8	6
78	Conserved Induction of Distinct Antiviral Signalling Kinetics by Primate Interferon Lambda 4 Proteins. Frontiers in Immunology, 2021, 12, 772588.	2.2	6
79	Enhanced Uptake and Endosomal Release of LbL Microcarriers Functionalized with Reversible Fusion Proteins. ACS Applied Bio Materials, 2020, 3, 1553-1567.	2.3	5
80	Assaying the Contribution of Membrane Tension to Clathrin-Mediated Endocytosis. Methods in Molecular Biology, 2018, 1847, 37-50.	0.4	3
81	Invasiveness of Escherichia coli Is Associated with an IncFII Plasmid. Pathogens, 2021, 10, 1645.	1.2	3
82	Mapping the epithelialâ€“immune cell interactome upon infection in the gut and the upper airways. Npj Systems Biology and Applications, 2022, 8, 15.	1.4	3
83	Adapting Gastrointestinal Organoids for Pathogen Infection and Single Cell Sequencing under Biosafety Level 3 (BSL-3) Conditions. Journal of Visualized Experiments, 2021, , .	0.2	1
84	Dynamics of Intracellular Clathrin Carriers. Biophysical Journal, 2014, 106, 310a.	0.2	0
85	Modeling the Flat to Curved Transition during Clathrin Mediated Endocytosis. Biophysical Journal, 2018, 114, 280a.	0.2	0