

Johnson Mak

List of Publications by Year in descending order

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95
papers

5,191
citations

81900

39
h-index

91884

69
g-index

100
all docs

100
docs citations

100
times ranked

5335
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial membrane vesicles deliver peptidoglycan to NOD1 in epithelial cells. <i>Cellular Microbiology</i> , 2010, 12, 372-385.	2.1	382
2	Dimerization of retroviral RNA genomes: an inseparable pair. <i>Nature Reviews Microbiology</i> , 2004, 2, 461-472.	28.6	257
3	Lipid rafts and HIV-1: from viral entry to assembly of progeny virions. <i>Journal of Clinical Virology</i> , 2001, 22, 217-227.	3.1	248
4	Establishment of HIV-1 latency in resting CD4 ⁺ T cells depends on chemokine-induced changes in the actin cytoskeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16934-16939.	7.1	218
5	Maintenance of the Gag/Gag-Pol Ratio Is Important for Human Immunodeficiency Virus Type 1 RNA Dimerization and Viral Infectivity. <i>Journal of Virology</i> , 2001, 75, 1834-1841.	3.4	205
6	Identification of tRNAs incorporated into wild-type and mutant human immunodeficiency virus type 1. <i>Journal of Virology</i> , 1993, 67, 3246-3253.	3.4	205
7	Primer tRNAs for reverse transcription. <i>Journal of Virology</i> , 1997, 71, 8087-8095.	3.4	204
8	Role of Pr160gag-pol in mediating the selective incorporation of tRNA(Lys) into human immunodeficiency virus type 1 particles. <i>Journal of Virology</i> , 1994, 68, 2065-2072.	3.4	193
9	Mutations in the kissing-loop hairpin of human immunodeficiency virus type 1 reduce viral infectivity as well as genomic RNA packaging and dimerization. <i>Journal of Virology</i> , 1997, 71, 3397-3406.	3.4	154
10	Effects of alterations of primer-binding site sequences on human immunodeficiency virus type 1 replication. <i>Journal of Virology</i> , 1994, 68, 6198-6206.	3.4	134
11	Virion-associated cholesterol is critical for the maintenance of HIV-1 structure and infectivity. <i>Aids</i> , 2002, 16, 2253-2261.	2.2	121
12	The origin of genetic diversity in HIV-1. <i>Virus Research</i> , 2012, 169, 415-429.	2.2	110
13	Defective phagocytosis by human monocyte/macrophages following HIV-1 infection: underlying mechanisms and modulation by adjunctive cytokine therapy. <i>Journal of Clinical Virology</i> , 2003, 26, 247-263.	3.1	104
14	Specific recognition of the HIV-1 genomic RNA by the Gag precursor. <i>Nature Communications</i> , 2014, 5, 4304.	12.8	103
15	HIV infection of dendritic cells subverts the IFN induction pathway via IRF-1 and inhibits type 1 IFN production. <i>Blood</i> , 2011, 118, 298-308.	1.4	102
16	Potent Nonnucleoside Reverse Transcriptase Inhibitors Target HIV-1 Gag-Pol. <i>PLoS Pathogens</i> , 2006, 2, e119.	4.7	95
17	Reducing chimera formation during PCR amplification to ensure accurate genotyping. <i>Gene</i> , 2010, 469, 45-51.	2.2	90
18	Incorporation of excess wild-type and mutant tRNA(3Lys) into human immunodeficiency virus type 1. <i>Journal of Virology</i> , 1994, 68, 7676-7683.	3.4	82

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19	Proteolytic Processing of the P2/Nucleocapsid Cleavage Site Is Critical for Human Immunodeficiency Virus Type 1 RNA Dimer Maturation. <i>Journal of Virology</i> , 2001, 75, 9156-9164.	3.4	80
20	HIV-1 Down-Modulates $\hat{I}\beta$ Signaling Chain of $\text{Fc}\hat{I}\beta\text{R}$ in Human Macrophages: A Possible Mechanism for Inhibition of Phagocytosis. <i>Journal of Immunology</i> , 2002, 168, 2895-2903.	0.8	79
21	Effects of mutations in Pr160gag-pol upon tRNA ^{Lys3} and Pr160gag-pol incorporation into HIV-1. <i>Journal of Molecular Biology</i> , 1997, 265, 419-431.	4.2	70
22	Granulocyte-Macrophage Colony-Stimulating Factor Augments Phagocytosis of <i>Mycobacterium avium</i> Complex by Human Immunodeficiency Virus Type 1-Infected Monocytes/Macrophages In Vitro and In Vivo. <i>Journal of Infectious Diseases</i> , 2000, 181, 390-394.	4.0	64
23	Mutational interference mapping experiment (MIME) for studying RNA structure and function. <i>Nature Methods</i> , 2015, 12, 866-872.	19.0	63
24	The Dimer Initiation Sequence Stem-Loop of Human Immunodeficiency Virus Type 1 Is Dispensable for Viral Replication in Peripheral Blood Mononuclear Cells. <i>Journal of Virology</i> , 2003, 77, 8329-8335.	3.4	61
25	Self assembly of HIV-1 Gag protein on lipid membranes generates PI(4,5)P2/Cholesterol nanoclusters. <i>Scientific Reports</i> , 2016, 6, 39332.	3.3	60
26	The Raft-Promoting Property of Virion-Associated Cholesterol, but Not the Presence of Virion-Associated Brij 98 Rafts, Is a Determinant of Human Immunodeficiency Virus Type 1 Infectivity. <i>Journal of Virology</i> , 2004, 78, 10556-10565.	3.4	59
27	HIV-1 Gag specifically restricts PI(4,5)P2 and cholesterol mobility in living cells creating a nanodomain platform for virus assembly. <i>Science Advances</i> , 2019, 5, eaaw8651.	10.3	59
28	Effects of modifying the tRNA(3Lys) anticodon on the initiation of human immunodeficiency virus type 1 reverse transcription. <i>Journal of Virology</i> , 1996, 70, 4700-4706.	3.4	56
29	The Packaging and Maturation of the HIV-1 Pol Proteins. <i>Current HIV Research</i> , 2005, 3, 73-85.	0.5	55
30	HIV-1 Pr55^{Gag} binds genomic and spliced RNAs with different affinity and stoichiometry. <i>RNA Biology</i> , 2017, 14, 90-103.	3.1	55
31	Mutations That Abrogate Human Immunodeficiency Virus Type 1 Reverse Transcriptase Dimerization Affect Maturation of the Reverse Transcriptase Heterodimer. <i>Journal of Virology</i> , 2005, 79, 10247-10257.	3.4	54
32	An Antiviral Response Directed by PKR Phosphorylation of the RNA Helicase A. <i>PLoS Pathogens</i> , 2009, 5, e1000311.	4.7	54
33	Accurately Measuring Recombination between Closely Related HIV-1 Genomes. <i>PLoS Computational Biology</i> , 2010, 6, e1000766.	3.2	51
34	Labeling of Multiple HIV-1 Proteins with the Biarsenical-Tetracysteine System. <i>PLoS ONE</i> , 2011, 6, e17016.	2.5	48
35	Multidisciplinary Approaches Identify Compounds that Bind to Human ACE2 or SARS-CoV-2 Spike Protein as Candidates to Block SARS-CoV-2-ACE2 Receptor Interactions. <i>MBio</i> , 2021, 12, .	4.1	47
36	Granulocyte-macrophage colony-stimulating factor inhibits HIV-1 replication in monocyte-derived macrophages. <i>Aids</i> , 2000, 14, 1739-1748.	2.2	45

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37	HIV taken by STORM: Super-resolution fluorescence microscopy of a viral infection. <i>Virology Journal</i> , 2012, 9, 84.	3.4	45
38	Identifying Recombination Hot Spots in the HIV-1 Genome. <i>Journal of Virology</i> , 2014, 88, 2891-2902.	3.4	45
39	Variable tRNA content in HIV-1III _B . <i>Biochemical and Biophysical Research Communications</i> , 1992, 185, 1005-1015.	2.1	44
40	The Conformation of the Mature Dimeric Human Immunodeficiency Virus Type 1 RNA Genome Requires Packaging of Pol Protein. <i>Journal of Virology</i> , 2002, 76, 4331-4340.	3.4	43
41	RNA Structure—A Neglected Puppet Master for the Evolution of Virus and Host Immunity. <i>Frontiers in Immunology</i> , 2018, 9, 2097.	4.8	41
42	DNA found in human immunodeficiency virus type 1 particles may not be required for infectivity. <i>Journal of General Virology</i> , 1994, 75, 1605-1613.	2.9	40
43	Proline Residues within Spacer Peptide p1 Are Important for Human Immunodeficiency Virus Type 1 Infectivity, Protein Processing, and Genomic RNA Dimer Stability. <i>Journal of Virology</i> , 2002, 76, 11245-11253.	3.4	40
44	Delivery of femtolitre droplets using surface acoustic wave based atomisation for cryo-EM grid preparation. <i>Journal of Structural Biology</i> , 2018, 203, 94-101.	2.8	37
45	The C-terminal p6 domain of the HIV-1 Pr55 ^{Gag} precursor is required for specific binding to the genomic RNA. <i>RNA Biology</i> , 2018, 15, 923-936.	3.1	37
46	Interferon epsilon promotes HIV restriction at multiple steps of viral replication. <i>Immunology and Cell Biology</i> , 2017, 95, 478-483.	2.3	33
47	The thermodynamics of Pr55Gag-RNA interaction regulate the assembly of HIV. <i>PLoS Pathogens</i> , 2017, 13, e1006221.	4.7	33
48	Defining the distinct, intrinsic properties of the novel type I interferon, IFN μ . <i>Journal of Biological Chemistry</i> , 2018, 293, 3168-3179.	3.4	32
49	Lipid Membrane; A Novel Target for Viral and Bacterial Pathogens. <i>Current Drug Targets</i> , 2006, 7, 1615-1621.	2.1	31
50	The A-rich RNA sequences of HIV-1 pol are important for the synthesis of viral cDNA. <i>Nucleic Acids Research</i> , 2009, 37, 945-956.	14.5	31
51	Fifteen to Twenty Percent of HIV Substitution Mutations Are Associated with Recombination. <i>Journal of Virology</i> , 2014, 88, 3837-3849.	3.4	31
52	Human Immunodeficiency Virus Type 1 Protease Regulation of Tat Activity Is Essential for Efficient Reverse Transcription and Replication. <i>Journal of Virology</i> , 2003, 77, 9912-9921.	3.4	29
53	Nef Binds p6* in GagPol during Replication of Human Immunodeficiency Virus Type 1. <i>Journal of Virology</i> , 2004, 78, 5311-5323.	3.4	29
54	Gag-Pol Supplied in trans Is Efficiently Packaged and Supports Viral Function in Human Immunodeficiency Virus Type 1. <i>Journal of Virology</i> , 2001, 75, 6835-6840.	3.4	27

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55	X4 and R5 HIV-1 Have Distinct Post-entry Requirements for Uracil DNA Glycosylase during Infection of Primary Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 18603-18614.	3.4	27
56	Improved quantification of HIV-1-infected CD4+ T cells using an optimised method of intracellular HIV-1 gag p24 antigen detection. <i>Journal of Immunological Methods</i> , 2013, 391, 174-178.	1.4	26
57	Intrastructural Help: Harnessing T Helper Cells Induced by Licensed Vaccines for Improvement of HIV Env Antibody Responses to Virus-Like Particle Vaccines. <i>Journal of Virology</i> , 2018, 92, .	3.4	26
58	HIV integration and the establishment of latency in CCL19-treated resting CD4+ T cells require activation of NF- κ B. <i>Retrovirology</i> , 2016, 13, 49.	2.0	25
59	nef-deleted HIV-1 inhibits phagocytosis by monocyte-derived macrophages in vitro but not by peripheral blood monocytes in vivo. <i>Aids</i> , 2001, 15, 945-955.	2.2	24
60	Primary T-lymphocytes rescue the replication of HIV-1 DIS RNA mutants in part by facilitating reverse transcription. <i>Nucleic Acids Research</i> , 2008, 36, 1578-1588.	14.5	24
61	Expression and purification of soluble recombinant full length HIV-1 Pr55Gag protein in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2014, 100, 10-18.	1.3	24
62	Full assembly of HIV-1 particles requires assistance of the membrane curvature factor IRSp53. <i>ELife</i> , 2021, 10, .	6.0	23
63	Estimating the in-vivo HIV template switching and recombination rate. <i>Aids</i> , 2016, 30, 185-192.	2.2	21
64	Plasma Protein Binding Structure-Activity Relationships Related to the N-Terminus of Daptomycin. <i>ACS Infectious Diseases</i> , 2017, 3, 249-258.	3.8	20
65	Intracellular Dynamics of HIV Infection. <i>Journal of Virology</i> , 2014, 88, 1113-1124.	3.4	18
66	Analysis of the Contribution of Reverse Transcriptase and Integrase Proteins to Retroviral RNA Dimer Conformation. <i>Journal of Virology</i> , 2005, 79, 6338-6348.	3.4	17
67	A general method to eliminate laboratory induced recombinants during massive, parallel sequencing of cDNA library. <i>Virology Journal</i> , 2015, 12, 55.	3.4	14
68	Cryo-electron microscopy and single molecule fluorescent microscopy detect CD4 receptor induced HIV size expansion prior to cell entry. <i>Virology</i> , 2015, 486, 121-133.	2.4	13
69	Antibodies to neutralising epitopes synergistically block the interaction of the receptor-binding domain of SARS-CoV-2 to ACE 2. <i>Clinical and Translational Immunology</i> , 2021, 10, e1260.	3.8	13
70	Reverse transcriptase is an important factor for the primer tRNA selection in HIV-1. <i>Leukemia</i> , 1994, 8 Suppl 1, S149-51.	7.2	13
71	Allosteric Modulation of the HIV-1 gp120-gp41 Association Site by Adjacent gp120 Variable Region 1 (V1) N-Glycans Linked to Neutralization Sensitivity. <i>PLoS Pathogens</i> , 2013, 9, e1003218.	4.7	12
72	Host glycocalyx captures HIV proximal to the cell surface via oligomannose-GlcNAc glycan-glycan interactions to support viral entry. <i>Cell Reports</i> , 2022, 38, 110296.	6.4	12

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73	Multiple Forms of tRNA ^{Lys3} in HIV-1. <i>Biochemical and Biophysical Research Communications</i> , 1996, 227, 530-540.	2.1	9
74	Overexpression and incorporation of GagPol precursor does not impede packaging of HIV-1 tRNA ^{Lys3} but promotes intracellular budding of virus-like particles. <i>Journal of Biomedical Science</i> , 2002, 9, 697-705.	7.0	9
75	RNA interference: more than a research tool in the vertebrates' adaptive immunity. <i>Retrovirology</i> , 2005, 2, 35.	2.0	9
76	Early Events of HIV-1 Infection: Can Signaling be the Next Therapeutic Target?. <i>Journal of NeuroImmune Pharmacology</i> , 2011, 6, 269-283.	4.1	9
77	HIV-1 Mutation and Recombination Rates Are Different in Macrophages and T-cells. <i>Viruses</i> , 2016, 8, 118.	3.3	9
78	Blocking HIV-1 transmission in the female reproductive tract: from microbicide development to exploring local antiviral responses. <i>Clinical and Translational Immunology</i> , 2015, 4, e43.	3.8	8
79	Properties of HIV-1 associated cholesterol in addition to raft formation are important for virus infection. <i>Virus Research</i> , 2015, 210, 18-21.	2.2	8
80	8-Modified-2'-Deoxyadenosine Analogues Induce Delayed Polymerization Arrest during HIV-1 Reverse Transcription. <i>PLoS ONE</i> , 2011, 6, e27456.	2.5	8
81	Alteration of the Proline at Position 7 of the HIV-1 Spacer Peptide p1 Suppresses Viral Infectivity in a Strain Dependent Manner. <i>Current HIV Research</i> , 2007, 5, 69-78.	0.5	6
82	Structural maturation of the HIV-1 RNA 5' untranslated region by Pr55 Gag and its maturation products. <i>RNA Biology</i> , 2022, 19, 191-205.	3.1	6
83	Overexpression and Incorporation of GagPol Precursor Does Not Impede Packaging of HIV-1 tRNA ^{Lys3} but Promotes Intracellular Budding of Virus-Like Particles. <i>Journal of Biomedical Science</i> , 2002, 9, 697-705.	7.0	5
84	HIV-1 Infection of T Cells and Macrophages Are Differentially Modulated by Virion-Associated Hck: A Nef-Dependent Phenomenon. <i>Viruses</i> , 2013, 5, 2235-2252.	3.3	5
85	Recent advances in retroviruses via cryo-electron microscopy. <i>Retrovirology</i> , 2018, 15, 23.	2.0	5
86	Effect of Insulin-Like Growth Factor I on HIV Type 1 Long Terminal Repeat-Driven Chloramphenicol Acetyltransferase Expression. <i>AIDS Research and Human Retroviruses</i> , 1999, 15, 829-836.	1.1	4
87	Innate Immunity and Intracellular Trafficking: Insights for Novel Anti- HIV-1 Therapeutics. <i>Current Pharmacogenomics and Personalized Medicine: the International Journal for Expert Reviews in Pharmacogenomics</i> , 2005, 3, 97-117.	0.3	4
88	The KT Jeang Retrovirology Prize 2020: call for nominations. <i>Retrovirology</i> , 2020, 17, 1.	2.0	4
89	Incoming HIV virion-derived Gag Spacer Peptide 2 (p1) is a target of effective CD8+ T cell antiviral responses. <i>Cell Reports</i> , 2021, 35, 109103.	6.4	4
90	Visualising single molecules of HIV-1 and miRNA nucleic acids. <i>BMC Cell Biology</i> , 2013, 14, 21.	3.0	3

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91	Mature reverse transcriptase (p66/p51) is responsible for low levels of viral DNA found in human immunodeficiency virus type 1 (HIV-1). <i>Leukemia</i> , 1994, 8 Suppl 1, S175-8.	7.2	3
92	Complement Receptor 3 Mediates HIV-1 Transcytosis across an Intact Cervical Epithelial Cell Barrier: New Insight into HIV Transmission in Women. <i>MBio</i> , 2022, 13, e0217721.	4.1	2
93	Professor Mark Wainberg. <i>Retrovirology</i> , 2017, 14, 30.	2.0	1
94	A trip down memory lane with <i>Retrovirology</i> . <i>Retrovirology</i> , 2019, 16, 22.	2.0	0
95	Calcium Contributes to Polarized Targeting of HIV Assembly Machinery by Regulating Complex Stability. <i>Jacs Au</i> , 2022, 2, 522-530.	7.9	0