Johnson Mak

List of Publications by Year
in descending order

95 papers	5,191 citations	81743 39 h-index	91712 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. Cellular Microbiology, 2010, 12, 372-385.	1.1	382
2	Dimerization of retroviral RNA genomes: an inseparable pair. Nature Reviews Microbiology, 2004, 2, 461-472.	13.6	257
3	Lipid rafts and HIV-1: from viral entry to assembly of progeny virions. Journal of Clinical Virology, 2001, 22, 217-227.	1.6	248
4	Establishment of HIV-1 latency in resting CD4 ⁺ T cells depends on chemokine-induced changes in the actin cytoskeleton. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16934-16939.	3.3	218
5	Maintenance of the Gag/Gag-Pol Ratio Is Important for Human Immunodeficiency Virus Type 1 RNA Dimerization and Viral Infectivity. Journal of Virology, 2001, 75, 1834-1841.	1.5	205
6	Identification of tRNAs incorporated into wild-type and mutant human immunodeficiency virus type 1. Journal of Virology, 1993, 67, 3246-3253.	1.5	205
7	Primer tRNAs for reverse transcription. Journal of Virology, 1997, 71, 8087-8095.	1.5	204
8	Role of Pr160gag-pol in mediating the selective incorporation of tRNA(Lys) into human immunodeficiency virus type 1 particles. Journal of Virology, 1994, 68, 2065-2072.	1.5	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. Journal of Virology, 1997, 71, 3397-3406.	1.5	154
10	Effects of alterations of primer-binding site sequences on human immunodeficiency virus type 1 replication. Journal of Virology, 1994, 68, 6198-6206.	1.5	134
11	Virion-associated cholesterol is critical for the maintenance of HIV-1 structure and infectivity. Aids, 2002, 16, 2253-2261.	1.0	121
12	The origin of genetic diversity in HIV-1. Virus Research, 2012, 169, 415-429.	1.1	110
13	Defective phagocytosis by human monocyte/macrophages following HIV-1 infection: underlying mechanisms and modulation by adjunctive cytokine therapy. Journal of Clinical Virology, 2003, 26, 247-263.	1.6	104
14	Specific recognition of the HIV-1 genomic RNA by the Gag precursor. Nature Communications, 2014, 5, 4304.	5.8	103
15	HIV infection of dendritic cells subverts the IFN induction pathway via IRF-1 and inhibits type 1 IFN production. Blood, 2011, 118, 298-308.	0.6	102
16	Potent Nonnucleoside Reverse Transcriptase Inhibitors Target HIV-1 Gag-Pol. PLoS Pathogens, 2006, 2, e119.	2.1	95
17	Reducing chimera formation during PCR amplification to ensure accurate genotyping. Gene, 2010, 469, 45-51.	1.0	90
18	Incorporation of excess wild-type and mutant tRNA(3Lys) into human immunodeficiency virus type 1. Journal of Virology, 1994, 68, 7676-7683.	1.5	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. Journal of Virology, 2001, 75, 9156-9164.	1.5	80
20	HIV-1 Down-Modulates Î³ Signaling Chain of FcÎ³R in Human Macrophages: A Possible Mechanism for Inhibition of Phagocytosis. Journal of Immunology, 2002, 168, 2895-2903.	0.4	79
21	Effects of mutations in Pr160gag-pol upon tRNALys3 and Pr160gag-pol incorporation into HIV-1. Journal of Molecular Biology, 1997, 265, 419-431.	2.0	70
22	Granulocyteâ€Macrophage Colonyâ€Stimulating Factor Augments Phagocytosis ofMycobacterium aviumComplex by Human Immunodeficiency Virus Type 1â€"Infected Monocytes/Macrophages In Vitro and In Vivo. Journal of Infectious Diseases, 2000, 181, 390-394.	1.9	64
23	Mutational interference mapping experiment (MIME) for studying RNA structure and function. Nature Methods, 2015, 12, 866-872.	9.0	63
24	The Dimer Initiation Sequence Stem-Loop of Human Immunodeficiency Virus Type 1 Is Dispensable for Viral Replication in Peripheral Blood Mononuclear Cells. Journal of Virology, 2003, 77, 8329-8335.	1.5	61
25	Self assembly of HIV-1 Gag protein on lipid membranes generates PI(4,5)P2/Cholesterol nanoclusters. Scientific Reports, 2016, 6, 39332.	1.6	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. Journal of Virology, 2004, 78, 10556-10565.	1.5	59
27	HIV-1 Gag specifically restricts PI(4,5)P2 and cholesterol mobility in living cells creating a nanodomain platform for virus assembly. Science Advances, 2019, 5, eaaw8651.	4.7	59
28	Effects of modifying the tRNA(3Lys) anticodon on the initiation of human immunodeficiency virus type 1 reverse transcription. Journal of Virology, 1996, 70, 4700-4706.	1.5	56
29	The Packaging and Maturation of the HIV-1 Pol Proteins. Current HIV Research, 2005, 3, 73-85.	0.2	55
30	HIV-1 Pr55^{Gag}binds genomic and spliced RNAs with different affinity and stoichiometry. RNA Biology, 2017, 14, 90-103.	1.5	55
31	Mutations That Abrogate Human Immunodeficiency Virus Type 1 Reverse Transcriptase Dimerization Affect Maturation of the Reverse Transcriptase Heterodimer. Journal of Virology, 2005, 79, 10247-10257.	1.5	54
32	An Antiviral Response Directed by PKR Phosphorylation of the RNA Helicase A. PLoS Pathogens, 2009, 5, e1000311.	2.1	54
33	Accurately Measuring Recombination between Closely Related HIV-1 Genomes. PLoS Computational Biology, 2010, 6, e1000766.	1.5	51
34	Labeling of Multiple HIV-1 Proteins with the Biarsenical-Tetracysteine System. PLoS ONE, 2011, 6, e17016.	1.1	48
35	Multidisciplinary Approaches Identify Compounds that Bind to Human ACE2 or SARS-CoV-2 Spike Protein as Candidates to Block SARS-CoV-2â€"ACE2 Receptor Interactions. MBio, 2021, 12, .	1.8	47
36	Granulocyte-macrophage colony-stimulating factor inhibits HIV-1 replication in monocyte-derived macrophages. Aids, 2000, 14, 1739-1748.	1.0	45

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37	HIV taken by STORM: Super-resolution fluorescence microscopy of a viral infection. Virology Journal, 2012, 9, 84.	1.4	45
38	Identifying Recombination Hot Spots in the HIV-1 Genome. Journal of Virology, 2014, 88, 2891-2902.	1.5	45
39	Variable tRNA content in HIV-1IIIB. Biochemical and Biophysical Research Communications, 1992, 185, 1005-1015.	1.0	44
40	The Conformation of the Mature Dimeric Human Immunodeficiency Virus Type 1 RNA Genome Requires Packaging of Pol Protein. Journal of Virology, 2002, 76, 4331-4340.	1.5	43
41	RNA Structureâ€"A Neglected Puppet Master for the Evolution of Virus and Host Immunity. Frontiers in Immunology, 2018, 9, 2097.	2.2	41
42	DNA found in human immunodeficiency virus type 1 particles may not be required for infectivity. Journal of General Virology, 1994, 75, 1605-1613.	1.3	40
43	Proline Residues within Spacer Peptide p1 Are Important for Human Immunodeficiency Virus Type 1 Infectivity, Protein Processing, and Genomic RNA Dimer Stability. Journal of Virology, 2002, 76, 11245-11253.	1.5	40
44	Delivery of femtolitre droplets using surface acoustic wave based atomisation for cryo-EM grid preparation. Journal of Structural Biology, 2018, 203, 94-101.	1.3	37
45	The C-terminal p6 domain of the HIV-1 Pr55^{Gag}precursor is required for specific binding to the genomic RNA. RNA Biology, 2018, 15, 923-936.	1.5	37
46	Interferon epsilon promotes HIV restriction at multiple steps of viral replication. Immunology and Cell Biology, 2017, 95, 478-483.	1.0	33
47	The thermodynamics of Pr55Gag-RNA interaction regulate the assembly of HIV. PLoS Pathogens, 2017, 13, e1006221.	2.1	33
48	Defining the distinct, intrinsic properties of the novel type I interferon, IFNÏµ. Journal of Biological Chemistry, 2018, 293, 3168-3179.	1.6	32
49	Lipid Membrane; A Novel Target for Viral and Bacterial Pathogens. Current Drug Targets, 2006, 7, 1615-1621.	1.0	31
50	The A-rich RNA sequences of HIV-1 pol are important for the synthesis of viral cDNA. Nucleic Acids Research, 2009, 37, 945-956.	6.5	31
51	Fifteen to Twenty Percent of HIV Substitution Mutations Are Associated with Recombination. Journal of Virology, 2014, 88, 3837-3849.	1.5	31
52	Human Immunodeficiency Virus Type 1 Protease Regulation of Tat Activity Is Essential for Efficient Reverse Transcription and Replication. Journal of Virology, 2003, 77, 9912-9921.	1.5	29
53	Nef Binds p6* in GagPol during Replication of Human Immunodeficiency Virus Type 1. Journal of Virology, 2004, 78, 5311-5323.	1.5	29
54	Gag-Pol Supplied in trans Is Efficiently Packaged and Supports Viral Function in Human Immunodeficiency Virus Type 1. Journal of Virology, 2001, 75, 6835-6840.	1.5	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. Journal of Biological Chemistry, 2010, 285, 18603-18614.	1.6	27
56	Improved quantification of HIV-1-infected CD4+ T cells using an optimised method of intracellular HIV-1 gag p24 antigen detection. Journal of Immunological Methods, 2013, 391, 174-178.	0.6	26
57	Intrastructural Help: Harnessing T Helper Cells Induced by Licensed Vaccines for Improvement of HIV Env Antibody Responses to Virus-Like Particle Vaccines. Journal of Virology, 2018, 92, .	1.5	26
58	HIV integration and the establishment of latency in CCL19-treated resting CD4+ T cells require activation of NF-Î°B. Retrovirology, 2016, 13, 49.	0.9	25
59	nef-deleted HIV-1 inhibits phagocytosis by monocyte-derived macrophages in vitro but not by peripheral blood monocytes in vivo. Aids, 2001, 15, 945-955.	1.0	24
60	Primary T-lymphocytes rescue the replication of HIV-1 DIS RNA mutants in part by facilitating reverse transcription. Nucleic Acids Research, 2008, 36, 1578-1588.	6.5	24
61	Expression and purification of soluble recombinant full length HIV-1 Pr55Gag protein in Escherichia coli. Protein Expression and Purification, 2014, 100, 10-18.	0.6	24
62	Full assembly of HIV-1 particles requires assistance of the membrane curvature factor IRSp53. ELife, 2021, 10, .	2.8	23
63	Estimating the in-vivo HIV template switching and recombination rate. Aids, 2016, 30, 185-192.	1.0	21
64	Plasma Protein Binding Structureâ€"Activity Relationships Related to the N-Terminus of Daptomycin. ACS Infectious Diseases, 2017, 3, 249-258.	1.8	20
65	Intracellular Dynamics of HIV Infection. Journal of Virology, 2014, 88, 1113-1124.	1.5	18
66	Analysis of the Contribution of Reverse Transcriptase and Integrase Proteins to Retroviral RNA Dimer Conformation. Journal of Virology, 2005, 79, 6338-6348.	1.5	17
67	A general method to eliminate laboratory induced recombinants during massive, parallel sequencing of cDNA library. Virology Journal, 2015, 12, 55.	1.4	14
68	Cryo-electron microscopy and single molecule fluorescent microscopy detect CD4 receptor induced HIV size expansion prior to cell entry. Virology, 2015, 486, 121-133.	1.1	13
69	Antibodies to neutralising epitopes synergistically block the interaction of the receptorâ€binding domain of SARSâ€CoVâ€2 to ACE 2. Clinical and Translational Immunology, 2021, 10, e1260.	1.7	13
70	Reverse transcriptase is an important factor for the primer tRNA selection in HIV-1. Leukemia, 1994, 8 Suppl 1, S149-51.	3.3	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. PLoS Pathogens, 2013, 9, e1003218.	2.1	12
72	Host glycocalyx captures HIV proximal to the cell surface via oligomannose-GlcNAc glycan-glycan interactions to support viral entry. Cell Reports, 2022, 38, 110296.	2.9	12

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73	Multiple Forms of tRNALys3in HIV-1. Biochemical and Biophysical Research Communications, 1996, 227, 530-540.	1.0	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. Journal of Biomedical Science, 2002, 9, 697-705.	2.6	9
75	RNA interference: more than a research tool in the vertebrates' adaptive immunity. Retrovirology, 2005, 2, 35.	0.9	9
76	Early Events of HIV-1 Infection: Can Signaling be the Next Therapeutic Target?. Journal of NeuroImmune Pharmacology, 2011, 6, 269-283.	2.1	9
77	HIV-1 Mutation and Recombination Rates Are Different in Macrophages and T-cells. Viruses, 2016, 8, 118.	1.5	9
78	Blocking HIVâ€1 transmission in the female reproductive tract: from microbicide development to exploring local antiviral responses. Clinical and Translational Immunology, 2015, 4, e43.	1.7	8
79	Properties of HIV-1 associated cholesterol in addition to raft formation are important for virus infection. Virus Research, 2015, 210, 18-21.	1.1	8
80	8-Modified-2â€²-Deoxyadenosine Analogues Induce Delayed Polymerization Arrest during HIV-1 Reverse Transcription. PLoS ONE, 2011, 6, e27456.	1.1	8
81	Alteration of the Proline at Position 7 of the HIV-1 Spacer Peptide p1 Suppresses Viral Infectivity in a Strain Dependent Manner. Current HIV Research, 2007, 5, 69-78.	0.2	6
82	Structural maturation of the HIV-1 RNA 5â€™ untranslated region by Pr55 ^{Gag} and its maturation products. RNA Biology, 2022, 19, 191-205.	1.5	6
83	Overexpression and Incorporation of GagPol Precursor Does Not Impede Packaging of HIV-1 tRNA^{<i>Lys3</i>} but Promotes Intracellular Budding of Virus-Like Particles. Journal of Biomedical Science, 2002, 9, 697-705.	2.6	5
84	HIV-1 Infection of T Cells and Macrophages Are Differentially Modulated by Virion-Associated Hck: A Nef-Dependent Phenomenon. Viruses, 2013, 5, 2235-2252.	1.5	5
85	Recent advances in retroviruses via cryo-electron microscopy. Retrovirology, 2018, 15, 23.	0.9	5
86	Effect of Insulin-Like Growth Factor I on HIV Type 1 Long Terminal Repeat-Driven Chloramphenicol Acetyltransferase Expression. AIDS Research and Human Retroviruses, 1999, 15, 829-836.	0.5	4
87	Innate Immunity and Intracellular Trafficking: Insights for Novel Anti- HIV-1 Therapeutics. Current Pharmacogenomics and Personalized Medicine: the International Journal for Expert Reviews in Pharmacogenomics, 2005, 3, 97-117.	0.3	4
88	The KT Jeang Retrovirology Prize 2020: call for nominations. Retrovirology, 2020, 17, 1.	0.9	4
89	Incoming HIV virion-derived Gag Spacer Peptide 2 (p1) is a target of effective CD8+ TÂcell antiviral responses. Cell Reports, 2021, 35, 109103.	2.9	4
90	Visualising single molecules of HIV-1 and miRNA nucleic acids. BMC Cell Biology, 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). Leukemia, 1994, 8 Suppl 1, S175-8.	3.3	3
92	Complement Receptor 3 Mediates HIV-1 Transcytosis across an Intact Cervical Epithelial Cell Barrier: New Insight into HIV Transmission in Women. MBio, 2022, 13, e0217721.	1.8	2
93	Professor Mark Wainberg. Retrovirology, 2017, 14, 30.	0.9	1
94	A trip down memory lane with Retrovirology. Retrovirology, 2019, 16, 22.	0.9	0
95	Calcium Contributes to Polarized Targeting of HIV Assembly Machinery by Regulating Complex Stability. Jacs Au, 2022, 2, 522-530.	3.6	0