Walter J Atwood

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4198019/publications.pdf

Version: 2024-02-01

83 papers	4,963 citations	87886 38 h-index	95259 68 g-index
86 all docs	86 docs citations	86 times ranked	3927 citing authors

#	Article	IF	Citations
1	The Human Polyomavirus, JCV, Uses Serotonin Receptors to Infect Cells. Science, 2004, 306, 1380-1383.	12.6	417
2	Molecular Biology, Epidemiology, and Pathogenesis of Progressive Multifocal Leukoencephalopathy, the JC Virus-Induced Demyelinating Disease of the Human Brain. Clinical Microbiology Reviews, 2012, 25, 471-506.	13.6	337
3	JC Virus Enters Human Glial Cells by Clathrin-Dependent Receptor-Mediated Endocytosis. Journal of Virology, 2000, 74, 2288-2292.	3.4	224
4	Leflunomide for Polyomavirus Type BK Nephropathy. New England Journal of Medicine, 2005, 352, 1157-1158.	27.0	220
5	Treatment of Renal Allograft Polyoma BK Virus Infection with Leflunomide. Transplantation, 2006, 81, 704-710.	1.0	199
6	Taxonomical developments in the family Polyomaviridae. Archives of Virology, 2011, 156, 1627-1634.	2.1	171
7	Structure-Function Analysis of the Human JC Polyomavirus Establishes the LSTc Pentasaccharide as a Functional Receptor Motif. Cell Host and Microbe, 2010, 8, 309-319.	11.0	167
8	Genome-wide siRNA screen identifies the retromer as a cellular entry factor for human papillomavirus. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7452-7457.	7.1	165
9	Infection of Glial Cells by the Human Polyomavirus JC Is Mediated by an N-Linked Glycoprotein Containing Terminal Î±(2-6)-Linked Sialic Acids. Journal of Virology, 1998, 72, 4643-4649.	3.4	154
10	Infection of Vero Cells by BK Virus Is Dependent on Caveolae. Journal of Virology, 2004, 78, 11583-11590.	3.4	128
11	Interaction of the human polyomavirus, JCV, with human B-lymphocytes. Virology, 1992, 190, 716-723.	2.4	110
12	Oligosaccharides as Receptors for JC Virus. Journal of Virology, 2002, 76, 12992-13000.	3.4	99
13	The Polyomaviridae: Contributions of virus structure to our understanding of virus receptors and infectious entry. Virology, 2009, 384, 389-399.	2.4	99
14	JC Virus: An oncogenic virus in animals and humans?. Seminars in Cancer Biology, 2009, 19, 261-269.	9.6	98
15	A JC Virus-Induced Signal Is Required for Infection of Glial Cells by a Clathrin- and eps15-Dependent Pathway. Journal of Virology, 2004, 78, 250-256.	3.4	95
16	BiP and Multiple DNAJ Molecular Chaperones in the Endoplasmic Reticulum Are Required for Efficient Simian Virus 40 Infection. MBio, 2011, 2, e00101-11.	4.1	91
17	JC Virus binds to primary human glial cells, tonsillar stromal cells, and B-lymphocytes, but not to T lymphocytes. Journal of NeuroVirology, 2000, 6, 127-136.	2.1	79
18	Human Î±-Defensins Inhibit BK Virus Infection by Aggregating Virions and Blocking Binding to Host Cells. Journal of Biological Chemistry, 2008, 283, 31125-31132.	3.4	77

#	Article	IF	Citations
19	An N-Linked Glycoprotein with Î±(2,3)-Linked Sialic Acid Is a Receptor for BK Virus. Journal of Virology, 2005, 79, 14442-14445.	3.4	75
20	Contrasting Roles of Endosomal pH and the Cytoskeleton in Infection of Human Glial Cells by JC Virus and Simian Virus 40. Journal of Virology, 2003, 77, 1347-1356.	3.4	74
21	JC Polyomavirus Uses Extracellular Vesicles To Infect Target Cells. MBio, 2019, 10, .	4.1	71
22	A Structure-Guided Mutation in the Major Capsid Protein Retargets BK Polyomavirus. PLoS Pathogens, 2013, 9, e1003688.	4.7	70
23	5-HT ₂ Receptors Facilitate JC Polyomavirus Entry. Journal of Virology, 2013, 87, 13490-13498.	3.4	66
24	A Retrograde Trafficking Inhibitor of Ricin and Shiga-Like Toxins Inhibits Infection of Cells by Human and Monkey Polyomaviruses. MBio, 2013, 4, e00729-13.	4.1	64
25	Differential Distribution of the JC Virus Receptor-Type Sialic Acid in Normal Human Tissues. American Journal of Pathology, 2004, 164, 419-428.	3.8	62
26	The biology of JC polyomavirus. Biological Chemistry, 2017, 398, 839-855.	2.5	58
27	HIV Type 1 Infection of Human Astrocytes Is Restricted by Inefficient Viral Entry. AIDS Research and Human Retroviruses, 2001, 17, 1133-1142.	1.1	56
28	Direct Correlation between Sialic Acid Binding and Infection of Cells by Two Human Polyomaviruses (JC Virus and BK Virus). Journal of Virology, 2008, 82, 2560-2564.	3.4	55
29	The VP1 subunit of JC polyomavirus recapitulates early events in viral trafficking and is a novel tool to study polyomavirus entry. Virology, 2012, 428, 30-40.	2.4	55
30	JC Virus infected choroid plexus epithelial cells produce extracellular vesicles that infect glial cells independently of the virus attachment receptor. PLoS Pathogens, 2020, 16, e1008371.	4.7	54
31	The Greater Affinity of JC Polyomavirus Capsid for Î±2,6-Linked Lactoseries Tetrasaccharide c than for Other Sialylated Glycans Is a Major Determinant of Infectivity. Journal of Virology, 2015, 89, 6364-6375.	3.4	52
32	Progressive Multifocal Leukoencephalopathy-Associated Mutations in the JC Polyomavirus Capsid Disrupt Lactoseries Tetrasaccharide c Binding. MBio, 2013, 4, e00247-13.	4.1	48
33	Role of N-Linked Glycosylation of the 5-HT _{2A} Receptor in JC Virus Infection. Journal of Virology, 2010, 84, 9677-9684.	3.4	47
34	Identification of Amino Acid Residues in BK Virus VP1 That Are Critical for Viability and Growth. Journal of Virology, 2007, 81, 11798-11808.	3.4	45
35	Decreased function of survival motor neuron protein impairs endocytic pathways. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4377-86.	7.1	45
36	The Human Polyomavirus, Jcv, Does Not Share Receptor Specificity with SV40 on Human Glial Cells. Journal of NeuroVirology, 1998, 4, 49-58.	2.1	44

#	Article	IF	Citations
37	JC Polyomavirus Infection of Primary Human Renal Epithelial Cells Is Controlled by a Type I IFN-Induced Response. MBio, 2016, 7, .	4.1	44
38	Evaluation of the role of cytokine activation in the multiplication of JC virus (JCV) in human fetal glial cells. Journal of NeuroVirology, 1995, 1, 40-49.	2.1	43
39	NFAT4 Is Required for JC Virus Infection of Glial Cells. Journal of Virology, 2006, 80, 12079-12085.	3.4	40
40	Structural optimization of a retrograde trafficking inhibitor that protects cells from infections by human polyoma- and papillomaviruses. Bioorganic and Medicinal Chemistry, 2014, 22, 4836-4847.	3.0	40
41	JC polyomavirus attachment, entry, and trafficking: unlocking the keys to a fatal infection. Journal of NeuroVirology, 2015, 21, 601-613.	2.1	38
42	CD4/CXCR4-independent infection of human astrocytes by a T-tropic strain of HIV-1. Journal of NeuroVirology, 2001, 7, 155-162.	2.1	37
43	A combination of low-dose chlorpromazine and neutralizing antibodies inhibits the spread of JC virus (JCV) in a tissue culture model: Implications for prophylactic and therapeutic treatment of progressive multifocal leukencephalopathy. Journal of NeuroVirology, 2001, 7, 307-310.	2.1	36
44	Modeling a Sialic Acid Binding Pocket in the External Loops of JC Virus VP1. Journal of Biological Chemistry, 2004, 279, 49172-49176.	3.4	36
45	Virus receptors in the human central nervous system. Journal of NeuroVirology, 2001, 7, 187-195.	2.1	34
46	Early Events in the Life Cycle of JC Virus as Potential Therapeutic Targets for the Treatment of Progressive Multifocal Leukoencephalopathy. Journal of NeuroVirology, 2003, 9, 32-37.	2.1	32
47	The role of sialic acid in human polyomavirus infections. Glycoconjugate Journal, 2006, 23, 19-26.	2.7	32
48	Human Polyomavirus Receptor Distribution in Brain Parenchyma Contrasts with Receptor Distribution in Kidney and Choroid Plexus. American Journal of Pathology, 2015, 185, 2246-2258.	3.8	32
49	Progressive Multifocal Leukoencephalopathy: Endemic Viruses and Lethal Brain Disease. Annual Review of Virology, 2017, 4, 349-367.	6.7	31
50	Construction of a Novel JCV/SV40 Hybrid Virus (JCSV) Reveals a Role for the JCV Capsid in Viral Tropism. Virology, 2002, 300, 282-290.	2.4	29
51	Fifty Years of JC Polyomavirus: A Brief Overview and Remaining Questions. Viruses, 2020, 12, 969.	3.3	28
52	The Human Alpha Defensin HD5 Neutralizes JC Polyomavirus Infection by Reducing Endoplasmic Reticulum Traffic and Stabilizing the Viral Capsid. Journal of Virology, 2014, 88, 948-960.	3.4	27
53	The structure of avian polyomavirus reveals variably sized capsids, non-conserved inter-capsomere interactions, and a possible location of the minor capsid protein VP4. Virology, 2011, 411, 142-152.	2.4	26
54	Propagation and Assay of the JC Virus. , 2001, 165, 9-17.		25

#	Article	IF	Citations
55	Susceptibility of Primary Human Choroid Plexus Epithelial Cells and Meningeal Cells to Infection by JC Virus. Journal of Virology, 2018, 92, .	3.4	24
56	Derivation of a JC virus-resistant human glial cell line: implications for the identification of host cell factors that determine viral tropism. Virology, 2003, 314, 101-109.	2.4	22
57	MEK inhibitors reduce cellular expression of ACE2, pERK, pRb while stimulating NK-mediated cytotoxicity and attenuating inflammatory cytokines relevant to SARS-CoV-2 infection. Oncotarget, 2020, 11, 4201-4223.	1.8	22
58	Modulation of PML protein expression regulates JCV infection. Virology, 2009, 390, 279-288.	2.4	21
59	Interaction between Simian Virus 40 Major Capsid Protein VP1 and Cell Surface Ganglioside GM1 Triggers Vacuole Formation. MBio, 2016, 7, e00297.	4.1	21
60	Polyomavirus nephropathy in kidney transplantation. Progress in Transplantation, 2004, 14, 130-142.	0.7	21
61	Transcriptional Regulation of BK Virus by Nuclear Factor of Activated T Cells. Journal of Virology, 2010, 84, 1722-1730.	3.4	20
62	Trichodysplasia spinulosa-Associated Polyomavirus Uses a Displaced Binding Site on VP1 to Engage Sialylated Glycolipids. PLoS Pathogens, 2015, 11, e1005112.	4.7	20
63	Genetic and Functional Dissection of the Role of Individual 5-HT2 Receptors as Entry Receptors for JC Polyomavirus. Cell Reports, 2019, 27, 1960-1966.e6.	6.4	20
64	Polyomavirus Nephropathy in Kidney Transplantation. Progress in Transplantation, 2004, 14, 130-142.	0.7	19
65	Pseudovirus mimics cell entry and trafficking of the human polyomavirus JCPyV. Virus Research, 2013, 178, 281-286.	2.2	17
66	Modulation of a Pore in the Capsid of JC Polyomavirus Reduces Infectivity and Prevents Exposure of the Minor Capsid Proteins. Journal of Virology, 2015, 89, 3910-3921.	3.4	17
67	Virus Receptors and Tropism. Advances in Experimental Medicine and Biology, 2006, 577, 60-72.	1.6	15
68	Host cell autophagy promotes BK virus infection. Virology, 2014, 456-457, 87-95.	2.4	15
69	Nuclear factor of activated T-cells (NFAT) plays a role in SV40 infection. Virology, 2008, 372, 48-55.	2.4	13
70	Cellular Receptors for the Polyomaviruses. , 0, , 179-196.		9
71	Gallic acid-based small-molecule inhibitors of JC and BK polyomaviral infection. Virus Research, 2014, 189, 280-285.	2.2	9
72	Smallâ€molecule inhibitors of JC polyomavirus infection. Journal of Peptide Science, 2015, 21, 236-242.	1.4	9

#	Article	IF	Citations
73	Phosphoinositide 3â€²-Kinase Î³ Facilitates Polyomavirus Infection. Viruses, 2020, 12, 1190.	3.3	8
74	Glial cells as targets of viral infection in the human central nervous system. Progress in Brain Research, 2001, 132, 721-735.	1.4	7
75	Microarray analysis of glial cells resistant to JCV infection suggests a correlation between viral infection and inflammatory cytokine gene expression. Virology, 2007, 366, 394-404.	2.4	7
76	Adipocyte Plasma Membrane Protein (APMAP) promotes JC Virus (JCPyV) infection in human glial cells. Virology, 2020, 548, 17-24.	2.4	7
77	Complexities of JC Polyomavirus Receptor-Dependent and -Independent Mechanisms of Infection. Viruses, 2022, 14, 1130.	3.3	7
78	Teriflunomide Inhibits JCPyV Infection and Spread in Glial Cells and Choroid Plexus Epithelial Cells. International Journal of Molecular Sciences, 2021, 22, 9809.	4.1	6
79	Genotypes, Archetypes, and Tandem Repeats in the Molecular Epidemiology and Pathogenesis of JC Virus Induced Disease. Journal of NeuroVirology, 2003, 9, 519-521.	2.1	5
80	Control of Archetype BK Polyomavirus MicroRNA Expression. Journal of Virology, 2020, 95, .	3.4	5
81	Biogenesis of JC polyomavirus associated extracellular vesicles. , 2022, 1, .		5
82	Reining in Polyoma Virus Associated Nephropathy: Design and Characterization of a Template Mimicking BK Viral Coat Protein Cellular Binding. Biochemistry, 2012, 51, 8092-8099.	2.5	1
83	Early events controlling infection of cells by human polyomaviruses. Journal of NeuroVirology, 2004, 10, 24-24.	2.1	0