

Joan W Berman

List of Publications by Year in descending order

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73
papers

4,875
citations

94381

37
h-index

95218

68
g-index

74
all docs

74
docs citations

74
times ranked

4981
citing authors

#	ARTICLE	IF	CITATIONS
1	CCL2/Monocyte Chemoattractant Protein-1 Mediates Enhanced Transmigration of Human Immunodeficiency Virus (HIV)-Infected Leukocytes across the Blood-Brain Barrier: A Potential Mechanism of HIV-CNS Invasion and NeuroAIDS. <i>Journal of Neuroscience</i> , 2006, 26, 1098-1106.	1.7	358
2	MCP-1, MCP-2 and MCP-3 expression in multiple sclerosis lesions: an immunohistochemical and in situ hybridization study. <i>Journal of Neuroimmunology</i> , 1998, 86, 20-29.	1.1	342
3	Human Immunodeficiency Virus Infection of Human Astrocytes Disrupts Blood-Brain Barrier Integrity by a Gap Junction-Dependent Mechanism. <i>Journal of Neuroscience</i> , 2011, 31, 9456-9465.	1.7	214
4	Astrocyte-shed extracellular vesicles regulate the peripheral leukocyte response to inflammatory brain lesions. <i>Science Signaling</i> , 2017, 10, .	1.6	199
5	HIV-tat induces formation of an LRP-PSD-95- NMDAR-nNOS complex that promotes apoptosis in neurons and astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3438-3443.	3.3	193
6	TNF- α Plus IFN- γ Induce Connexin43 Expression and Formation of Gap Junctions Between Human Monocytes/Macrophages That Enhance Physiological Responses. <i>Journal of Immunology</i> , 2003, 170, 1320-1328.	0.4	187
7	Monocyte maturation, HIV susceptibility, and transmigration across the blood brain barrier are critical in HIV neuropathogenesis. <i>Journal of Leukocyte Biology</i> , 2012, 91, 401-415.	1.5	173
8	Chemokine and Chemokine-Receptor Expression in Human Glial Elements. <i>American Journal of Pathology</i> , 2000, 156, 1441-1453.	1.9	164
9	A role for CXCL12 (SDF-1 α) in the pathogenesis of multiple sclerosis: Regulation of CXCL12 expression in astrocytes by soluble myelin basic protein. <i>Journal of Neuroimmunology</i> , 2006, 177, 27-39.	1.1	146
10	Mechanisms of HIV Entry into the CNS: Increased Sensitivity of HIV Infected CD14+CD16+ Monocytes to CCL2 and Key Roles of CCR2, JAM-A, and ALCAM in Diapedesis. <i>PLoS ONE</i> , 2013, 8, e69270.	1.1	140
11	Monocytes Mediate HIV Neuropathogenesis: Mechanisms that Contribute to HIV Associated Neurocognitive Disorders. <i>Current HIV Research</i> , 2014, 12, 85-96.	0.2	122
12	Chemokine-dependent mechanisms of leukocyte trafficking across a model of the blood-brain barrier. <i>Methods</i> , 2003, 29, 351-361.	1.9	119
13	Gap Junctions Mediate Human Immunodeficiency Virus-Bystander Killing in Astrocytes. <i>Journal of Neuroscience</i> , 2007, 27, 12844-12850.	1.7	118
14	Human Immunodeficiency Virus (HIV) Infection of Human Macrophages Is Increased by Dopamine. <i>American Journal of Pathology</i> , 2009, 175, 1148-1159.	1.9	115
15	The Role of Gap Junction Channels During Physiologic and Pathologic Conditions of the Human Central Nervous System. <i>Journal of NeuroImmune Pharmacology</i> , 2012, 7, 499-518.	2.1	110
16	Characterization of monocyte maturation/differentiation that facilitates their transmigration across the blood-brain barrier and infection by HIV: Implications for NeuroAIDS. <i>Cellular Immunology</i> , 2011, 267, 109-123.	1.4	102
17	Expression of chemokines by human fetal microglia after treatment with the human immunodeficiency virus type 1 protein Tat. <i>Journal of NeuroVirology</i> , 2004, 10, 86-97.	1.0	98
18	CCL2 disrupts the adherens junction: implications for neuroinflammation. <i>Laboratory Investigation</i> , 2012, 92, 1213-1233.	1.7	97

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19	Mechanisms of CNS Viral Seeding by HIV ⁺ CD14 ⁺ CD16 ⁺ Monocytes: Establishment and Reseeding of Viral Reservoirs Contributing to HIV-Associated Neurocognitive Disorders. <i>MBio</i> , 2017, 8, .	1.8	90
20	Purinergic Receptors Are Required for HIV-1 Infection of Primary Human Macrophages. <i>Journal of Immunology</i> , 2012, 188, 4488-4495.	0.4	86
21	Characterization and function of the human macrophage dopaminergic system: implications for CNS disease and drug abuse. <i>Journal of Neuroinflammation</i> , 2012, 9, 203.	3.1	81
22	Neuroimmunity and the Blood-Brain Barrier: Molecular Regulation of Leukocyte Transmigration and Viral Entry into the Nervous System with a Focus on NeuroAIDS. <i>Journal of NeuroImmune Pharmacology</i> , 2006, 1, 160-181.	2.1	79
23	HIV-1 tat protein induces a migratory phenotype in human fetal microglia by a CCL2 (MCP-1)-dependent mechanism: Possible role in NeuroAIDS. <i>Glia</i> , 2005, 49, 501-510.	2.5	73
24	JAM-A and ALCAM are therapeutic targets to inhibit diapedesis across the BBB of CD14+CD16+ monocytes in HIV-infected individuals. <i>Journal of Leukocyte Biology</i> , 2015, 97, 401-412.	1.5	72
25	Differential induction of chemokines in human microglia by type i and ii interferons. <i>Glia</i> , 2000, 29, 273-280.	2.5	67
26	Immune complexes increase nitric oxide production by interferon- γ -stimulated murine macrophage-like J774.16 cells. <i>Journal of Leukocyte Biology</i> , 1995, 57, 657-662.	1.5	64
27	Dopamine Receptor Activation Increases HIV Entry into Primary Human Macrophages. <i>PLoS ONE</i> , 2014, 9, e108232.	1.1	63
28	CCR2 on CD14 ⁺ CD16 ⁺ monocytes is a biomarker of HIV-associated neurocognitive disorders. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2014, 1, e36.	3.1	61
29	Drug Induced Increases in CNS Dopamine Alter Monocyte, Macrophage and T Cell Functions: Implications for HAND. <i>Journal of NeuroImmune Pharmacology</i> , 2013, 8, 621-642.	2.1	60
30	Cytochrome <i>c</i> dysregulation induced by HIV infection of astrocytes results in bystander apoptosis of uninfected astrocytes by an IP ₃ and calcium-dependent mechanism. <i>Journal of Neurochemistry</i> , 2013, 127, 644-651.	2.1	56
31	Dopamine Increases CD14+CD16+ Monocyte Migration and Adhesion in the Context of Substance Abuse and HIV Neuropathogenesis. <i>PLoS ONE</i> , 2015, 10, e0117450.	1.1	53
32	Leukocyte transmigration across the blood-brain barrier: perspectives on neuroAIDS. <i>Frontiers in Bioscience - Landmark</i> , 2010, 15, 478.	3.0	52
33	Cytokine-induced inflammation in the central nervous system revisited. <i>Neurochemical Research</i> , 1998, 23, 349-359.	1.6	47
34	Astrocyte expression of monocyte chemoattractant protein-1 is differentially regulated by transforming growth factor beta. <i>Journal of Neuroimmunology</i> , 1998, 91, 190-197.	1.1	47
35	Dopamine Increases CD14+CD16+ Monocyte Transmigration across the Blood Brain Barrier: Implications for Substance Abuse and HIV Neuropathogenesis. <i>Journal of NeuroImmune Pharmacology</i> , 2017, 12, 353-370.	2.1	45
36	The impact of substance abuse on HIV-mediated neuropathogenesis in the current ART era. <i>Brain Research</i> , 2019, 1724, 146426.	1.1	44

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37	PrPC, the Cellular Isoform of the Human Prion Protein, Is a Novel Biomarker of HIV-Associated Neurocognitive Impairment and Mediates Neuroinflammation. <i>American Journal of Pathology</i> , 2010, 177, 1848-1860.	1.9	43
38	HIV-tat alters Connexin43 expression and trafficking in human astrocytes: role in NeuroAIDS. <i>Journal of Neuroinflammation</i> , 2016, 13, 54.	3.1	43
39	The Effects of Opioids on HIV Neuropathogenesis. <i>Frontiers in Immunology</i> , 2019, 10, 2445.	2.2	42
40	Mechanisms of HIV-tat-Induced Phosphorylation of N-Methyl-d-Aspartate Receptor Subunit 2A in Human Primary Neurons. <i>American Journal of Pathology</i> , 2010, 176, 2819-2830.	1.9	40
41	CD40-CD40 ligand interactions in human microglia induce CXCL8 (interleukin-8) secretion by a mechanism dependent on activation of ERK1/2 and nuclear translocation of nuclear factor- κ B (NF κ B) and activator protein-1 (AP-1). <i>Journal of Neuroscience Research</i> , 2008, 86, 630-639.	1.3	39
42	Central Nervous System (CNS) Viral Seeding by Mature Monocytes and Potential Therapies To Reduce CNS Viral Reservoirs in the cART Era. <i>MBio</i> , 2021, 12, .	1.8	37
43	TGF-Beta Downmodulates Cytokine-Induced Monocyte Chemoattractant Protein (MCP)-1 Expression in Human Endothelial Cells. A Putative Role for TGF-Beta in the Modulation of TNF Receptor Expression. <i>Endothelium: Journal of Endothelial Cell Research</i> , 1999, 6, 291-302.	1.7	32
44	CCR2 on Peripheral Blood CD14+CD16+ Monocytes Correlates with Neuronal Damage, HIV-Associated Neurocognitive Disorders, and Peripheral HIV DNA: reseeding of CNS reservoirs?. <i>Journal of NeuroImmune Pharmacology</i> , 2019, 14, 120-133.	2.1	31
45	Buprenorphine Decreases the CCL2-Mediated Chemotactic Response of Monocytes. <i>Journal of Immunology</i> , 2015, 194, 3246-3258.	0.4	29
46	Lipid metabolites of the phospholipase A2 pathway and inflammatory cytokines are associated with brain volume in paediatric cerebral malaria. <i>Malaria Journal</i> , 2015, 14, 513.	0.8	28
47	Methamphetamine Increases the Proportion of SIV-Infected Microglia/Macrophages, Alters Metabolic Pathways, and Elevates Cell Death Pathways: A Single-Cell Analysis. <i>Viruses</i> , 2020, 12, 1297.	1.5	28
48	Differences in NMDA Receptor Expression During Human Development Determine the Response of Neurons to HIV-Tat-mediated Neurotoxicity. <i>Neurotoxicity Research</i> , 2011, 19, 138-148.	1.3	26
49	Frontline Science: CXCR7 mediates CD14+CD16+ monocyte transmigration across the blood brain barrier: a potential therapeutic target for NeuroAIDS. <i>Journal of Leukocyte Biology</i> , 2017, 102, 1173-1185.	1.5	24
50	Frontline Science: Buprenorphine decreases CCL2-mediated migration of CD14+CD16+monocytes. <i>Journal of Leukocyte Biology</i> , 2018, 104, 1049-1059.	1.5	23
51	HIV-Tat regulates macrophage gene expression in the context of neuroAIDS. <i>PLoS ONE</i> , 2017, 12, e0179882.	1.1	22
52	The ordered array of perivascular macrophages is disrupted by IL-1-induced inflammation in the rabbit retina. , 1996, 17, 307-316.		21
53	The Role of Shed PrPc in the Neuropathogenesis of HIV Infection. <i>Journal of Immunology</i> , 2017, 199, 224-232.	0.4	20
54	HIV Nef and Antiretroviral Therapy Have an Inhibitory Effect on Autophagy in Human Astrocytes that May Contribute to HIV-Associated Neurocognitive Disorders. <i>Cells</i> , 2020, 9, 1426.	1.8	20

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55	Transcriptional Changes in CD16+ Monocytes May Contribute to the Pathogenesis of COVID-19. <i>Frontiers in Immunology</i> , 2021, 12, 665773.	2.2	20
56	The malaria toxin hemozoin induces apoptosis in human neurons and astrocytes: Potential role in the pathogenesis of cerebral malaria. <i>Brain Research</i> , 2019, 1720, 146317.	1.1	18
57	Interactions of Monocytes, HIV, and ART Identified by an Innovative scRNAseq Pipeline: Pathways to Reservoirs and HIV-Associated Comorbidities. <i>MBio</i> , 2020, 11, .	1.8	17
58	A fully human antibody to gp41 selectively eliminates HIV-infected cells that transmigrated across a model human blood brain barrier. <i>Aids</i> , 2016, 30, 563-572.	1.0	12
59	Higher circulating intermediate monocytes are associated with cognitive function in women with HIV. <i>JCI Insight</i> , 2021, 6, .	2.3	11
60	Opioids and Opioid Maintenance Therapies: Their Impact on Monocyte-Mediated HIV Neuropathogenesis. <i>Current HIV Research</i> , 2016, 14, 417-430.	0.2	11
61	Interleukin-1?-induced expression of monocyte chemotactic protein-1 in the rabbit retina: An in situ and immunohistochemical study. , 2000, 30, 279-289.		10
62	Protease Resistant Protein Cellular Isoform (PrPc) as a Biomarker: Clues into the Pathogenesis of HAND. <i>Journal of NeuroImmune Pharmacology</i> , 2013, 8, 1159-1166.	2.1	10
63	Treatment with buprenorphine prior to EcoHIV infection of mice prevents the development of neurocognitive impairment. <i>Journal of Leukocyte Biology</i> , 2021, 109, 675-681.	1.5	9
64	Inflammatory mediators reduce surface PrPc on human BMVEC resulting in decreased barrier integrity. <i>Laboratory Investigation</i> , 2018, 98, 1347-1359.	1.7	8
65	Improved Methods to Detect Low Levels of HIV Using Antibody-Based Technologies. <i>Methods in Molecular Biology</i> , 2016, 1354, 265-279.	0.4	7
66	Non-invasive nuclear imaging for localization of viral reservoirs. <i>Nature Methods</i> , 2015, 12, 399-400.	9.0	6
67	Combination of Antiretroviral Drugs and Radioimmunotherapy Specifically Kills Infected Cells from HIV-Infected Individuals. <i>Frontiers in Medicine</i> , 2016, 3, 41.	1.2	6
68	Comparison of various radioactive payloads for a human monoclonal antibody to glycoprotein 41 for elimination of HIV-infected cells. <i>Nuclear Medicine and Biology</i> , 2020, 82-83, 80-88.	0.3	6
69	HIV Increases the Inhibitory Impact of Morphine and Antiretrovirals on Autophagy in Primary Human Macrophages: Contributions to Neuropathogenesis. <i>Cells</i> , 2021, 10, 2183.	1.8	6
70	Novel flow cytometric analysis of the blood-brain barrier. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 897-907.	1.1	5
71	MR spectroscopy and diffusion imaging in people with human immunodeficiency virus: Relationships to clinical and immunologic findings. <i>Journal of Neuroimaging</i> , 2022, 32, 158-170.	1.0	2
72	Methamphetamine Dysregulates Macrophage Functions and Autophagy to Mediate HIV Neuropathogenesis. <i>Biomedicines</i> , 2022, 10, 1257.	1.4	2

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73	Prevention of endothelial cell cytokine induction by a Staphylococcus aureus lipoprotein. FEMS Immunology and Medical Microbiology, 2000, 28, 301-305.	2.7	1