

Robyn S Klein

List of Publications by Year in descending order

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107
papers

10,908
citations

30070

54
h-index

32842

100
g-index

114
all docs

114
docs citations

114
times ranked

15787
citing authors

#	ARTICLE	IF	CITATIONS
1	Zika Virus Infection during Pregnancy in Mice Causes Placental Damage and Fetal Demise. <i>Cell</i> , 2016, 165, 1081-1091.	28.9	737
2	A small-molecule antagonist of CXCR4 inhibits intracranial growth of primary brain tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13513-13518.	7.1	590
3	Resistance to Experimental Autoimmune Encephalomyelitis in Mice Lacking the Cc Chemokine Receptor (Ccr2). <i>Journal of Experimental Medicine</i> , 2000, 192, 1075-1080.	8.5	553
4	A complement-microglial axis drives synapse loss during virus-induced memory impairment. <i>Nature</i> , 2016, 534, 538-543.	27.8	534
5	Neuronal CXCL10 Directs CD8 ⁺ T-Cell Recruitment and Control of West Nile Virus Encephalitis. <i>Journal of Virology</i> , 2005, 79, 11457-11466.	3.4	386
6	Ephrin-B Reverse Signaling Is Mediated by a Novel PDZ-RGS Protein and Selectively Inhibits G Protein-Coupled Chemoattraction. <i>Cell</i> , 2001, 105, 69-79.	28.9	356
7	Quantification of increased cellularity during inflammatory demyelination. <i>Brain</i> , 2011, 134, 3590-3601.	7.6	317
8	How COVID-19 Affects the Brain. <i>JAMA Psychiatry</i> , 2021, 78, 682.	11.0	286
9	COVID-19 neuropathology at Columbia University Irving Medical Center/New York Presbyterian Hospital. <i>Brain</i> , 2021, 144, 2696-2708.	7.6	254
10	Changes in B- and T-Lymphocyte and Chemokine Levels With Rituximab Treatment in Multiple Sclerosis. <i>Archives of Neurology</i> , 2010, 67, 707-14.	4.5	227
11	TREM2 regulates microglial cell activation in response to demyelination in vivo. <i>Acta Neuropathologica</i> , 2015, 129, 429-447.	7.7	224
12	Detecting axon damage in spinal cord from a mouse model of multiple sclerosis. <i>Neurobiology of Disease</i> , 2006, 21, 626-632.	4.4	220
13	CXCL12 Limits Inflammation by Localizing Mononuclear Infiltrates to the Perivascular Space during Experimental Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , 2006, 177, 8053-8064.	0.8	215
14	CXCR4 promotes differentiation of oligodendrocyte progenitors and remyelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11062-11067.	7.1	200
15	Interferon- β restricts West Nile virus neuroinvasion by tightening the blood-brain barrier. <i>Science Translational Medicine</i> , 2015, 7, 284ra59.	12.4	197
16	CXCR7 influences leukocyte entry into the CNS parenchyma by controlling abluminal CXCL12 abundance during autoimmunity. <i>Journal of Experimental Medicine</i> , 2011, 208, 327-339.	8.5	194
17	Sex Drives Dimorphic Immune Responses to Viral Infections. <i>Journal of Immunology</i> , 2017, 198, 1782-1790.	0.8	183
18	Viral Pathogen-Associated Molecular Patterns Regulate Blood-Brain Barrier Integrity via Competing Innate Cytokine Signals. <i>MBio</i> , 2014, 5, e01476-14.	4.1	179

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19	Trojan Horse Transit Contributes to Blood-Brain Barrier Crossing of a Eukaryotic Pathogen. <i>MBio</i> , 2017, 8, .	4.1	176
20	Sex differences in cancer mechanisms. <i>Biology of Sex Differences</i> , 2020, 11, 17.	4.1	169
21	Pathological Expression of CXCL12 at the Blood-Brain Barrier Correlates with Severity of Multiple Sclerosis. <i>American Journal of Pathology</i> , 2008, 172, 799-808.	3.8	168
22	Infectious immunity in the central nervous system and brain function. <i>Nature Immunology</i> , 2017, 18, 132-141.	14.5	163
23	CXCR3 Mediates Region-Specific Antiviral T Cell Trafficking within the Central Nervous System during West Nile Virus Encephalitis. <i>Journal of Immunology</i> , 2008, 180, 2641-2649.	0.8	154
24	T cells promote microglia-mediated synaptic elimination and cognitive dysfunction during recovery from neuropathogenic flaviviruses. <i>Nature Neuroscience</i> , 2019, 22, 1276-1288.	14.8	146
25	2â€²-O Methylation of the Viral mRNA Cap by West Nile Virus Evades Ifit1-Dependent and -Independent Mechanisms of Host Restriction In Vivo. <i>PLoS Pathogens</i> , 2012, 8, e1002698.	4.7	142
26	Protective and Pathological Immunity during Central Nervous System Infections. <i>Immunity</i> , 2017, 46, 891-909.	14.3	123
27	IFN-Inducible Protein 10/CXC Chemokine Ligand 10-Independent Induction of Experimental Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , 2004, 172, 550-559.	0.8	122
28	CXCR4 antagonism increases T cell trafficking in the central nervous system and improves survival from West Nile virus encephalitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11270-11275.	7.1	119
29	Chemokines in the balance: maintenance of homeostasis and protection at CNS barriers. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 154.	3.7	118
30	The TAM receptor Mertk protects against neuroinvasive viral infection by maintaining blood-brain barrier integrity. <i>Nature Medicine</i> , 2015, 21, 1464-1472.	30.7	113
31	Astrocyte TNFR2 is required for CXCL12-mediated regulation of oligodendrocyte progenitor proliferation and differentiation within the adult CNS. <i>Acta Neuropathologica</i> , 2012, 124, 847-860.	7.7	112
32	Immune and nervous system CXCL12 and CXCR4: parallel roles in patterning and plasticity. <i>Trends in Immunology</i> , 2004, 25, 306-314.	6.8	110
33	Neuroinflammation During RNA Viral Infections. <i>Annual Review of Immunology</i> , 2019, 37, 73-95.	21.8	107
34	Enhanced sphingosine-1-phosphate receptor 2 expression underlies female CNS autoimmunity susceptibility. <i>Journal of Clinical Investigation</i> , 2014, 124, 2571-2584.	8.2	107
35	Astrocytes decrease adult neurogenesis during virus-induced memory dysfunction via IL-1. <i>Nature Immunology</i> , 2018, 19, 151-161.	14.5	105
36	Tumor Necrosis Factor Alpha Protects against Lethal West Nile Virus Infection by Promoting Trafficking of Mononuclear Leukocytes into the Central Nervous System. <i>Journal of Virology</i> , 2008, 82, 8956-8964.	3.4	101

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37	CSF1R antagonism limits local restimulation of antiviral CD8+ T cells during viral encephalitis. <i>Journal of Neuroinflammation</i> , 2019, 16, 22.	7.2	100
38	Regional astrocyte IFN signaling restricts pathogenesis during neurotropic viral infection. <i>Journal of Clinical Investigation</i> , 2017, 127, 843-856.	8.2	100
39	The Olfactory Bulb: An Immunosensory Effector Organ during Neurotropic Viral Infections. <i>ACS Chemical Neuroscience</i> , 2016, 7, 464-469.	3.5	98
40	The Innate Immune Adaptor Molecule MyD88 Restricts West Nile Virus Replication and Spread in Neurons of the Central Nervous System. <i>Journal of Virology</i> , 2010, 84, 12125-12138.	3.4	96
41	Immortalized human cerebral microvascular endothelial cells maintain the properties of primary cells in an in vitro model of immune migration across the blood brain barrier. <i>Journal of Neuroscience Methods</i> , 2013, 212, 173-179.	2.5	96
42	Mycobacterium tuberculosis carrying a rifampicin drug resistance mutation reprograms macrophage metabolism through cell wall lipid changes. <i>Nature Microbiology</i> , 2018, 3, 1099-1108.	13.3	90
43	West Nile virus: crossing the blood-brain barrier. <i>Nature Medicine</i> , 2004, 10, 1294-1295.	30.7	85
44	Speaking out about gender imbalance in invited speakers improves diversity. <i>Nature Immunology</i> , 2017, 18, 475-478.	14.5	81
45	CD40-CD40 Ligand Interactions Promote Trafficking of CD8 ⁺ T Cells into the Brain and Protection against West Nile Virus Encephalitis. <i>Journal of Virology</i> , 2007, 81, 9801-9811.	3.4	80
46	IL-1R Signaling within the Central Nervous System Regulates CXCL12 Expression at the Blood-Brain Barrier and Disease Severity during Experimental Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , 2009, 183, 613-620.	0.8	77
47	Encephalitic Arboviruses: Emergence, Clinical Presentation, and Neuropathogenesis. <i>Neurotherapeutics</i> , 2016, 13, 514-534.	4.4	77
48	IL-1R1 is required for dendritic cell-mediated T cell reactivation within the CNS during West Nile virus encephalitis. <i>Journal of Experimental Medicine</i> , 2013, 210, 503-516.	8.5	75
49	Viral Encephalitis and Neurologic Diseases: Focus on Astrocytes. <i>Trends in Molecular Medicine</i> , 2018, 24, 950-962.	6.7	75
50	Bone Marrow Transplantation Augments the Effect of Brain- and Spinal Cord-Directed Adeno-Associated Virus 2/5 Gene Therapy by Altering Inflammation in the Murine Model of Globoid-Cell Leukodystrophy. <i>Journal of Neuroscience</i> , 2011, 31, 9945-9957.	3.6	73
51	Targeting Monocyte Recruitment in CNS Autoimmune Disease. <i>Clinical Immunology</i> , 2002, 103, 125-131.	3.2	72
52	Mechanisms of Pathogen Invasion into the Central Nervous System. <i>Neuron</i> , 2019, 103, 771-783.	8.1	72
53	Virus entry and replication in the brain precedes blood-brain barrier disruption during intranasal alphavirus infection. <i>Journal of Neuroimmunology</i> , 2017, 308, 118-130.	2.3	69
54	Mediators of oligodendrocyte differentiation during remyelination. <i>FEBS Letters</i> , 2011, 585, 3730-3737.	2.8	61

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55	Plasmodium falciparum Histidine-Rich Protein II Compromises Brain Endothelial Barriers and May Promote Cerebral Malaria Pathogenesis. MBio, 2016, 7, .	4.1	58
56	IL-1R1 Signaling Regulates CXCL12-Mediated T Cell Localization and Fate within the Central Nervous System during West Nile Virus Encephalitis. Journal of Immunology, 2014, 193, 4095-4106.	0.8	53
57	Targeting CXCR7/ACKR3 as a therapeutic strategy to promote remyelination in the adult central nervous system. Journal of Experimental Medicine, 2014, 211, 791-799.	8.5	53
58	A Tumor Necrosis Factor Receptor 1-Dependent Conversation between Central Nervous System-Specific T Cells and the Central Nervous System Is Required for Inflammatory Infiltration of the Spinal Cord. American Journal of Pathology, 2006, 168, 1200-1209.	3.8	49
59	Regulation of neuroinflammation: The role of CXCL10 in lymphocyte infiltration during autoimmune encephalomyelitis. Journal of Cellular Biochemistry, 2004, 92, 213-222.	2.6	44
60	Heterogeneous expression of carboxypeptidase E and proenkephalin mRNAs by cultured astrocytes. Brain Research, 1992, 569, 300-310.	2.2	42
61	CXCR7 antagonism prevents axonal injury during experimental autoimmune encephalomyelitis as revealed by in vivo axonal diffusivity. Journal of Neuroinflammation, 2011, 8, 170.	7.2	41
62	Neuroinflammation and COVID-19. Current Opinion in Neurobiology, 2022, 76, 102608.	4.2	40
63	TNF- α -dependent regulation of CXCR3 expression modulates neuronal survival during West Nile virus encephalitis. Journal of Neuroimmunology, 2010, 224, 28-38.	2.3	39
64	CCR2 Signaling Restricts SARS-CoV-2 Infection. MBio, 2021, 12, e0274921.	4.1	38
65	Preconditioning-induced CXCL12 upregulation minimizes leukocyte infiltration after stroke in ischemia-tolerant mice. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 801-813.	4.3	37
66	Immunological headgear: antiviral immune responses protect against neuroinvasive West Nile virus. Trends in Molecular Medicine, 2008, 14, 286-294.	6.7	36
67	Rituximab combination therapy in relapsing multiple sclerosis. Therapeutic Advances in Neurological Disorders, 2012, 5, 311-319.	3.5	36
68	Astrocyte-T cell crosstalk regulates region-specific neuroinflammation. Glia, 2020, 68, 1361-1374.	4.9	36
69	CCR5 limits cortical viral loads during West Nile virus infection of the central nervous system. Journal of Neuroinflammation, 2015, 12, 233.	7.2	34
70	Encephalitic Alphaviruses Exploit Caveola-Mediated Transcytosis at the Blood-Brain Barrier for Central Nervous System Entry. MBio, 2020, 11, .	4.1	34
71	Peli1 facilitates virus replication and promotes neuroinflammation during West Nile virus infection. Journal of Clinical Investigation, 2018, 128, 4980-4991.	8.2	34
72	Secretion of Carboxypeptidase E from Cultured Astrocytes and from AtT-20 Cells, a Neuroendocrine Cell Line: Implications for Neuropeptide Biosynthesis. Journal of Neurochemistry, 1992, 58, 2011-2018.	3.9	33

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73	A genetic basis for human susceptibility to West Nile virus. <i>Trends in Microbiology</i> , 2006, 14, 287-289.	7.7	33
74	Knocking on Closed Doors: Host Interferons Dynamically Regulate Blood-Brain Barrier Function during Viral Infections of the Central Nervous System. <i>PLoS Pathogens</i> , 2015, 11, e1005096.	4.7	30
75	Therapeutic enhancement of blood-brain and blood-tumor barriers permeability by laser interstitial thermal therapy. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa071.	0.7	29
76	Region-specific regulation of inflammation and pathogenesis in experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2006, 181, 122-132.	2.3	22
77	Update on T cells in the virally infected brain: friends and foes. <i>Current Opinion in Neurology</i> , 2020, 33, 405-412.	3.6	21
78	A potent and selective C-11 labeled PET tracer for imaging sphingosine-1-phosphate receptor 2 in the CNS demonstrates sexually dimorphic expression. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 7928-7939.	2.8	20
79	Viral interactions with the blood-brain barrier: old dog, new tricks. <i>Tissue Barriers</i> , 2016, 4, e1142492.	3.2	20
80	Plasmodium falciparum histidine-rich protein II causes vascular leakage and exacerbates experimental cerebral malaria in mice. <i>PLoS ONE</i> , 2017, 12, e0177142.	2.5	19
81	Cultured astrocytes express mRNA for peptidylglycine- α -amidating monooxygenase, a neuropeptide processing enzyme. <i>Brain Research</i> , 1992, 596, 202-208.	2.2	18
82	MicroRNA signature of central nervous system-infiltrating dendritic cells in an animal model of multiple sclerosis. <i>Immunology</i> , 2018, 155, 112-122.	4.4	18
83	Differential <i>In Vitro</i> Infection of Neural Cells by Astroviruses. <i>MBio</i> , 2019, 10, .	4.1	18
84	Neuroprotective versus Neuroinflammatory Roles of Complement: From Development to Disease. <i>Trends in Neurosciences</i> , 2021, 44, 97-109.	8.6	17
85	Infection and inflammation: New perspectives on Alzheimer's disease. <i>Brain, Behavior, & Immunity - Health</i> , 2022, 22, 100462.	2.5	17
86	Congenitally Acquired Persistent Lymphocytic Choriomeningitis Viral Infection Reduces Neuronal Progenitor Pools in the Adult Hippocampus and Subventricular Zone. <i>PLoS ONE</i> , 2014, 9, e96442.	2.5	15
87	Levels of Circulating NS1 Impact West Nile Virus Spread to the Brain. <i>Journal of Virology</i> , 2021, 95, e0084421.	3.4	13
88	Type III Interferons: Emerging Roles in Autoimmunity. <i>Frontiers in Immunology</i> , 2021, 12, 764062.	4.8	13
89	Chemokines Referee Inflammation within the Central Nervous System during Infection and Disease. <i>Advances in Medicine</i> , 2014, 2014, 1-10.	0.8	12
90	IL-1 reprogramming of adult neural stem cells limits neurocognitive recovery after viral encephalitis by maintaining a proinflammatory state. <i>Brain, Behavior, and Immunity</i> , 2022, 99, 383-396.	4.1	12

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91	Mechanisms of coronavirus infectious disease 2019-related neurologic diseases. <i>Current Opinion in Neurology</i> , 2022, 35, 392-398.	3.6	11
92	Design and synthesis of pyrazolopyridine derivatives as sphingosine 1-phosphate receptor 2 ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 488-496.	2.2	10
93	Decreased antiviral immune response within the central nervous system of aged mice is associated with increased lethality of West Nile virus encephalitis. <i>Aging Cell</i> , 2021, 20, e13412.	6.7	10
94	Design, synthesis, and in vitro bioactivity evaluation of fluorine-containing analogues for sphingosine-1-phosphate 2 receptor. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 3619-3631.	3.0	9
95	Viruses have multiple paths to central nervous system pathology. <i>Current Opinion in Neurology</i> , 2018, 31, 313-317.	3.6	7
96	On Complement, Memory, and Microglia. <i>New England Journal of Medicine</i> , 2020, 382, 2056-2058.	27.0	7
97	Astrocytes: Initiators of and Responders to Inflammation. , 2020, , .		6
98	Molecular and Immunocytochemical Studies of Neurofibromas and Related Cell Types. <i>Annals of the New York Academy of Sciences</i> , 1986, 486, 96-106.	3.8	5
99	PET Study of Sphingosine-1-phosphate Receptor 1 Expression in Response to <i>S. aureus</i> Infection. <i>Molecular Imaging</i> , 2021, 2021, 9982020.	1.4	5
100	Radiosynthesis and evaluation of a fluorine-18 radiotracer [¹⁸ F]FS1P1 for imaging sphingosine-1-phosphate receptor 1. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 1041-1052.	2.8	5
101	Encephalitic Arboviruses of Africa: Emergence, Clinical Presentation and Neuropathogenesis. <i>Frontiers in Immunology</i> , 2021, 12, 769942.	4.8	4
102	An In Vitro Brain Endothelial Model for Studies of Cryptococcal Transmigration into the Central Nervous System. <i>Current Protocols in Microbiology</i> , 2019, 53, e78.	6.5	3
103	Astrocyte interleukin-3 preps microglia. <i>Trends in Immunology</i> , 2021, 42, 937-939.	6.8	3
104	Dual Blades: The Role of Musashi 1 in Zika Replication and Microcephaly. <i>Cell Host and Microbe</i> , 2017, 22, 9-11.	11.0	2
105	Synthesis and characterization of [125I]TZ6544, a promising radioligand for investigating sphingosine-1-phosphate receptor 2. <i>Nuclear Medicine and Biology</i> , 2020, 88-89, 52-61.	0.6	2
106	A new era in neuroimmunology. <i>Journal of Neuroimmunology</i> , 2021, 351, 577478.	2.3	1
107	Erratum for Vanderheiden et al., "CCR2 Signaling Restricts SARS-CoV-2 Infection", <i>MBio</i> , 2022, , e0025922.	4.1	0