

# Jonathan Kipnis

## List of Publications by Year in descending order

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Version: 2024-02-01

119  
papers

21,472  
citations

12330

69  
h-index

19190

118  
g-index

166  
all docs

166  
docs citations

166  
times ranked

20443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and functional features of central nervous system lymphatic vessels. <i>Nature</i> , 2015, 523, 337-341.	27.8	3,173
2	Immune cells contribute to the maintenance of neurogenesis and spatial learning abilities in adulthood. <i>Nature Neuroscience</i> , 2006, 9, 268-275.	14.8	1,072
3	Functional aspects of meningeal lymphatics in ageing and Alzheimer's disease. <i>Nature</i> , 2018, 560, 185-191.	27.8	839
4	Regulation of learning and memory by meningeal immunity: a key role for IL-4. <i>Journal of Experimental Medicine</i> , 2010, 207, 1067-1080.	8.5	640
5	High-Dimensional Single-Cell Mapping of Central Nervous System Immune Cells Reveals Distinct Myeloid Subsets in Health, Aging, and Disease. <i>Immunity</i> , 2018, 48, 380-395.e6.	14.3	638
6	CNS lymphatic drainage and neuroinflammation are regulated by meningeal lymphatic vasculature. <i>Nature Neuroscience</i> , 2018, 21, 1380-1391.	14.8	579
7	Wild-type microglia arrest pathology in a mouse model of Rett syndrome. <i>Nature</i> , 2012, 484, 105-109.	27.8	547
8	Revisiting the Mechanisms of CNS Immune Privilege. <i>Trends in Immunology</i> , 2015, 36, 569-577.	6.8	515
9	Unexpected role of interferon- $\beta$ in regulating neuronal connectivity and social behaviour. <i>Nature</i> , 2016, 535, 425-429.	27.8	507
10	IL-4 in the Brain: A Cytokine To Remember. <i>Journal of Immunology</i> , 2012, 189, 4213-4219.	0.8	446
11	Understanding the functions and relationships of the glymphatic system and meningeal lymphatics. <i>Journal of Clinical Investigation</i> , 2017, 127, 3210-3219.	8.2	436
12	T cell deficiency leads to cognitive dysfunction: Implications for therapeutic vaccination for schizophrenia and other psychiatric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8180-8185.	7.1	425
13	Human and nonhuman primate meninges harbor lymphatic vessels that can be visualized noninvasively by MRI. <i>ELife</i> , 2017, 6, .	6.0	403
14	The Lymphatic Vasculature in the 21st Century: Novel Functional Roles in Homeostasis and Disease. <i>Cell</i> , 2020, 182, 270-296.	28.9	352
15	The Meningeal Lymphatic System: A New Player in Neurophysiology. <i>Neuron</i> , 2018, 100, 375-388.	8.1	306
16	Functional characterization of the dural sinuses as a neuroimmune interface. <i>Cell</i> , 2021, 184, 1000-1016.e27.	28.9	299
17	Multifaceted interactions between adaptive immunity and the central nervous system. <i>Science</i> , 2016, 353, 766-771.	12.6	282
18	Skull and vertebral bone marrow are myeloid cell reservoirs for the meninges and CNS parenchyma. <i>Science</i> , 2021, 373, .	12.6	282

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19	Peripherally derived macrophages can engraft the brain independent of irradiation and maintain an identity distinct from microglia. <i>Journal of Experimental Medicine</i> , 2018, 215, 1627-1647.	8.5	281
20	The Glia-Derived Alarmin IL-33 Orchestrates the Immune Response and Promotes Recovery following CNS Injury. <i>Neuron</i> , 2015, 85, 703-709.	8.1	272
21	Microbiota alteration is associated with the development of stress-induced despair behavior. <i>Scientific Reports</i> , 2017, 7, 43859.	3.3	259
22	Myeloid Cells in the Central Nervous System. <i>Immunity</i> , 2017, 46, 943-956.	14.3	259
23	Neuroprotective autoimmunity: Naturally occurring CD4 <sup>+</sup> CD25 <sup>+</sup> regulatory T cells suppress the ability to withstand injury to the central nervous system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15620-15625.	7.1	257
24	Dealing with Danger in the CNS: The Response of the Immune System to Injury. <i>Neuron</i> , 2015, 87, 47-62.	8.1	252
25	How Do Immune Cells Support and Shape the Brain in Health, Disease, and Aging?. <i>Journal of Neuroscience</i> , 2013, 33, 17587-17596.	3.6	236
26	Meningeal $\hat{I}3\hat{I}$ T cells regulate anxiety-like behavior via IL-17a signaling in neurons. <i>Nature Immunology</i> , 2020, 21, 1421-1429.	14.5	225
27	Neuronal Survival after CNS Insult Is Determined by a Genetically Encoded Autoimmune Response. <i>Journal of Neuroscience</i> , 2001, 21, 4564-4571.	3.6	220
28	Heterogeneity of meningeal B cells reveals a lymphopoietic niche at the CNS borders. <i>Science</i> , 2021, 373, .	12.6	218
29	Pro-cognitive properties of T cells. <i>Nature Reviews Immunology</i> , 2012, 12, 663-669.	22.7	216
30	Meningeal Immunity and Its Function in Maintenance of the Central Nervous System in Health and Disease. <i>Annual Review of Immunology</i> , 2020, 38, 597-620.	21.8	199
31	Adaptive immunity affects learning behavior in mice. <i>Brain, Behavior, and Immunity</i> , 2008, 22, 861-869.	4.1	191
32	Meningeal lymphatics affect microglia responses and anti-A $\hat{I}2$ immunotherapy. <i>Nature</i> , 2021, 593, 255-260.	27.8	179
33	Dopamine, through the Extracellular Signal-Regulated Kinase Pathway, Downregulates CD4 <sup>+</sup> CD25 <sup>+</sup> Regulatory T-Cell Activity: Implications for Neurodegeneration. <i>Journal of Neuroscience</i> , 2004, 24, 6133-6143.	3.6	176
34	Meningeal lymphatic dysfunction exacerbates traumatic brain injury pathogenesis. <i>Nature Communications</i> , 2020, 11, 4524.	12.8	174
35	Physical and Functional Interaction between p53 and the Werner's Syndrome Protein. <i>Journal of Biological Chemistry</i> , 1999, 274, 29463-29469.	3.4	170
36	Interactions of innate and adaptive immunity in brain development and function. <i>Brain Research</i> , 2015, 1617, 18-27.	2.2	169

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37	Immune cells and CNS physiology: Microglia and beyond. <i>Journal of Experimental Medicine</i> , 2019, 216, 60-70.	8.5	165
38	Neuromodulation by the immune system: a focus on cytokines. <i>Nature Reviews Immunology</i> , 2021, 21, 526-541.	22.7	164
39	MHCII-independent CD4+ T cells protect injured CNS neurons via IL-4. <i>Journal of Clinical Investigation</i> , 2015, 125, 699-714.	8.2	161
40	Methyl-CpG Binding Protein 2 Regulates Microglia and Macrophage Gene Expression in Response to Inflammatory Stimuli. <i>Immunity</i> , 2015, 42, 679-691.	14.3	157
41	Dual effect of CD4 <sup>+</sup> CD25 <sup>+</sup> regulatory T cells in neurodegeneration: A dialogue with microglia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14663-14669.	7.1	156
42	How and why do T cells and their derived cytokines affect the injured and healthy brain?. <i>Nature Reviews Neuroscience</i> , 2017, 18, 375-384.	10.2	156
43	Maladaptation to mental stress mitigated by the adaptive immune system via depletion of naturally occurring regulatory CD4+CD25+ cells. <i>Journal of Neurobiology</i> , 2006, 66, 552-563.	3.6	155
44	Protective autoimmunity: regulation and prospects for vaccination after brain and spinal cord injuries. <i>Trends in Molecular Medicine</i> , 2001, 7, 252-258.	6.7	153
45	Comparative Analysis of Selenocysteine Machinery and Selenoproteome Gene Expression in Mouse Brain Identifies Neurons as Key Functional Sites of Selenium in Mammals. <i>Journal of Biological Chemistry</i> , 2008, 283, 2427-2438.	3.4	151
46	Phagocytic activity of neuronal progenitors regulates adult neurogenesis. <i>Nature Cell Biology</i> , 2011, 13, 1076-1083.	10.3	148
47	Learning and memory and the immune system. <i>Learning and Memory</i> , 2013, 20, 601-606.	1.3	148
48	How Do Meningeal Lymphatic Vessels Drain the CNS?. <i>Trends in Neurosciences</i> , 2016, 39, 581-586.	8.6	143
49	Early activation of microglia as antigen-presenting cells correlates with T cell-mediated protection and repair of the injured central nervous system. <i>Journal of Neuroimmunology</i> , 2004, 146, 84-93.	2.3	134
50	Myelin specific Th1 cells are necessary for post-traumatic protective autoimmunity. <i>Journal of Neuroimmunology</i> , 2002, 130, 78-85.	2.3	132
51	Extracellular redox modulation by regulatory T cells. <i>Nature Chemical Biology</i> , 2009, 5, 721-723.	8.0	129
52	Understanding the Role of T Cells in CNS Homeostasis. <i>Trends in Immunology</i> , 2016, 37, 154-165.	6.8	125
53	Lymphatics in Neurological Disorders: A Neuro-Lympho-Vascular Component of Multiple Sclerosis and Alzheimer's Disease?. <i>Neuron</i> , 2016, 91, 957-973.	8.1	123
54	Brain antigen-reactive CD4+ T cells are sufficient to support learning behavior in mice with limited T cell repertoire. <i>Brain, Behavior, and Immunity</i> , 2014, 35, 58-63.	4.1	107

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55	Protective autoimmunity and neuroprotection in inflammatory and noninflammatory neurodegenerative diseases. <i>Journal of the Neurological Sciences</i> , 2005, 233, 163-166.	0.6	104
56	Neuroprotective Immunity: T Cell-Derived Glutamate Endows Astrocytes with a Neuroprotective Phenotype. <i>Journal of Immunology</i> , 2008, 180, 3866-3873.	0.8	103
57	Autoimmunity on alert: naturally occurring regulatory CD4+CD25+ T cells as part of the evolutionary compromise between a "need" and a "risk". <i>Trends in Immunology</i> , 2002, 23, 530-534.	6.8	100
58	Characterization of meningeal type 2 innate lymphocytes and their response to CNS injury. <i>Journal of Experimental Medicine</i> , 2017, 214, 285-296.	8.5	98
59	Thrombospondin 1 "a key astrocyte-derived neurogenic factor. <i>FASEB Journal</i> , 2010, 24, 1925-1934.	0.5	96
60	Cerebrospinal fluid regulates skull bone marrow niches via direct access through dural channels. <i>Nature Neuroscience</i> , 2022, 25, 555-560.	14.8	96
61	Cytokine-Mediated Inhibition of Fibrillar Amyloid- $\beta^2$ Peptide Degradation by Human Mononuclear Phagocytes. <i>Journal of Immunology</i> , 2008, 181, 3877-3886.	0.8	86
62	Neuronal integrity and complement control synaptic material clearance by microglia after CNS injury. <i>Journal of Experimental Medicine</i> , 2018, 215, 1789-1801.	8.5	85
63	Dual action of glatiramer acetate (Cop-1) in the treatment of CNS autoimmune and neurodegenerative disorders. <i>Trends in Molecular Medicine</i> , 2002, 8, 319-323.	6.7	83
64	Immunity and cognition: what do age-related dementia, HIV-dementia and "chemo-brain" have in common?. <i>Trends in Immunology</i> , 2008, 29, 455-463.	6.8	82
65	Alternatively activated myeloid (M2) cells enhance cognitive function in immune compromised mice. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 379-385.	4.1	82
66	The role of microglia in brain maintenance: implications for Rett syndrome. <i>Trends in Immunology</i> , 2013, 34, 144-150.	6.8	81
67	Toll-like receptors: roles in neuroprotection?. <i>Trends in Neurosciences</i> , 2008, 31, 176-182.	8.6	76
68	Regulatory T Cells in Central Nervous System Injury: A Double-Edged Sword. <i>Journal of Immunology</i> , 2014, 193, 5013-5022.	0.8	74
69	Aging-associated deficit in CCR7 is linked to worsened glymphatic function, cognition, neuroinflammation, and $\beta^2$ -amyloid pathology. <i>Science Advances</i> , 2021, 7, .	10.3	73
70	Meningeal Lymphatics: From Anatomy to Central Nervous System Immune Surveillance. <i>Journal of Immunology</i> , 2020, 204, 286-293.	0.8	69
71	Vaccination with autoantigen protects against aggregated $\beta$ -amyloid and glutamate toxicity by controlling microglia: effect of CD4+CD25+ T?cells. <i>European Journal of Immunology</i> , 2004, 34, 3434-3445.	2.9	68
72	A Novel Immune-Based Therapy for Stroke Induces Neuroprotection and Supports Neurogenesis. <i>Stroke</i> , 2007, 38, 774-782.	2.0	68

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73	A conceptual revolution in the relationships between the brain and immunity. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 817-819.	4.1	68
74	Mononuclear phagocytes in the pathogenesis of neurodegenerative diseases. <i>Neurotoxicity Research</i> , 2005, 8, 25-50.	2.7	66
75	A (delayed) history of the brain lymphatic system. <i>Nature Medicine</i> , 2019, 25, 538-540.	30.7	65
76	Low-dose gamma-irradiation promotes survival of injured neurons in the central nervous system via homeostasis-driven proliferation of T cells. <i>European Journal of Neuroscience</i> , 2004, 19, 1191-1198.	2.6	64
77	Microglia as a critical player in both developmental and late-life CNS pathologies. <i>Acta Neuropathologica</i> , 2014, 128, 333-345.	7.7	64
78	Debate: "Is Increasing Neuroinflammation Beneficial for Neural Repair?" <i>Journal of Neuroimmune Pharmacology</i> , 2006, 1, 195-211.	4.1	63
79	Resistance of retinal ganglion cells to an increase in intraocular pressure is immune-dependent. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 2648-53.	3.3	63
80	T cell independent mechanism for copolymer-induced neuroprotection. <i>European Journal of Immunology</i> , 2007, 37, 3143-3154.	2.9	62
81	Bypassing the blood-brain barrier. <i>Science</i> , 2019, 366, 1448-1449.	12.6	55
82	Therapeutic Vaccination for Closed Head Injury. <i>Journal of Neurotrauma</i> , 2003, 20, 559-569.	3.4	49
83	Fast direct neuronal signaling via the IL-4 receptor as therapeutic target in neuroinflammation. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	49
84	Meningeal Whole Mount Preparation and Characterization of Neural Cells by Flow Cytometry. <i>Current Protocols in Immunology</i> , 2018, 121, e50.	3.6	48
85	Regulatory T cells in CNS injury: the simple, the complex and the confused. <i>Trends in Molecular Medicine</i> , 2011, 17, 541-547.	6.7	47
86	Immune system: The "seventh sense". <i>Journal of Experimental Medicine</i> , 2018, 215, 397-398.	8.5	47
87	GABAergic neuronal IL-4R mediates T cell effect on memory. <i>Neuron</i> , 2021, 109, 3609-3618.e9.	8.1	46
88	Multiple Sclerosis as a By-Product of the Failure to Sustain Protective Autoimmunity: A Paradigm Shift. <i>Neuroscientist</i> , 2002, 8, 405-413.	3.5	45
89	Development and Characterization of A Novel Prox1-EGFP Lymphatic and Schlemm's Canal Reporter Rat. <i>Scientific Reports</i> , 2017, 7, 5577.	3.3	45
90	T cells in the central nervous system: messengers of destruction or purveyors of protection?. <i>Immunology</i> , 2014, 141, 340-344.	4.4	44

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91	IFN $\gamma$ and IL4 differentially shape metabolic responses and neuroprotective phenotype of astrocytes. <i>Journal of Neurochemistry</i> , 2009, 108, 1155-1166.	3.9	42
92	Cerebral amyloid angiopathy is associated with glymphatic transport reduction and time-delayed solute drainage along the neck arteries. <i>Nature Aging</i> , 2022, 2, 214-223.	11.6	41
93	Controlled Autoimmunity in CNS Maintenance and Repair: Naturally Occurring CD4+CD25+ Regulatory T-Cells at the Crossroads of Health and Disease. <i>NeuroMolecular Medicine</i> , 2005, 7, 197-206.	3.4	38
94	The central nervous system: privileged by immune connections. <i>Nature Reviews Immunology</i> , 2018, 18, 83-84.	22.7	34
95	Loss of autoimmune T cells correlates with brain diseases: possible implications for schizophrenia?. <i>Trends in Molecular Medicine</i> , 2006, 12, 107-112.	6.7	30
96	Central Nervous System: (Immunological) Ivory Tower or Not?. <i>Neuropsychopharmacology</i> , 2017, 42, 28-35.	5.4	30
97	Therapeutic T Cell-Based Vaccination for Neurodegenerative Disorders: The Role of CD4+CD25+Regulatory T Cells. <i>Annals of the New York Academy of Sciences</i> , 2005, 1051, 701-708.	3.8	29
98	Microglia – the brain’s busy bees. <i>F1000prime Reports</i> , 2013, 5, 53.	5.9	28
99	Unexpected cellular players in Rett syndrome pathology. <i>Neurobiology of Disease</i> , 2016, 92, 64-71.	4.4	26
100	Immune response after central nervous system injury. <i>Seminars in Immunology</i> , 2022, 59, 101629.	5.6	19
101	Lymphatic Cannulation for Lymph Sampling and Molecular Delivery. <i>Journal of Immunology</i> , 2019, 203, 2339-2350.	0.8	18
102	Cerebrovascular Anomalies: Perspectives From Immunology and Cerebrospinal Fluid Flow. <i>Circulation Research</i> , 2021, 129, 174-194.	4.5	13
103	Influenza A induces dysfunctional immunity and death in MeCP2-overexpressing mice. <i>JCI Insight</i> , 2017, 2, e88257.	5.0	12
104	Meningeal lymphatics – drain – brain tumors. <i>Cell Research</i> , 2020, 30, 191-192.	12.0	11
105	Bugs and Brain: How Infection Makes You Feel Blue. <i>Immunity</i> , 2016, 44, 718-720.	14.3	10
106	Chronic mild stress eliminates the neuroprotective effect of Copaxone after CNS injury. <i>Brain, Behavior, and Immunity</i> , 2013, 31, 177-182.	4.1	9
107	Breaking bad blood: $\beta$ 2-microglobulin as a pro-aging factor in blood. <i>Nature Medicine</i> , 2015, 21, 844-845.	30.7	8
108	Vascular rejuvenation is geroprotective. <i>Science</i> , 2021, 373, 490-491.	12.6	8

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109	DAMed in (Trem) 2 Steps. <i>Cell</i> , 2017, 169, 1172-1174.	28.9	7
110	Smelling Danger: Olfactory Stem Cells Control Immune Defense during Chronic Inflammation. <i>Cell Stem Cell</i> , 2019, 25, 449-451.	11.1	7
111	Sex, Gut, and Microglia. <i>Developmental Cell</i> , 2018, 44, 137-138.	7.0	6
112	Morphological and Functional Analysis of CNS-Associated Lymphatics. <i>Methods in Molecular Biology</i> , 2018, 1846, 141-151.	0.9	6
113	Brainless immunity no more. <i>Nature Immunology</i> , 2015, 16, 440-441.	14.5	3
114	Shedding light on IL-33 in the eye. <i>Journal of Experimental Medicine</i> , 2016, 213, 141-141.	8.5	2
115	Old T Cells Interfer(on) with Neurogenesis. <i>Trends in Immunology</i> , 2019, 40, 783-785.	6.8	1
116	Natural killers in the brain's nursery. <i>Nature Neuroscience</i> , 2016, 19, 176-177.	14.8	0
117	Nonlinear Shape Regression for Filtering Segmentation Results from Calcium Imaging. , 2018, , .		0
118	<i>JEM</i> career launchpad. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	0
119	Quand lâ€™immunitÃ© monte Ã la tÃªte. , 2018, NÂ° 104, 18-25.		0