

Beth Stevens

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

28,578
citations

38742

50
h-index

71685

76
g-index

109
all docs

109
docs citations

109
times ranked

28065
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurotoxic reactive astrocytes are induced by activated microglia. <i>Nature</i> , 2017, 541, 481-487.	27.8	4,977
2	Microglia Sculpt Postnatal Neural Circuits in an Activity and Complement-Dependent Manner. <i>Neuron</i> , 2012, 74, 691-705.	8.1	3,040
3	The Classical Complement Cascade Mediates CNS Synapse Elimination. <i>Cell</i> , 2007, 131, 1164-1178.	28.9	2,567
4	Complement and microglia mediate early synapse loss in Alzheimer mouse models. <i>Science</i> , 2016, 352, 712-716.	12.6	2,237
5	Schizophrenia risk from complex variation of complement component 4. <i>Nature</i> , 2016, 530, 177-183.	27.8	1,915
6	Single-Cell RNA Sequencing of Microglia throughout the Mouse Lifespan and in the Injured Brain Reveals Complex Cell-State Changes. <i>Immunity</i> , 2019, 50, 253-271.e6.	14.3	1,351
7	Microglia emerge as central players in brain disease. <i>Nature Medicine</i> , 2017, 23, 1018-1027.	30.7	1,208
8	The Complement System: An Unexpected Role in Synaptic Pruning During Development and Disease. <i>Annual Review of Neuroscience</i> , 2012, 35, 369-389.	10.7	876
9	The Role of Microglia in the Healthy Brain: Figure 1.. <i>Journal of Neuroscience</i> , 2011, 31, 16064-16069.	3.6	800
10	Microglia: Dynamic Mediators of Synapse Development and Plasticity. <i>Trends in Immunology</i> , 2015, 36, 605-613.	6.8	537
11	A complement-microglial axis drives synapse loss during virus-induced memory impairment. <i>Nature</i> , 2016, 534, 538-543.	27.8	534
12	The complement-synapse: Microglia-synapse interactions in the developing and mature CNS. <i>Glia</i> , 2013, 61, 24-36.	4.9	458
13	New insights on the role of microglia in synaptic pruning in health and disease. <i>Current Opinion in Neurobiology</i> , 2016, 36, 128-134.	4.2	431
14	Complement C3 deficiency protects against neurodegeneration in aged plaque-rich APP/PS1 mice. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	401
15	Molecular clustering identifies complement and endothelin induction as early events in a mouse model of glaucoma. <i>Journal of Clinical Investigation</i> , 2011, 121, 1429-1444.	8.2	388
16	Do glia drive synaptic and cognitive impairment in disease?. <i>Nature Neuroscience</i> , 2015, 18, 1539-1545.	14.8	344
17	Enhanced synaptic connectivity and epilepsy in C1q knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7975-7980.	7.1	332
18	Proteomic Analysis of Unbounded Cellular Compartments: Synaptic Clefts. <i>Cell</i> , 2016, 166, 1295-1307.e21.	28.9	324

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19	CD47 Protects Synapses from Excess Microglia-Mediated Pruning during Development. <i>Neuron</i> , 2018, 100, 120-134.e6.	8.1	304
20	Complement C3-Deficient Mice Fail to Display Age-Related Hippocampal Decline. <i>Journal of Neuroscience</i> , 2015, 35, 13029-13042.	3.6	286
21	Microglia Function in Central Nervous System Development and Plasticity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a020545.	5.5	264
22	Neuron-Glia Signaling in Synapse Elimination. <i>Annual Review of Neuroscience</i> , 2019, 42, 107-127.	10.7	224
23	Immune Signaling in Neurodegeneration. <i>Immunity</i> , 2019, 50, 955-974.	14.3	217
24	Local externalization of phosphatidylserine mediates developmental synaptic pruning by microglia. <i>EMBO Journal</i> , 2020, 39, e105380.	7.8	217
25	Microglia and the Brain: Complementary Partners in Development and Disease. <i>Annual Review of Cell and Developmental Biology</i> , 2018, 34, 523-544.	9.4	214
26	Microglia function during brain development: New insights from animal models. <i>Brain Research</i> , 2015, 1617, 7-17.	2.2	179
27	Dissection of artifactual and confounding glial signatures by single-cell sequencing of mouse and human brain. <i>Nature Neuroscience</i> , 2022, 25, 306-316.	14.8	166
28	Overexpression of schizophrenia susceptibility factor human complement C4A promotes excessive synaptic loss and behavioral changes in mice. <i>Nature Neuroscience</i> , 2021, 24, 214-224.	14.8	158
29	Phagocytic glial cells: sculpting synaptic circuits in the developing nervous system. <i>Current Opinion in Neurobiology</i> , 2013, 23, 1034-1040.	4.2	153
30	The complement cascade: Yin-Yang in neuroinflammation – neuroprotection and –degeneration. <i>Journal of Neurochemistry</i> , 2008, 107, 1169-1187.	3.9	152
31	The Complement Control-Related Genes CSMD1 and CSMD2 Associate to Schizophrenia. <i>Biological Psychiatry</i> , 2011, 70, 35-42.	1.3	149
32	Nanoscale Surveillance of the Brain by Microglia via cAMP-Regulated Filopodia. <i>Cell Reports</i> , 2019, 27, 2895-2908.e4.	6.4	149
33	Microglia and Astrocytes in Disease: Dynamic Duo or Partners in Crime?. <i>Trends in Immunology</i> , 2020, 41, 820-835.	6.8	146
34	GABA-receptive microglia selectively sculpt developing inhibitory circuits. <i>Cell</i> , 2021, 184, 4048-4063.e32.	28.9	142
35	Astrocytes refine cortical connectivity at dendritic spines. <i>ELife</i> , 2014, 3, .	6.0	139
36	A Milieu Molecule for TGF- β 2 Required for Microglia Function in the Nervous System. <i>Cell</i> , 2018, 174, 156-171.e16.	28.9	130

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37	Neuron-Astrocyte Signaling in the Development and Plasticity of Neural Circuits. <i>NeuroSignals</i> , 2008, 16, 278-288.	0.9	129
38	Lupus antibodies induce behavioral changes mediated by microglia and blocked by ACE inhibitors. <i>Journal of Experimental Medicine</i> , 2018, 215, 2554-2566.	8.5	117
39	Microglia contribute to circuit defects in <i>Mecp2</i> null mice independent of microglia-specific loss of <i>Mecp2</i> expression. <i>ELife</i> , 2016, 5, .	6.0	117
40	The adhesion G protein-coupled receptor GPR56 is a cell-autonomous regulator of oligodendrocyte development. <i>Nature Communications</i> , 2015, 6, 6121.	12.8	116
41	A map of transcriptional heterogeneity and regulatory variation in human microglia. <i>Nature Genetics</i> , 2021, 53, 861-868.	21.4	115
42	Synapse elimination during development and disease: immune molecules take centre stage. <i>Biochemical Society Transactions</i> , 2010, 38, 476-481.	3.4	113
43	Sensory Experience Engages Microglia to Shape Neural Connectivity through a Non-Phagocytic Mechanism. <i>Neuron</i> , 2020, 108, 451-468.e9.	8.1	106
44	A splicing isoform of GPR56 mediates microglial synaptic refinement via phosphatidylserine binding. <i>EMBO Journal</i> , 2020, 39, e104136.	7.8	103
45	An Engulfment Assay: A Protocol to Assess Interactions Between CNS Phagocytes and Neurons. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	90
46	Microglial transglutaminase-2 drives myelination and myelin repair via GPR56/ADGRG1 in oligodendrocyte precursor cells. <i>ELife</i> , 2018, 7, .	6.0	86
47	New tricks for an ancient system: Physiological and pathological roles of complement in the CNS. <i>Molecular Immunology</i> , 2018, 102, 3-13.	2.2	85
48	Microglia: Phagocytosing to Clear, Sculpt, and Eliminate. <i>Developmental Cell</i> , 2016, 38, 126-128.	7.0	80
49	The contribution of glial cells to Huntington's disease pathogenesis. <i>Neurobiology of Disease</i> , 2020, 143, 104963.	4.4	56
50	The Role of the Classical Complement Cascade in Synapse Loss During Development and Glaucoma. <i>Advances in Experimental Medicine and Biology</i> , 2010, 703, 75-93.	1.6	51
51	Ocular Dominance Plasticity in Binocular Primary Visual Cortex Does Not Require C1q. <i>Journal of Neuroscience</i> , 2020, 40, 769-783.	3.6	46
52	Experience-Dependent Synaptic Plasticity in V1 Occurs without Microglial CX3CR1. <i>Journal of Neuroscience</i> , 2017, 37, 10541-10553.	3.6	45
53	Roles of microglia in nervous system development, plasticity, and disease. <i>Developmental Neurobiology</i> , 2018, 78, 559-560.	3.0	38
54	Pruning hypothesis comes of age. <i>Nature</i> , 2018, 554, 438-439.	27.8	36

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55	A RIPK1-regulated inflammatory microglial state in amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	36
56	Microglial depletion disrupts normal functional development of adult-born neurons in the olfactory bulb. ELife, 2020, 9, .	6.0	35
57	How Many Cell Types Does It Take to Wire a Brain?. Science, 2011, 333, 1391-1392.	12.6	30
58	Retinal Ganglion Cell Axon Regeneration Requires Complement and Myeloid Cell Activity within the Optic Nerve. Journal of Neuroscience, 2021, 41, 8508-8531.	3.6	25
59	New Brain Lymphatic Vessels Drain Old Concepts. EBioMedicine, 2015, 2, 776-777.	6.1	21
60	Microglia: The Brain's First Responders. Cerebrum: the Dana Forum on Brain Science, 2017, 2017, .	0.1	20
61	Microglia in Neuronal Circuits. Neural Plasticity, 2013, 2013, 1-3.	2.2	18
62	The neuronal retromer can regulate both neuronal and microglial phenotypes of Alzheimer's disease. Cell Reports, 2022, 38, 110262.	6.4	17
63	Brains, Blood, and Guts: MeCP2 Regulates Microglia, Monocytes, and Peripheral Macrophages. Immunity, 2015, 42, 600-602.	14.3	14
64	Structured Illumination Microscopy for the Investigation of Synaptic Structure and Function. Methods in Molecular Biology, 2017, 1538, 155-167.	0.9	13
65	An Ultrahigh-Affinity Complement C4b-Specific Nanobody Inhibits In Vivo Assembly of the Classical Pathway Proconvertase. Journal of Immunology, 2020, 205, 1678-1694.	0.8	12
66	The complement cascade repurposed in the brain. Nature Reviews Immunology, 2021, 21, 624-625.	22.7	11
67	Report on the National Eye Institute's Audacious Goals Initiative: Creating a Cellular Environment for Neuroregeneration. ENeuro, 2018, 5, ENEURO.0035-18.2018.	1.9	9
68	A Complement C3-Specific Nanobody for Modulation of the Alternative Cascade Identifies the C-Terminal Domain of C3b as Functional in C5 Convertase Activity. Journal of Immunology, 2020, 205, 2287-2300.	0.8	9
69	TREM2: Keeping Microglia Fit during Good Times and Bad. Cell Metabolism, 2017, 26, 590-591.	16.2	8
70	Differences among astrocytes. Science, 2016, 351, 813-813.	12.6	7
71	Shedding Light on Glioma Growth. Cell, 2015, 161, 704-706.	28.9	6
72	Increasing the neurological-disease toolbox using iPSC-derived microglia. Nature Medicine, 2016, 22, 1206-1207.	30.7	6

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73	Developing and Mature Synapses. , 2014, , 223-248.		5
74	Editorial overview: Glial biology. Current Opinion in Neurobiology, 2017, 47, iv-vi.	4.2	1
75	O2-07-03: Complement C3-deficiency preserves hippocampal synapses and neurons with aging and improves learning and memory compared to WT mice. , 2013, 9, P328-P328.		0
76	S4-02-03: COMPLEMENT IN ALZHEIMER'S DISEASE: LESSONS FROM C3-DEFICIENT MICE. , 2014, 10, P240-P240.		0