Helmut Kettenmann

List of Publications by Year
in descending order

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175	29,148	5248	5519
papers	citations	83 h-index	163 g-index

178	178	178	26875
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microglia: active sensor and versatile effector cells in the normal and pathologic brain. Nature Neuroscience, 2007, 10, 1387-1394.	7.1	3,116
2	Physiology of Microglia. Physiological Reviews, 2011, 91, 461-553.	13.1	2,990
3	The role of microglia and macrophages in glioma maintenance and progression. Nature Neuroscience, 2016, 19, 20-27.	7.1	1,148
4	Reactive astrocyte nomenclature, definitions, and future directions. Nature Neuroscience, 2021, 24, 312-325.	7.1	1,098
5	Microglia in Physiology and Disease. Annual Review of Physiology, 2017, 79, 619-643.	5.6	1,011
6	Microglia: New Roles for the Synaptic Stripper. Neuron, 2013, 77, 10-18.	3.8	949
7	Glial Calcium: Homeostasis and Signaling Function. Physiological Reviews, 1998, 78, 99-141.	13.1	637
8	The brain tumor microenvironment. Glia, 2012, 60, 502-514.	2.5	624
9	Microdomains for neuronâ€“glia interaction: parallel fiber signaling to Bergmann glial cells. Nature Neuroscience, 1999, 2, 139-143.	7.1	612
10	Neurotransmitter receptors on microglia. Trends in Neurosciences, 2007, 30, 527-535.	4.2	548
11	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue. Glia, 2001, 33, 72-86.	2.5	488
12	Calcium signalling in glial cells. Trends in Neurosciences, 1996, 19, 346-352.	4.2	474
13	Subpopulation of nestin-expressing progenitor cells in the adult murine hippocampus shows electrophysiological and morphological characteristics of astrocytes. Molecular and Cellular Neurosciences, 2003, 23, 373-382.	1.0	435
14	The brain tumor microenvironment. Glia, 2011, 59, 1169-1180.	2.5	425
15	Segregated Expression of AMPA-Type Glutamate Receptors and Glutamate Transporters Defines Distinct Astrocyte Populations in the Mouse Hippocampus. Journal of Neuroscience, 2003, 23, 1750-1758.	1.7	400
16	Functional Impairment of Microglia Coincides with Beta-Amyloid Deposition in Mice with Alzheimer-Like Pathology. PLoS ONE, 2013, 8, e60921.	1.1	381
17	Heterogeneity in astrocyte morphology and physiology. Brain Research Reviews, 2010, 63, 2-10.	9.1	333
18	Glioma-Associated Microglia/Macrophages Display an Expression Profile Different from M1 and M2 Polarization and Highly Express Gpnmb and Spp1. PLoS ONE, 2015, 10, e0116644.	1.1	317

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19	Transcriptional and Translational Differences of Microglia from Male and Female Brains. Cell Reports, 2018, 24, 2773-2783.e6.	2.9	311
20	Type-2 cells as link between glial and neuronal lineage in adult hippocampal neurogenesis. Glia, 2006, 54, 805-814.	2.5	305
21	Microglia Stimulate the Invasiveness of Glioma Cells by Increasing the Activity of Metalloprotease-2. Journal of Neuropathology and Experimental Neurology, 2005, 64, 754-762.	0.9	254
22	CXCR3-Dependent Microglial Recruitment Is Essential for Dendrite Loss after Brain Lesion. Journal of Neuroscience, 2004, 24, 8500-8509.	1.7	245
23	Hydrogen peroxide and ADP-ribose induce TRPM2-mediated calcium influx and cation currents in microglia. American Journal of Physiology - Cell Physiology, 2004, 286, C129-C137.	2.1	244
24	Neuroglia: the 150 years after. Trends in Neurosciences, 2008, 31, 653-659.	4.2	243
25	Elevation of Basal Intracellular Calcium as a Central Element in the Activation of Brain Macrophages (Microglia): Suppression of Receptor-Evoked Calcium Signaling and Control of Release Function. Journal of Neuroscience, 2003, 23, 4410-4419.	1.7	229
26	Astrocyte Ca 2+ waves trigger responses in microglial cells in brain slices. FASEB Journal, 2002, 16, 1-16.	0.2	216
27	Glioblastoma-Induced Attraction of Endogenous Neural Precursor Cells Is Associated with Improved Survival. Journal of Neuroscience, 2005, 25, 2637-2646.	1.7	200
28	Purinergic receptors on microglial cells: functional expression in acute brain slices and modulation of microglial activationin vitro. European Journal of Neuroscience, 2003, 17, 2267-2276.	1.2	196
29	Dopamine and noradrenaline control distinct functions in rodent microglial cells. Molecular and Cellular Neurosciences, 2005, 29, 128-138.	1.0	192
30	Microglia/Brain Macrophages as Central Drivers of Brain Tumor Pathobiology. Neuron, 2019, 104, 442-449.	3.8	190
31	Different Mechanisms Promote Astrocyte Ca²⁺Waves and Spreading Depression in the Mouse Neocortex. Journal of Neuroscience, 2003, 23, 9888-9896.	1.7	183
32	Astrocytes of the mouse neocortex express functional Nâ€methylâ€Dâ€aspartate receptors. FASEB Journal, 2001, 15, 1270-1272.	0.2	182
33	Electrical coupling between astrocytes and between oligodendrocytes studied in mammalian cell cultures. Glia, 1988, 1, 64-73.	2.5	175
34	Microglia express GABA B receptors to modulate interleukin release. Molecular and Cellular Neurosciences, 2004, 25, 312-322.	1.0	174
35	The â€œBigâ€Bangâ€for modern glial biology: Translation and comments on PÃo del RÃoâ€Hortega 1919 series of papers on microglia. Glia, 2016, 64, 1801-1840.	2.5	174
36	Phagocytic Clearance of Apoptotic Neurons by Microglia/Brain Macrophages In Vitro. Journal of Neurochemistry, 2002, 75, 1060-1070.	2.1	171

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37	How Does Intracellular Ca2+ Oscillate: By Chance or by the Clock?. Biophysical Journal, 2008, 94, 2404-2411.	0.2	169
38	Functional role of calcium signals for microglial function. Glia, 2006, 54, 656-665.	2.5	164
39	Physiology of microglial cells. Brain Research Reviews, 2005, 48, 133-143.	9.1	163
40	Purinergic signaling and microglia. Pflugers Archiv European Journal of Physiology, 2006, 452, 615-621.	1.3	163
41	Minocycline rescues decrease in neurogenesis, increase in microglia cytokines and deficits in sensorimotor gating in an animal model of schizophrenia. Brain, Behavior, and Immunity, 2014, 38, 175-184.	2.0	162
42	A subpopulation of precursor cells in the mouse dentate gyrus receives synaptic GABAergic input. Molecular and Cellular Neurosciences, 2005, 29, 181-189.	1.0	159
43	Neural precursor cells induce cell death of high-grade astrocytomas through stimulation of TRPV1. Nature Medicine, 2012, 18, 1232-1238.	15.2	159
44	Properties of GABA and glutamate responses in identified glial cells of the mouse hippocampal slice. Hippocampus, 1994, 4, 19-35.	0.9	154
45	Loss of CX3CR1 increases accumulation of inflammatory monocytes and promotes gliomagenesis. Oncotarget, 2015, 6, 15077-15094.	0.8	154
46	Activation of serotonin receptors promotes microglial injury-induced motility but attenuates phagocytic activity. Brain, Behavior, and Immunity, 2012, 26, 419-428.	2.0	153
47	Bergmann glial cells form distinct morphological structures to interact with cerebellar neurons. Journal of Neuroscience Research, 2002, 68, 138-149.	1.3	150
48	Electrophysiological properties of microglial cells in normal and pathologic rat brain slices. European Journal of Neuroscience, 2000, 12, 2049-2058.	1.2	139
49	Synaptic transmission onto hippocampal glial cells with hGFAP promoter activity. Journal of Cell Science, 2005, 118, 3791-3803.	1.2	139
50	Mechanisms of C5a and C3a Complement Fragment-Induced [Ca²⁺]_iSignaling in Mouse Microglia. Journal of Neuroscience, 1997, 17, 615-624.	1.7	138
51	Secondary Lymphoid Tissue Chemokine (CCL21) Activates CXCR3 to Trigger a Clâ˜ Current and Chemotaxis in Murine Microglia. Journal of Immunology, 2002, 168, 3221-3226.	0.4	138
52	Activity-dependent ATP-waves in the Mouse Neocortex are Independent from Astrocytic Calcium Waves. Cerebral Cortex, 2006, 16, 237-246.	1.6	131
53	Glioma-derived versican promotes tumor expansion via glioma-associated microglial/macrophages Toll-like receptor 2 signaling. Neuro-Oncology, 2015, 17, 200-210.	0.6	131
54	Cien AÃ±os de MicroglÃa: Milestones in a Century of Microglial Research. Trends in Neurosciences, 2019, 42, 778-792.	4.2	131

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55	Enriched Monolayer Precursor Cell Cultures from Micro-Dissected Adult Mouse Dentate Gyrus Yield Functional Granule Cell-Like Neurons. PLoS ONE, 2007, 2, e388.	1.1	127
56	The invasion promoting effect of microglia on glioblastoma cells is inhibited by cyclosporin A. Brain, 2007, 130, 476-489.	3.7	124
57	Comprehensive gene expression meta-analysis identifies signature genes that distinguish microglia from peripheral monocytes/macrophages in health and glioma. Acta Neuropathologica Communications, 2019, 7, 20.	2.4	124
58	Oligodendrocytes in mouse corpus callosum are coupled via gap junction channels formed by connexin47 and connexin32. Glia, 2010, 58, 1104-1117.	2.5	122
59	Oligodendrocytes and Microglia Are Selectively Vulnerable to Combined Hypoxia and Hypoglycemia Injury in Vitro. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 521-530.	2.4	121
60	Properties of Doublecortin-(DCX)-Expressing Cells in the Piriform Cortex Compared to the Neurogenic Dentate Gyrus of Adult Mice. PLoS ONE, 2011, 6, e25760.	1.1	121
61	Membrane currents and cytoplasmic sodium transients generated by glutamate transport in Bergmann glial cells. Pflugers Archiv European Journal of Physiology, 2007, 454, 245-252.	1.3	120
62	Bradykinin-Induced Microglial Migration Mediated by B₁-Bradykinin Receptors Depends on Ca²⁺Influx via Reverse-Mode Activity of the Na⁺/Ca²⁺Exchanger. Journal of Neuroscience, 2007, 27, 13065-13073.	1.7	119
63	AN2/NG2 protein-expressing glial progenitor cells in the murine CNS: Isolation, differentiation, and association with radial glia. Glia, 2001, 34, 213-228.	2.5	118
64	Activation of mouse microglial cells affects P2 receptor signaling. Brain Research, 2000, 853, 49-59.	1.1	116
65	Neuroprotective role of bradykinin because of the attenuation of pro-inflammatory cytokine release from activated microglia. Journal of Neurochemistry, 2007, 101, 397-410.	2.1	116
66	Toll-like receptor 2 mediates microglia/brain macrophage MT1-MMP expression and glioma expansion. Neuro-Oncology, 2013, 15, 1457-1468.	0.6	115
67	Panglial Gap Junctional Communication is Essential for Maintenance of Myelin in the CNS. Journal of Neuroscience, 2012, 32, 7499-7518.	1.7	113
68	Interferon-Î³ differentially modulates the release of cytokines and chemokines in lipopolysaccharide- and pneumococcal cell wall-stimulated mouse microglia and macrophages. European Journal of Neuroscience, 2002, 16, 2113-2122.	1.2	111
69	Oligodendrocytes in the Mouse Corpus Callosum Maintain Axonal Function by Delivery of Glucose. Cell Reports, 2018, 22, 2383-2394.	2.9	111
70	Characterization of Panglial Gap Junction Networks in the Thalamus, Neocortex, and Hippocampus Reveals a Unique Population of Glial Cells. Cerebral Cortex, 2015, 25, 3420-3433.	1.6	108
71	Distinct Populations of Identified Glial Cells in the Developing Rat Spinal Cord Slice: Ion Channel Properties and Cell Morphology. European Journal of Neuroscience, 1995, 7, 129-142.	1.2	102
72	Pharmacological â€œcrossâ€inhibitionâ€•of connexin hemichannels and swelling activated anion channels. Glia, 2009, 57, 258-269.	2.5	102

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73	The potassium channels Kv1.5 and Kv1.3 modulate distinct functions of microglia. Molecular and Cellular Neurosciences, 2006, 33, 401-411.	1.0	100
74	C1q, the recognition subcomponent of the classical pathway of complement, drives microglial activation. Journal of Neuroscience Research, 2009, 87, 644-652.	1.3	97
75	GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. Acta Neuropathologica, 2013, 125, 609-620.	3.9	97
76	Electrical coupling among Bergmann glial cells and its modulation by glutamate receptor activation. , 1996, 17, 274-284.		95
77	Mouse Brain Microglia Express Interleukin-15 and Its Multimeric Receptor Complex Functionally Coupled to Janus Kinase Activity. Journal of Biological Chemistry, 1997, 272, 28853-28860.	1.6	95
78	Microglial Activation by Components of Gram-Positive and -Negative Bacteria: Distinct and Common Routes to the Induction of Ion Channels and Cytokines. Journal of Neuropathology and Experimental Neurology, 1999, 58, 1078-1089.	0.9	95
79	Gliomaâ€associated microglial MMP9 expression is upregulated by TLR2 signaling and sensitive to minocycline. International Journal of Cancer, 2014, 135, 2569-2578.	2.3	95
80	The ectonucleotidase cd39/ENTPDase1 modulates purinergicâ€mediated microglial migration. Glia, 2008, 56, 331-341.	2.5	94
81	Bone morphogenetic protein-7 release from endogenous neural precursor cells suppresses the tumourigenicity of stem-like glioblastoma cells. Brain, 2010, 133, 1961-1972.	3.7	90
82	Human glioblastomaâ€associated microglia/monocytes express a distinct RNA profile compared to human control and murine samples. Glia, 2016, 64, 1416-1436.	2.5	90
83	NMDA-activated currents in Bergmann glial cells. NeuroReport, 1993, 4, 671-674.	0.6	89
84	Glycine- and GABA-activated Currents in Identified Glial Cells of the Developing Rat Spinal Cord Slice. European Journal of Neuroscience, 1995, 7, 1188-1198.	1.2	86
85	Distinguishing features of microglia- and monocyte-derived macrophages after stroke. Acta Neuropathologica, 2018, 135, 551-568.	3.9	86
86	Tollâ€like receptor activation reveals developmental reorganization and unmasks responder subsets of microglia. Glia, 2012, 60, 1930-1943.	2.5	85
87	Epidermal Growth Factor is a Motility Factor for Microglial CellsIn Vitro:Evidence for EGF Receptor Expression. European Journal of Neuroscience, 1997, 9, 1690-1698.	1.2	83
88	Microglial phagocytosis is modulated by pro-and anti-inflammatory cytokines. NeuroReport, 1997, 8, 3851-3856.	0.6	80
89	The principal neurons of the medial nucleus of the trapezoid body and NG2+ glial cells receive coordinated excitatory synaptic input. Journal of General Physiology, 2009, 134, 115-127.	0.9	78
90	Human Mesenchymal glioblastomas are characterized by an increased immune cell presence compared to Proneural and Classical tumors. OncoImmunology, 2019, 8, e1655360.	2.1	76

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91	A1 Adenosine Receptors in Microglia Control Glioblastoma-Host Interaction. Cancer Research, 2006, 66, 8550-8557.	0.4	75
92	The protein tyrosine kinase inhibitor AG126 prevents the massive microglial cytokine induction by pneumococcal cell walls. European Journal of Immunology, 2001, 31, 2104-2115.	1.6	74
93	Astrocytes Discriminate and Selectively Respond to the Activity of a Subpopulation of Neurons within the Barrel Cortex. Cerebral Cortex, 2008, 18, 2450-2459.	1.6	73
94	Biochemical analysis of proteasomes from mouse microglia: Induction of immunoproteasomes by interferon-? and lipopolysaccharide. Glia, 2000, 29, 355-365.	2.5	71
95	Astrocyte Function is Modified by Alzheimer's Disease-like Pathology in Aged Mice. Journal of Alzheimer's Disease, 2009, 18, 177-189.	1.2	71
96	Vascular Signal Transducer and Activator of Transcription-3 Promotes Angiogenesis and Neuroplasticity Long-Term After Stroke. Circulation, 2015, 131, 1772-1782.	1.6	71
97	Nitric Oxide Signals Parallel Fiber Activity to Bergmann Glial Cells in the Mouse Cerebellar Slice. Molecular and Cellular Neurosciences, 2001, 18, 664-670.	1.0	69
98	Distinct Physiologic Properties of Microglia and Blood-Borne Cells in Rat Brain Slices After Permanent Middle Cerebral Artery Occlusion. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 1537-1549.	2.4	65
99	Expression of Glycine Receptor Subunits in Glial Cells of the Rat Spinal Cord. Journal of Neurochemistry, 1996, 66, 1383-1390.	2.1	65
100	The brain's garbage men. Nature, 2007, 446, 987-989.	13.7	65
101	Pathologic and Phenotypic Alterations in a Mouse Expressing a Connexin47 Missense Mutation That Causes Pelizaeus-Merzbacherâ€“Like Disease in Humans. PLoS Genetics, 2011, 7, e1002146.	1.5	65
102	let-7 MicroRNAs Regulate Microglial Function and Suppress Glioma Growth through Toll-Like Receptor 7. Cell Reports, 2019, 29, 3460-3471.e7.	2.9	64
103	The subpopulation of microglia sensitive to neurotransmitters/neurohormones is modulated by stimulation with LPS, interferon-Î³, and IL-4. Glia, 2014, 62, 667-679.	2.5	60
104	Altered microglial phagocytosis in GPR34â€deficient mice. Glia, 2015, 63, 206-215.	2.5	60
105	Glioma Stem Cells but Not Bulk Glioma Cells Upregulate IL-6 Secretion in Microglia/Brain Macrophages via Toll-like Receptor 4 Signaling. Journal of Neuropathology and Experimental Neurology, 2016, 75, 429-440.	0.9	60
106	Action Potential-generating Cells in Human Glioblastomas. Journal of Neuropathology and Experimental Neurology, 1997, 56, 243-254.	0.9	59
107	Transmitter- and hormone-activated Ca2+ responses in adult microglia/brain macrophages in situ recorded after viral transduction of a recombinant Ca2+ sensor. Cell Calcium, 2011, 49, 365-375.	1.1	59
108	Dye coupling between spinal cord oligodendrocytes: Differences in coupling efficiency between gray and white matter. , 1998, 24, 108-120.		57

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109	The adenosine generating enzymes CD39/CD73 control microglial processes ramification in the mouse brain. PLoS ONE, 2017, 12, e0175012.	1.1	57
110	Store-operated Ca2+ entry in astrocytes: Different spatial arrangement of endoplasmic reticulum explains functional diversity in vitro and in situ. Cell Calcium, 2008, 43, 591-601.	1.1	53
111	The subpopulation of microglia expressing functional muscarinic acetylcholine receptors expands in stroke and Alzheimerâ€™s disease. Brain Structure and Function, 2016, 221, 1157-1172.	1.2	51
112	The Microglia-activating Potential of Thrombin. Journal of Biological Chemistry, 2004, 279, 51880-51887.	1.6	50
113	GABAA receptor-expressing astrocytes in the supraoptic nucleus lack glutamate uptake and receptor currents. Glia, 2003, 44, 102-110.	2.5	48
114	The Antitumorigenic Response of Neural Precursors Depends on Subventricular Proliferation and Age. Stem Cells, 2008, 26, 2945-2954.	1.4	47
115	Intrathecal heat shock protein 60 mediates neurodegeneration and demyelination in the CNS through a TLR4- and MyD88-dependent pathway. Molecular Neurodegeneration, 2015, 10, 5.	4.4	47
116	Bergmann glial cells in situ express endothelinB receptors linked to cytoplasmic calcium signals. Cell Calcium, 1997, 21, 409-419.	1.1	46
117	Modulation of Fate Determinants Olig2 and Pax6 in Resident Glia Evokes Spiking Neuroblasts in a Model of Mild Brain Ischemia. Stroke, 2010, 41, 2944-2949.	1.0	46
118	An Î±5Î²1 integrin inhibitor attenuates glioma growth. Molecular and Cellular Neurosciences, 2008, 39, 579-585.	1.0	44
119	Changes in phagocytosis and potassium channel activity in microglia of 5xFAD mice indicate alterations in purinergic signaling in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2017, 58, 41-53.	1.5	44
120	Nestin-Expressing Cells Divide and Adopt a Complex Electrophysiologic Phenotype after Transient Brain Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1613-1624.	2.4	42
121	Î²-adrenergic receptor stimulation selectively inhibits IL-12p40 release in microglia11Published on the World Wide Web on 30 March 2001.. Brain Research, 2001, 899, 264-270.	1.1	41
122	Actin dynamics shape microglia effector functions. Brain Structure and Function, 2016, 221, 2717-2734.	1.2	39
123	Neuroinflammatory alterations in trait anxiety: modulatory effects of minocycline. Translational Psychiatry, 2020, 10, 256.	2.4	39
124	NTPDase1 activity attenuates microglial phagocytosis. Purinergic Signalling, 2013, 9, 199-205.	1.1	38
125	Temperature and nitric oxide control spontaneous calcium transients in astrocytes. Cell Calcium, 2008, 43, 285-295.	1.1	37
126	Experimental Cortical Spreading Depression Induces NMDA Receptor Dependent Potassium Currents in Microglia. Journal of Neuroscience, 2016, 36, 6165-6174.	1.7	37

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127	Impact of Actin Filament Stabilization on Adult Hippocampal and Olfactory Bulb Neurogenesis. Journal of Neuroscience, 2010, 30, 3419-3431.	1.7	36
128	Tenascin C regulates multiple microglial functions involving TLR4 signaling and HDAC1. Brain, Behavior, and Immunity, 2019, 81, 470-483.	2.0	36
129	A Novel Glycine Receptor Î² Subunit Splice Variant Predicts an Unorthodox Transmembrane Topology. Journal of Biological Chemistry, 2007, 282, 2798-2807.	1.6	35
130	Endothelin-induced calcium signaling in cultured mouse microglial cells is mediated through ETB receptors. NeuroReport, 1997, 8, 2127-2131.	0.6	34
131	Loss of host-derived osteopontin creates a glioblastoma-promoting microenvironment. Neuro-Oncology, 2018, 20, 355-366.	0.6	32
132	GABAergic activities enhance macrophage inflammatory proteinâ€1Î± release from microglia (brain) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	31
133	Triggering the brain's pathology sensor. Nature Neuroscience, 2006, 9, 1463-1464.	7.1	30
134	Microglia sense neuronal activity via GABA in the early postnatal hippocampus. Cell Reports, 2021, 37, 110128.	2.9	30
135	Regionally Distinct Regulation of Astroglial Neurotransmitter Receptors by Fibroblast Growth Factor-2. Molecular and Cellular Neurosciences, 2000, 16, 42-58.	1.0	29
136	Membraneâ€type 1 metalloproteinase is upregulated in microglia/brain macrophages in neurodegenerative and neuroinflammatory diseases. Journal of Neuroscience Research, 2014, 92, 275-286.	1.3	29
137	Tumour-derived CSF2/granulocyte macrophage colony stimulating factor controls myeloid cell accumulation and progression of gliomas. British Journal of Cancer, 2020, 123, 438-448.	2.9	28
138	GABAA-receptor expression in glioma cells is triggered by contact with neuronal cells. European Journal of Neuroscience, 2001, 14, 1294-1302.	1.2	27
139	Spontaneous Ca 2+ transients in mouse microglia. Cell Calcium, 2016, 60, 396-406.	1.1	27
140	TLR2 controls random motility, while TLR7 regulates chemotaxis of microglial cells via distinct pathways. Brain, Behavior, and Immunity, 2016, 58, 338-347.	2.0	27
141	Astrocytes and oligodendrocytes in the thalamus jointly maintain synaptic activity by supplying metabolites. Cell Reports, 2021, 34, 108642.	2.9	27
142	Activation of Toll-like receptor 5 in microglia modulates their function and triggers neuronal injury. Acta Neuropathologica Communications, 2020, 8, 159.	2.4	26
143	Satellite microglia show spontaneous electrical activity that is uncorrelated with activity of the attached neuron. European Journal of Neuroscience, 2016, 43, 1523-1534.	1.2	25
144	Glioma-associated microglia and macrophages/monocytes display distinct electrophysiological properties and do not communicate via gap junctions. Neuroscience Letters, 2014, 583, 130-135.	1.0	23

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145	Synergistic Toll-like Receptor 3/9 Signaling Affects Properties and Impairs Glioma-Promoting Activity of Microglia. Journal of Neuroscience, 2020, 40, 6428-6443.	1.7	23
146	Functional importance of inositolâ€1,4,5â€triphosphateâ€induced intracellular Ca²⁺ mobilization in galaninâ€induced microglial migration. Journal of Neurochemistry, 2011, 117, 61-70.	2.1	21
147	The VGF-derived Peptide TLQP21 Impairs Purinergic Control of Chemotaxis and Phagocytosis in Mouse Microglia. Journal of Neuroscience, 2020, 40, 3320-3331.	1.7	20
148	The tyrosine kinase inhibitor AG126 restores receptor signaling and blocks release functions in activated microglia (brain macrophages) by preventing a chronic rise in the intracellular calcium level. Journal of Neurochemistry, 2004, 90, 513-525.	2.1	18
149	Astrocytic Calcium Waves Signal Brain Injury to Neural Stem andÂProgenitorÂCells. Stem Cell Reports, 2017, 8, 701-714.	2.3	18
150	Microglia/macrophage-derived human CCL18 promotes glioma progression via CCR8-ACP5 axis analyzed in humanized slice model. Cell Reports, 2022, 39, 110670.	2.9	18
151	Intracellular glycine receptor function facilitates glioma formation in vivo. Journal of Cell Science, 2014, 127, 3687-98.	1.2	17
152	Mild brain ischemia induces unique physiological properties in striatal astrocytes. Glia, 2008, 56, 925-934.	2.5	16
153	Barreloid Borders and Neuronal Activity Shape Panglial Gap Junction-Coupled Networks in the Mouse Thalamus. Cerebral Cortex, 2016, 28, 213-222.	1.6	16
154	O-Vanillin Attenuates the TLR2 Mediated Tumor-Promoting Phenotype of Microglia. International Journal of Molecular Sciences, 2020, 21, 2959.	1.8	15
155	Deletion of muscarinic acetylcholine receptor 3 in microglia impacts brain ischemic injury. Brain, Behavior, and Immunity, 2021, 91, 89-104.	2.0	13
156	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue. , 2001, 33, 72.		12
157	Histamine triggers microglial responses indirectly via astrocytes and purinergic signaling. Glia, 2021, 69, 2291-2304.	2.5	11
158	Neurofibromatosis 1 - Mutant microglia exhibit sexually-dimorphic cyclic AMP-dependent purinergic defects. Neurobiology of Disease, 2020, 144, 105030.	2.1	10
159	Hypoxia reverses dibutyrylâ€cAMPâ€induced stellation of cultured astrocytes via activation of the endothelin system. FASEB Journal, 2001, 15, 1227-1229.	0.2	9
160	Decreased demand for olfactory periglomerular cells impacts on neural precursor cell viability in the rostral migratory stream. Scientific Reports, 2016, 6, 32203.	1.6	9
161	Glial cell lineâ€derived neurotrophic factor increases matrix metallopeptidase 9 and 14 expression in microglia and promotes microgliaâ€mediated glioma progression. Journal of Neuroscience Research, 2021, 99, 1048-1063.	1.3	9
162	ERK1 as a Therapeutic Target for Dendritic Cell Vaccination against High-Grade Gliomas. Molecular Cancer Therapeutics, 2016, 15, 1975-1987.	1.9	7

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163	Down-regulation of Aquaporin-1 mediates a microglial phenotype switch affecting glioma growth. Experimental Cell Research, 2020, 396, 112323.	1.2	7
164	Glial Cells. , 2013, , 475-506.		5
165	UNC93B1 Is Widely Expressed in the Murine CNS and Is Required for Neuroinflammation and Neuronal Injury Induced by MicroRNA let-7b. Frontiers in Immunology, 2021, 12, 715774.	2.2	4
166	Building Bridges through Science. Neuron, 2017, 96, 730-735.	3.8	2
167	Dye coupling between spinal cord oligodendrocytes: Differences in coupling efficiency between gray and white matter. , 1998, 24, 108.		2
168	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue. , 2001, 33, 72.		2
169	Microglia form satellites with different neuronal subtypes in the adult murine central nervous system. Journal of Neuroscience Research, 2022, 100, 1105-1122.	1.3	2
170	Glial Cells: Neuroglia. , 2016, , 547-578.		1
171	Studying Human Glial Cells: Where Are We Today?. Glia, 2020, 68, 683-684.	2.5	1
172	Graduiertenkolleg 1258 Der Einfluss von EntzÃ¼ndung auf die Funktion des Nervensystems. E-Neuroforum, 2006, 12, 243-245.	0.2	0
173	Two types of astrocytic cell in the adult striatum. , 2008, , .		0
174	FENS Forum 2018 in Berlin. E-Neuroforum, 2016, 22, 109-109.	0.2	0
175	Introduction: Special Issue in Honor of Bruce Ransom. Neurochemical Research, 2017, 42, 2437-2441.	1.6	0