

# Helmut Kettenmann

## List of Publications by Citations

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171  
papers

22,605  
citations

76  
h-index

150  
g-index

178  
ext. papers

26,224  
ext. citations

8.2  
avg. IF

7.19  
L-index

#	Paper	IF	Citations
171	Microglia: active sensor and versatile effector cells in the normal and pathologic brain. <i>Nature Neuroscience</i> , <b>2007</b> , 10, 1387-94	25.5	2624
170	Physiology of microglia. <i>Physiological Reviews</i> , <b>2011</b> , 91, 461-553	47.9	2342
169	Microglia: new roles for the synaptic stripper. <i>Neuron</i> , <b>2013</b> , 77, 10-8	13.9	763
168	The role of microglia and macrophages in glioma maintenance and progression. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 20-7	25.5	743
167	Microglia in Physiology and Disease. <i>Annual Review of Physiology</i> , <b>2017</b> , 79, 619-643	23.1	635
166	Glial calcium: homeostasis and signaling function. <i>Physiological Reviews</i> , <b>1998</b> , 78, 99-141	47.9	580
165	Microdomains for neuron-glia interaction: parallel fiber signaling to Bergmann glial cells. <i>Nature Neuroscience</i> , <b>1999</b> , 2, 139-43	25.5	541
164	Neurotransmitter receptors on microglia. <i>Trends in Neurosciences</i> , <b>2007</b> , 30, 527-35	13.3	474
163	Calcium signalling in glial cells. <i>Trends in Neurosciences</i> , <b>1996</b> , 19, 346-52	13.3	429
162	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue. <i>Glia</i> , <b>2001</b> , 33, 72-86	9	424
161	Segregated expression of AMPA-type glutamate receptors and glutamate transporters defines distinct astrocyte populations in the mouse hippocampus. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 1750-8	6.6	383
160	Subpopulation of nestin-expressing progenitor cells in the adult murine hippocampus shows electrophysiological and morphological characteristics of astrocytes. <i>Molecular and Cellular Neurosciences</i> , <b>2003</b> , 23, 373-82	4.8	375
159	The brain tumor microenvironment. <i>Glia</i> , <b>2011</b> , 59, 1169-80	9	355
158	Functional impairment of microglia coincides with Beta-amyloid deposition in mice with Alzheimer-like pathology. <i>PLoS ONE</i> , <b>2013</b> , 8, e60921	3.7	304
157	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , <b>2021</b> , 24, 312-335	35	298
156	Heterogeneity in astrocyte morphology and physiology. <i>Brain Research Reviews</i> , <b>2010</b> , 63, 2-10		275
155	Type-2 cells as link between glial and neuronal lineage in adult hippocampal neurogenesis. <i>Glia</i> , <b>2006</b> , 54, 805-14	9	268

154	The brain tumor microenvironment. <i>Glia</i> , <b>2012</b> , 60, 502-14	9	261
153	Glioma-associated microglia/macrophages display an expression profile different from M1 and M2 polarization and highly express Gpnmb and Spp1. <i>PLoS ONE</i> , <b>2015</b> , 10, e0116644	3.7	227
152	Hydrogen peroxide and ADP-ribose induce TRPM2-mediated calcium influx and cation currents in microglia. <i>American Journal of Physiology - Cell Physiology</i> , <b>2004</b> , 286, C129-37	5.4	221
151	Neuroglia: the 150 years after. <i>Trends in Neurosciences</i> , <b>2008</b> , 31, 653-9	13.3	204
150	Microglia stimulate the invasiveness of glioma cells by increasing the activity of metalloprotease-2. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2005</b> , 64, 754-62	3.1	204
149	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. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 4410-9	6.6	201
148	CXCR3-dependent microglial recruitment is essential for dendrite loss after brain lesion. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 8500-9	6.6	196
147	Astrocyte Ca <sup>2+</sup> waves trigger responses in microglial cells in brain slices. <i>FASEB Journal</i> , <b>2002</b> , 16, 255-7	0.9	196
146	Glioblastoma-induced attraction of endogenous neural precursor cells is associated with improved survival. <i>Journal of Neuroscience</i> , <b>2005</b> , 25, 2637-46	6.6	182
145	Dopamine and noradrenaline control distinct functions in rodent microglial cells. <i>Molecular and Cellular Neurosciences</i> , <b>2005</b> , 29, 128-38	4.8	164
144	Different mechanisms promote astrocyte Ca <sup>2+</sup> waves and spreading depression in the mouse neocortex. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 9888-96	6.6	164
143	Purinergic receptors on microglial cells: functional expression in acute brain slices and modulation of microglial activation in vitro. <i>European Journal of Neuroscience</i> , <b>2003</b> , 17, 2267-76	3.5	164
142	Astrocytes of the mouse neocortex express functional N-methyl-D-aspartate receptors. <i>FASEB Journal</i> , <b>2001</b> , 15, 1270-2	0.9	163
141	Transcriptional and Translational Differences of Microglia from Male and Female Brains. <i>Cell Reports</i> , <b>2018</b> , 24, 2773-2783.e6	10.6	163
140	Electrical coupling between astrocytes and between oligodendrocytes studied in mammalian cell cultures. <i>Glia</i> , <b>1988</b> , 1, 64-73	9	158
139	Phagocytic clearance of apoptotic neurons by Microglia/Brain macrophages in vitro: involvement of lectin-, integrin-, and phosphatidylserine-mediated recognition. <i>Journal of Neurochemistry</i> , <b>2000</b> , 75, 1060-70	6	149
138	How does intracellular Ca <sup>2+</sup> oscillate: by chance or by the clock?. <i>Biophysical Journal</i> , <b>2008</b> , 94, 2404-11	2.9	146
137	A subpopulation of precursor cells in the mouse dentate gyrus receives synaptic GABAergic input. <i>Molecular and Cellular Neurosciences</i> , <b>2005</b> , 29, 181-9	4.8	145

136	Physiology of microglial cells. <i>Brain Research Reviews</i> , <b>2005</b> , 48, 133-43		142
135	Functional role of calcium signals for microglial function. <i>Glia</i> , <b>2006</b> , 54, 656-65	9	139
134	Microglia express GABA(B) receptors to modulate interleukin release. <i>Molecular and Cellular Neurosciences</i> , <b>2004</b> , 25, 312-22	4.8	139
133	Bergmann glial cells form distinct morphological structures to interact with cerebellar neurons. <i>Journal of Neuroscience Research</i> , <b>2002</b> , 68, 138-49	4.4	138
132	Properties of GABA and glutamate responses in identified glial cells of the mouse hippocampal slice. <i>Hippocampus</i> , <b>1994</b> , 4, 19-35	3.5	134
131	Mechanisms of C5a and C3a complement fragment-induced [Ca <sup>2+</sup> ] <sub>i</sub> signaling in mouse microglia. <i>Journal of Neuroscience</i> , <b>1997</b> , 17, 615-24	6.6	129
130	Synaptic transmission onto hippocampal glial cells with hGFAP promoter activity. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 3791-803	5.3	129
129	Purinergic signaling and microglia. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2006</b> , 452, 615-21	4.6	128
128	Minocycline rescues decrease in neurogenesis, increase in microglia cytokines and deficits in sensorimotor gating in an animal model of schizophrenia. <i>Brain, Behavior, and Immunity</i> , <b>2014</b> , 38, 175-84	16.6	125
127	Secondary lymphoid tissue chemokine (CCL21) activates CXCR3 to trigger a Cl <sup>-</sup> current and chemotaxis in murine microglia. <i>Journal of Immunology</i> , <b>2002</b> , 168, 3221-6	5.3	125
126	Neural precursor cells induce cell death of high-grade astrocytomas through stimulation of TRPV1. <i>Nature Medicine</i> , <b>2012</b> , 18, 1232-8	50.5	121
125	The "Big-Bang" for modern glial biology: Translation and comments on Pñ del Rñ-Hortega 1919 series of papers on microglia. <i>Glia</i> , <b>2016</b> , 64, 1801-40	9	119
124	Activity-dependent ATP-waves in the mouse neocortex are independent from astrocytic calcium waves. <i>Cerebral Cortex</i> , <b>2006</b> , 16, 237-46	5.1	119
123	Enriched monolayer precursor cell cultures from micro-dissected adult mouse dentate gyrus yield functional granule cell-like neurons. <i>PLoS ONE</i> , <b>2007</b> , 2, e388	3.7	119
122	Loss of CX3CR1 increases accumulation of inflammatory monocytes and promotes gliomagenesis. <i>Oncotarget</i> , <b>2015</b> , 6, 15077-94	3.3	117
121	Electrophysiological properties of microglial cells in normal and pathologic rat brain slices. <i>European Journal of Neuroscience</i> , <b>2000</b> , 12, 2049-58	3.5	116
120	AN2/NG2 protein-expressing glial progenitor cells in the murine CNS: isolation, differentiation, and association with radial glia. <i>Glia</i> , <b>2001</b> , 34, 213-28	9	112
119	Oligodendrocytes and microglia are selectively vulnerable to combined hypoxia and hypoglycemia injury in vitro. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1998</b> , 18, 521-30	7.3	111

118	Activation of mouse microglial cells affects P2 receptor signaling. <i>Brain Research</i> , <b>2000</b> , 853, 49-59	3.7	110
117	Bradykinin-induced microglial migration mediated by B1-bradykinin receptors depends on Ca <sup>2+</sup> influx via reverse-mode activity of the Na <sup>+</sup> /Ca <sup>2+</sup> exchanger. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 13065-73	6.6	107
116	Membrane currents and cytoplasmic sodium transients generated by glutamate transport in Bergmann glial cells. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2007</b> , 454, 245-52	4.6	106
115	Oligodendrocytes in mouse corpus callosum are coupled via gap junction channels formed by connexin47 and connexin32. <i>Glia</i> , <b>2010</b> , 58, 1104-17	9	103
114	The invasion promoting effect of microglia on glioblastoma cells is inhibited by cyclosporin A. <i>Brain</i> , <b>2007</b> , 130, 476-89	11.2	101
113	Neuroprotective role of bradykinin because of the attenuation of pro-inflammatory cytokine release from activated microglia. <i>Journal of Neurochemistry</i> , <b>2007</b> , 101, 397-410	6	100
112	Panglial gap junctional communication is essential for maintenance of myelin in the CNS. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 7499-518	6.6	99
111	Interferon-gamma differentially modulates the release of cytokines and chemokines in lipopolysaccharide- and pneumococcal cell wall-stimulated mouse microglia and macrophages. <i>European Journal of Neuroscience</i> , <b>2002</b> , 16, 2113-22	3.5	99
110	Glioma-derived versican promotes tumor expansion via glioma-associated microglial/macrophages Toll-like receptor 2 signaling. <i>Neuro-Oncology</i> , <b>2015</b> , 17, 200-10	1	98
109	Microglia/Brain Macrophages as Central Drivers of Brain Tumor Pathobiology. <i>Neuron</i> , <b>2019</b> , 104, 442-449	3.9	96
108	Distinct populations of identified glial cells in the developing rat spinal cord slice: ion channel properties and cell morphology. <i>European Journal of Neuroscience</i> , <b>1995</b> , 7, 129-42	3.5	96
107	Properties of doublecortin-(DCX)-expressing cells in the piriform cortex compared to the neurogenic dentate gyrus of adult mice. <i>PLoS ONE</i> , <b>2011</b> , 6, e25760	3.7	95
106	Activation of serotonin receptors promotes microglial injury-induced motility but attenuates phagocytic activity. <i>Brain, Behavior, and Immunity</i> , <b>2012</b> , 26, 419-28	16.6	90
105	Pharmacological "cross-inhibition" of connexin hemichannels and swelling activated anion channels. <i>Glia</i> , <b>2009</b> , 57, 258-69	9	90
104	Electrical coupling among Bergmann glial cells and its modulation by glutamate receptor activation. <i>Glia</i> , <b>1996</b> , 17, 274-84	9	86
103	Characterization of Panglial Gap Junction Networks in the Thalamus, Neocortex, and Hippocampus Reveals a Unique Population of Glial Cells. <i>Cerebral Cortex</i> , <b>2015</b> , 25, 3420-33	5.1	84
102	Mouse brain microglia express interleukin-15 and its multimeric receptor complex functionally coupled to Janus kinase activity. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 28853-60	5.4	84
101	The ectonucleotidase cd39/ENTPDase1 modulates purinergic-mediated microglial migration. <i>Glia</i> , <b>2008</b> , 56, 331-41	9	84

100	Microglial activation by components of gram-positive and -negative bacteria: distinct and common routes to the induction of ion channels and cytokines. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>1999</b> , 58, 1078-89	3.1	83
99	NMDA-activated currents in Bergmann glial cells. <i>NeuroReport</i> , <b>1993</b> , 4, 671-4	1.7	83
98	Bone morphogenetic protein-7 release from endogenous neural precursor cells suppresses the tumourigenicity of stem-like glioblastoma cells. <i>Brain</i> , <b>2010</b> , 133, 1961-72	11.2	82
97	Toll-like receptor activation reveals developmental reorganization and unmasks responder subsets of microglia. <i>Glia</i> , <b>2012</b> , 60, 1930-43	9	79
96	Glycine- and GABA-activated currents in identified glial cells of the developing rat spinal cord slice. <i>European Journal of Neuroscience</i> , <b>1995</b> , 7, 1188-98	3.5	78
95	Glioma-associated microglial MMP9 expression is upregulated by TLR2 signaling and sensitive to minocycline. <i>International Journal of Cancer</i> , <b>2014</b> , 135, 2569-78	7.5	76
94	Toll-like receptor 2 mediates microglia/brain macrophage MT1-MMP expression and glioma expansion. <i>Neuro-Oncology</i> , <b>2013</b> , 15, 1457-68	1	76
93	Comprehensive gene expression meta-analysis identifies signature genes that distinguish microglia from peripheral monocytes/macrophages in health and glioma. <i>Acta Neuropathologica Communications</i> , <b>2019</b> , 7, 20	7.3	75
92	C1q, the recognition subcomponent of the classical pathway of complement, drives microglial activation. <i>Journal of Neuroscience Research</i> , <b>2009</b> , 87, 644-52	4.4	75
91	Epidermal growth factor is a motility factor for microglial cells in vitro: evidence for EGF receptor expression. <i>European Journal of Neuroscience</i> , <b>1997</b> , 9, 1690-8	3.5	75
90	The potassium channels Kv1.5 and Kv1.3 modulate distinct functions of microglia. <i>Molecular and Cellular Neurosciences</i> , <b>2006</b> , 33, 401-11	4.8	75
89	GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. <i>Acta Neuropathologica</i> , <b>2013</b> , 125, 609-20	14.3	71
88	Human glioblastoma-associated microglia/monocytes express a distinct RNA profile compared to human control and murine samples. <i>Glia</i> , <b>2016</b> , 64, 1416-36	9	71
87	The protein tyrosine kinase inhibitor AG126 prevents the massive microglial cytokine induction by pneumococcal cell walls. <i>European Journal of Immunology</i> , <b>2001</b> , 31, 2104-15	6.1	69
86	Microglial phagocytosis is modulated by pro- and anti-inflammatory cytokines. <i>NeuroReport</i> , <b>1997</b> , 8, 3851-6	1.7	66
85	Oligodendrocytes in the Mouse Corpus Callosum Maintain Axonal Function by Delivery of Glucose. <i>Cell Reports</i> , <b>2018</b> , 22, 2383-2394	10.6	64
84	Biochemical analysis of proteasomes from mouse microglia: Induction of immunoproteasomes by interferon- $\gamma$ and lipopolysaccharide. <i>Glia</i> , <b>2000</b> , 29, 355-365	9	64
83	Nitric oxide signals parallel fiber activity to Bergmann glial cells in the mouse cerebellar slice. <i>Molecular and Cellular Neurosciences</i> , <b>2001</b> , 18, 664-70	4.8	63

82	Cien Años de Microglía: Milestones in a Century of Microglial Research. <i>Trends in Neurosciences</i> , <b>2019</b> , 42, 778-792	13.3	61
81	Pathologic and phenotypic alterations in a mouse expressing a connexin47 missense mutation that causes Pelizaeus-Merzbacher-like disease in humans. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002146	6	61
80	Astrocyte function is modified by Alzheimer's disease-like pathology in aged mice. <i>Journal of Alzheimer's Disease</i> , <b>2009</b> , 18, 177-89	4.3	60
79	A1 adenosine receptors in microglia control glioblastoma-host interaction. <i>Cancer Research</i> , <b>2006</b> , 66, 8550-7	10.1	60
78	The principal neurons of the medial nucleus of the trapezoid body and NG2(+) glial cells receive coordinated excitatory synaptic input. <i>Journal of General Physiology</i> , <b>2009</b> , 134, 115-27	3.4	59
77	Astrocytes discriminate and selectively respond to the activity of a subpopulation of neurons within the barrel cortex. <i>Cerebral Cortex</i> , <b>2008</b> , 18, 2450-9	5.1	59
76	Distinct physiologic properties of microglia and blood-borne cells in rat brain slices after permanent middle cerebral artery occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2000</b> , 20, 1537-49	7.3	57
75	Distinguishing features of microglia- and monocyte-derived macrophages after stroke. <i>Acta Neuropathologica</i> , <b>2018</b> , 135, 551-568	14.3	54
74	The subpopulation of microglia sensitive to neurotransmitters/neurohormones is modulated by stimulation with LPS, interferon- $\gamma$ and IL-4. <i>Glia</i> , <b>2014</b> , 62, 667-79	9	50
73	Action potential-generating cells in human glioblastomas. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>1997</b> , 56, 243-54	3.1	49
72	Expression of glycine receptor subunits in glial cells of the rat spinal cord. <i>Journal of Neurochemistry</i> , <b>1996</b> , 66, 1383-90	6	49
71	Dye coupling between spinal cord oligodendrocytes: Differences in coupling efficiency between gray and white matter <b>1998</b> , 24, 108-120		48
70	Vascular signal transducer and activator of transcription-3 promotes angiogenesis and neuroplasticity long-term after stroke. <i>Circulation</i> , <b>2015</b> , 131, 1772-82	16.7	46
69	Altered microglial phagocytosis in GPR34-deficient mice. <i>Glia</i> , <b>2015</b> , 63, 206-15	9	46
68	Transmitter- and hormone-activated Ca(2+) responses in adult microglia/brain macrophages in situ recorded after viral transduction of a recombinant Ca(2+) sensor. <i>Cell Calcium</i> , <b>2011</b> , 49, 365-75	4	46
67	Glioma Stem Cells but Not Bulk Glioma Cells Upregulate IL-6 Secretion in Microglia/Brain Macrophages via Toll-like Receptor 4 Signaling. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2016</b> , 75, 429-40	3.1	46
66	The microglia-activating potential of thrombin: the protease is not involved in the induction of proinflammatory cytokines and chemokines. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 51880-7	5.4	45
65	Store-operated Ca <sup>2+</sup> entry in astrocytes: different spatial arrangement of endoplasmic reticulum explains functional diversity in vitro and in situ. <i>Cell Calcium</i> , <b>2008</b> , 43, 591-601	4	44

64	Bergmann glial cells in situ express endothelinB receptors linked to cytoplasmic calcium signals. <i>Cell Calcium</i> , <b>1997</b> , 21, 409-19	4	43
63	The antitumorogenic response of neural precursors depends on subventricular proliferation and age. <i>Stem Cells</i> , <b>2008</b> , 26, 2945-54	5.8	43
62	GABAA receptor-expressing astrocytes in the supraoptic nucleus lack glutamate uptake and receptor currents. <i>Glia</i> , <b>2003</b> , 44, 102-10	9	42
61	An alpha5beta1 integrin inhibitor attenuates glioma growth. <i>Molecular and Cellular Neurosciences</i> , <b>2008</b> , 39, 579-85	4.8	41
60	Nestin-expressing cells divide and adopt a complex electrophysiologic phenotype after transient brain ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2005</b> , 25, 1613-24	7.3	41
59	Human Mesenchymal glioblastomas are characterized by an increased immune cell presence compared to Proneural and Classical tumors. <i>OncolImmunology</i> , <b>2019</b> , 8, e1655360	7.2	40
58	Modulation of fate determinants Olig2 and Pax6 in resident glia evokes spiking neuroblasts in a model of mild brain ischemia. <i>Stroke</i> , <b>2010</b> , 41, 2944-9	6.7	40
57	The subpopulation of microglia expressing functional muscarinic acetylcholine receptors expands in stroke and Alzheimer's disease. <i>Brain Structure and Function</i> , <b>2016</b> , 221, 1157-72	4	39
56	Intrathecal heat shock protein 60 mediates neurodegeneration and demyelination in the CNS through a TLR4- and MyD88-dependent pathway. <i>Molecular Neurodegeneration</i> , <b>2015</b> , 10, 5	19	39
55	beta-adrenergic receptor stimulation selectively inhibits IL-12p40 release in microglia. <i>Brain Research</i> , <b>2001</b> , 899, 264-70	3.7	39
54	The adenosine generating enzymes CD39/CD73 control microglial processes ramification in the mouse brain. <i>PLoS ONE</i> , <b>2017</b> , 12, e0175012	3.7	37
53	let-7 MicroRNAs Regulate Microglial Function and Suppress Glioma Growth through Toll-Like Receptor 7. <i>Cell Reports</i> , <b>2019</b> , 29, 3460-3471.e7	10.6	36
52	Temperature and nitric oxide control spontaneous calcium transients in astrocytes. <i>Cell Calcium</i> , <b>2008</b> , 43, 285-95	4	33
51	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. <i>Neurobiology of Aging</i> , <b>2017</b> , 58, 41-53	5.6	32
50	NTPDase1 activity attenuates microglial phagocytosis. <i>Purinergic Signalling</i> , <b>2013</b> , 9, 199-205	3.8	31
49	Impact of actin filament stabilization on adult hippocampal and olfactory bulb neurogenesis. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 3419-31	6.6	30
48	Endothelin-induced calcium signaling in cultured mouse microglial cells is mediated through ETB receptors. <i>NeuroReport</i> , <b>1997</b> , 8, 2127-31	1.7	30
47	Actin dynamics shape microglia effector functions. <i>Brain Structure and Function</i> , <b>2016</b> , 221, 2717-34	4	29



46	Experimental Cortical Spreading Depression Induces NMDA Receptor Dependent Potassium Currents in Microglia. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 6165-74	6.6	27
45	Regionally distinct regulation of astroglial neurotransmitter receptors by fibroblast growth factor-2. <i>Molecular and Cellular Neurosciences</i> , <b>2000</b> , 16, 42-58	4.8	27
44	A novel glycine receptor beta subunit splice variant predicts an unorthodox transmembrane topology. Assembly into heteromeric receptor complexes. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 2798-807	5.4	26
43	Membrane-type 1 metalloproteinase is upregulated in microglia/brain macrophages in neurodegenerative and neuroinflammatory diseases. <i>Journal of Neuroscience Research</i> , <b>2014</b> , 92, 275-86	4.4	24
42	Triggering the brain pathology sensor. <i>Nature Neuroscience</i> , <b>2006</b> , 9, 1463-4	25.5	24
41	GABAergic activities enhance macrophage inflammatory protein-1alpha release from microglia (brain macrophages) in postnatal mouse brain. <i>Journal of Physiology</i> , <b>2009</b> , 587, 753-68	3.9	23
40	GABA(A)-receptor expression in glioma cells is triggered by contact with neuronal cells. <i>European Journal of Neuroscience</i> , <b>2001</b> , 14, 1294-302	3.5	22
39	TLR2 controls random motility, while TLR7 regulates chemotaxis of microglial cells via distinct pathways. <i>Brain, Behavior, and Immunity</i> , <b>2016</b> , 58, 338-347	16.6	21
38	Loss of host-derived osteopontin creates a glioblastoma-promoting microenvironment. <i>Neuro-Oncology</i> , <b>2018</b> , 20, 355-366	1	19
37	Tenascin C regulates multiple microglial functions involving TLR4 signaling and HDAC1. <i>Brain, Behavior, and Immunity</i> , <b>2019</b> , 81, 470-483	16.6	19
36	Glioma-associated microglia and macrophages/monocytes display distinct electrophysiological properties and do not communicate via gap junctions. <i>Neuroscience Letters</i> , <b>2014</b> , 583, 130-5	3.3	19
35	Spontaneous Ca transients in mouse microglia. <i>Cell Calcium</i> , <b>2016</b> , 60, 396-406	4	19
34	Functional importance of inositol-1,4,5-triphosphate-induced intracellular Ca <sup>2+</sup> mobilization in galanin-induced microglial migration. <i>Journal of Neurochemistry</i> , <b>2011</b> , 117, 61-70	6	18
33	Mild brain ischemia induces unique physiological properties in striatal astrocytes. <i>Glia</i> , <b>2008</b> , 56, 925-34	9	16
32	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. <i>Journal of Neurochemistry</i> , <b>2004</b> , 90, 513-25	6	16
31	Satellite microglia show spontaneous electrical activity that is uncorrelated with activity of the attached neuron. <i>European Journal of Neuroscience</i> , <b>2016</b> , 43, 1523-34	3.5	15
30	Barreloid Borders and Neuronal Activity Shape Panglial Gap Junction-Coupled Networks in the Mouse Thalamus. <i>Cerebral Cortex</i> , <b>2018</b> , 28, 213-222	5.1	15
29	Neuroinflammatory alterations in trait anxiety: modulatory effects of minocycline. <i>Translational Psychiatry</i> , <b>2020</b> , 10, 256	8.6	13

28	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue <b>2001</b> , 33, 72		12
27	Astrocytic Calcium Waves Signal Brain Injury to Neural Stem and 'Progenitor' Cells. <i>Stem Cell Reports</i> , <b>2017</b> , 8, 701-714	8	11
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