Helmut Kettenmann

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/1536793/helmut-kettenmann-publications-by-year.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

171	22,605	76	150
papers	citations	h-index	g-index
178 ext. papers	26,224 ext. citations	8.2 avg, IF	7.19 L-index

#	Paper	IF	Citations
171	Microglia/macrophage-derived human CCL18 promotes glioma progression via CCR8-ACP5 axis analyzed in humanized slice model <i>Cell Reports</i> , 2022 , 39, 110670	10.6	1
170	Histamine triggers microglial responses indirectly via astrocytes and purinergic signaling. <i>Glia</i> , 2021 , 69, 2291-2304	9	3
169	Deletion of muscarinic acetylcholine receptor 3 in microglia impacts brain ischemic injury. <i>Brain, Behavior, and Immunity</i> , 2021 , 91, 89-104	16.6	4
168	Glial cell line-derived neurotrophic factor increases matrix metallopeptidase 9 and 14 expression in microglia and promotes microglia-mediated glioma progression. <i>Journal of Neuroscience Research</i> , 2021 , 99, 1048-1063	4.4	1
167	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021 , 24, 312	- 3 355	298
166	UNC93B1 Is Widely Expressed in the Murine CNS and Is Required for Neuroinflammation and Neuronal Injury Induced by MicroRNA. <i>Frontiers in Immunology</i> , 2021 , 12, 715774	8.4	0
165	Astrocytes and oligodendrocytes in the thalamus jointly maintain synaptic activity by supplying metabolites. <i>Cell Reports</i> , 2021 , 34, 108642	10.6	8
164	Microglia sense neuronal activity via GABA in the early postnatal hippocampus <i>Cell Reports</i> , 2021 , 37, 110128	10.6	3
163	Tumour-derived CSF2/granulocyte macrophage colony stimulating factor controls myeloid cell accumulation and progression of gliomas. <i>British Journal of Cancer</i> , 2020 , 123, 438-448	8.7	7
162	Synergistic Toll-like Receptor 3/9 Signaling Affects Properties and Impairs Glioma-Promoting Activity of Microglia. <i>Journal of Neuroscience</i> , 2020 , 40, 6428-6443	6.6	8
161	Studying Human Glial Cells: Where Are We Today?. Glia, 2020, 68, 683-684	9	
160	The VGF-derived Peptide TLQP21 Impairs Purinergic Control of Chemotaxis and Phagocytosis in Mouse Microglia. <i>Journal of Neuroscience</i> , 2020 , 40, 3320-3331	6.6	9
159	O-Vanillin Attenuates the TLR2 Mediated Tumor-Promoting Phenotype of Microglia. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
158	Neurofibromatosis 1 - Mutant microglia exhibit sexually-dimorphic cyclic AMP-dependent purinergic defects. <i>Neurobiology of Disease</i> , 2020 , 144, 105030	7.5	3
157	Neuroinflammatory alterations in trait anxiety: modulatory effects of minocycline. <i>Translational Psychiatry</i> , 2020 , 10, 256	8.6	13
156	Down-regulation of Aquaporin-1 mediates a microglial phenotype switch affecting glioma growth. <i>Experimental Cell Research</i> , 2020 , 396, 112323	4.2	1
155	Activation of Toll-like receptor 5 in microglia modulates their function and triggers neuronal injury. <i>Acta Neuropathologica Communications</i> , 2020 , 8, 159	7.3	8

(2016-2019)

154	Human Mesenchymal glioblastomas are characterized by an increased immune cell presence compared to Proneural and Classical tumors. <i>OncoImmunology</i> , 2019 , 8, e1655360	7.2	40
153	Comprehensive gene expression meta-analysis identifies signature genes that distinguish microglia from peripheral monocytes/macrophages in health and glioma. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 20	7.3	75
152	Tenascin C regulates multiple microglial functions involving TLR4 signaling and HDAC1. <i>Brain, Behavior, and Immunity</i> , 2019 , 81, 470-483	16.6	19
151	Cien Abs de Microglā: Milestones in a Century of Microglial Research. <i>Trends in Neurosciences</i> , 2019 , 42, 778-792	13.3	61
150	Microglia/Brain Macrophages as Central Drivers of Brain Tumor Pathobiology. <i>Neuron</i> , 2019 , 104, 442-4	49 3.9	96
149	let-7 MicroRNAs Regulate Microglial Function and Suppress Glioma Growth through Toll-Like Receptor 7. <i>Cell Reports</i> , 2019 , 29, 3460-3471.e7	10.6	36
148	Oligodendrocytes in the Mouse Corpus Callosum Maintain Axonal Function by Delivery of Glucose. <i>Cell Reports</i> , 2018 , 22, 2383-2394	10.6	64
147	Distinguishing features of microglia- and monocyte-derived macrophages after stroke. <i>Acta Neuropathologica</i> , 2018 , 135, 551-568	14.3	54
146	Loss of host-derived osteopontin creates a glioblastoma-promoting microenvironment. <i>Neuro-Oncology</i> , 2018 , 20, 355-366	1	19
145	Barreloid Borders and Neuronal Activity Shape Panglial Gap Junction-Coupled Networks in the Mouse Thalamus. <i>Cerebral Cortex</i> , 2018 , 28, 213-222	5.1	15
144	Transcriptional and Translational Differences of Microglia from Male and Female Brains. <i>Cell Reports</i> , 2018 , 24, 2773-2783.e6	10.6	163
143	Astrocytic Calcium Waves Signal Brain Injury to Neural Stem and Progenitor Cells. <i>Stem Cell Reports</i> , 2017 , 8, 701-714	8	11
142	Changes in phagocytosis and potassium channel activity in microglia of 5xFAD mice indicate alterations in purinergic signaling in a mouse model of Alzheimer@ disease. <i>Neurobiology of Aging</i> , 2017 , 58, 41-53	5.6	32
141	Microglia in Physiology and Disease. <i>Annual Review of Physiology</i> , 2017 , 79, 619-643	23.1	635
140	Building Bridges through Science. <i>Neuron</i> , 2017 , 96, 730-735	13.9	2
139	The adenosine generating enzymes CD39/CD73 control microglial processes ramification in the mouse brain. <i>PLoS ONE</i> , 2017 , 12, e0175012	3.7	37
138	The subpopulation of microglia expressing functional muscarinic acetylcholine receptors expands in stroke and Alzheimer@ disease. <i>Brain Structure and Function</i> , 2016 , 221, 1157-72	4	39
137	FENS Forum 2018 in Berlin. <i>E-Neuroforum</i> , 2016 , 22, 109-109		

136	TLR2 controls random motility, while TLR7 regulates chemotaxis of microglial cells via distinct pathways. <i>Brain, Behavior, and Immunity</i> , 2016 , 58, 338-347	16.6	21
135	Decreased demand for olfactory periglomerular cells impacts on neural precursor cell viability in the rostral migratory stream. <i>Scientific Reports</i> , 2016 , 6, 32203	4.9	8
134	The "Big-Bang" for modern glial biology: Translation and comments on PB del RB-Hortega 1919 series of papers on microglia. <i>Glia</i> , 2016 , 64, 1801-40	9	119
133	Glial Cells: Neuroglia 2016 , 547-578		
132	Experimental Cortical Spreading Depression Induces NMDA Receptor Dependent Potassium Currents in Microglia. <i>Journal of Neuroscience</i> , 2016 , 36, 6165-74	6.6	27
131	ERK1 as a Therapeutic Target for Dendritic Cell Vaccination against High-Grade Gliomas. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 1975-87	6.1	5
130	Actin dynamics shape microglia effector functions. Brain Structure and Function, 2016, 221, 2717-34	4	29
129	The role of microglia and macrophages in glioma maintenance and progression. <i>Nature Neuroscience</i> , 2016 , 19, 20-7	25.5	743
128	Satellite microglia show spontaneous electrical activity that is uncorrelated with activity of the attached neuron. <i>European Journal of Neuroscience</i> , 2016 , 43, 1523-34	3.5	15
127	Human glioblastoma-associated microglia/monocytes express a distinct RNA profile compared to human control and murine samples. <i>Glia</i> , 2016 , 64, 1416-36	9	71
126	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> , 2016 , 75, 429-40	3.1	46
125	Spontaneous Ca transients in mouse microglia. <i>Cell Calcium</i> , 2016 , 60, 396-406	4	19
124	Characterization of Panglial Gap Junction Networks in the Thalamus, Neocortex, and Hippocampus Reveals a Unique Population of Glial Cells. <i>Cerebral Cortex</i> , 2015 , 25, 3420-33	5.1	84
123	Intrathecal heat shock protein 60 mediates neurodegeneration and demyelination in the CNS through a TLR4- and MyD88-dependent pathway. <i>Molecular Neurodegeneration</i> , 2015 , 10, 5	19	39
122	Vascular signal transducer and activator of transcription-3 promotes angiogenesis and neuroplasticity long-term after stroke. <i>Circulation</i> , 2015 , 131, 1772-82	16.7	46
121	Altered microglial phagocytosis in GPR34-deficient mice. <i>Glia</i> , 2015 , 63, 206-15	9	46
120	Glioma-associated microglia/macrophages display an expression profile different from M1 and M2 polarization and highly express Gpnmb and Spp1. <i>PLoS ONE</i> , 2015 , 10, e0116644	3.7	227
119	Glioma-derived versican promotes tumor expansion via glioma-associated microglial/macrophages Toll-like receptor 2 signaling. <i>Neuro-Oncology</i> , 2015 , 17, 200-10	1	98

(2012-2015)

118	Loss of CX3CR1 increases accumulation of inflammatory monocytes and promotes gliomagenesis. <i>Oncotarget</i> , 2015 , 6, 15077-94	3.3	117
117	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> , 2014 , 38, 175-8	34 ^{6.6}	125
116	Glioma-associated microglia and macrophages/monocytes display distinct electrophysiological properties and do not communicate via gap junctions. <i>Neuroscience Letters</i> , 2014 , 583, 130-5	3.3	19
115	Intracellular glycine receptor function facilitates glioma formation in vivo. <i>Journal of Cell Science</i> , 2014 , 127, 3687-98	5.3	10
114	Glioma-associated microglial MMP9 expression is upregulated by TLR2 signaling and sensitive to minocycline. <i>International Journal of Cancer</i> , 2014 , 135, 2569-78	7.5	76
113	Membrane-type 1 metalloproteinase is upregulated in microglia/brain macrophages in neurodegenerative and neuroinflammatory diseases. <i>Journal of Neuroscience Research</i> , 2014 , 92, 275-8	6 ^{4·4}	24
112	The subpopulation of microglia sensitive to neurotransmitters/neurohormones is modulated by stimulation with LPS, interferon-pand IL-4. <i>Glia</i> , 2014 , 62, 667-79	9	50
111	NTPDase1 activity attenuates microglial phagocytosis. <i>Purinergic Signalling</i> , 2013 , 9, 199-205	3.8	31
110	Toll-like receptor 2 mediates microglia/brain macrophage MT1-MMP expression and glioma expansion. <i>Neuro-Oncology</i> , 2013 , 15, 1457-68	1	76
109	Microglia: new roles for the synaptic stripper. <i>Neuron</i> , 2013 , 77, 10-8	13.9	763
109	Microglia: new roles for the synaptic stripper. <i>Neuron</i> , 2013 , 77, 10-8 Functional impairment of microglia coincides with Beta-amyloid deposition in mice with Alzheimer-like pathology. <i>PLoS ONE</i> , 2013 , 8, e60921	13.9 3.7	763 304
	Functional impairment of microglia coincides with Beta-amyloid deposition in mice with	3.7	, ,
108	Functional impairment of microglia coincides with Beta-amyloid deposition in mice with Alzheimer-like pathology. <i>PLoS ONE</i> , 2013 , 8, e60921	13.9 3.7	304
108	Functional impairment of microglia coincides with Beta-amyloid deposition in mice with Alzheimer-like pathology. <i>PLoS ONE</i> , 2013 , 8, e60921 Glial Cells 2013 , 475-506 GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. <i>Acta</i>		304
108 107 106	Functional impairment of microglia coincides with Beta-amyloid deposition in mice with Alzheimer-like pathology. <i>PLoS ONE</i> , 2013 , 8, e60921 Glial Cells 2013 , 475-506 GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. <i>Acta Neuropathologica</i> , 2013 , 125, 609-20	14.3	304 4 71
108 107 106	Functional impairment of microglia coincides with Beta-amyloid deposition in mice with Alzheimer-like pathology. <i>PLoS ONE</i> , 2013 , 8, e60921 Glial Cells 2013 , 475-506 GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. <i>Acta Neuropathologica</i> , 2013 , 125, 609-20 The brain tumor microenvironment. <i>Glia</i> , 2012 , 60, 502-14 Activation of serotonin receptors promotes microglial injury-induced motility but attenuates	14.3	304 4 71 261
108 107 106 105	Functional impairment of microglia coincides with Beta-amyloid deposition in mice with Alzheimer-like pathology. <i>PLoS ONE</i> , 2013 , 8, e60921 Glial Cells 2013 , 475-506 GDNF mediates glioblastoma-induced microglia attraction but not astrogliosis. <i>Acta Neuropathologica</i> , 2013 , 125, 609-20 The brain tumor microenvironment. <i>Glia</i> , 2012 , 60, 502-14 Activation of serotonin receptors promotes microglial injury-induced motility but attenuates phagocytic activity. <i>Brain</i> , <i>Behavior</i> , <i>and Immunity</i> , 2012 , 26, 419-28 Toll-like receptor activation reveals developmental reorganization and unmasks responder subsets	14.3 9 16.6	304 4 71 261

100	Physiology of microglia. <i>Physiological Reviews</i> , 2011 , 91, 461-553	47.9	2342
99	Properties of doublecortin-(DCX)-expressing cells in the piriform cortex compared to the neurogenic dentate gyrus of adult mice. <i>PLoS ONE</i> , 2011 , 6, e25760	3.7	95
98	Functional importance of inositol-1,4,5-triphosphate-induced intracellular Ca2+ mobilization in galanin-induced microglial migration. <i>Journal of Neurochemistry</i> , 2011 , 117, 61-70	6	18
97	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> , 2011 , 49, 365-75	4	46
96	The brain tumor microenvironment. <i>Glia</i> , 2011 , 59, 1169-80	9	355
95	Pathologic and phenotypic alterations in a mouse expressing a connexin47 missense mutation that causes Pelizaeus-Merzbacher-like disease in humans. <i>PLoS Genetics</i> , 2011 , 7, e1002146	6	61
94	Bone morphogenetic protein-7 release from endogenous neural precursor cells suppresses the tumourigenicity of stem-like glioblastoma cells. <i>Brain</i> , 2010 , 133, 1961-72	11.2	82
93	Impact of actin filament stabilization on adult hippocampal and olfactory bulb neurogenesis. Journal of Neuroscience, 2010 , 30, 3419-31	6.6	30
92	Modulation of fate determinants Olig2 and Pax6 in resident glia evokes spiking neuroblasts in a model of mild brain ischemia. <i>Stroke</i> , 2010 , 41, 2944-9	6.7	40
91	Heterogeneity in astrocyte morphology and physiology. <i>Brain Research Reviews</i> , 2010 , 63, 2-10		275
90	Oligodendrocytes in mouse corpus callosum are coupled via gap junction channels formed by connexin47 and connexin32. <i>Glia</i> , 2010 , 58, 1104-17	9	103
89	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> , 2009 , 134, 115-27	3.4	59
88	Pharmacological "cross-inhibition" of connexin hemichannels and swelling activated anion channels. <i>Glia</i> , 2009 , 57, 258-69	9	90
87	C1q, the recognition subcomponent of the classical pathway of complement, drives microglial activation. <i>Journal of Neuroscience Research</i> , 2009 , 87, 644-52	4.4	75
86	GABAergic activities enhance macrophage inflammatory protein-1alpha release from microglia (brain macrophages) in postnatal mouse brain. <i>Journal of Physiology</i> , 2009 , 587, 753-68	3.9	23
85	Astrocyte function is modified by Alzheimer@ disease-like pathology in aged mice. <i>Journal of Alzheimers</i> : Disease, 2009 , 18, 177-89	4.3	60
84	Temperature and nitric oxide control spontaneous calcium transients in astrocytes. <i>Cell Calcium</i> , 2008 , 43, 285-95	4	33
83	Store-operated Ca2+ entry in astrocytes: different spatial arrangement of endoplasmic reticulum explains functional diversity in vitro and in situ. <i>Cell Calcium</i> , 2008 , 43, 591-601	4	44

82	How does intracellular Ca2+ oscillate: by chance or by the clock?. <i>Biophysical Journal</i> , 2008 , 94, 2404-11	2.9	146
81	An alpha5beta1 integrin inhibitor attenuates glioma growth. <i>Molecular and Cellular Neurosciences</i> , 2008 , 39, 579-85	4.8	41
80	Neuroglia: the 150 years after. <i>Trends in Neurosciences</i> , 2008 , 31, 653-9	13.3	204
79	Astrocytes discriminate and selectively respond to the activity of a subpopulation of neurons within the barrel cortex. <i>Cerebral Cortex</i> , 2008 , 18, 2450-9	5.1	59
78	The ectonucleotidase cd39/ENTPDase1 modulates purinergic-mediated microglial migration. <i>Glia</i> , 2008 , 56, 331-41	9	84
77	Mild brain ischemia induces unique physiological properties in striatal astrocytes. <i>Glia</i> , 2008 , 56, 925-34	9	16
76	The antitumorigenic response of neural precursors depends on subventricular proliferation and age. <i>Stem Cells</i> , 2008 , 26, 2945-54	5.8	43
75	Microglia: active sensor and versatile effector cells in the normal and pathologic brain. <i>Nature Neuroscience</i> , 2007 , 10, 1387-94	25.5	2624
74	Neuroprotective role of bradykinin because of the attenuation of pro-inflammatory cytokine release from activated microglia. <i>Journal of Neurochemistry</i> , 2007 , 101, 397-410	6	100
73	Membrane currents and cytoplasmic sodium transients generated by glutamate transport in Bergmann glial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2007 , 454, 245-52	4.6	106
72	Bradykinin-induced microglial migration mediated by B1-bradykinin receptors depends on Ca2+ influx via reverse-mode activity of the Na+/Ca2+ exchanger. <i>Journal of Neuroscience</i> , 2007 , 27, 13065-73	3 ^{6.6}	107
71	A novel glycine receptor beta subunit splice variant predicts an unorthodox transmembrane topology. Assembly into heteromeric receptor complexes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 2798-807	5.4	26
70	The invasion promoting effect of microglia on glioblastoma cells is inhibited by cyclosporin A. <i>Brain</i> , 2007 , 130, 476-89	11.2	101
69	Neurotransmitter receptors on microglia. <i>Trends in Neurosciences</i> , 2007 , 30, 527-35	13.3	474
68	Enriched monolayer precursor cell cultures from micro-dissected adult mouse dentate gyrus yield functional granule cell-like neurons. <i>PLoS ONE</i> , 2007 , 2, e388	3.7	119
67	Type-2 cells as link between glial and neuronal lineage in adult hippocampal neurogenesis. <i>Glia</i> , 2006 , 54, 805-14	9	268
66	Functional role of calcium signals for microglial function. <i>Glia</i> , 2006 , 54, 656-65	9	139
65	Activity-dependent ATP-waves in the mouse neocortex are independent from astrocytic calcium waves. <i>Cerebral Cortex</i> , 2006 , 16, 237-46	5.1	119

64	A1 adenosine receptors in microglia control glioblastoma-host interaction. <i>Cancer Research</i> , 2006 , 66, 8550-7	10.1	60
63	The potassium channels Kv1.5 and Kv1.3 modulate distinct functions of microglia. <i>Molecular and Cellular Neurosciences</i> , 2006 , 33, 401-11	4.8	75
62	Graduiertenkolleg 1258 Der Einfluss von Entzfidung auf die Funktion des Nervensystems. <i>E-Neuroforum</i> , 2006 , 12, 243-245		
61	Triggering the brain@pathology sensor. <i>Nature Neuroscience</i> , 2006 , 9, 1463-4	25.5	24
60	Purinergic signaling and microglia. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 452, 615-21	4.6	128
59	Nestin-expressing cells divide and adopt a complex electrophysiologic phenotype after transient brain ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, 1613-24	7:3	41
58	Dopamine and noradrenaline control distinct functions in rodent microglial cells. <i>Molecular and Cellular Neurosciences</i> , 2005 , 29, 128-38	4.8	164
57	A subpopulation of precursor cells in the mouse dentate gyrus receives synaptic GABAergic input. <i>Molecular and Cellular Neurosciences</i> , 2005 , 29, 181-9	4.8	145
56	Physiology of microglial cells. <i>Brain Research Reviews</i> , 2005 , 48, 133-43		142
55	Microglia stimulate the invasiveness of glioma cells by increasing the activity of metalloprotease-2. Journal of Neuropathology and Experimental Neurology, 2005 , 64, 754-62	3.1	204
54	Synaptic transmission onto hippocampal glial cells with hGFAP promoter activity. <i>Journal of Cell Science</i> , 2005 , 118, 3791-803	5.3	129
53	Glioblastoma-induced attraction of endogenous neural precursor cells is associated with improved survival. <i>Journal of Neuroscience</i> , 2005 , 25, 2637-46	6.6	182
52	Hydrogen peroxide and ADP-ribose induce TRPM2-mediated calcium influx and cation currents in microglia. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 286, C129-37	5.4	221
51	CXCR3-dependent microglial recruitment is essential for dendrite loss after brain lesion. <i>Journal of Neuroscience</i> , 2004 , 24, 8500-9	6.6	196
50	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> , 2004 , 279, 51880-7	5.4	45
49	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> , 2004 , 90, 513-25	6	16
48	Microglia express GABA(B) receptors to modulate interleukin release. <i>Molecular and Cellular Neurosciences</i> , 2004 , 25, 312-22	4.8	139
47	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, 4410-9	6.6	201

(2001-2003)

46	Different mechanisms promote astrocyte Ca2+ waves and spreading depression in the mouse neocortex. <i>Journal of Neuroscience</i> , 2003 , 23, 9888-96	6.6	164
45	Segregated expression of AMPA-type glutamate receptors and glutamate transporters defines distinct astrocyte populations in the mouse hippocampus. <i>Journal of Neuroscience</i> , 2003 , 23, 1750-8	6.6	383
44	GABAA receptor-expressing astrocytes in the supraoptic nucleus lack glutamate uptake and receptor currents. <i>Glia</i> , 2003 , 44, 102-10	9	42
43	Purinergic receptors on microglial cells: functional expression in acute brain slices and modulation of microglial activation in vitro. <i>European Journal of Neuroscience</i> , 2003 , 17, 2267-76	3.5	164
42	Subpopulation of nestin-expressing progenitor cells in the adult murine hippocampus shows electrophysiological and morphological characteristics of astrocytes. <i>Molecular and Cellular Neurosciences</i> , 2003 , 23, 373-82	4.8	375
41	Bergmann glial cells form distinct morphological structures to interact with cerebellar neurons. Journal of Neuroscience Research, 2002 , 68, 138-49	4.4	138
40	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> , 2002 , 16, 2113-22	3.5	99
39	Secondary lymphoid tissue chemokine (CCL21) activates CXCR3 to trigger a Cl- current and chemotaxis in murine microglia. <i>Journal of Immunology</i> , 2002 , 168, 3221-6	5.3	125
38	Astrocyte Ca2+ waves trigger responses in microglial cells in brain slices. FASEB Journal, 2002, 16, 255-7	7 0.9	196
37	GABA(A)-receptor expression in glioma cells is triggered by contact with neuronal cells. <i>European Journal of Neuroscience</i> , 2001 , 14, 1294-302	3.5	22
36	AN2/NG2 protein-expressing glial progenitor cells in the murine CNS: isolation, differentiation, and association with radial glia. <i>Glia</i> , 2001 , 34, 213-28	9	112
35	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue. <i>Glia</i> , 2001 , 33, 72-86	9	424
34	The protein tyrosine kinase inhibitor AG126 prevents the massive microglial cytokine induction by pneumococcal cell walls. <i>European Journal of Immunology</i> , 2001 , 31, 2104-15	6.1	69
33	beta-adrenergic receptor stimulation selectively inhibits IL-12p40 release in microglia. <i>Brain Research</i> , 2001 , 899, 264-70	3.7	39
32	Astrocytes of the mouse neocortex express functional N-methyl-D-aspartate receptors. <i>FASEB Journal</i> , 2001 , 15, 1270-2	0.9	163
31	Hypoxia reverses dibutyryl-cAMP-induced stellation of cultured astrocytes via activation of the endothelin system. <i>FASEB Journal</i> , 2001 , 15, 1227-9	0.9	9
30	Nitric oxide signals parallel fiber activity to Bergmann glial cells in the mouse cerebellar slice. <i>Molecular and Cellular Neurosciences</i> , 2001 , 18, 664-70	4.8	63
29	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue 2001 , 33, 72		2

28	GFAP promoter-controlled EGFP-expressing transgenic mice: A tool to visualize astrocytes and astrogliosis in living brain tissue 2001 , 33, 72		12
27	Phagocytic clearance of apoptotic neurons by Microglia/Brain macrophages in vitro: involvement of lectin-, integrin-, and phosphatidylserine-mediated recognition. <i>Journal of Neurochemistry</i> , 2000 , 75, 1060-70	6	149
26	Biochemical analysis of proteasomes from mouse microglia: Induction of immunoproteasomes by interferon-land lipopolysaccharide. <i>Glia</i> , 2000 , 29, 355-365	9	64
25	Electrophysiological properties of microglial cells in normal and pathologic rat brain slices. <i>European Journal of Neuroscience</i> , 2000 , 12, 2049-58	3.5	116
24	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> , 2000 , 20, 1537-49	7.3	57
23	Activation of mouse microglial cells affects P2 receptor signaling. <i>Brain Research</i> , 2000 , 853, 49-59	3.7	110
22	Regionally distinct regulation of astroglial neurotransmitter receptors by fibroblast growth factor-2. <i>Molecular and Cellular Neurosciences</i> , 2000 , 16, 42-58	4.8	27
21	Microdomains for neuron-glia interaction: parallel fiber signaling to Bergmann glial cells. <i>Nature Neuroscience</i> , 1999 , 2, 139-43	25.5	541
20	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> , 1999 , 58, 1078-89	3.1	83
19	Oligodendrocytes and microglia are selectively vulnerable to combined hypoxia and hypoglycemia injury in vitro. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998 , 18, 521-30	7.3	111
18	Dye coupling between spinal cord oligodendrocytes: Differences in coupling efficiency between gray and white matter 1998 , 24, 108-120		48
17	Glial calcium: homeostasis and signaling function. <i>Physiological Reviews</i> , 1998 , 78, 99-141	47.9	580
16	Dye coupling between spinal cord oligodendrocytes: Differences in coupling efficiency between gray and white matter 1998 , 24, 108		1
15	Mouse brain microglia express interleukin-15 and its multimeric receptor complex functionally coupled to Janus kinase activity. <i>Journal of Biological Chemistry</i> , 1997 , 272, 28853-60	5.4	84
14	Microglial phagocytosis is modulated by pro- and anti-inflammatory cytokines. <i>NeuroReport</i> , 1997 , 8, 3851-6	1.7	66
13	Action potential-generating cells in human glioblastomas. <i>Journal of Neuropathology and Experimental Neurology</i> , 1997 , 56, 243-54	3.1	49
12	Endothelin-induced calcium signaling in cultured mouse microglial cells is mediated through ETB receptors. <i>NeuroReport</i> , 1997 , 8, 2127-31	1.7	30
11	Mechanisms of C5a and C3a complement fragment-induced [Ca2+]i signaling in mouse microglia. Journal of Neuroscience, 1997, 17, 615-24	6.6	129

LIST OF PUBLICATIONS

10	Epidermal growth factor is a motility factor for microglial cells in vitro: evidence for EGF receptor expression. <i>European Journal of Neuroscience</i> , 1997 , 9, 1690-8	3.5	75
9	Bergmann glial cells in situ express endothelinB receptors linked to cytoplasmic calcium signals. <i>Cell Calcium</i> , 1997 , 21, 409-19	4	43
8	Expression of glycine receptor subunits in glial cells of the rat spinal cord. <i>Journal of Neurochemistry</i> , 1996 , 66, 1383-90	6	49
7	Calcium signalling in glial cells. <i>Trends in Neurosciences</i> , 1996 , 19, 346-52	13.3	429
6	Electrical coupling among Bergmann glial cells and its modulation by glutamate receptor activation. <i>Glia</i> , 1996 , 17, 274-84	9	86
5	Glycine- and GABA-activated currents in identified glial cells of the developing rat spinal cord slice. <i>European Journal of Neuroscience</i> , 1995 , 7, 1188-98	3.5	78
4	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> , 1995 , 7, 129-42	3.5	96
3	Properties of GABA and glutamate responses in identified glial cells of the mouse hippocampal slice. <i>Hippocampus</i> , 1994 , 4, 19-35	3.5	134
2	NMDA-activated currents in Bergmann glial cells. <i>NeuroReport</i> , 1993 , 4, 671-4	1.7	83
1	Electrical coupling between astrocytes and between oligodendrocytes studied in mammalian cell cultures. <i>Glia</i> , 1988 , 1, 64-73	9	158