Leszek Kaczmarek

List of Publications by Year
in descending order

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243 papers	14,382 citations	17440 63 h-index	27406 106 g-index

255 all docs	255 docs citations	255 times ranked	13408 citing authors

#	Article	IF	Citations
1	The Involvement of the Anterior Cingulate Cortex in Remote Contextual Fear Memory. Science, 2004, 304, 881-883.	12.6	805
2	Matrix Metalloproteinase-9 Is Required for Hippocampal Late-Phase Long-Term Potentiation and Memory. Journal of Neuroscience, 2006, 26, 1923-1934.	3.6	434
3	Matrix Metalloproteinase-9 Undergoes Expression and Activation during Dendritic Remodeling in Adult Hippocampus. Journal of Neuroscience, 2002, 22, 920-930.	3.6	360
4	Microinjected c-myc as a competence factor. Science, 1985, 228, 1313-1315.	12.6	359
5	A gene for neuronal plasticity in the mammalian brain: Zif268/Egr-1/NGFI-A/Krox-24/TIS8/ZENK?. Progress in Neurobiology, 2004, 74, 183-211.	5.7	335
6	<scp>MMP</scp>â€9 in translation: from molecule to brain physiology, pathology, and therapy. Journal of Neurochemistry, 2016, 139, 91-114.	3.9	287
7	MicroRNA Loss Enhances Learning and Memory in Mice. Journal of Neuroscience, 2010, 30, 14835-14842.	3.6	276
8	Important role of matrix metalloproteinase 9 in epileptogenesis. Journal of Cell Biology, 2008, 180, 1021-1035.	5.2	256
9	Postâ€stroke depression: mechanisms, translation and therapy. Journal of Cellular and Molecular Medicine, 2012, 16, 1961-1969.	3.6	239
10	Sensory regulation of immediateâ€“early gene expression in mammalian visual cortex: implications for functional mapping and neural plasticity. Brain Research Reviews, 1997, 23, 237-256.	9.0	235
11	MMP-9 Inhibition: a Therapeutic Strategy in Ischemic Stroke. Molecular Neurobiology, 2014, 49, 563-573.	4.0	232
12	Matrix metalloproteinases and their endogenous inhibitors in neuronal physiology of the adult brain. FEBS Letters, 2004, 567, 129-135.	2.8	229
13	Metzincin Proteases and Their Inhibitors: Foes or Friends in Nervous System Physiology?. Journal of Neuroscience, 2010, 30, 15337-15357.	3.6	204
14	Influence of matrix metalloproteinase MMP-9 on dendritic spine morphology. Journal of Cell Science, 2011, 124, 3369-3380.	2.0	200
15	Matrix Metalloproteinase-9 Controls NMDA Receptor Surface Diffusion through Integrin Î²1 Signaling. Journal of Neuroscience, 2009, 29, 6007-6012.	3.6	179
16	The critical role of cyclin D2 in adult neurogenesis. Journal of Cell Biology, 2004, 167, 209-213.	5.2	170
17	Î²-Dystroglycan as a Target for MMP-9, in Response to Enhanced Neuronal Activity. Journal of Biological Chemistry, 2007, 282, 16036-16041.	3.4	168
18	Functional anatomy of neural circuits regulating fear and extinction. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17093-17098.	7.1	162

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19	Between-subject transfer of emotional information evokes specific pattern of amygdala activation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3858-3862.	7.1	144
20	New EMBO Member's Review: Matrix metalloproteinases in the adult brain physiology: a link between c-Fos, AP-1 and remodeling of neuronal connections?. EMBO Journal, 2002, 21, 6643-6648.	7.8	142
21	High MMPâ€9 activity levels in fragile X syndrome are lowered by minocycline. American Journal of Medical Genetics, Part A, 2013, 161, 1897-1903.	1.2	140
22	MMPs in learning and memory and neuropsychiatric disorders. Cellular and Molecular Life Sciences, 2019, 76, 3207-3228.	5.4	137
23	TIMP-1 Abolishes MMP-9-Dependent Long-lasting Long-term Potentiation in the Prefrontal Cortex. Biological Psychiatry, 2007, 62, 359-362.	1.3	136
24	DNA fragmentation in rat brain after intraperitoneal administration of kainate. NeuroReport, 1994, 5, 1538-1540.	1.2	135
25	Gelatinase B and TIMPâ€1 are regulated in a cellâ€•and timeâ€dependent manner in association with neuronal death and glial reactivity after global forebrain ischemia. European Journal of Neuroscience, 2002, 15, 19-32.	2.6	132
26	Functional Internal Complexity of Amygdala: Focus on Gene Activity Mapping After Behavioral Training and Drugs of Abuse. Physiological Reviews, 2007, 87, 1113-1173.	28.8	131
27	Molecular biology of vertebrate learning: Isc-fos a new beginning?. Journal of Neuroscience Research, 1993, 34, 377-381.	2.9	126
28	Estrogen receptor Î². FEBS Letters, 2002, 524, 1-5.	2.8	120
29	Precontact 50-kHz vocalizations in male rats during acquisition of sexual experience.. Behavioral Neuroscience, 2000, 114, 983-990.	1.2	119
30	Extracellular matrix molecules, their receptors, and secreted proteases in synaptic plasticity. Developmental Neurobiology, 2011, 71, 1040-1053.	3.0	115
31	New hippocampal neurons are not obligatory for memory formation; cyclin D2 knockout mice with no adult brain neurogenesis show learning. Learning and Memory, 2009, 16, 439-451.	1.3	112
32	Differential involvement of the central amygdala in appetitive versus aversive learning. Learning and Memory, 2006, 13, 192-200.	1.3	110
33	Activity-Dependent Local Translation of Matrix Metalloproteinase-9. Journal of Neuroscience, 2012, 32, 14538-14547.	3.6	110
34	Dynamic Changes in the Composition of the AP-1 Transcription Factor DNA-binding Activity in Rat Brain Following Kainate-induced Seizures and Cell Death. European Journal of Neuroscience, 1994, 6, 1558-1566.	2.6	106
35	Kainate-induced genes in the hippocampus: lessons from expression patterns. Neurochemistry International, 2001, 38, 485-501.	3.8	105
36	The Fragile X Mental Retardation Protein Regulates Matrix Metalloproteinase 9 mRNA at Synapses. Journal of Neuroscience, 2013, 33, 18234-18241.	3.6	102

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37	Role for MMP-9 in stress-induced downregulation of nectin-3 in hippocampal CA1 and associated behavioural alterations. Nature Communications, 2014, 5, 4995.	12.8	101
38	Induction of cellular DNA synthesis by purified adenovirus E1A proteins. Virology, 1986, 152, 1-10.	2.4	93
39	Deregulation of NMDA-receptor function and down-stream signaling in APP[V717I] transgenic mice. Neurobiology of Aging, 2009, 30, 241-256.	3.1	93
40	High resolution in situ zymography reveals matrix metalloproteinase activity at glutamatergic synapses. Neuroscience, 2009, 158, 167-176.	2.3	90
41	Transient brain ischemia due to cardiac arrest causes irreversible long-lasting cognitive injury. Behavioural Brain Research, 2011, 219, 1-7.	2.2	90
42	Expression of c-fos and other genes encoding transcription factors in long-term potentiation. Behavioral and Neural Biology, 1992, 57, 263-266.	2.2	89
43	Time-dependent changes in alcohol-seeking behaviour during abstinence. European Neuropsychopharmacology, 2004, 14, 355-360.	0.7	88
44	Matrix metalloproteinase-9 in glutamate-dependent adult brain function and dysfunction. Cell Death and Differentiation, 2007, 14, 1255-1258.	11.2	88
45	Light-sheet microscopy imaging of a whole cleared rat brain with Thy1-GFP transgene. Scientific Reports, 2016, 6, 28209.	3.3	87
46	Mechanism for long-term memory formation when synaptic strengthening is impaired. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18471-18475.	7.1	86
47	Induction of expression of genes encoding transcription factors in the rat brain elicited by behavioral training. Brain Research Bulletin, 1992, 28, 479-484.	3.0	83
48	Matrix Metalloproteinase (MMP) 9 Transcription in Mouse Brain Induced by Fear Learning. Journal of Biological Chemistry, 2013, 288, 20978-20991.	3.4	82
49	Synaptic localization of seizure-induced matrix metalloproteinase-9 mRNA. Neuroscience, 2007, 150, 31-39.	2.3	80
50	Cell-cycle-specific genes differentially expressed in human leukemias.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 4463-4467.	7.1	79
51	Accumulation of c-fos mRNA in rat hippocampus during acquisition of a brightness discrimination. Behavioral and Neural Biology, 1990, 54, 165-171.	2.2	78
52	Non-nuclear estrogen receptor ? and ? in the hippocampus of male and female rats. Hippocampus, 2005, 15, 404-412.	1.9	78
53	Altered expression of G1-specific genes in human malignant myeloid cells.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 1495-1498.	7.1	76
54	Synaptically Released Matrix Metalloproteinase Activity in Control of Structural Plasticity and the Cell Surface Distribution of GluA1-AMPA Receptors. PLoS ONE, 2014, 9, e98274.	2.5	76

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55	Tactile Experience Induces c-fos Expression in Rat Barrel Cortex. Learning and Memory, 2000, 7, 116-122.	1.3	75
56	Functional polymorphism of the matrix metalloproteinase-9 (MMP-9) gene in schizophrenia. Schizophrenia Research, 2009, 109, 90-93.	2.0	74
57	Inducible cAMP early repressor (ICER) in the nervous system â€“ a transcriptional regulator of neuronal plasticity and programmed cell death. Journal of Neurochemistry, 2003, 87, 1313-1320.	3.9	71
58	AAV-Tau Mediates Pyramidal Neurodegeneration by Cell-Cycle Re-Entry without Neurofibrillary Tangle Formation in Wild-Type Mice. PLoS ONE, 2009, 4, e7280.	2.5	71
59	IntelliCage as a tool for measuring mouse behavior â€“ 20 years perspective. Behavioural Brain Research, 2020, 388, 112620.	2.2	71
60	Brain-Derived Neurotrophic Factor Induces Matrix Metalloproteinase 9 Expression in Neurons via the Serum Response Factor/c-Fos Pathway. Molecular and Cellular Biology, 2013, 33, 2149-2162.	2.3	70
61	Visual Stimulation Regulates the Expression of Transcription Factors and Modulates the Composition of AP-1 in Visual Cortex^a. Journal of Neuroscience, 1996, 16, 3968-3978.	3.6	69
62	Matrix Metalloproteinase-9 as a Novel Player in Synaptic Plasticity and Schizophrenia: Table 1.. Schizophrenia Bulletin, 2015, 41, 1003-1009.	4.3	69
63	miR-132 Regulates Dendritic Spine Structure by Direct Targeting of Matrix Metalloproteinase 9 mRNA. Molecular Neurobiology, 2016, 53, 4701-4712.	4.0	68
64	Sampling issues in quantitative analysis of dendritic spines morphology. BMC Bioinformatics, 2012, 13, 213.	2.6	66
65	Inducible cAMP Early Repressor, an Endogenous Antagonist of cAMP Responsive Element-Binding Protein, Evokes Neuronal ApoptosisIn Vitro. Journal of Neuroscience, 2003, 23, 4519-4526.	3.6	65
66	Induction of Primary Response Genes by Excitatory Amino Acid Receptor Agonists in Primary Astroglial Cultures. Journal of Neurochemistry, 1993, 60, 877-885.	3.9	64
67	Characterization of an alcohol addictionâ€prone phenotype in mice. Addiction Biology, 2012, 17, 601-612.	2.6	64
68	Reward Learning Requires Activity of Matrix Metalloproteinase-9 in the Central Amygdala. Journal of Neuroscience, 2013, 33, 14591-14600.	3.6	63
69	Matrix Metalloproteinases Regulate the Formation of Dendritic Spine Head Protrusions during Chemically Induced Long-Term Potentiation. PLoS ONE, 2013, 8, e63314.	2.5	63
70	Neural ECM proteases in learning and synaptic plasticity. Progress in Brain Research, 2014, 214, 135-157.	1.4	63
71	C-fos protooncogene expression in rat brain after long-term training of two-way active avoidance reaction. Behavioural Brain Research, 1992, 48, 91-94.	2.2	62
72	Neuronal Excitation-driven and AP-1-dependent Activation of Tissue Inhibitor of Metalloproteinases-1 Gene Expression in Rodent Hippocampus. Journal of Biological Chemistry, 1999, 274, 28106-28112.	3.4	62

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73	Not all water mazes are created equal: cyclin <scp>D2</scp> knockout mice with constitutively suppressed adult hippocampal neurogenesis do show specific spatial learning deficits. Genes, Brain and Behavior, 2014, 13, 357-364.	2.2	62
74	Proto-oncogene c-fos induction in rat hippocampus. Molecular Brain Research, 1988, 3, 183-186.	2.3	61
75	Antisense oligodeoxyribonucleotides: stability and distribution after intracerebral injection into rat brain. Journal of Neuroscience Methods, 1995, 60, 181-187.	2.5	61
76	Alcohol Relapse Induced by Discrete Cues Activates Components of AP-1 Transcription Factor and ERK Pathway in the Rat Basolateral and Central Amygdala. Neuropsychopharmacology, 2008, 33, 1835-1846.	5.4	57
77	Matrix Metalloproteinase-9 and Synaptic Plasticity in the Central Amygdala in Control of Alcohol-Seeking Behavior. Biological Psychiatry, 2017, 81, 907-917.	1.3	57
78	Extracellular signalâ€regulated kinases (ERKs) modulate cocaineâ€induced gene expression in the mouse amygdala. European Journal of Neuroscience, 2005, 22, 939-948.	2.6	55
79	Induction of protooncogene fos by extracellular signals in primary glial cell cultures. Journal of Neuroscience Research, 1989, 23, 234-239.	2.9	54
80	Molecular biology of cell activation. Experimental Cell Research, 1989, 183, 24-35.	2.6	54
81	Tissue specific distribution of calcyclin - 10.5 kDa Ca2+-binding protein. FEBS Letters, 1989, 254, 141-144.	2.8	53
82	Transient ECM protease activity promotes synaptic plasticity. Scientific Reports, 2016, 6, 27757.	3.3	53
83	Maintenance of longâ€term potentiation in hippocampal mossy fiberâ€”CA3 pathway requires fineâ€tuned MMPâ€9 proteolytic activity. Hippocampus, 2013, 23, 529-543.	1.9	52
84	Advances in Ex Situ Tissue Optical Clearing. Laser and Photonics Reviews, 2019, 13, 1800292.	8.7	52
85	Behavioral characterization of GLT1 (+/-) mice as a model of mild glutamatergic hyperfunction. Neurotoxicity Research, 2008, 13, 19-30.	2.7	51
86	Functional polymorphism of matrix metalloproteinase-9 (MMP-9) gene in alcohol dependence: Family and case control study. Brain Research, 2010, 1327, 103-106.	2.2	51
87	Highly sensitive and adaptable fluorescence-quenched pair discloses the substrate specificity profiles in diverse protease families. Scientific Reports, 2017, 7, 43135.	3.3	51
88	Co-operation between the p53 protein tumor antigen and platelet-poor plasma in the induction of cellular DNA synthesis. Experimental Cell Research, 1986, 162, 268-272.	2.6	50
89	Defensive conditioning-related functional heterogeneity among nuclei of the rat amygdala revealed by c-Fos mapping. Neuroscience, 1999, 94, 723-733.	2.3	50
90	Tissue inhibitor of matrix metalloproteinases-1 loaded poly(lactic-co-glycolic acid) nanoparticles for delivery across the blood–brain barrier. International Journal of Nanomedicine, 2014, 9, 575.	6.7	50

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91	Calcyclin (S100A6) Binding Protein (CacyBP) Is Highly Expressed in Brain Neurons. Journal of Histochemistry and Cytochemistry, 2000, 48, 1195-1202.	2.5	49
92	Differential response of two subdivisions of lateral amygdala to aversive conditioning as revealed by c-Fos and P-ERK mapping. NeuroReport, 2002, 13, 2241-2246.	1.2	49
93	Matrix metalloproteinase 9 (MMP-9) is indispensable for long term potentiation in the central and basal but not in the lateral nucleus of the amygdala. Frontiers in Cellular Neuroscience, 2015, 9, 73.	3.7	49
94	Elevation of MMP-9 Levels Promotes Epileptogenesis After Traumatic Brain Injury. Molecular Neurobiology, 2018, 55, 9294-9306.	4.0	49
95	Two subtypes of G protein-coupled nucleotide receptors, P2Y1 and P2Y2 are involved in calcium signalling in glioma C6 cells. British Journal of Pharmacology, 2001, 132, 393-402.	5.4	48
96	Lack of cyclin D2 impairing adult brain neurogenesis alters hippocampal-dependent behavioral tasks without reducing learning ability. Behavioural Brain Research, 2012, 227, 159-166.	2.2	48
97	Control of hsp70 RNA levels in human lymphocytes.. Journal of Cell Biology, 1987, 104, 183-187.	5.2	47
98	Glutamate receptor-driven activation of transcription factors in primary neuronal cultures. Neurochemical Research, 1994, 19, 489-499.	3.3	47
99	The Antitumorigenic Response of Neural Precursors Depends on Subventricular Proliferation and Age. Stem Cells, 2008, 26, 2945-2954.	3.2	47
100	Rapid Phosphorylation of Elk-1 Transcription Factor and Activation of MAP Kinase Signal Transduction Pathways in Response to Visual Stimulation. Molecular and Cellular Neurosciences, 1999, 13, 405-414.	2.2	46
101	Experience-Dependent Plasticity of the Barrel Cortex in Mice Observed with 2-DG Brain Mapping and c-Fos: Effects of MMP-9 KO. Cerebral Cortex, 2012, 22, 2160-2170.	2.9	46
102	c-fos Protooncogene expression in rat hippocampus and entorhinal cortex following tetanic stimulation of the perforant path. Brain Research, 1991, 560, 346-349.	2.2	45
103	Increased estrogen receptor Î² expression correlates with decreased spine formation in the rat hippocampus. Hippocampus, 2006, 16, 453-463.	1.9	45
104	Cell-cycle-dependent expression of human ornithine decarboxylase. Journal of Cellular Physiology, 1987, 132, 545-551.	4.1	43
105	Loss of transcription factor AP-1 DNA binding activity during lymphocyte aging in vivo. FEBS Letters, 1992, 312, 179-182.	2.8	43
106	Matrix Metalloproteinase-9 Gene and Bipolar Mood Disorder. NeuroMolecular Medicine, 2009, 11, 128-132.	3.4	43
107	Adult Deletion of SRF Increases Epileptogenesis and Decreases Activity-Induced Gene Expression. Molecular Neurobiology, 2016, 53, 1478-1493.	4.0	43
108	GSK-3Î² and MMP-9 Cooperate in the Control of Dendritic Spine Morphology. Molecular Neurobiology, 2017, 54, 200-211.	4.0	43

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109	Hypersocial behavior and biological redundancy in mice with reduced expression of PSD95 or PSD93. Behavioural Brain Research, 2018, 352, 35-45.	2.2	43
110	Environmental manipulation differentially alters c-Fos expression in amygdaloid nuclei following aversive conditioning. Brain Research, 2002, 957, 91-98.	2.2	42
111	Genetically encoded FRET-based biosensor for imaging MMP-9 activity. Biomaterials, 2014, 35, 1402-1410.	11.4	42
112	Elevated Cathepsin D Expression in Kainate-Evoked Rat Brain Neurodegeneration. Experimental Neurology, 1995, 136, 53-63.	4.1	41
113	The MicroRNA Contribution to Learning and Memory. Neuroscientist, 2011, 17, 468-474.	3.5	41
114	Extracellular proteases in epilepsy. Epilepsy Research, 2011, 96, 191-206.	1.6	41
115	MKLs: Co-factors of serum response factor (SRF) in neuronal responses. International Journal of Biochemistry and Cell Biology, 2012, 44, 1444-1447.	2.8	41
116	Complex Effects of NMDA Receptor Antagonist APV in the Basolateral Amygdala on Acquisition of Two-Way Avoidance Reaction and Long-Term Fear Memory. Learning and Memory, 2003, 10, 293-303.	1.3	40
117	Yin Yang 1 Is a Critical Repressor of Matrix Metalloproteinase-9 Expression in Brain Neurons. Journal of Biological Chemistry, 2008, 283, 35140-35153.	3.4	40
118	The extracellular matrix glycoprotein tenascin-C and matrix metalloproteinases modify cerebellar structural plasticity by exposure to an enriched environment. Brain Structure and Function, 2017, 222, 393-415.	2.3	40
119	AP-1 and CRE DNA binding activities in rat brain following pentylenetetrazole induced seizures. Brain Research, 1994, 643, 227-233.	2.2	38
120	Cellular and molecular correlates of glutamate-evoked neuronal programmed cell death in the in vitro cultures of rat hippocampal dentate gyrus. Neurochemistry International, 1997, 31, 229-240.	3.8	38
121	JunB is a repressor of MMP-9 transcription in depolarized rat brain neurons. Molecular and Cellular Neurosciences, 2009, 40, 98-110.	2.2	38
122	Impaired long-term memory retention: Common denominator for acutely or genetically reduced hippocampal neurogenesis in adult mice. Behavioural Brain Research, 2013, 252, 275-286.	2.2	38
123	Inhibitors of polyamine biosynthesis affect the expression of genes encoding cytoskeletal proteins. FEBS Letters, 1992, 304, 198-200.	2.8	36
124	Sensory Regulation of Immediate-early Genes c-fos and zif268 in Monkey Visual Cortex at Birth and Throughout the Critical Period. Cerebral Cortex, 1999, 9, 179-187.	2.9	36
125	Inhibition of phosphatidylserine synthesis by glutamate, acetylcholine, thapsigargin and ionophore A23187 in glioma C6 cells. Biochemical and Biophysical Research Communications, 1992, 186, 1582-1587.	2.1	35
126	Kainate-evoked changes in dystrophin messenger RNA levels in the rat hippocampus. Neuroscience, 1998, 84, 467-477.	2.3	35

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127	Synaptic cell adhesion moleculeâ€2 and collapsin response mediator proteinâ€2 are novel members of the matrix metalloproteinaseâ€9 degradome. Journal of Neurochemistry, 2012, 122, 775-788.	3.9	34
128	Neuroprotection from Tissue Inhibitor of Metalloproteinase-1 and its nanoparticles. Neurochemistry International, 2012, 61, 1065-1071.	3.8	32
129	Plasticity- and neurodegeneration-linked cyclic-AMP responsive element modulator/inducible cyclic-AMP early repressor messenger RNA expression in the rat brain. Neuroscience, 1998, 86, 499-510.	2.3	31
130	CD44 is expressed in non-myelinating Schwann cells of the adult rat, and may play a role in neurodegeneration-induced glial plasticity at the neuromuscular junction. Neurobiology of Disease, 2009, 34, 245-258.	4.4	31
131	Impaired rRNA synthesis triggers homeostatic responses in hippocampal neurons. Frontiers in Cellular Neuroscience, 2013, 7, 207.	3.7	31
132	Extracellular Matrix Modulation Is Driven by Experience-Dependent Plasticity During Stroke Recovery. Molecular Neurobiology, 2018, 55, 2196-2213.	4.0	31
133	Evaluation of mRNA expression of estrogen receptor Î² and its isoforms in human normal and neoplastic endometrium. International Journal of Cancer, 2004, 110, 783-787.	5.1	30
134	Delayed c-fos expression in sensory cortex following sexual learning in male rats. Molecular Brain Research, 1992, 14, 352-356.	2.3	29
135	Controlling complexity: the clinical relevance of mouse complex genetics. European Journal of Human Genetics, 2013, 21, 1191-1196.	2.8	29
136	A normal genetic variation modulates synaptic <scp>MMP</scp>â€9 protein levels and the severity of schizophrenia symptoms. EMBO Molecular Medicine, 2017, 9, 1100-1116.	6.9	29
137	Blocking c-Fos Expression Reveals the Role of Auditory Cortex Plasticity in Sound Frequency Discrimination Learning. Cerebral Cortex, 2018, 28, 1645-1655.	2.9	29
138	Elevated AP-1 transcription factor DNA binding activity at the onset of functional plasticity during development of rat sensory cortical areas. Molecular Brain Research, 1995, 33, 295-304.	2.3	28
139	Seizure related changes in the regulation of opioid genes and transcription factors in the dentate gyrus of rat hippocampus. Neuroscience, 1995, 68, 73-81.	2.3	28
140	AP-1 targets in the brain. Frontiers in Bioscience - Landmark, 2004, 9, 8.	3.0	28
141	Modulation of cell-cycle dynamics is required to regulate the number of cerebellar GABAergic interneurons and their rhythm of maturation. Development (Cambridge), 2011, 138, 3463-3472.	2.5	28
142	Amot and Yap1 regulate neuronal dendritic tree complexity and locomotor coordination in mice. PLoS Biology, 2019, 17, e3000253.	5.6	28
143	Regulation of cocaine-induced activator protein 1 transcription factors by the extracellular signal-regulated kinase pathway. Neuroscience, 2006, 137, 253-264.	2.3	27
144	Levels and size complexity of DNA polymerase Î² mRNA in rat regenerating liver and other organs. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1989, 1008, 203-207.	2.4	26

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145	Kainate-evoked secondary gene expression in the rat hippocampus. Neuroscience Letters, 1995, 185, 167-170.	2.1	26
146	Matrix metalloproteinaseâ€9 reversibly affects the time course of NMDAâ€induced currents in cultured rat hippocampal neurons. Hippocampus, 2010, 20, 1105-1108.	1.9	26
147	Cognitive Abilities of Alzheimers Disease Transgenic Mice are Modulated by Social Context and Circadian Rhythm. Current Alzheimer Research, 2011, 8, 883-892.	1.4	26
148	Long term potentiation affects intracellular metalloproteinases activity in the mossy fiber â€" CA3 pathway. Molecular and Cellular Neurosciences, 2012, 50, 147-159.	2.2	26
149	Proteolytic Remodeling of the Synaptic Cell Adhesion Molecules (CAMs) by Metzincins in Synaptic Plasticity. Neurochemical Research, 2013, 38, 1113-1121.	3.3	26
150	Effect of interleukin-2 on the expression of cell cycle genes in human T lymphocytes. Biochemical and Biophysical Research Communications, 1985, 133, 410-416.	2.1	25
151	Human adipose tissue stromal vascular fraction cells differentiate depending on distinct types of media. Cell Proliferation, 2008, 41, 441-459.	5.3	25
152	The regulation of G0-S transition in mouse T lymphocytes by polyamines. Experimental Cell Research, 1990, 191, 239-245.	2.6	24
153	Polyamine involvement in functional activation of human macrophages. Journal of Leukocyte Biology, 1992, 52, 585-587.	3.3	24
154	Robust induction of AP-1 transcription factor DNA binding activity in the hippocampus of aged rats. Neuroscience Letters, 1993, 153, 189-191.	2.1	24
155	Matrix metalloproteinase 9 regulates cell death following pilocarpine-induced seizures in the developing brain. Neurobiology of Disease, 2012, 48, 339-347.	4.4	24
156	Mice with ablated adult brain neurogenesis are not impaired in antidepressant response to chronic fluoxetine. Journal of Psychiatric Research, 2014, 56, 106-111.	3.1	24
157	Differential Seizure-Induced and Developmental Changes of Neurexin Expression. Molecular and Cellular Neurosciences, 1999, 13, 218-227.	2.2	23
158	Expression of c-Fos, Fos B, Jun B, and Zif268 transcription factor proteins in rat barrel cortex following apomorphine-evoked whisking behavior. Neuroscience, 2001, 106, 679-688.	2.3	23
159	Glycogen synthase kinase-3beta affects size of dentate gyrus and species-typical behavioral tasks in transgenic and knockout mice. Behavioural Brain Research, 2013, 248, 46-50.	2.2	23
160	Epigenetics of Epileptogenesis-Evoked Upregulation of Matrix Metalloproteinase-9 in Hippocampus. PLoS ONE, 2016, 11, e0159745.	2.5	23
161	Accumulation of ornithine decarboxylase mRNA accompanies activation of human and mouse monocytes/macrophages. FEBS Letters, 1990, 268, 32-34.	2.8	22
162	Pathophysiology of Trans-Synaptic Adhesion Molecules: Implications for Epilepsy. Frontiers in Cell and Developmental Biology, 2018, 6, 119.	3.7	22

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163	Cyclin D2 knockout mice with depleted adult neurogenesis learn Barnes maze task.. Behavioral Neuroscience, 2013, 127, 1-8.	1.2	21
164	Dextrorphan blocks long- but not short-term memory in a passive avoidance task in rats. European Journal of Pharmacology, 1991, 205, 109-111.	3.5	20
165	Orthovanadate induces cell death in rat dentate gyrus primary culture. NeuroReport, 1997, 8, 2465-2470.	1.2	20
166	Role of fosB in behaviours related to morphine reward and spatial memory. Behavioural Brain Research, 2008, 190, 212-217.	2.2	20
167	Epileptogenesis following Kainic Acid-Induced Status Epilepticus in Cyclin D2 Knock-Out Mice with Diminished Adult Neurogenesis. PLoS ONE, 2015, 10, e0128285.	2.5	20
168	MMP-9 Inhibitors in the Brain: Can Old Bullets Shoot New Targets?. Current Pharmaceutical Design, 2012, 19, 1085-1089.	1.9	20
169	Cycloheximide or puromycin can substitute for PDGF in inducing cellular DNA synthesis in quiescent 3T3 cells. Cell Biology International Reports, 1986, 10, 455-463.	0.6	19
170	Pharmacokinetics of antisense analogues in the central nervous system. Neurochemistry International, 1997, 31, 413-423.	3.8	19
171	Brain as a Unique Antisense Environment. Oligonucleotides, 1999, 9, 105-116.	4.3	19
172	Chapter VIII c-Fos in learning: beyond the mapping of neuronal activity. Handbook of Chemical Neuroanatomy, 2002, , 189-215.	0.3	19
173	MMP-9 Contributes to Dendritic Spine Remodeling Following Traumatic Brain Injury. Neural Plasticity, 2019, 2019, 1-12.	2.2	19
174	Defensive conditioning-related increase in AP-1 transcription factor in the rat cortex. Molecular Brain Research, 1999, 67, 64-73.	2.3	18
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