Tadeusz Wieloch

List of Publications by Citations

202 papers	13,465 citations	66 h-index	109 g-index
208 ext. papers	14,107 ext. citations	5.8 avg, IF	6.07 L-index

#	Paper	IF	Citations
202	Models for studying long-term recovery following forebrain ischemia in the rat. 2. A 2-vessel occlusion model. *Acta Neurologica Scandinavica*, **1984**, 69, 385-401	3.8	676
201	Uncoupling protein-2 prevents neuronal death and diminishes brain dysfunction after stroke and brain trauma. *Nature Medicine*, **2003**, 9, 1062-8	50.5	433
200	Calcium accumulation and neuronal damage in the rat hippocampus following cerebral ischemia. *Journal of Cerebral Blood Flow and Metabolism*, **1987**, 7, 89-95	7.3	344
199	Cyclosporin A, but not FK 506, protects mitochondria and neurons against hypoglycemic damage and implicates the mitochondrial permeability transition in cell death. *Journal of Neuroscience*, **1998**, 18, 5151-9	6.6	327
198	The distribution of hypoglycemic brain damage. *Acta Neuropathologica*, **1984**, 64, 177-91	14.3	327
197	Postischemic blockade of AMPA but not NMDA receptors mitigates neuronal damage in the rat brain following transient severe cerebral ischemia. *Journal of Cerebral Blood Flow and Metabolism*, **1992**, 12, 2-11	7.3	284
196	Novel pharmacologic strategies in the treatment of experimental traumatic brain injury: 1998. *Journal of Neurotrauma*, **1998**, 15, 731-69	5.4	275
195	Plasma fibronectin supports neuronal survival and reduces brain injury following transient focal cerebral ischemia but is not essential for skin-wound healing and hemostasis. *Nature Medicine*, **2001**, 7, 324-30	50.5	271
194	Mechanisms of neural plasticity following brain injury. *Current Opinion in Neurobiology*, **2006**, 16, 258-64	7.6	253
193	Ultrastructural changes in the hippocampal CA1 region following transient cerebral ischemia: evidence against programmed cell death. *Experimental Brain Research*, **1992**, 88, 91-105	2.3	250
192	Influence of acidosis on lipid peroxidation in brain tissues in vitro. *Journal of Cerebral Blood Flow and Metabolism*, **1985**, 5, 253-8	7.3	242
191	Evidence for amelioration of ischaemic neuronal damage in the hippocampal formation by lesions of the perforant path. *Neurological Research*, **1985**, 7, 24-6	2.7	229
190	Improving outcome after stroke: overcoming the translational roadblock. *Cerebrovascular Diseases*, **2008**, 25, 268-78	3.2	206
189	Neurochemical correlates to selective neuronal vulnerability. *Progress in Brain Research*, **1985**, 63, 69-85	2.9	201
188	Blockade of the mitochondrial permeability transition pore diminishes infarct size in the rat after transient middle cerebral artery occlusion. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 736-41	7.3	192
187	Moderate hypothermia mitigates neuronal damage in the rat brain when initiated several hours following transient cerebral ischemia. *Acta Neuropathologica*, **1994**, 87, 325-31	14.3	186
186	Mitochondrial permeability transition in acute neurodegeneration. *Biochimie*, **2002**, 84, 241-50	4.6	163

185	Mitochondrial damage and dysfunction in traumatic brain injury. *Mitochondrion*, **2004**, 4, 705-13	4.9	155
184	Regional selective neuronal degeneration after protein phosphatase inhibition in hippocampal slice cultures: evidence for a MAP kinase-dependent mechanism. *Journal of Neuroscience*, **1998**, 18, 7296-305	6.6	155
183	Chronic dexamethasone pretreatment aggravates ischemic neuronal necrosis. *Journal of Cerebral Blood Flow and Metabolism*, **1986**, 6, 395-404	7.3	155
182	Long-lasting neuroprotective effect of postischemic hypothermia and treatment with an anti-inflammatory/antipyretic drug. Evidence for chronic encephalopathic processes following ischemia. *Stroke*, **1996**, 27, 1578-85	6.7	155
181	Structural and functional damage sustained by mitochondria after traumatic brain injury in the rat: evidence for differentially sensitive populations in the cortex and hippocampus. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23, 219-31	7.3	141
180	Pharmacological stimulation of sigma-1 receptors has neurorestorative effects in experimental parkinsonism. *Brain*, **2014**, 137, 1998-2014	11.2	139
179	Tyrosine phosphorylation and activation of mitogen-activated protein kinase in the rat brain following transient cerebral ischemia. *Journal of Neurochemistry*, **1994**, 62, 1357-67	6	133
178	Hypothermia prevents the ischemia-induced translocation and inhibition of protein kinase C in the rat striatum. *Journal of Neurochemistry*, **1991**, 57, 1814-7	6	130
177	Activation of the extracellular signal-regulated protein kinase cascade in the hippocampal CA1 region in a rat model of global cerebral ischemic preconditioning. *Neuroscience*, **1999**, 93, 81-8	3.9	126
176	The sigma-1 receptor enhances brain plasticity and functional recovery after experimental stroke. *Brain*, **2011**, 134, 732-46	11.2	125
175	Changes in the activity of protein kinase C and the differential subcellular redistribution of its isozymes in the rat striatum during and following transient forebrain ischemia. *Journal of Neurochemistry*, **1991**, 56, 1227-35	6	124
174	Influence of severe hypoglycemia on brain extracellular calcium and potassium activities, energy, and phospholipid metabolism. *Journal of Neurochemistry*, **1984**, 43, 160-8	6	121
173	Flunarizine, a calcium entry blocker, ameliorates ischemic brain damage in the rat. *Anesthesiology*, **1986**, 64, 215-24	4.3	118
172	A simple in vitro model of ischemia based on hippocampal slice cultures and propidium iodide fluorescence. *Brain Research Protocols*, **1999**, 4, 173-84		117
171	Cerebral ischemia upregulates vascular endothelin ET(B) receptors in rat. *Stroke*, **2002**, 33, 2311-6	6.7	115
170	Ischemic brain damage in rats following cardiac arrest using a long-term recovery model. *Journal of Cerebral Blood Flow and Metabolism*, **1985**, 5, 420-31	7.3	111
169	Powerful cyclosporin inhibition of calcium-induced permeability transition in brain mitochondria. *Brain Research*, **2003**, 960, 99-111	3.7	107
168	Differences in the activation of the mitochondrial permeability transition among brain regions in the rat correlate with selective vulnerability. *Journal of Neurochemistry*, **1999**, 72, 2488-97	6	106

167	Cerebral extracellular calcium activity in severe hypoglycemia: relation to extracellular potassium and energy state. *Journal of Cerebral Blood Flow and Metabolism*, **1984**, 4, 187-93	7.3	101
166	Lesions of the glutamatergic cortico-striatal projections in the rat ameliorate hypoglycemic brain damage in the striatum. *Neuroscience Letters*, **1985**, 58, 25-30	3.3	100
165	Intracerebral Microdialysis of Glutamate and Aspartate Two Vascular Territories after Aneurysmal Subarachnoid Hemorrhage. *Neurosurgery*, **1996**, 38, 12-20	3.2	97
164	Cortical spreading depression is associated with arachidonic acid accumulation and preservation of energy charge. *Journal of Cerebral Blood Flow and Metabolism*, **1990**, 10, 115-22	7.3	97
163	The dentate gyrus in hypoglycemia: pathology implicating excitotoxin-mediated neuronal necrosis. *Acta Neuropathologica*, **1985**, 67, 279-88	14.3	97
162	Circulating catecholamines modulate ischemic brain damage. *Journal of Cerebral Blood Flow and Metabolism*, **1986**, 6, 559-65	7.3	96
161	Lesions of the locus coeruleus system aggravate ischemic damage in the rat brain. *Neuroscience Letters*, **1985**, 58, 353-8	3.3	95
160	Impairment of protein ubiquitination may cause delayed neuronal death. *Neuroscience Letters*, **1989**, 96, 264-70	3.3	93
159	Evidence for a pancreatic pro-colipase and its activation by trypsin. *FEBS Letters*, **1979**, 108, 407-10	3.8	93
158	Time course of the translocation and inhibition of protein kinase C during complete cerebral ischemia in the rat. *Journal of Neurochemistry*, **1993**, 61, 1308-14	6	92
157	Cyclosporin A and its nonimmunosuppressive analogue N-Me-Val-4-cyclosporin A mitigate glucose/oxygen deprivation-induced damage to rat cultured hippocampal neurons. *European Journal of Neuroscience*, **1999**, 11, 3194-8	3.5	91
156	Protein kinase C is translocated to cell membranes during cerebral ischemia. *Neuroscience Letters*, **1990**, 119, 228-32	3.3	91
155	Neuroprotective and behavioral efficacy of nerve growth factor-transfected hippocampal progenitor cell transplants after experimental traumatic brain injury. *Journal of Neurosurgery*, **2001**, 94, 765-74	3.2	89
154	NMDA-receptor blockers but not NBQX, an AMPA-receptor antagonist, inhibit spreading depression in the rat brain. *Acta Physiologica Scandinavica*, **1992**, 146, 497-503		89
153	Death-associated protein kinase is activated by dephosphorylation in response to cerebral ischemia. *Journal of Biological Chemistry*, **2005**, 280, 42290-9	5.4	86
152	Activation of p53 and its target genes p21(WAF1/Cip1) and PAG608/Wig-1 in ischemic preconditioning. *Molecular Brain Research*, **1999**, 70, 304-13		85
151	Protection against ischemia-induced neuronal damage by the alpha 2-adrenoceptor antagonist idazoxan: influence of time of administration and possible mechanisms of action. *Journal of Cerebral Blood Flow and Metabolism*, **1990**, 10, 885-94	7.3	83
150	Oxidative stress, mitochondrial permeability transition and activation of caspases in calcium ionophore A23187-induced death of cultured striatal neurons. *Brain Research*, **2000**, 857, 20-9	3.7	81

149	Diminished neuronal damage in the rat brain by late treatment with the antipyretic drug dipyrone or cooling following cerebral ischemia. *Acta Neuropathologica*, **1996**, 92, 447-53	14.3	81
148	Changes in protein tyrosine phosphorylation in the rat brain after cerebral ischemia in a model of ischemic tolerance. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 173-83	7.3	80
147	Inhibition of CXCL12 signaling attenuates the postischemic immune response and improves functional recovery after stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 1225-34	7.3	79
146	Flow cytometric analysis of mitochondria from CA1 and CA3 regions of rat hippocampus reveals differences in permeability transition pore activation. *Journal of Neurochemistry*, **2003**, 87, 532-44	6	79
145	Cyclosporin A prevents calpain activation despite increased intracellular calcium concentrations, as well as translocation of apoptosis-inducing factor, cytochrome c and caspase-3 activation in neurons exposed to transient hypoglycemia. *Journal of Neurochemistry*, **2003**, 85, 1431-42	6	78
144	Regional differences in arachidonic acid release in rat hippocampal CA1 and CA3 regions during cerebral ischemia. *Journal of Cerebral Blood Flow and Metabolism*, **1987**, 7, 189-92	7.3	78
143	Brain damage in a mouse model of global cerebral ischemia. Effect of NMDA receptor blockade. *Brain Research*, **2003**, 982, 260-9	3.7	76
142	The involvement of the sigma-1 receptor in neurodegeneration and neurorestoration. *Journal of Pharmacological Sciences*, **2015**, 127, 30-5	3.7	74
141	Can diffusion kurtosis imaging improve the sensitivity and specificity of detecting microstructural alterations in brain tissue chronically after experimental stroke? Comparisons with diffusion tensor imaging and histology. *NeuroImage*, **2014**, 97, 363-73	7.9	73
140	Excitatory amino acid receptors and ischemic brain damage in the rat. *Neuroscience Letters*, **1987**, 73, 119-24	3.3	70
139	Excitotoxicity downregulates TrkB.FL signaling and upregulates the neuroprotective truncated TrkB receptors in cultured hippocampal and striatal neurons. *Journal of Neuroscience*, **2012**, 32, 4610-22	6.6	69
138	Comprehensive regional and temporal gene expression profiling of the rat brain during the first 24 h after experimental stroke identifies dynamic ischemia-induced gene expression patterns, and reveals a biphasic activation of genes in surviving tissue. *Journal of Neurochemistry*, **2006**, 96, 14-29	6	69
137	Biphasic expression of the fos and jun families of transcription factors following transient forebrain ischaemia in the rat. Effect of hypothermia. *European Journal of Neuroscience*, **1995**, 7, 2007-16	3.5	68
136	Mouse hippocampal organotypic tissue cultures exposed to in vitro "ischemia" show selective and delayed CA1 damage that is aggravated by glucose. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23, 23-33	7.3	66
135	Intranasal selective brain cooling in pigs. *Resuscitation*, **2008**, 76, 83-8	4	65
134	Hypothermia ameliorates neuronal survival when induced 2 hours after ischaemia in the rat. *Acta Physiologica Scandinavica*, **1992**, 146, 543-4		61
133	Amelioration of ischaemic brain damage by postischaemic treatment with flunarizine. *Neurological Research*, **1985**, 7, 27-9	2.7	61
132	Enriched environment enhances recovery of motor function after focal ischemia in mice, and downregulates the transcription factor NGFI-A. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, 1625-33	7.3	60

131	Effect of insulin-induced hypoglycemia on the concentrations of glutamate and related amino acids and energy metabolites in the intact and decorticated rat neostriatum. *Journal of Neurochemistry*, **1986**, 47, 1634-41	6	60
130	Pyruvate dehydrogenase activity in the rat cerebral cortex following cerebral ischemia. *Journal of Cerebral Blood Flow and Metabolism*, **1989**, 9, 350-7	7.3	59
129	Overexpression of UCP2 protects thalamic neurons following global ischemia in the mouse. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 1186-95	7.3	56
128	Rapid and long-term induction of effector immediate early genes (BDNF, Neuritin and Arc) in peri-infarct cortex and dentate gyrus after ischemic injury in rat brain. *Brain Research*, **2007**, 1151, 203-10	3.7	56
127	Mitochondrial permeability transition induced DNA-fragmentation in the rat hippocampus following hypoglycemia. *Neuroscience*, **1999**, 90, 1325-38	3.9	56
126	Enriched environment attenuates cell genesis in subventricular zone after focal ischemia in mice and decreases migration of newborn cells to the striatum. *Stroke*, **2006**, 37, 2824-9	6.7	55
125	Persistent translocation of Ca2+/calmodulin-dependent protein kinase II to synaptic junctions in the vulnerable hippocampal CA1 region following transient ischemia. *Journal of Neurochemistry*, **1995**, 64, 277-84	6	54
124	Cellular and molecular events underlying epileptic brain damage. *Annals of the New York Academy of Sciences*, **1986**, 462, 207-23	6.5	54
123	Aggregation, aggregate composition, and dynamics in aqueous sodium cholate solutions. *Journal of Colloid and Interface Science*, **1980**, 73, 556-565	9.3	54
122	Mitochondrial oxidative stress after global brain ischemia in rats. *Neuroscience Letters*, **2002**, 334, 111-4	3.3	53
121	Lack of protection by the N-methyl-D-aspartate receptor blocker dizocilpine (MK-801) after transient severe cerebral ischemia in the rat. *Anesthesiology*, **1991**, 75, 279-287	4.3	53
120	Structural and Functional Damage Sustained by Mitochondria After Traumatic Brain Injury in the Rat: Evidence for Differentially Sensitive Populations in the Cortex and Hippocampus. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 219-231	7.3	53
119	Postischaemic changes in protein synthesis in the rat brain: effects of hypothermia. *Experimental Brain Research*, **1993**, 95, 91-9	2.3	52
118	Enriched housing enhances recovery of limb placement ability and reduces aggrecan-containing perineuronal nets in the rat somatosensory cortex after experimental stroke. *PLoS ONE*, **2014**, 9, e93121	3.7	50
117	The tumor suppressor p53 and its response gene p21WAF1/Cip1 are not markers of neuronal death following transient global cerebral ischemia. *Neuroscience*, **1999**, 90, 781-92	3.9	49
116	Alterations of Ca2+/calmodulin-dependent protein kinase II and its messenger RNA in the rat hippocampus following normo- and hypothermic ischemia. *Neuroscience*, **1995**, 68, 1003-16	3.9	49
115	Cerebral protection by AMPA- and NMDA-receptor antagonists administered after severe insulin-induced hypoglycemia. *Experimental Brain Research*, **1992**, 92, 259-66	2.3	49
114	Npas4, a novel helix-loop-helix PAS domain protein, is regulated in response to cerebral ischemia. *European Journal of Neuroscience*, **2006**, 24, 2705-20	3.5	48

113	Glucose but not lactate in combination with acidosis aggravates ischemic neuronal death in vitro. *Stroke*, **2004**, 35, 753-7	6.7	47
112	Deletion of the adenosine A1 receptor gene does not alter neuronal damage following ischaemia in vivo or in vitro. *European Journal of Neuroscience*, **2004**, 20, 1197-204	3.5	47
111	gamma-Aminobutyric acid and taurine release in the striatum of the rat during hypoglycemic coma, studied by microdialysis. *Neuroscience Letters*, **1985**, 62, 231-5	3.3	47
110	Levodopa treatment improves functional recovery after experimental stroke. *Stroke*, **2012**, 43, 507-13	6.7	45
109	Mineralocorticoid receptor expression and increased survival following neuronal injury. *European Journal of Neuroscience*, **2003**, 17, 1549-55	3.5	45
108	Infusion of prostacyclin following experimental brain injury in the rat reduces cortical lesion volume. *Journal of Neurotrauma*, **2001**, 18, 275-85	5.4	45
107	The effect of isoflurane on neuronal necrosis following near-complete forebrain ischemia in the rat. *Anesthesiology*, **1986**, 64, 19-23	4.3	45
106	Changes in insulin-like growth factor 1 receptor density after transient cerebral ischemia in the rat. Lack of protection against ischemic brain damage following injection of insulin-like growth factor 1. *Journal of Cerebral Blood Flow and Metabolism*, **1993**, 13, 895-8	7.3	43
105	Enriched environment reduces apolipoprotein E (ApoE) in reactive astrocytes and attenuates inflammation of the peri-infarct tissue after experimental stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 1796-805	7.3	42
104	The effect of hypothermia on the expression of neurotrophin mRNA in the hippocampus following transient cerebral ischemia in the rat. *Molecular Brain Research*, **1998**, 63, 163-73		42
103	Apolipoprotein D is elevated in oligodendrocytes in the peri-infarct region after experimental stroke: influence of enriched environment. *Journal of Cerebral Blood Flow and Metabolism*, **2008**, 28, 551-62	7.3	41
102	Actin redistribution underlies the sparing effect of mild hypothermia on dendritic spine morphology after in vitro ischemia. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, 1346-55	7.3	41
101	The rotating pole test: evaluation of its effectiveness in assessing functional motor deficits following experimental head injury in the rat. *Journal of Neuroscience Methods*, **2000**, 95, 75-82	3	41
100	Multisensory stimulation improves functional recovery and resting-state functional connectivity in the mouse brain after stroke. *NeuroImage: Clinical*, **2018**, 17, 717-730	5.3	39
99	Changes in proliferating cell nuclear antigen, a protein involved in DNA repair, in vulnerable hippocampal neurons following global cerebral ischemia. *Molecular Brain Research*, **1998**, 60, 168-76		39
98	Sublethal in vitro glucose-oxygen deprivation protects cultured hippocampal neurons against a subsequent severe insult. *NeuroReport*, **1998**, 9, 1273-6	1.7	39
97	Extracellular brain cortical levels of noradrenaline in ischemia: effects of desipramine and postischemic administration of idazoxan. *Experimental Brain Research*, **1991**, 86, 555-61	2.3	39
96	Cyclic AMP concentrations in rat neocortex and hippocampus during and following incomplete ischemia: effects of central noradrenergic neurons, prostaglandins, and adenosine. *Journal of Neurochemistry*, **1985**, 44, 1345-53	6	39

95	Cleavage of the vesicular GABA transporter under excitotoxic conditions is followed by accumulation of the truncated transporter in nonsynaptic sites. *Journal of Neuroscience*, **2011**, 31, 4622-35	6.6	38
94	Influence of MK-801 on brain extracellular calcium and potassium activities in severe hypoglycemia. *Journal of Cerebral Blood Flow and Metabolism*, **1990**, 10, 136-9	7.3	38
93	Effects of the sigma-1 receptor agonist 1-(3,4-dimethoxyphenethyl)-4-(3-phenylpropyl)-piperazine dihydro-chloride on inflammation after stroke. *PLoS ONE*, **2012**, 7, e45118	3.7	37
92	Gene deletion of cystatin C aggravates brain damage following focal ischemia but mitigates the neuronal injury after global ischemia in the mouse. *Neuroscience*, **2004**, 128, 65-71	3.9	37
91	The time-course of DNA fragmentation in the choroid plexus and the CA1 region following transient global ischemia in the rat brain. The effect of intra-ischemic hypothermia. *Neuroscience*, **1999**, 93, 537-49	3.9	37
90	Subcellular distribution and autophosphorylation of calcium/calmodulin-dependent protein kinase II-alpha in rat hippocampus in a model of ischemic tolerance. *Neuroscience*, **2000**, 96, 665-74	3.9	35
89	Adrenoceptor activation depresses brain inflammation and is neuroprotective in lipopolysaccharide-induced sensitization to oxygen-glucose deprivation in organotypic hippocampal slices. *Journal of Neuroinflammation*, **2010**, 7, 94	10.1	34
88	Decreased expression of brain-derived neurotrophic factor in BDNF(+/-) mice is associated with enhanced recovery of motor performance and increased neuroblast number following experimental stroke. *Journal of Neuroscience Research*, **2006**, 84, 626-31	4.4	34
87	Mouse Hippocampal Organotypic Tissue Cultures Exposed to In Vitro ???Ischemia??? Show Selective and Delayed CA1 Damage That Is Aggravated by Glucose. *Journal of Cerebral Blood Flow and Metabolism*, **2003**, 23-33	7.3	34
86	Rho kinase inhibition protects CA1 cells in organotypic hippocampal slices during in vitro ischemia. *Brain Research*, **2010**, 1316, 92-100	3.7	33
85	Protein kinase C-gamma and calcium/calmodulin-dependent protein kinase II-alpha are persistently translocated to cell membranes of the rat brain during and after middle cerebral artery occlusion. *Journal of Cerebral Blood Flow and Metabolism*, **2004**, 24, 54-61	7.3	33
84	Lack of neuroprotection by heat shock protein 70 overexpression in a mouse model of global cerebral ischemia. *Experimental Brain Research*, **2004**, 154, 442-9	2.3	32
83	High-resolution proton magnetic resonance study of porcine colipase and its interactions with taurodeoxycholate. *Biochemistry*, **1979**, 18, 1622-8	3.2	32
82	Dopamine receptor activation increases glial cell line-derived neurotrophic factor in experimental stroke. *Experimental Neurology*, **2013**, 247, 202-8	5.7	31
81	GABA(A) receptor dephosphorylation followed by internalization is coupled to neuronal death in in vitro ischemia. *Neurobiology of Disease*, **2014**, 65, 220-32	7.5	30
80	Treatment with AMD3100 attenuates the microglial response and improves outcome after experimental stroke. *Journal of Neuroinflammation*, **2015**, 12, 24	10.1	29
79	Initiation of protein synthesis and heat-shock protein-72 expression in the rat brain following severe insulin-induced hypoglycemia. *Acta Neuropathologica*, **1993**, 86, 145-53	14.3	29
78	Calcium binding to porcine pancreatic prophospholipase A2 studied by 43Ca NMR. *FEBS Letters*, **1981**, 123, 115-7	3.8	29

77	Enriched housing down-regulates the Toll-like receptor 2 response in the mouse brain after experimental stroke. *Neurobiology of Disease*, **2014**, 66, 66-73	7.5	27
76	Changes in the extracellular levels of glutamate and aspartate during ischemia and hypoglycemia. Effects of hypothermia. *Experimental Brain Research*, **1998**, 121, 277-84	2.3	27
75	Gephyrin Cleavage in In Vitro Brain Ischemia Decreases GABAA Receptor Clustering and Contributes to Neuronal Death. *Molecular Neurobiology*, **2016**, 53, 3513-3527	6.2	26
74	An NMR study of a tyrosine and two histidine residues in the structure of porcine pancreatic colipase. *FEBS Letters*, **1978**, 85, 271-4	3.8	26
73	Increased survival of embryonic nigral neurons when grafted to hypothermic rats. *NeuroReport*, **2000**, 11, 1665-8	1.7	25
72	Calcium ion binding to pancreatic phospholipase A2 and its zymogen: a 43Ca NMR study. *Biochemistry*, **1984**, 23, 2387-92	3.2	25
71	Porcine pancreatic procolipase and its trypsin-activated form: lipid binding and lipase activation on monomolecular films. *FEBS Letters*, **1981**, 128, 217-20	3.8	24
70	Enriched environment downregulates macrophage migration inhibitory factor and increases parvalbumin in the brain following experimental stroke. *Neurobiology of Disease*, **2011**, 41, 270-8	7.5	23
69	Rapid decline in protein kinase Cgamma levels in the synaptosomal fraction of rat hippocampus after ischemic preconditioning. *NeuroReport*, **1999**, 10, 931-5	1.7	23
68	Protein phosphorylation and the regulation of mRNA translation following cerebral ischemia. *Progress in Brain Research*, **1993**, 96, 179-91	2.9	23
67	Preischemic hyperglycemia and postischemic alteration of rat brain pyruvate dehydrogenase activity. *Journal of Cerebral Blood Flow and Metabolism*, **1990**, 10, 536-41	7.3	23
66	Extracellular Matrix Modulation Is Driven by Experience-Dependent Plasticity During Stroke Recovery. *Molecular Neurobiology*, **2018**, 55, 2196-2213	6.2	22
65	Induction of junD mRNA after transient forebrain ischemia in the rat. Effect of hypothermia. *Molecular Brain Research*, **1996**, 43, 51-6		22
64	Casein kinase II activity in the postischemic rat brain increases in brain regions resistant to ischemia and decreases in vulnerable areas. *Journal of Neurochemistry*, **1993**, 60, 1722-8	6	22
63	Protective effect of lesion to the glutamatergic cortico-striatal projections on the hypoglycemic nerve cell injury in rat striatum. *Acta Neuropathologica*, **1987**, 74, 335-44	14.3	22
62	Tumor necrosis factor receptor-1 is essential for LPS-induced sensitization and tolerance to oxygen-glucose deprivation in murine neonatal organotypic hippocampal slices. *Journal of Cerebral Blood Flow and Metabolism*, **2009**, 29, 73-86	7.3	21
61	Post-ischemic continuous infusion of erythropoeitin enhances recovery of lost memory function after global cerebral ischemia in the rat. *BMC Neuroscience*, **2013**, 14, 27	3.2	20
60	Report of a consensus meeting on human brain temperature after severe traumatic brain injury: its measurement and management during pyrexia. *Frontiers in Neurology*, **2010**, 1, 146	4.1	20

59	Mitochondrial involvement in acute neurodegeneration. *IUBMB Life*, **2001**, 52, 247-54	4.7	20
58	Acidosis enhances translocation of protein kinase C but not Ca(2+)/calmodulin-dependent protein kinase II to cell membranes during complete cerebral ischemia. *Brain Research*, **1999**, 849, 119-27	3.7	20
57	Noradrenaline metabolism in neocortex and hippocampus following transient forebrain ischemia in rats: relation to development of selective neuronal necrosis. *Journal of Neurochemistry*, **1989**, 53, 408-15	6	20
56	The asparaginyl endopeptidase legumain after experimental stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2010**, 30, 1756-66	7.3	19
55	Restricted clinical efficacy of cyclosporin A on rat transient middle cerebral artery occlusion. *Life Sciences*, **2002**, 72, 591-600	6.8	19
54	Lesions to the corticostriatal pathways ameliorate hypoglycemia-induced arachidonic acid release. *Journal of Neurochemistry*, **1986**, 47, 1507-11	6	18
53	Cleavage of the vesicular glutamate transporters under excitotoxic conditions. *Neurobiology of Disease*, **2011**, 44, 292-303	7.5	17
52	Delayed neuromotor recovery and increased memory acquisition dysfunction following experimental brain trauma in mice lacking the DNA repair gene XPA. *Journal of Neurosurgery*, **2012**, 116, 1368-78	3.2	17
51	Combining neuroprotective treatment of embryonic nigral donor tissue with mild hypothermia of the graft recipient. *Cell Transplantation*, **2005**, 14, 301-9	4	17
50	The temperature dependence and involvement of mitochondria permeability transition and caspase activation in damage to organotypic hippocampal slices following in vitro ischemia. *Journal of Neurochemistry*, **2005**, 95, 1108-17	6	17
49	Selective sparing of hippocampal CA3 cells following in vitro ischemia is due to selective inhibition by acidosis. *European Journal of Neuroscience*, **2005**, 22, 310-6	3.5	17
48	The effect of alpha-phenyl-tert-butyl nitrone (PBN) on free radical formation in transient focal ischaemia measured by microdialysis and 3,4-dihydroxybenzoate formation. *Acta Physiologica Scandinavica*, **2000**, 168, 277-85		17
47	Ischemia-induced upregulation of excitatory amino acid transport sites. *Brain Research*, **1993**, 622, 93-8	3.7	17
46	Delayed postischemic hypoperfusion: evidence against involvement of the noradrenergic locus ceruleus system. *Journal of Cerebral Blood Flow and Metabolism*, **1984**, 4, 425-9	7.3	17
45	Persistent phosphorylation of synaptic proteins following middle cerebral artery occlusion. *Journal of Cerebral Blood Flow and Metabolism*, **2002**, 22, 1107-13	7.3	16
44	Depression of neuronal protein synthesis initiation by protein tyrosine kinase inhibitors. *Journal of Neurochemistry*, **1993**, 61, 1789-94	6	16
43	Hyperglycemia and hypercapnia differently affect post-ischemic changes in protein kinases and protein phosphorylation in the rat cingulate cortex. *Brain Research*, **2004**, 995, 218-25	3.7	14
42	Triiodothyronine modulates neuronal plasticity mechanisms to enhance functional outcome after stroke. *Acta Neuropathologica Communications*, **2019**, 7, 216	7.3	14

41	GISCOME - Genetics of Ischaemic Stroke Functional Outcome network: A protocol for an international multicentre genetic association study. *European Stroke Journal*, **2017**, 2, 229-237	5.6	13
40	Changes in resting-state functional connectivity after stroke in a mouse brain lacking extracellular matrix components. *Neurobiology of Disease*, **2018**, 112, 91-105	7.5	13
39	CXC chemokine receptor 1 deficiency modulates microglia morphology but does not affect lesion size and short-term deficits after experimental stroke. *BMC Neuroscience*, **2017**, 18, 11	3.2	13
38	Persistent translocation and inhibition of Ca2+/calmodulin-dependent protein kinase II in the crude synaptosomal fraction of the vulnerable hippocampus following hypoglycemia. *Journal of Neurochemistry*, **1995**, 64, 1361-9	6	13
37	Neuronal damage in the striatum following forebrain ischemia: lack of effect of selective lesions of mesostriatal dopamine neurons. *Experimental Brain Research*, **1990**, 83, 159-63	2.3	13
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