

In-Koo Hwang

List of Publications by Citations

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

291
papers

4,568
citations

35
h-index

46
g-index

294
ext. papers

5,152
ext. citations

3.9
avg, IF

4.95
L-index

#	Paper	IF	Citations
291	In vivo protein transduction: biologically active intact pep-1-superoxide dismutase fusion protein efficiently protects against ischemic insult. <i>Free Radical Biology and Medicine</i> , 2004 , 37, 1656-69	7.8	104
290	Melatonin improves D-galactose-induced aging effects on behavior, neurogenesis, and lipid peroxidation in the mouse dentate gyrus via increasing pCREB expression. <i>Journal of Pineal Research</i> , 2012 , 52, 21-8	10.4	96
289	Indole-3-propionic acid attenuates neuronal damage and oxidative stress in the ischemic hippocampus. <i>Journal of Neuroscience Research</i> , 2009 , 87, 2126-37	4.4	91
288	Pre- and post-treatments with escitalopram protect against experimental ischemic neuronal damage via regulation of BDNF expression and oxidative stress. <i>Experimental Neurology</i> , 2011 , 229, 450-9	5.7	73
287	Effects of curcumin (<i>Curcuma longa</i>) on learning and spatial memory as well as cell proliferation and neuroblast differentiation in adult and aged mice by upregulating brain-derived neurotrophic factor and CREB signaling. <i>Journal of Medicinal Food</i> , 2014 , 17, 641-9	2.8	64
286	Ionized calcium-binding adapter molecule 1 immunoreactive cells change in the gerbil hippocampal CA1 region after ischemia/reperfusion. <i>Neurochemical Research</i> , 2006 , 31, 957-65	4.6	64
285	Effects of fluoxetine on ischemic cells and expressions in BDNF and some antioxidants in the gerbil hippocampal CA1 region induced by transient ischemia. <i>Experimental Neurology</i> , 2007 , 204, 748-58	5.7	61
284	Anti-inflammatory effect of tanshinone I in neuroprotection against cerebral ischemia-reperfusion injury in the gerbil hippocampus. <i>Neurochemical Research</i> , 2014 , 39, 1300-12	4.6	59
283	Systemic administration of lipopolysaccharide induces cyclooxygenase-2 immunoreactivity in endothelium and increases microglia in the mouse hippocampus. <i>Cellular and Molecular Neurobiology</i> , 2010 , 30, 531-41	4.6	58
282	Neuroprotective effects of grape seed extract on neuronal injury by inhibiting DNA damage in the gerbil hippocampus after transient forebrain ischemia. <i>Life Sciences</i> , 2004 , 75, 1989-2001	6.8	57
281	Effects of treadmill exercise on cell proliferation and differentiation in the subgranular zone of the dentate gyrus in a rat model of type II diabetes. <i>Neurochemical Research</i> , 2009 , 34, 1039-46	4.6	54
280	Copper chaperone for Cu,Zn-SOD supplement potentiates the Cu,Zn-SOD function of neuroprotective effects against ischemic neuronal damage in the gerbil hippocampus. <i>Free Radical Biology and Medicine</i> , 2005 , 39, 392-402	7.8	53
279	Changes in the expression of mitochondrial peroxiredoxin and thioredoxin in neurons and glia and their protective effects in experimental cerebral ischemic damage. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1242-51	7.8	52
278	Strain-specific differences in cell proliferation and differentiation in the dentate gyrus of C57BL/6N and C3H/HeN mice fed a high fat diet. <i>Brain Research</i> , 2008 , 1241, 1-6	3.7	50
277	Sac-1004, a vascular leakage blocker, reduces cerebral ischemia-reperfusion injury by suppressing blood-brain barrier disruption and inflammation. <i>Journal of Neuroinflammation</i> , 2017 , 14, 122	10.1	49
276	Activation of microglia and induction of pro-inflammatory cytokines in the hippocampus of type 2 diabetic rats. <i>Neurological Research</i> , 2014 , 36, 824-32	2.7	48
275	Neuroprotective effects of roasted licorice, not raw form, on neuronal injury in gerbil hippocampus after transient forebrain ischemia. <i>Acta Pharmacologica Sinica</i> , 2006 , 27, 959-65	8	48

274	High glucose upregulates BACE1-mediated A β production through ROS-dependent HIF-1 α and LXR/ABCA1-regulated lipid raft reorganization in SK-N-MC cells. <i>Scientific Reports</i> , 2016 , 6, 36746	4.9	46
273	Neuroprotective effects of onion extract and quercetin against ischemic neuronal damage in the gerbil hippocampus. <i>Journal of Medicinal Food</i> , 2009 , 12, 990-5	2.8	46
272	Maintenance of anti-inflammatory cytokines and reduction of glial activation in the ischemic hippocampal CA1 region preconditioned with lipopolysaccharide. <i>Journal of the Neurological Sciences</i> , 2010 , 296, 69-78	3.2	45
271	Effects of luteolin on spatial memory, cell proliferation, and neuroblast differentiation in the hippocampal dentate gyrus in a scopolamine-induced amnesia model. <i>Neurological Research</i> , 2013 , 35, 813-20	2.7	44
270	Time course of changes in pyridoxal 5-phosphate (vitamin B6 active form) and its neuroprotection in experimental ischemic damage. <i>Experimental Neurology</i> , 2007 , 206, 114-25	5.7	44
269	Melatonin's protective action against ischemic neuronal damage is associated with up-regulation of the MT2 melatonin receptor. <i>Journal of Neuroscience Research</i> , 2010 , 88, 2630-40	4.4	43
268	Long-Term Exercise Improves Memory Deficits via Restoration of Myelin and Microvessel Damage, and Enhancement of Neurogenesis in the Aged Gerbil Hippocampus After Ischemic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2016 , 30, 894-905	4.7	43
267	Neuronal damage is much delayed and microgliosis is more severe in the aged hippocampus induced by transient cerebral ischemia compared to the adult hippocampus. <i>Journal of the Neurological Sciences</i> , 2010 , 294, 1-6	3.2	42
266	Expression and changes of endogenous insulin-like growth factor-1 in neurons and glia in the gerbil hippocampus and dentate gyrus after ischemic insult. <i>Neurochemistry International</i> , 2004 , 45, 149-56	4.4	40
265	Correlations between neuronal loss, decrease of memory, and decrease expression of brain-derived neurotrophic factor in the gerbil hippocampus during normal aging. <i>Experimental Neurology</i> , 2006 , 201, 75-83	5.7	39
264	Mineralocorticoid and glucocorticoid receptor expressions in astrocytes and microglia in the gerbil hippocampal CA1 region after ischemic insult. <i>Neuroscience Research</i> , 2006 , 54, 319-27	2.9	39
263	Chronic type 2 diabetes reduces the integrity of the blood-brain barrier by reducing tight junction proteins in the hippocampus. <i>Journal of Veterinary Medical Science</i> , 2016 , 78, 957-62	1.1	38
262	Pretreated fucoidan confers neuroprotection against transient global cerebral ischemic injury in the gerbil hippocampal CA1 area via reducing of glial cell activation and oxidative stress. <i>Biomedicine and Pharmacotherapy</i> , 2019 , 109, 1718-1727	7.5	37
261	Neuroprotection of ebselen against ischemia/reperfusion injury involves GABA shunt enzymes. <i>Journal of the Neurological Sciences</i> , 2009 , 285, 88-94	3.2	36
260	Effects of electroacupuncture at Zusanli and Baihui on brain-derived neurotrophic factor and cyclic AMP response element-binding protein in the hippocampal dentate gyrus. <i>Journal of Veterinary Medical Science</i> , 2010 , 72, 1431-6	1.1	36
259	A Phytochemically characterized extract of <i>Cordyceps militaris</i> and cordycepin protect hippocampal neurons from ischemic injury in gerbils. <i>Planta Medica</i> , 2008 , 74, 114-9	3.1	36
258	Differences in doublecortin immunoreactivity and protein levels in the hippocampal dentate gyrus between adult and aged dogs. <i>Neurochemical Research</i> , 2007 , 32, 1604-9	4.6	36
257	Reduced hippocampal cell differentiation in the subgranular zone of the dentate gyrus in a rat model of type II diabetes. <i>Neurochemical Research</i> , 2008 , 33, 394-400	4.6	36

256	Antioxidant effects of <i>Dendropanax morbifera</i> L'Veille extract in the hippocampus of mercury-exposed rats. <i>BMC Complementary and Alternative Medicine</i> , 2015 , 15, 247	4.7	35
255	Neuroprotective effects of adipose-derived stem cells against ischemic neuronal damage in the rabbit spinal cord. <i>Journal of the Neurological Sciences</i> , 2012 , 317, 40-6	3.2	35
254	Transduced Tat-SAG fusion protein protects against oxidative stress and brain ischemic insult. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 969-77	7.8	35
253	New GABAergic Neurogenesis in the Hippocampal CA1 Region of a Gerbil Model of Long-Term Survival after Transient Cerebral Ischemic Injury. <i>Brain Pathology</i> , 2016 , 26, 581-92	6	35
252	Ischemic preconditioning protects hippocampal pyramidal neurons from transient ischemic injury via the attenuation of oxidative damage through upregulating heme oxygenase-1. <i>Free Radical Biology and Medicine</i> , 2015 , 79, 78-90	7.8	34
251	Valeriana officinalis extract and its main component, valerenic acid, ameliorate D-galactose-induced reductions in memory, cell proliferation, and neuroblast differentiation by reducing corticosterone levels and lipid peroxidation. <i>Experimental Gerontology</i> , 2013 , 48, 1369-77	4.5	32
250	Age-related changes in ionized calcium-binding adapter molecule 1 immunoreactivity and protein level in the gerbil hippocampal CA1 region. <i>Journal of Veterinary Medical Science</i> , 2007 , 69, 1131-6	1.1	31
249	Effects of <i>Melissa officinalis</i> L. (lemon balm) extract on neurogenesis associated with serum corticosterone and GABA in the mouse dentate gyrus. <i>Neurochemical Research</i> , 2011 , 36, 250-7	4.6	30
248	Synergistic effects of sodium butyrate, a histone deacetylase inhibitor, on increase of neurogenesis induced by pyridoxine and increase of neural proliferation in the mouse dentate gyrus. <i>Neurochemical Research</i> , 2011 , 36, 1850-7	4.6	30
247	Comparing the effects of acupuncture and electroacupuncture at Zusanli and Baihui on cell proliferation and neuroblast differentiation in the rat hippocampus. <i>Journal of Veterinary Medical Science</i> , 2010 , 72, 279-84	1.1	30
246	Sodium butyrate, a histone deacetylase Inhibitor, ameliorates SIRT2-induced memory impairment, reduction of cell proliferation, and neuroblast differentiation in the dentate gyrus. <i>Neurological Research</i> , 2015 , 37, 69-76	2.7	29
245	Comparison of ionized calcium-binding adapter molecule 1 immunoreactivity of the hippocampal dentate gyrus and CA1 region in adult and aged dogs. <i>Neurochemical Research</i> , 2008 , 33, 1309-15	4.6	29
244	Palmitic Acid-BSA enhances Amyloid- β production through GPR40-mediated dual pathways in neuronal cells: Involvement of the Akt/mTOR/HIF-1 α and Akt/NF- κ B pathways. <i>Scientific Reports</i> , 2017 , 7, 4335	4.9	28
243	<i>Dendropanax morbifera</i> L'Veille extract facilitates cadmium excretion and prevents oxidative damage in the hippocampus by increasing antioxidant levels in cadmium-exposed rats. <i>BMC Complementary and Alternative Medicine</i> , 2014 , 14, 428	4.7	28
242	Pyridoxine enhances cell proliferation and neuroblast differentiation by upregulating the GABAergic system in the mouse dentate gyrus. <i>Neurochemical Research</i> , 2011 , 36, 713-21	4.6	28
241	Impact of hyperthermia before and during ischemia-reperfusion on neuronal damage and gliosis in the gerbil hippocampus induced by transient cerebral ischemia. <i>Journal of the Neurological Sciences</i> , 2015 , 348, 101-10	3.2	27
240	Reduced cell proliferation and neuroblast differentiation in the dentate gyrus of high fat diet-fed mice are ameliorated by metformin and glimepiride treatment. <i>Neurochemical Research</i> , 2011 , 36, 2401-8	4.6	27
239	Protein disulfide-isomerase A3 significantly reduces ischemia-induced damage by reducing oxidative and endoplasmic reticulum stress. <i>Neurochemistry International</i> , 2019 , 122, 19-30	4.4	27

238	Late expression of Na ⁺ /H ⁺ exchanger 1 (NHE1) and neuroprotective effects of NHE inhibitor in the gerbil hippocampal CA1 region induced by transient ischemia. <i>Experimental Neurology</i> , 2008 , 212, 314-23 ^{5.7}	26
237	Chronological alterations of calbindin D-28k immunoreactivity in the gerbil main olfactory bulb after ischemic insult. <i>Brain Research</i> , 2003 , 971, 250-4	3.7 26
236	Neuroprotective effects of PEP-1-carbonyl reductase 1 against oxidative-stress-induced ischemic neuronal cell damage. <i>Free Radical Biology and Medicine</i> , 2014 , 69, 181-96	7.8 25
235	Long-term changes in neuronal degeneration and microglial activation in the hippocampal CA1 region after experimental transient cerebral ischemic damage. <i>Brain Research</i> , 2010 , 1342, 138-49	3.7 25
234	Effects of age and treadmill exercise in chronic diabetic stages on neuroblast differentiation in a rat model of type 2 diabetes. <i>Brain Research</i> , 2010 , 1341, 63-71	3.7 24
233	Age-related differentiation in newly generated DCX immunoreactive neurons in the subgranular zone of the gerbil dentate gyrus. <i>Neurochemical Research</i> , 2008 , 33, 867-72	4.6 24
232	Combination effects of sodium butyrate and pyridoxine treatment on cell proliferation and neuroblast differentiation in the dentate gyrus of D-galactose-induced aging model mice. <i>Neurochemical Research</i> , 2012 , 37, 223-31	4.6 23
231	Effects of high-fat diet on neuronal damage, gliosis, inflammatory process and oxidative stress in the hippocampus induced by transient cerebral ischemia. <i>Neurochemical Research</i> , 2014 , 39, 2465-78	4.6 23
230	Chronic treatment of exendin-4 affects cell proliferation and neuroblast differentiation in the adult mouse hippocampal dentate gyrus. <i>Neuroscience Letters</i> , 2010 , 486, 38-42	3.3 23
229	Metformin normalizes type 2 diabetes-induced decrease in cell proliferation and neuroblast differentiation in the rat dentate gyrus. <i>Neurochemical Research</i> , 2010 , 35, 645-50	4.6 23
228	Differences in lipid peroxidation and Cu,Zn-superoxide dismutase in the hippocampal CA1 region between adult and aged dogs. <i>Journal of Veterinary Medical Science</i> , 2008 , 70, 273-7	1.1 23
227	Neuroprotective effect of PEP-1-peroxiredoxin2 on CA1 regions in the hippocampus against ischemic insult. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 2321-30	4 22
226	(-)-Epigallocatechin-3-gallate increases cell proliferation and neuroblasts in the subgranular zone of the dentate gyrus in adult mice. <i>Phytotherapy Research</i> , 2010 , 24, 1065-70	6.7 22
225	Immunohistochemical studies of brain pyridoxine-5Sphosphate oxidase. <i>Brain Research</i> , 2002 , 925, 159-68 ^{9.7}	22
224	Pretreated quercetin protects gerbil hippocampal CA1 pyramidal neurons from transient cerebral ischemic injury by increasing the expression of antioxidant enzymes. <i>Neural Regeneration Research</i> , 2017 , 12, 220-227	4.5 22
223	Melatonin improves vascular cognitive impairment induced by ischemic stroke by remyelination via activation of ERK1/2 signaling and restoration of glutamatergic synapses in the gerbil hippocampus. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 108, 687-697	7.5 22
222	Neuroprotective effects of PEP-1-Cu,Zn-SOD against ischemic neuronal damage in the rabbit spinal cord. <i>Neurochemical Research</i> , 2012 , 37, 307-13	4.6 21
221	Dendropanax morbifera L'Veille extract ameliorates cadmium-induced impairment in memory and hippocampal neurogenesis in rats. <i>BMC Complementary and Alternative Medicine</i> , 2016 , 16, 452	4.7 20

220	Differences in neuronal damage and gliosis in the hippocampus between young and adult gerbils induced by long duration of transient cerebral ischemia. <i>Journal of the Neurological Sciences</i> , 2014 , 337, 129-36	3.2	20
219	The chronological characteristics of SOD1 activity and inflammatory response in the hippocampi of STZ-induced type 1 diabetic rats. <i>Neurochemical Research</i> , 2011 , 36, 117-28	4.6	20
218	Effects of Nelumbo nucifera rhizome extract on cell proliferation and neuroblast differentiation in the hippocampal dentate gyrus in a scopolamine-induced amnesia animal model. <i>Phytotherapy Research</i> , 2011 , 25, 809-15	6.7	20
217	Comparison of ionized calcium-binding adapter molecule 1-immunoreactive microglia in the spinal cord between young adult and aged dogs. <i>Neurochemical Research</i> , 2010 , 35, 620-7	4.6	20
216	Changes in immunoreactivity of HSP60 and its neuroprotective effects in the gerbil hippocampal CA1 region induced by transient ischemia. <i>Experimental Neurology</i> , 2007 , 208, 247-56	5.7	20
215	Ischemia-induced changes of platelet endothelial cell adhesion molecule-1 in the hippocampal CA1 region in gerbils. <i>Brain Research</i> , 2005 , 1048, 251-7	3.7	20
214	SP, CGRP changes in pyridoxine induced neuropathic dogs with nerve growth factor gene therapy. <i>BMC Neuroscience</i> , 2016 , 17, 1	3.2	19
213	Tat-protein disulfide-isomerase A3: a possible candidate for preventing ischemic damage in the spinal cord. <i>Cell Death and Disease</i> , 2017 , 8, e3075	9.8	19
212	Tat-antioxidant 1 protects against stress-induced hippocampal HT-22 cells death and attenuate ischaemic insult in animal model. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 1333-45	5.6	19
211	Neuroprotection of posttreatment with risperidone, an atypical antipsychotic drug, in rat and gerbil models of ischemic stroke and the maintenance of antioxidants in a gerbil model of ischemic stroke. <i>Journal of Neuroscience Research</i> , 2014 , 92, 795-807	4.4	19
210	Physical exercise ameliorates the reduction of neural stem cell, cell proliferation and neuroblast differentiation in senescent mice induced by D-galactose. <i>BMC Neuroscience</i> , 2014 , 15, 116	3.2	19
209	Effects of Ginkgo biloba extract on promotion of neurogenesis in the hippocampal dentate gyrus in C57BL/6 mice. <i>Journal of Veterinary Medical Science</i> , 2011 , 73, 71-6	1.1	19
208	Aquaporin 9 changes in pyramidal cells before and is expressed in astrocytes after delayed neuronal death in the ischemic hippocampal CA1 region of the gerbil. <i>Journal of Neuroscience Research</i> , 2007 , 85, 2470-9	4.4	19
207	Ischemia-induced ribosomal protein S3 expressional changes and the neuroprotective effect against experimental cerebral ischemic damage. <i>Journal of Neuroscience Research</i> , 2008 , 86, 1823-35	4.4	19
206	Expression and changes of galanin in neurons and microglia in the hippocampus after transient forebrain ischemia in gerbils. <i>Brain Research</i> , 2004 , 1023, 193-9	3.7	19
205	Pyridoxine improves hippocampal cognitive function via increases of serotonin turnover and tyrosine hydroxylase, and its association with CB1 cannabinoid receptor-interacting protein and the CB1 cannabinoid receptor pathway. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3142-3153	4	18
204	Neuroprotective effects of Z-ajoene, an organosulfur compound derived from oil-macerated garlic, in the gerbil hippocampal CA1 region after transient forebrain ischemia. <i>Food and Chemical Toxicology</i> , 2014 , 72, 1-7	4.7	18
203	Effects of treadmill exercise on neural stem cells, cell proliferation, and neuroblast differentiation in the subgranular zone of the dentate gyrus in cyclooxygenase-2 knockout mice. <i>Neurochemical Research</i> , 2013 , 38, 2559-69	4.6	18

202	Effective delivery of Pep-1-cargo protein into ischemic neurons and long-term neuroprotection of Pep-1-SOD1 against ischemic injury in the gerbil hippocampus. <i>Neurochemistry International</i> , 2008 , 52, 659-68	4.4	18
201	Folic acid deficiency increases delayed neuronal death, DNA damage, platelet endothelial cell adhesion molecule-1 immunoreactivity, and gliosis in the hippocampus after transient cerebral ischemia. <i>Journal of Neuroscience Research</i> , 2008 , 86, 2003-15	4.4	18
200	Melatonin attenuates scopolamine-induced cognitive impairment via protecting against demyelination through BDNF-TrkB signaling in the mouse dentate gyrus. <i>Chemico-Biological Interactions</i> , 2018 , 285, 8-13	5	17
199	Comparison of neurogenesis in the dentate gyrus between the adult and aged gerbil following transient global cerebral ischemia. <i>Neurochemical Research</i> , 2012 , 37, 802-10	4.6	17
198	Hypothyroid state does not protect but delays neuronal death in the hippocampal CA1 region following transient cerebral ischemia: focus on oxidative stress and gliosis. <i>Journal of Neuroscience Research</i> , 2010 , 88, 2661-8	4.4	17
197	GABAA, not GABAB, receptor shows subunit- and spatial-specific alterations in the hippocampus of seizure prone gerbils. <i>Brain Research</i> , 2004 , 1003, 98-107	3.7	17
196	CD74-immunoreactive activated M1 microglia are shown late in the gerbil hippocampal CA1 region following transient cerebral ischemia. <i>Molecular Medicine Reports</i> , 2017 , 15, 4148-4154	2.9	16
195	Melatonin Improves Cognitive Deficits via Restoration of Cholinergic Dysfunction in a Mouse Model of Scopolamine-Induced Amnesia. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 2016-2024	5.7	16
194	Melatonin ameliorates cuprizone-induced reduction of hippocampal neurogenesis, brain-derived neurotrophic factor, and phosphorylation of cyclic AMP response element-binding protein in the mouse dentate gyrus. <i>Brain and Behavior</i> , 2019 , 9, e01388	3.4	16
193	Differential Effects of Low- and High-dose Zinc Supplementation on Synaptic Plasticity and Neurogenesis in the Hippocampus of Control and High-fat Diet-fed Mice. <i>Neurochemical Research</i> , 2017 , 42, 3149-3159	4.6	16
192	Expression of tissue-type transglutaminase (tTG) and the effect of tTG inhibitor on the hippocampal CA1 region after transient ischemia in gerbils. <i>Brain Research</i> , 2009 , 1263, 134-42	3.7	16
191	Effects of grape seed extract and its ethylacetate/ethanol fraction on blood glucose levels in a model of type 2 diabetes. <i>Phytotherapy Research</i> , 2009 , 23, 1182-5	6.7	16
190	Ischemia-related change of ceruloplasmin immunoreactivity in neurons and astrocytes in the gerbil hippocampus and dentate gyrus. <i>Neurochemistry International</i> , 2004 , 44, 601-7	4.4	16
189	Hydroquinone Strongly Alleviates Focal Ischemic Brain Injury via Blockage of Blood-Brain Barrier Disruption in Rats. <i>Toxicological Sciences</i> , 2016 , 154, 430-441	4.4	15
188	Regulatory mechanism of hypothalamo-pituitary-adrenal (HPA) axis and neuronal changes after adrenalectomy in type 2 diabetes. <i>Journal of Chemical Neuroanatomy</i> , 2010 , 40, 130-9	3.2	15
187	Effects of treadmill exercise on cyclooxygenase-2 in the hippocampus in type 2 diabetic rats: correlation with the neuroblasts. <i>Brain Research</i> , 2010 , 1341, 84-92	3.7	15
186	Age-related changes of gamma-aminobutyric acid transaminase immunoreactivity in the hippocampus and dentate gyrus of the Mongolian gerbil. <i>Brain Research</i> , 2004 , 1017, 77-84	3.7	15
185	Changes in the expression of calbindin D-28k in the gerbil hippocampus following seizure. <i>Neurochemistry International</i> , 2004 , 44, 145-52	4.4	15

184	Chronic high-fat diet-induced obesity in gerbils increases pro-inflammatory cytokines and mTOR activation, and elicits neuronal death in the striatum following brief transient ischemia. <i>Neurochemistry International</i> , 2018 , 121, 75-85	4.4	15
183	Valeriana officinalis Extracts Ameliorate Neuronal Damage by Suppressing Lipid Peroxidation in the Gerbil Hippocampus Following Transient Cerebral Ischemia. <i>Journal of Medicinal Food</i> , 2015 , 18, 642-7	2.8	14
182	Comparison of Adult Hippocampal Neurogenesis and Susceptibility to Treadmill Exercise in Nine Mouse Strains. <i>Neural Plasticity</i> , 2017 , 2017, 5863258	3.3	14
181	Age-related change of calbindin D-28k immunoreactive neurons in the rat main olfactory bulb. <i>Neuroscience Letters</i> , 2002 , 326, 159-62	3.3	14
180	Unilateral cryptorchidism induces morphological changes of testes and hyperplasia of Sertoli cells in a dog. <i>Laboratory Animal Research</i> , 2014 , 30, 185-9	1.9	13
179	Effects of a new synthetic butyrylcholinesterase inhibitor, HBU-39, on cell proliferation and neuroblast differentiation in the hippocampal dentate gyrus in a scopolamine-induced amnesia animal model. <i>Neurochemistry International</i> , 2011 , 59, 722-8	4.4	13
178	Comparison of immunoreactivities in 4-HNE and superoxide dismutases in the cervical and the lumbar spinal cord between adult and aged dogs. <i>Experimental Gerontology</i> , 2011 , 46, 703-8	4.5	13
177	Time-course of changes in phosphorylated CREB in neuroblasts and BDNF in the mouse dentate gyrus at early postnatal stages. <i>Cellular and Molecular Neurobiology</i> , 2011 , 31, 669-74	4.6	13
176	Time-course alterations of Toll-like receptor 4 and NF- κ B p65, and their co-expression in the gerbil hippocampal CA1 region after transient cerebral ischemia. <i>Neurochemical Research</i> , 2011 , 36, 2417-26	4.6	13
175	Comparative study on high fat diet-induced 4-hydroxy-2E-nonenal adducts in the hippocampal CA1 region of C57BL/6N and C3H/HeN mice. <i>Neurochemical Research</i> , 2009 , 34, 964-72	4.6	13
174	Seizure-induced changes of mineralocorticoid and glucocorticoid receptors in the hippocampus in seizure sensitive gerbils. <i>Neuroscience Research</i> , 2005 , 53, 14-24	2.9	13
173	Very delayed neuronal loss occurs in the glomerular layer of the main olfactory bulb following transient ischemia in gerbils. <i>Neuroscience Letters</i> , 2004 , 366, 272-6	3.3	13
172	Hypothyroidism affects astrocyte and microglial morphology in type 2 diabetes. <i>Neural Regeneration Research</i> , 2013 , 8, 2458-67	4.5	13
171	Glucose metabolism and neurogenesis in the gerbil hippocampus after transient forebrain ischemia. <i>Neural Regeneration Research</i> , 2016 , 11, 1254-9	4.5	13
170	Neuroprotection via maintenance or increase of antioxidants and neurotrophic factors in ischemic gerbil hippocampus treated with tanshinone I. <i>Chinese Medical Journal</i> , 2014 , 127, 3396-405	2.9	13
169	Increases of Catalase and Glutathione Peroxidase Expressions by Lacosamide Pretreatment Contributes to Neuroprotection Against Experimentally Induced Transient Cerebral Ischemia. <i>Neurochemical Research</i> , 2016 , 41, 2380-90	4.6	12
168	Pretreated Extract Prevents Neuronal Death Following Transient Global Cerebral Ischemia through Increases of Superoxide Dismutase 1 and Brain-derived Neurotrophic Factor Expressions in the Gerbil Hippocampal Cornu Ammonis 1 Area. <i>Chinese Medical Journal</i> , 2017 , 130, 1796-1803	2.9	12
167	Pregnancy inhibits cell proliferation and neuroblast differentiation without neuronal damage in the hippocampal dentate gyrus in C57BL/6N mice. <i>Brain Research</i> , 2010 , 1315, 25-32	3.7	12

166	c-Myb immunoreactivity, protein and mRNA levels significantly increase in the aged hippocampus proper in gerbils. <i>Neurochemical Research</i> , 2007 , 32, 1091-7	4.6	12
165	Ischemia-related changes of glial-derived neurotrophic factor and phosphatidylinositol 3-kinase in the hippocampus: their possible correlation in astrocytes. <i>Brain Research</i> , 2006 , 1072, 215-23	3.7	12
164	Na ⁺ /Ca ²⁺ exchanger 1 alters in pyramidal cells and expresses in astrocytes of the gerbil hippocampal CA1 region after ischemia. <i>Brain Research</i> , 2006 , 1086, 181-90	3.7	12
163	Long-term administration of scopolamine interferes with nerve cell proliferation, differentiation and migration in adult mouse hippocampal dentate gyrus, but it does not induce cell death. <i>Neural Regeneration Research</i> , 2014 , 9, 1731-9	4.5	12
162	Reduction of adult hippocampal neurogenesis is amplified by aluminum exposure in a model of type 2 diabetes. <i>Journal of Veterinary Science</i> , 2016 , 17, 13-20	1.6	12
161	Improvement in neurogenesis and memory function by administration of <i>Passiflora incarnata</i> L. extract applied to sleep disorder in rodent models. <i>Journal of Chemical Neuroanatomy</i> , 2019 , 98, 27-40	3.2	11
160	Heme Oxygenase-1 Protects Neurons from Ischemic Damage by Upregulating Expression of Cu,Zn-Superoxide Dismutase, Catalase, and Brain-Derived Neurotrophic Factor in the Rabbit Spinal Cord. <i>Neurochemical Research</i> , 2016 , 41, 869-79	4.6	11
159	Treadmill exercise is associated with reduction of reactive microgliosis and pro-inflammatory cytokine levels in the hippocampus of type 2 diabetic rats. <i>Neurological Research</i> , 2015 , 37, 732-8	2.7	11
158	<i>Valeriana officinalis</i> root extract suppresses physical stress by electric shock and psychological stress by nociceptive stimulation-evoked responses by decreasing the ratio of monoamine neurotransmitters to their metabolites. <i>BMC Complementary and Alternative Medicine</i> , 2014 , 14, 476	4.7	11
157	Changes in glial fibrillary acidic protein immunoreactivity in the dentate gyrus and hippocampus proper of adult and aged dogs. <i>Journal of Veterinary Medical Science</i> , 2008 , 70, 965-9	1.1	11
156	Hyperoxidized peroxiredoxins and glyceraldehyde-3-phosphate dehydrogenase immunoreactivity and protein levels are changed in the gerbil hippocampal CA1 region after transient forebrain ischemia. <i>Neurochemical Research</i> , 2007 , 32, 1530-8	4.6	11
155	Protein disulfide isomerase immunoreactivity and protein level changes in neurons and astrocytes in the gerbil hippocampal CA1 region following transient ischemia. <i>Neuroscience Letters</i> , 2005 , 375, 117-22	3.3	11
154	Chronological alterations of neurofilament 150 immunoreactivity in the gerbil hippocampus and dentate gyrus after transient forebrain ischemia. <i>Brain Research</i> , 2004 , 1016, 119-28	3.7	11
153	Early IV-injected human dermis-derived mesenchymal stem cells after transient global cerebral ischemia do not pass through damaged blood-brain barrier. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 1646-1657	4.4	11
152	Valerenic Acid Protects Against Physical and Psychological Stress by Reducing the Turnover of Serotonin and Norepinephrine in Mouse Hippocampus-Amygdala Region. <i>Journal of Medicinal Food</i> , 2015 , 18, 1333-9	2.8	10
151	Neuronal loss and gliosis in the rat striatum subjected to 15 and 30 minutes of middle cerebral artery occlusion. <i>Metabolic Brain Disease</i> , 2018 , 33, 775-784	3.9	10
150	Hypothyroidism increases cyclooxygenase-2 levels and pro-inflammatory response and decreases cell proliferation and neuroblast differentiation in the hippocampus. <i>Molecular Medicine Reports</i> , 2018 , 17, 5782-5788	2.9	10
149	Melatonin alleviates asphyxial cardiac arrest-induced cerebellar Purkinje cell death by attenuation of oxidative stress. <i>Experimental Neurology</i> , 2019 , 320, 112983	5.7	10

148	Repeated administration of PEP-1-Cu,Zn-superoxide dismutase and PEP-1-peroxiredoxin-2 to senescent mice induced by D-galactose improves the hippocampal functions. <i>Neurochemical Research</i> , 2013 , 38, 2046-55	4.6	10
147	Cell proliferation and neuroblast differentiation in the dentate gyrus of high-fat diet-fed mice are increased after rosiglitazone treatment. <i>Journal of Veterinary Science</i> , 2014 , 15, 27-33	1.6	10
146	Effects of treadmill exercise combined with MK 801 treatment on neuroblast differentiation in the dentate gyrus in rats. <i>Cellular and Molecular Neurobiology</i> , 2011 , 31, 285-92	4.6	10
145	Effect of treadmill exercise on blood glucose, serum corticosterone levels and glucocorticoid receptor immunoreactivity in the hippocampus in chronic diabetic rats. <i>Neurochemical Research</i> , 2011 , 36, 281-7	4.6	10
144	Enhanced cell proliferation and neuroblast differentiation in the rat hippocampal dentate gyrus following myocardial infarction. <i>Neuroscience Letters</i> , 2009 , 450, 275-80	3.3	10
143	Induction of cell proliferation and neuroblasts in the subgranular zone of the dentate gyrus by aqueous extract from <i>Platycodon grandiflorum</i> in middle-aged mice. <i>Neuroscience Letters</i> , 2008 , 444, 97-101	3.3	10
142	Transient ischemia-induced changes of interleukin-2 and its receptor beta immunoreactivity and levels in the gerbil hippocampal CA1 region. <i>Brain Research</i> , 2006 , 1106, 197-204	3.7	10
141	Postnatal changes in glucose transporter 3 expression in the dentate gyrus of the C57BL/6 mouse model. <i>Laboratory Animal Research</i> , 2016 , 32, 1-7	1.9	10
140	Vanillin and 4-hydroxybenzyl alcohol promotes cell proliferation and neuroblast differentiation in the dentate gyrus of mice via the increase of brain-derived neurotrophic factor and tropomyosin-related kinase B. <i>Molecular Medicine Reports</i> , 2016 , 13, 2949-56	2.9	10
139	Phosphoglycerate Mutase 1 Promotes Cell Proliferation and Neuroblast Differentiation in the Dentate Gyrus by Facilitating the Phosphorylation of cAMP Response Element-Binding Protein. <i>Neurochemical Research</i> , 2019 , 44, 323-332	4.6	10
138	Age-related changes of parvalbumin immunoreactive neurons in the rat main olfactory bulb. <i>Molecules and Cells</i> , 2003 , 16, 302-6	3.5	10
137	Essential oils from two <i>Allium</i> species exert effects on cell proliferation and neuroblast differentiation in the mouse dentate gyrus by modulating brain-derived neurotrophic factor and acetylcholinesterase. <i>BMC Complementary and Alternative Medicine</i> , 2016 , 16, 431	4.7	9
136	Decrease in glucose transporter 1 levels and translocation of glucose transporter 3 in the dentate gyrus of C57BL/6 mice and gerbils with aging. <i>Laboratory Animal Research</i> , 2018 , 34, 58-64	1.9	9
135	Pretreatment of <i>Populus tomentiglandulosa</i> protects hippocampal CA1 pyramidal neurons from ischemia-reperfusion injury in gerbils via increasing SODs expressions and maintaining BDNF and IGF-I expressions. <i>Chinese Journal of Natural Medicines</i> , 2019 , 17, 424-434	2.8	9
134	Changes in the expression of DNA-binding/differentiation protein inhibitors in neurons and glial cells of the gerbil hippocampus following transient global cerebral ischemia. <i>Molecular Medicine Reports</i> , 2015 , 11, 2477-85	2.9	9
133	Neuroprotective effects of adipose-derived stem cells are maintained for 3 weeks against ischemic damage in the rabbit spinal cord. <i>BioMed Research International</i> , 2014 , 2014, 539051	3	9
132	Effects of pyridoxine on a high-fat diet-induced reduction of cell proliferation and neuroblast differentiation depend on cyclic adenosine monophosphate response element binding protein in the mouse dentate gyrus. <i>Journal of Neuroscience Research</i> , 2012 , 90, 1615-25	4.4	9
131	Effects of s-allyl-L-cysteine on cell proliferation and neuroblast differentiation in the mouse dentate gyrus. <i>Journal of Veterinary Medical Science</i> , 2011 , 73, 1071-5	1.1	9

130	Cell proliferation and neuroblast differentiation in the rat dentate gyrus after intrathecal treatment with adipose-derived mesenchymal stem cells. <i>Cellular and Molecular Neurobiology</i> , 2011 , 31, 1271-80	4.6	9
129	Effects of adrenalectomy and replacement therapy of corticosterone on cell proliferation and neuroblast differentiation in the rat dentate gyrus. <i>Neurochemical Research</i> , 2011 , 36, 1767-75	4.6	9
128	Comparison of density and morphology of neuroblasts in the dentate gyrus among variously aged dogs, German shepherds. <i>Journal of Veterinary Medical Science</i> , 2009 , 71, 211-5	1.1	9
127	Effects of methimazole on the onset of type 2 diabetes in leptin receptor-deficient rats. <i>Journal of Veterinary Medical Science</i> , 2009 , 71, 275-80	1.1	9
126	Doublecortin-immunoreactive neuronal precursors in the dentate gyrus of spontaneously hypertensive rats at various age stages: comparison with Sprague-Dawley rats. <i>Journal of Veterinary Medical Science</i> , 2008 , 70, 373-7	1.1	9
125	Neurons in the hippocampal CA1 region, but not the dentate gyrus, are susceptible to oxidative stress in rats with streptozotocin-induced type 1 diabetes. <i>Neural Regeneration Research</i> , 2015 , 10, 451-6	4.5	9
124	Tat-HSP70 protects neurons from oxidative damage in the NSC34 cells and ischemic damage in the ventral horn of rabbit spinal cord. <i>Neurochemistry International</i> , 2019 , 129, 104477	4.4	8
123	Differential Effects of Pioglitazone in the Hippocampal CA1 Region Following Transient Forebrain Ischemia in Low- and High-Fat Diet-Fed Gerbils. <i>Neurochemical Research</i> , 2015 , 40, 1063-73	4.6	8
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121	Cynomorium songaricum extract enhances novel object recognition, cell proliferation and neuroblast differentiation in the mice via improving hippocampal environment. <i>BMC Complementary and Alternative Medicine</i> , 2014 , 14, 5	4.7	8
120	Chronic effects of pyridoxine in the gerbil hippocampal CA1 region after transient forebrain ischemia. <i>Neurochemical Research</i> , 2012 , 37, 1011-8	4.6	8
119	Grape seed extract enhances neurogenesis in the hippocampal dentate gyrus in C57BL/6 mice. <i>Phytotherapy Research</i> , 2011 , 25, 668-74	6.7	8
118	Expression and changes of hyperoxidized peroxiredoxins in non-pyramidal and polymorphic cells in the gerbil hippocampus during normal aging. <i>Cellular and Molecular Neurobiology</i> , 2009 , 29, 413-21	4.6	8
117	Zizyphus enhances cell proliferation and neuroblast differentiation in the subgranular zone of the dentate gyrus in middle-aged mice. <i>Journal of Medicinal Food</i> , 2011 , 14, 195-200	2.8	8
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114	Phosphoglycerate mutase 1 reduces neuronal damage in the hippocampus following ischemia/reperfusion through the facilitation of energy utilization. <i>Neurochemistry International</i> , 2020 , 133, 104631	4.4	8
113	Cu, Zn-Superoxide Dismutase Increases the Therapeutic Potential of Adipose-derived Mesenchymal Stem Cells by Maintaining Antioxidant Enzyme Levels. <i>Neurochemical Research</i> , 2016 , 41, 3300-3307	4.6	8

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111	Down-regulation of cyclin-dependent kinase 5 attenuates p53-dependent apoptosis of hippocampal CA1 pyramidal neurons following transient cerebral ischemia. <i>Scientific Reports</i> , 2019 , 9, 13032	4.9	7
110	Expression of Neurotrophin-3 and trkC following Focal Cerebral Ischemia in Adult Rat Brain with Treadmill Exercise. <i>BioMed Research International</i> , 2017 , 2017, 9248542	3	7
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107	Comparison of N-methyl-D-aspartate receptor subunit 1 and 4-hydroxynonenal in the hippocampus of natural and chemical-induced aging accelerated mice. <i>Neurochemical Research</i> , 2014 , 39, 1702-8	4.6	7
106	Comparison of expression of inflammatory cytokines in the spinal cord between young adult and aged beagle dogs. <i>Cellular and Molecular Neurobiology</i> , 2013 , 33, 615-24	4.6	7
105	Tat-DJ-1 protects neurons from ischemic damage in the ventral horn of rabbit spinal cord via increasing antioxidant levels. <i>Neurochemical Research</i> , 2014 , 39, 187-93	4.6	7
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103	Pretreated extract increases anti-inflammatory cytokines, attenuates gliosis, and protects hippocampal neurons following transient global cerebral ischemia in gerbils. <i>Neural Regeneration Research</i> , 2019 , 14, 1536-1543	4.5	7
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101	Effects of Lŕeille extracts on cadmium and mercury secretion as well as oxidative capacity: A randomized, double-blind, placebo-controlled trial. <i>Biomedical Reports</i> , 2016 , 4, 623-627	1.8	7
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96	Long-term treadmill exercise improves memory impairment through restoration of decreased synaptic adhesion molecule 1/2/3 induced by transient cerebral ischemia in the aged gerbil hippocampus. <i>Experimental Gerontology</i> , 2018 , 103, 124-131	4.5	6
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92	Time course of postnatal distribution of doublecortin immunoreactive developing/maturing neurons in the somatosensory cortex and hippocampal CA1 region of C57BL/6 mice. <i>Cellular and Molecular Neurobiology</i> , 2011 , 31, 729-36	4.6	6
91	Cyclosporine A reduces dendritic outgrowth of neuroblasts in the subgranular zone of the dentate gyrus in C57BL/6 mice. <i>Neurochemical Research</i> , 2010 , 35, 465-72	4.6	6
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71	Postnatal changes in constitutive cyclooxygenase-2 expression in the mice hippocampus and its function in synaptic plasticity. <i>Molecular Medicine Reports</i> , 2019 , 19, 1996-2004	2.9	4
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69	Neuropathological changes in dorsal root ganglia induced by pyridoxine in dogs. <i>BMC Neuroscience</i> , 2020 , 21, 11	3.2	4
68	Age-related change of Iba-1 immunoreactivity in the adult and aged gerbil spinal cord. <i>Anatomy and Cell Biology</i> , 2017 , 50, 135-142	1.4	4
67	Effects of Læille extract on hypothyroidism-induced oxidative stress in the rat hippocampus. <i>Food Science and Biotechnology</i> , 2016 , 25, 1761-1766	3	4
66	Effects of Cu,Zn-superoxide dismutase on cell proliferation and neuroblast differentiation in the mouse dentate gyrus. <i>Neurochemical Research</i> , 2012 , 37, 261-7	4.6	4
65	Increased immunoreactivities of cleaved β -spectrin and cleaved caspase-3 in the aged dog spinal cord. <i>Neurochemical Research</i> , 2012 , 37, 480-6	4.6	4
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52	Age-dependent changes in vesicular glutamate transporter 1 and 2 expression in the gerbil hippocampus. <i>Molecular Medicine Reports</i> , 2018 , 17, 6465-6471	2.9	3
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39	P27 Protects Neurons from Ischemic Damage by Suppressing Oxidative Stress and Increasing Autophagy in the Hippocampus. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
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34	Temporal and spatial changes of monocarboxylate transporter 4 expression in the hippocampal CA1 region following transient forebrain ischemia in the Mongolian gerbil. <i>Molecular Medicine Reports</i> , 2017 , 15, 4225-4230	2.9	2
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32	SUMO-1 delays neuronal damage in the spinal cord following ischemia/reperfusion. <i>Molecular Medicine Reports</i> , 2017 , 15, 4312-4318	2.9	2
31	Time course of changes in immunoreactivities of GABA degradation enzymes in the hippocampal CA1 region after adrenalectomy in gerbils. <i>Neurochemical Research</i> , 2008 , 33, 938-44	4.6	2
30	The immunoreactivity and activity of adenylate cyclase type I are changed in the hippocampal CA1 region after transient forebrain ischemia in gerbils. <i>Journal of the Neurological Sciences</i> , 2006 , 240, 93-8	3.2	2
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20	Increased immunoreactivity of c-Fos in the spinal cord of the aged mouse and dog. <i>Molecular Medicine Reports</i> , 2015 , 11, 1043-8	2.9	1
19	Transient increases of glutamic acid decarboxylase 67 immunoreactivity and its protein levels in the somatosensory cortex after transient cerebral ischemia in gerbils. <i>Journal of Veterinary Medical Science</i> , 2008 , 70, 1005-10	1.1	1
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