

# Jae-Young Koh

## List of Publications by Year in descending order

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157  
papers

20,847  
citations

20759

60  
h-index

9839

141  
g-index

158  
all docs

158  
docs citations

158  
times ranked

22629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
2	The neurobiology of zinc in health and disease. <i>Nature Reviews Neuroscience</i> , 2005, 6, 449-462.	4.9	1,633
3	Quantitative determination of glutamate mediated cortical neuronal injury in cell culture by lactate dehydrogenase efflux assay. <i>Journal of Neuroscience Methods</i> , 1987, 20, 83-90.	1.3	1,272
4	The Role of Zinc in Selective Neuronal Death After Transient Global Cerebral Ischemia. <i>Science</i> , 1996, 272, 1013-1016.	6.0	1,007
5	ZINC AND BRAIN INJURY. <i>Annual Review of Neuroscience</i> , 1998, 21, 347-375.	5.0	720
6	Zinc selectively blocks the action of N-methyl-D-aspartate on cortical neurons. <i>Science</i> , 1987, 236, 589-593.	6.0	659
7	$\beta$ -Amyloid protein increases the vulnerability of cultured cortical neurons to excitotoxic damage. <i>Brain Research</i> , 1990, 533, 315-320.	1.1	630
8	Zn <sup>2+</sup> : a novel ionic mediator of neural injury in brain disease. <i>Trends in Pharmacological Sciences</i> , 2000, 21, 395-401.	4.0	536
9	Measurement of Intracellular Free Zinc in Living Cortical Neurons: Routes of Entry. <i>Journal of Neuroscience</i> , 1997, 17, 9554-9564.	1.7	436
10	Contribution by synaptic zinc to the gender-disparate plaque formation in human Swedish mutant APP transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7705-7710.	3.3	409
11	Potentiated necrosis of cultured cortical neurons by neurotrophins. <i>Science</i> , 1995, 268, 573-575.	6.0	363
12	Vulnerability of cultured cortical neurons to damage by excitotoxins: differential susceptibility of neurons containing NADPH-diaphorase. <i>Journal of Neuroscience</i> , 1988, 8, 2153-2163.	1.7	315
13	Neurons containing NADPH-diaphorase are selectively resistant to quinolinate toxicity. <i>Science</i> , 1986, 234, 73-76.	6.0	294
14	Non-NMDA receptor-mediated neurotoxicity in cortical culture. <i>Journal of Neuroscience</i> , 1990, 10, 693-705.	1.7	292
15	The Neurophysiology and Pathology of Brain Zinc. <i>Journal of Neuroscience</i> , 2011, 31, 16076-16085.	1.7	291
16	Induction and Activation by Zinc of NADPH Oxidase in Cultured Cortical Neurons and Astrocytes. <i>Journal of Neuroscience</i> , 2000, 20, RC111-RC111.	1.7	290
17	AMPA receptor activation potentiates zinc neurotoxicity. <i>Neuron</i> , 1993, 10, 43-49.	3.8	271
18	Blockade of glutamate receptors unmasks neuronal apoptosis after oxygen-glucose deprivation in vitro. <i>Neuroscience</i> , 1995, 68, 615-619.	1.1	249

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19	Zinc-induced cortical neuronal death with features of apoptosis and necrosis: Mediation by free radicals. <i>Neuroscience</i> , 1999, 89, 175-182.	1.1	247
20	Staurosporine-Induced Neuronal Apoptosis. <i>Experimental Neurology</i> , 1995, 135, 153-159.	2.0	236
21	Neurotoxicity of $\beta$ -N-methylamino-l-alanine (BMAA) and $\beta$ -N-oxalylamino-l-alanine (BOAA) on cultured cortical neurons. <i>Brain Research</i> , 1989, 497, 64-71.	1.1	205
22	Induction of Lysosomal Dilatation, Arrested Autophagy, and Cell Death by Chloroquine in Cultured ARPE-19 Cells. , 2010, 51, 6030.		200
23	The lipophilic metal chelator DP-109 reduces amyloid pathology in brains of human $\beta$ -amyloid precursor protein transgenic mice. <i>Neurobiology of Aging</i> , 2004, 25, 1315-1321.	1.5	196
24	Roles of zinc and metallothionein-3 in oxidative stress-induced lysosomal dysfunction, cell death, and autophagy in neurons and astrocytes. <i>Molecular Brain</i> , 2010, 3, 30.	1.3	190
25	Activation of the Trk Signaling Pathway by Extracellular Zinc. <i>Journal of Biological Chemistry</i> , 2005, 280, 11995-12001.	1.6	186
26	Undernutrition as a Predictor of Poor Clinical Outcomes in Acute Ischemic Stroke Patients. <i>Archives of Neurology</i> , 2008, 65, 39-43.	4.9	181
27	Inhibition of Drp1 Ameliorates Synaptic Depression, $A\beta$ Deposition, and Cognitive Impairment in an Alzheimer's Disease Model. <i>Journal of Neuroscience</i> , 2017, 37, 5099-5110.	1.7	176
28	Protection by Pyruvate against Transient Forebrain Ischemia in Rats. <i>Journal of Neuroscience</i> , 2001, 21, RC171-RC171.	1.7	154
29	Nonproteolytic Neuroprotection by Human Recombinant Tissue Plasminogen Activator. <i>Science</i> , 1999, 284, 647-650.	6.0	153
30	Essential Role of E2-25K/Hip-2 in Mediating Amyloid- $\beta$ Neurotoxicity. <i>Molecular Cell</i> , 2003, 12, 553-563.	4.5	151
31	The Role of NADPH Oxidase and Neuronal Nitric Oxide Synthase in Zinc-Induced Poly(ADP-ribose) Polymerase Activation and Cell Death in Cortical Culture. <i>Experimental Neurology</i> , 2002, 177, 407-418.	2.0	150
32	Zinc released from metallothionein-iii may contribute to hippocampal CA1 and thalamic neuronal death following acute brain injury. <i>Experimental Neurology</i> , 2003, 184, 337-347.	2.0	150
33	Zinc and 4-Hydroxy-2-Nonenal Mediate Lysosomal Membrane Permeabilization Induced by $H_2O_2$ in Cultured Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 3114-3122.	1.7	136
34	Neuronal Zinc Exchange with the Blood Vessel Wall Promotes Cerebral Amyloid Angiopathy in an Animal Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2004, 24, 3453-3459.	1.7	135
35	BIX-01294 induces autophagy-associated cell death via EHMT2/G9a dysfunction and intracellular reactive oxygen species production. <i>Autophagy</i> , 2013, 9, 2126-2139.	4.3	134
36	Cultured striatal neurons containing NADPH-diaphorase or acetylcholinesterase are selectively resistant to injury by NMDA receptor agonists. <i>Brain Research</i> , 1988, 446, 374-378.	1.1	129

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37	Induction of an Immediate Early Gene <i>egr-1</i> by Zinc Through Extracellular Signal-Regulated Kinase Activation in Cortical Culture. <i>Journal of Neurochemistry</i> , 2002, 73, 450-456.	2.1	119
38	Histochemically Reactive Zinc in Plaques of the Swedish Mutant $\beta^2$ -Amyloid Precursor Protein Transgenic Mice. <i>Journal of Neuroscience</i> , 1999, 19, RC10-RC10.	1.7	116
39	Programmed cell death: its possible contribution to neurotoxicity mediated by calcium channel antagonists. <i>Brain Research</i> , 1992, 587, 233-240.	1.1	114
40	Mediation by Membrane Protein Kinase C of Zinc-Induced Oxidative Neuronal Injury in Mouse Cortical Cultures. <i>Journal of Neurochemistry</i> , 2001, 72, 1609-1616.	2.1	113
41	Co-Induction of p75 <sup>NTR</sup> and p75 <sup>NTR</sup> -Associated Death Executor in Neurons After Zinc Exposure in Cortical Culture or Transient Ischemia in the Rat. <i>Journal of Neuroscience</i> , 2000, 20, 9096-9103.	1.7	112
42	Synaptic release of zinc from brain slices: Factors governing release, imaging, and accurate calculation of concentration. <i>Journal of Neuroscience Methods</i> , 2006, 154, 19-29.	1.3	109
43	Oxidative injury triggers autophagy in astrocytes: The role of endogenous zinc. <i>Glia</i> , 2009, 57, 1351-1361.	2.5	109
44	B- Amyloid increases neuronal susceptibility to injury by glucose deprivation. <i>NeuroReport</i> , 1991, 2, 763-765.	0.6	108
45	A Novel Neuroprotective Mechanism of Riluzole: Direct Inhibition of Protein Kinase C. <i>Neurobiology of Disease</i> , 2000, 7, 375-383.	2.1	107
46	Zinc(II) ion mediates tamoxifen-induced autophagy and cell death in MCF-7 breast cancer cell line. <i>BioMetals</i> , 2010, 23, 997-1013.	1.8	105
47	Trans-synaptic zinc mobilization improves social interaction in two mouse models of autism through NMDAR activation. <i>Nature Communications</i> , 2015, 6, 7168.	5.8	101
48	Zinc and Disease of the Brain. <i>Molecular Neurobiology</i> , 2001, 24, 099-106.	1.9	100
49	l-Homocysteate is a potent neurotoxin on cultured cortical neurons. <i>Brain Research</i> , 1987, 437, 103-110.	1.1	99
50	Selective blockade of non-NMDA receptors does not block rapidly triggered glutamate-induced neuronal death. <i>Brain Research</i> , 1991, 548, 318-321.	1.1	83
51	Estrogen Decreases Zinc Transporter 3 Expression and Synaptic Vesicle Zinc Levels in Mouse Brain. <i>Journal of Biological Chemistry</i> , 2004, 279, 8602-8607.	1.6	80
52	Depletion of Intracellular Zinc Induces Protein Synthesis-Dependent Neuronal Apoptosis in Mouse Cortical Culture. <i>Experimental Neurology</i> , 1998, 154, 47-56.	2.0	78
53	N-Methyl-d-aspartate Receptor Blockade Induces Neuronal Apoptosis in Cortical Culture. <i>Experimental Neurology</i> , 1999, 159, 124-130.	2.0	77
54	Lysosomal dysfunction in proteinopathic neurodegenerative disorders: possible therapeutic roles of cAMP and zinc. <i>Molecular Brain</i> , 2019, 12, 18.	1.3	75

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55	Protection by Pyruvate of Rat Retinal Cells against Zinc Toxicity In Vitro, and Pressure-Induced Ischemia In Vivo. <i>Investigative Ophthalmology and Visual Science</i> , 2004, 45, 1523-1530.	3.3	72
56	Induction of Autophagy and Cell Death by Tamoxifen in Cultured Retinal Pigment Epithelial and Photoreceptor Cells. , 2012, 53, 5344.		69
57	Depletion of Intracellular Zinc from Neurons by Use of an Extracellular Chelator In Vivo and In Vitro. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 1659-1662.	1.3	68
58	Neuropathogenic role of adenylate kinase-1 in A $\beta$ -mediated tau phosphorylation via AMPK and GSK3 $\beta$ . <i>Human Molecular Genetics</i> , 2012, 21, 2725-2737.	1.4	67
59	Increased excitotoxic vulnerability of cortical cultures with reduced levels of glutathione. <i>European Journal of Pharmacology</i> , 1991, 192, 199-200.	1.7	65
60	Developmental endothelial locus-1 is a homeostatic factor in the central nervous system limiting neuroinflammation and demyelination. <i>Molecular Psychiatry</i> , 2015, 20, 880-888.	4.1	65
61	Ethambutol-Induced Vacuolar Changes and Neuronal Loss in Rat Retinal Cell Culture: Mediation by Endogenous Zinc. <i>Toxicology and Applied Pharmacology</i> , 2000, 162, 107-114.	1.3	62
62	Autophagy activation and neuroprotection by progesterone in the G93A-SOD1 transgenic mouse model of amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2013, 59, 80-85.	2.1	62
63	Clioquinol induces autophagy in cultured astrocytes and neurons by acting as a zinc ionophore. <i>Neurobiology of Disease</i> , 2011, 42, 242-251.	2.1	61
64	Inflammatory and Hemostatic Biomarkers Associated With Early Recurrent Ischemic Lesions in Acute Ischemic Stroke. <i>Stroke</i> , 2009, 40, 1653-1658.	1.0	59
65	Down-regulation of Mortalin Exacerbates A $\beta$ -mediated Mitochondrial Fragmentation and Dysfunction. <i>Journal of Biological Chemistry</i> , 2014, 289, 2195-2204.	1.6	58
66	Prediction of Alzheimer's disease pathophysiology based on cortical thickness patterns. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2016, 2, 58-67.	1.2	58
67	Antioxidative and Proapoptotic Effects of Riluzole on Cultured Cortical Neurons. <i>Journal of Neurochemistry</i> , 1999, 72, 716-723.	2.1	55
68	The role of NADPH oxidase, neuronal nitric oxide synthase and poly(ADP ribose) polymerase in oxidative neuronal death induced in cortical cultures by brain-derived neurotrophic factor and neurotrophin-4/5. <i>Journal of Neurochemistry</i> , 2002, 82, 894-902.	2.1	54
69	Systemic pyruvate administration markedly reduces infarcts and motor deficits in rat models of transient and permanent focal cerebral ischemia. <i>Neurobiology of Disease</i> , 2007, 26, 94-104.	2.1	54
70	Metallothionein $\beta$ 3 regulates lysosomal function in cultured astrocytes under both normal and oxidative conditions. <i>Glia</i> , 2010, 58, 1186-1196.	2.5	52
71	Raloxifene Induces Autophagy-Dependent Cell Death in Breast Cancer Cells via the Activation of AMP-Activated Protein Kinase. <i>Molecules and Cells</i> , 2015, 38, 138-144.	1.0	51
72	Zinc and LTP. <i>Nature</i> , 1989, 338, 212-212.	13.7	50

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73	Autism phenotypes in ZnT3 null mice: Involvement of zinc dyshomeostasis, MMP-9 activation and BDNF upregulation. <i>Scientific Reports</i> , 2016, 6, 28548.	1.6	49
74	Depletion of intracellular zinc induces macromolecule synthesis- and caspase-dependent apoptosis of cultured retinal cells. <i>Brain Research</i> , 2000, 869, 39-48.	1.1	47
75	Inhibitory Effect of Bevacizumab on the Angiogenesis and Growth of Retinoblastoma. <i>JAMA Ophthalmology</i> , 2008, 126, 953.	2.6	47
76	Metallothionein-3 modulates the amyloid $\beta^2$ endocytosis of astrocytes through its effects on actin polymerization. <i>Molecular Brain</i> , 2015, 8, 84.	1.3	47
77	Inhibition of EHMT2/G9a epigenetically increases the transcription of <i>Beclin-1</i> via an increase in ROS and activation of NF- $\kappa$ B. <i>Oncotarget</i> , 2016, 7, 39796-39808.	0.8	46
78	Progressive neuronal loss and behavioral impairments of transgenic C57BL/6 inbred mice expressing the carboxy terminus of amyloid precursor protein. <i>Neurobiology of Disease</i> , 2006, 22, 10-24.	2.1	45
79	Metallothionein-3 as a multifunctional player in the control of cellular processes and diseases. <i>Molecular Brain</i> , 2020, 13, 116.	1.3	45
80	Glutamate Neurotoxicity, Calcium, and Zinc. <i>Annals of the New York Academy of Sciences</i> , 1989, 568, 219-224.	1.8	44
81	Early Recurrent Ischemic Lesions on Diffusion-Weighted Imaging in Symptomatic Intracranial Atherosclerosis. <i>Archives of Neurology</i> , 2007, 64, 50.	4.9	44
82	Accumulation of labile zinc in neurons and astrocytes in the spinal cords of G93A SOD-1 transgenic mice. <i>Neurobiology of Disease</i> , 2009, 34, 221-229.	2.1	44
83	A metabotropic glutamate receptor agonist does not mediate neuronal degeneration in cortical culture. <i>Brain Research</i> , 1991, 561, 338-343.	1.1	43
84	Essential Role for Zinc-Triggered p75 <sup>NTR</sup> Activation in Preconditioning Neuroprotection. <i>Journal of Neuroscience</i> , 2008, 28, 10919-10927.	1.7	43
85	Dependence of the histofluorescently reactive zinc pool on zinc transporter-3 in the normal brain. <i>Brain Research</i> , 2011, 1418, 12-22.	1.1	43
86	Ursodeoxycholic Acid Attenuates Endoplasmic Reticulum Stress-Related Retinal Pericyte Loss in Streptozotocin-Induced Diabetic Mice. <i>Journal of Diabetes Research</i> , 2017, 2017, 1-10.	1.0	41
87	Tissue plasminogen activator arrests Alzheimer's disease pathogenesis. <i>Neurobiology of Aging</i> , 2014, 35, 511-519.	1.5	40
88	TrkB mediates BDNF-induced potentiation of neuronal necrosis in cortical culture. <i>Neurobiology of Disease</i> , 2003, 14, 110-119.	2.1	39
89	Non-proteolytic neurotrophic effects of tissue plasminogen activator on cultured mouse cerebrocortical neurons. <i>Journal of Neurochemistry</i> , 2007, 101, 1236-1247.	2.1	39
90	Augmentation by zinc of NMDA receptor-mediated synaptic responses in CA1 of rat hippocampal slices: Mediation by Src family tyrosine kinases. <i>Synapse</i> , 2002, 46, 49-56.	0.6	38

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91	Copper activates TrkB in cortical neurons in a metalloproteinase-dependent manner. <i>Journal of Neuroscience Research</i> , 2007, 85, 2160-2166.	1.3	38
92	The role of reciprocal activation of cAbl and Mst1 in the Oxidative death of cultured astrocytes. <i>Glia</i> , 2014, 62, 639-648.	2.5	38
93	Anti-Angiogenic Effect of Metformin in Mouse Oxygen-Induced Retinopathy Is Mediated by Reducing Levels of the Vascular Endothelial Growth Factor Receptor Flk-1. <i>PLoS ONE</i> , 2015, 10, e0119708.	1.1	37
94	Alteration of the Cerebral Zinc Pool in a Mouse Model of Alzheimer Disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 2012, 71, 211-222.	0.9	34
95	Comparative analyses of plasma amyloid- $\beta$ levels in heterogeneous and monomerized states by interdigitated microelectrode sensor system. <i>Science Advances</i> , 2019, 5, eaav1388.	4.7	34
96	Loss of HSPA9 induces peroxisomal degradation by increasing pexophagy. <i>Autophagy</i> , 2020, 16, 1989-2003.	4.3	34
97	Cytosolic labile zinc accumulation in degenerating dopaminergic neurons of mouse brain after MPTP treatment. <i>Brain Research</i> , 2009, 1286, 208-214.	1.1	33
98	Neuroprotection by urokinase plasminogen activator in the hippocampus. <i>Neurobiology of Disease</i> , 2012, 46, 215-224.	2.1	33
99	Induction by Synaptic Zinc of Heat Shock Protein-70 in Hippocampus after Kainate Seizures. <i>Experimental Neurology</i> , 2000, 161, 433-441.	2.0	32
100	Upregulation of tPA/plasminogen proteolytic system in the periphery of amyloid deposits in the Tg2576 mouse model of Alzheimer's disease. <i>Neuroscience Letters</i> , 2007, 423, 82-87.	1.0	32
101	Induction of pro-apoptotic calsenilin/DREAM/KChIP3 in Alzheimer's disease and cultured neurons after amyloid- $\beta$ exposure. <i>Journal of Neurochemistry</i> , 2004, 88, 1570-1570.	2.1	31
102	Endogenous Zinc Mediates Apoptotic Programmed Cell Death in the Developing Brain. <i>Neurotoxicity Research</i> , 2010, 17, 156-166.	1.3	31
103	Abnormalities in the zinc-metalloprotease-BDNF axis may contribute to megalencephaly and cortical hyperconnectivity in young autism spectrum disorder patients. <i>Molecular Brain</i> , 2014, 7, 64.	1.3	31
104	Heterogeneous nuclear ribonucleoprotein A1 post-transcriptionally regulates Drp1 expression in neuroblastoma cells. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 1423-1431.	0.9	31
105	The involvement of caspase-11 in TPEN-induced apoptosis. <i>FEBS Letters</i> , 2008, 582, 1871-1876.	1.3	30
106	AMP-activated protein kinase contributes to zinc-induced neuronal death via activation by LKB1 and induction of Bim in mouse cortical cultures. <i>Molecular Brain</i> , 2016, 9, 14.	1.3	30
107	Pyruvate protects against kainate-induced epileptic brain damage in rats. <i>Experimental Neurology</i> , 2007, 208, 159-167.	2.0	29
108	The zinc ionophore clioquinol reverses autophagy arrest in chloroquine-treated ARPE-19 cells and in APP/mutant presenilin-1-transfected Chinese hamster ovary cells. <i>Neurobiology of Aging</i> , 2015, 36, 3228-3238.	1.5	29

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109	The neurosteroids, allopregnanolone and progesterone, induce autophagy in cultured astrocytes. <i>Neurochemistry International</i> , 2012, 60, 125-133.	1.9	27
110	Epidermal Growth Factor Induces Oxidative Neuronal Injury in Cortical Culture. <i>Journal of Neurochemistry</i> , 2001, 75, 298-303.	2.1	25
111	Down-regulated TMED10 in Alzheimer disease induces autophagy via ATG4B activation. <i>Autophagy</i> , 2019, 15, 1495-1505.	4.3	25
112	Role of Zinc Metallothionein-3 (ZnMt3) in Epidermal Growth Factor (EGF)-induced c-Abl Protein Activation and Actin Polymerization in Cultured Astrocytes. <i>Journal of Biological Chemistry</i> , 2011, 286, 40847-40856.	1.6	24
113	Danthron Inhibits the Neurotoxicity Induced by Various Compounds Causing Oxidative Damages Including .BETA.-Amyloid (25-35) in Primary Cortical Cultures. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 723-726.	0.6	22
114	Riluzole Inhibits VEGF-Induced Endothelial Cell Proliferation In Vitro and Hyperoxia-Induced Abnormal Vessel Formation In Vivo. , 2005, 46, 4780.		22
115	Zinc transporter 3 modulates cell proliferation and neuronal differentiation in the adult hippocampus. <i>Stem Cells</i> , 2020, 38, 994-1006.	1.4	22
116	Down-regulation of ARC contributes to vulnerability of hippocampal neurons to ischemia/hypoxia. <i>FEBS Letters</i> , 2003, 543, 170-173.	1.3	21
117	Co-induction of p75NTR and the associated death executor NADE in degenerating hippocampal neurons after kainate-induced seizures in the rat. <i>Neuroscience Letters</i> , 2003, 347, 126-130.	1.0	21
118	Apolipoprotein E ablation decreases synaptic vesicular zinc in the brain. <i>BioMetals</i> , 2010, 23, 1085-1095.	1.8	21
119	Mechanism of Zinc Excitotoxicity: A Focus on AMPK. <i>Frontiers in Neuroscience</i> , 2020, 14, 577958.	1.4	21
120	Insulin-induced Oxidative Neuronal Injury in Cortical Culture: Mediation by Induced N-methyl-D-aspartate Receptors. <i>JUBMB Life</i> , 1999, 48, 263-269.	1.5	20
121	Contribution of Zinc-Dependent Delayed Calcium Influx via TRPC5 in Oxidative Neuronal Death and its Prevention by Novel TRPC Antagonist. <i>Molecular Neurobiology</i> , 2019, 56, 2822-2835.	1.9	20
122	Zinc-triggered induction of tissue plasminogen activator by brain-derived neurotrophic factor and metalloproteinases. <i>Journal of Neurochemistry</i> , 2011, 118, 855-863.	2.1	19
123	Obesity and downregulated hypothalamic leptin receptors in male metallothionein-3-null mice. <i>Neurobiology of Disease</i> , 2011, 44, 125-132.	2.1	19
124	A role of metallothionein-3 in radiation-induced autophagy in glioma cells. <i>Scientific Reports</i> , 2020, 10, 2015.	1.6	19
125	Protein synthesis-dependent but Bcl-2-independent cytochrome C release in zinc depletion-induced neuronal apoptosis. <i>Journal of Neuroscience Research</i> , 2000, 61, 508-514.	1.3	18
126	NR2A induction and NMDA receptor-dependent neuronal death by neurotrophin-4/5 in cortical cell culture. <i>Journal of Neurochemistry</i> , 2003, 88, 708-716.	2.1	18



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127	Cytosolic labile zinc: a marker for apoptosis in the developing rat brain. <i>European Journal of Neuroscience</i> , 2006, 23, 435-442.	1.2	18
128	Insulin-Induced Oxidative Neuronal Injury in Cortical Culture: Mediation by Induced N-Methyl-D-aspartate Receptors. <i>IUBMB Life</i> , 1999, 48, 263-269.	1.5	16
129	High vulnerability of GABA-immunoreactive neurons to kainate in rat retinal cultures: correlation with the kainate-stimulated cobalt uptake. <i>Brain Research</i> , 1999, 823, 33-41.	1.1	16
130	A novel mechanism for the pyruvate protection against zinc-induced cytotoxicity: mediation by the chelating effect of citrate and isocitrate. <i>Archives of Pharmacal Research</i> , 2016, 39, 1151-1159.	2.7	16
131	The anti-ALS drug riluzole attenuates pericyte loss in the diabetic retinopathy of streptozotocin-treated mice. <i>Toxicology and Applied Pharmacology</i> , 2017, 315, 80-89.	1.3	16
132	Medial Medullary Infarction with Restricted Sensory Symptom. <i>European Neurology</i> , 1998, 39, 174-177.	0.6	15
133	Infarct reduction in rats following intraventricular administration of either tissue plasminogen activator (tPA) or its non-protease mutant S478A-tPA. <i>Experimental Neurology</i> , 2004, 189, 354-360.	2.0	15
134	Methallothionein-3 contributes to vascular endothelial growth factor induction in a mouse model of choroidal neovascularization. <i>Metallomics</i> , 2013, 5, 1387.	1.0	15
135	Zinc transporter 3 (ZnT3) gene deletion reduces spinal cord white matter damage and motor deficits in a murine MOG-induced multiple sclerosis model. <i>Neurobiology of Disease</i> , 2016, 94, 205-212.	2.1	15
136	Roles for H <sup>+</sup> /K <sup>+</sup> -ATPase and zinc transporter 3 in cAMP-mediated lysosomal acidification in bafilomycin A1-treated astrocytes. <i>Glia</i> , 2021, 69, 1110-1125.	2.5	15
137	Angiotensin II potentiates zinc-induced cortical neuronal death by acting on angiotensin II type 2 receptor. <i>Molecular Brain</i> , 2013, 6, 50.	1.3	13
138	Role of zinc dyshomeostasis in inflammasome formation in cultured cortical cells following lipopolysaccharide or oxygen-glucose deprivation/reperfusion exposure. <i>Neurobiology of Disease</i> , 2020, 137, 104771.	2.1	12
139	The role of metallothionein-3 in streptozotocin-induced beta-islet cell death and diabetes in mice. <i>Metallomics</i> , 2014, 6, 1748.	1.0	11
140	Efficacy and safety of aflibercept in in vitro and in vivo models of retinoblastoma. <i>Journal of Experimental and Clinical Cancer Research</i> , 2016, 35, 171.	3.5	10
141	Cilostazol restores autophagy flux in bafilomycin A1-treated, cultured cortical astrocytes through lysosomal reacidification: roles of PKA, zinc and metallothionein 3. <i>Scientific Reports</i> , 2020, 10, 9175.	1.6	10
142	Presenilin 1 mediates protein kinase C dependent $\beta$ -secretase derived amyloid precursor protein secretion and mitogen-activated protein kinase activation in presenilin 1 transfected human embryonic kidney 293 cell. <i>Neuroscience Letters</i> , 1999, 269, 99-102.	1.0	8
143	Insulin Increases Retinal Hemorrhage in Mild Oxygen-Induced Retinopathy in the Rat: Inhibition by Riluzole. , 2007, 48, 5671.		8
144	Potential Role of Zinc Dyshomeostasis in Matrix Metalloproteinase-2 and -9 Activation and Photoreceptor Cell Death in Experimental Retinal Detachment. , 2018, 59, 3058.		8

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145	Aflibercept ameliorates retinal pericyte loss and restores perfusion in streptozotocin-induced diabetic mice. <i>BMJ Open Diabetes Research and Care</i> , 2020, 8, e001278.	1.2	8
146	Design and biological evaluation of novel antioxidants containing N-t-Butyl-N-hydroxylaminophenyl moieties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2273-2275.	1.0	7
147	Indomethacin preconditioning induces ischemic tolerance by modifying zinc availability in the brain. <i>Neurobiology of Disease</i> , 2015, 81, 186-195.	2.1	7
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149	Changes in plasma lipoxin A4, resolvins and CD59 levels after ischemic and traumatic brain injuries in rats. <i>Korean Journal of Physiology and Pharmacology</i> , 2020, 24, 165.	0.6	7
150	Pyruvate and cilostazol protect cultured rat cortical pericytes against tissue plasminogen activator (tPA)-induced cell death. <i>Brain Research</i> , 2015, 1628, 317-326.	1.1	6
151	A Novel Zinc Chelator, 1H10, Ameliorates Experimental Autoimmune Encephalomyelitis by Modulating Zinc Toxicity and AMPK Activation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3375.	1.8	6
152	Angiotensin-1 blocks neurotoxic zinc entry into cortical cells via PIP2 hydrolysis-mediated ion channel inhibition. <i>Neurobiology of Disease</i> , 2015, 81, 203-213.	2.1	5
153	Suppression of Cpn10 Increases Mitochondrial Fission and Dysfunction in Neuroblastoma Cells. <i>PLoS ONE</i> , 2014, 9, e112130.	1.1	5
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155	Protein synthesis-dependent but Bcl-2-independent cytochrome C release in zinc depletion-induced neuronal apoptosis. <i>Journal of Neuroscience Research</i> , 2000, 61, 508-514.	1.3	2
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