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## The role of zinc in cerebral ischemia

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#	Paper	IF	Citations
80	Mechanisms of Zn <sup>2+</sup> efflux in cultured cortical neurons. <i>Journal of Neurochemistry</i> , <b>2008</b> , 107, 1304-13	6	18
79	Potential contribution of a voltage-activated proton conductance to acid extrusion from rat hippocampal neurons. <i>Neuroscience</i> , <b>2008</b> , 151, 1084-98	3.9	20
78	Essential role for zinc-triggered p75NTR activation in preconditioning neuroprotection. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 10919-27	6.6	40
77	Zinc and cortical plasticity. <i>Brain Research Reviews</i> , <b>2009</b> , 59, 347-73		133
76	Zinc: the brain's dark horse. <i>Synapse</i> , <b>2009</b> , 63, 1029-49	2.4	206
75	Rising zinc: a significant cause of ischemic neuronal death in the CA1 region of rat hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2009</b> , 29, 1399-408	7.3	46
74	Intracellular zinc inhibits KCC2 transporter activity. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 725-7	25.5	48
73	Zn <sup>2+</sup> regulates Kv2.1 voltage-dependent gating and localization following ischemia. <i>European Journal of Neuroscience</i> , <b>2009</b> , 30, 2250-7	3.5	21
72	The ubiquitous role of zinc in health and disease. <i>Journal of Veterinary Emergency and Critical Care</i> , <b>2009</b> , 19, 215-40	1.7	71
71	Solution and fluorescence properties of symmetric dipicolylamine-containing dichlorofluorescein-based Zn <sup>2+</sup> sensors. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 7142-52	16.4	124
70	Nitric oxide in health and disease of the nervous system. <i>Antioxidants and Redox Signaling</i> , <b>2009</b> , 11, 541-54	5.4	165
69	Zinc fingers as biologic redox switches?. <i>Antioxidants and Redox Signaling</i> , <b>2009</b> , 11, 1015-27	8.4	84
68	Poststroke nutrition - part 1. <i>Arbor Clinical Nutrition Updates</i> , <b>2010</b> , 320, 1-5		
67	Zinc homeostatic proteins in the CNS are regulated by crosstalk between extracellular and intracellular zinc. <i>Journal of Cellular Physiology</i> , <b>2010</b> , 224, 567-74	7	9
66	Zinc release from thapsigargin/IP3-sensitive stores in cultured cortical neurons. <i>Journal of Molecular Signaling</i> , <b>2010</b> , 5, 5	1	46
65	Effect of methylene blue on the genomic response to reperfusion injury induced by cardiac arrest and cardiopulmonary resuscitation in porcine brain. <i>BMC Medical Genomics</i> , <b>2010</b> , 3, 27	3.7	22
64	Clinical significance of serum zinc levels in cerebral ischemia. <i>Stroke Research and Treatment</i> , <b>2011</b> , 2010, 245715	1.7	14

63	Zn <sup>2+</sup> -triggered amide tautomerization produces a highly Zn <sup>2+</sup> -selective, cell-permeable, and ratiometric fluorescent sensor. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 601-10	16.4	616
62	Cell-trappable quinoline-derivatized fluoresceins for selective and reversible biological Zn(II) detection. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 9535-45	5.1	45
61	Solid-phase speciation of Zn in road dust sediment. <i>Mineralogical Magazine</i> , <b>2011</b> , 75, 2611-2629	1.7	7
60	Spreading depression and related events are significant sources of neuronal Zn <sup>2+</sup> release and accumulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 1073-84	7.3	29
59	The Membrane-Activated Chelator Stroke Intervention (MACSI) Trial of DP-b99 in acute ischemic stroke: a randomized, double-blind, placebo-controlled, multinational pivotal phase III study. <i>International Journal of Stroke</i> , <b>2011</b> , 6, 362-7	6.3	25
58	Cardioprotective effect of zinc requires ErbB2 and Akt during hypoxia/reoxygenation. <i>BioMetals</i> , <b>2011</b> , 24, 171-80	3.4	33
57	Synaptic release and extracellular actions of Zn <sup>2+</sup> limit propagation of spreading depression and related events in vitro and in vivo. <i>Journal of Neurophysiology</i> , <b>2012</b> , 107, 1032-41	3.2	21
56	Zinc in Stroke: Time for a New Approach?. <b>2012</b> , 209-226		2
55	Zinc Overload in Stroke. <b>2012</b> , 167-189		7
54	Fluorescent zinc sensor with minimized proton-induced interferences: photophysical mechanism for fluorescence turn-on response and detection of endogenous free zinc ions. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8760-74	5.1	109
53	Quantitative imaging of mitochondrial and cytosolic free zinc levels in an in vitro model of ischemia/reperfusion. <i>Journal of Bioenergetics and Biomembranes</i> , <b>2012</b> , 44, 253-63	3.7	49
52	Zinc promotes the death of hypoxic astrocytes by upregulating hypoxia-induced hypoxia-inducible factor-1alpha expression via poly(ADP-ribose) polymerase-1. <i>CNS Neuroscience and Therapeutics</i> , <b>2013</b> , 19, 511-20	6.8	25
51	The role of zinc in immunity and inflammation. <b>2013</b> , 123-156		6
50	Formation and Rupture of a Supramolecular Nanocapsule Triggered on/off/on Supramolecular Switch for Zn <sup>2+</sup> . <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 2591-2596	3.2	3
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48	Kv3 channel assembly, trafficking and activity are regulated by zinc through different binding sites. <i>Journal of Physiology</i> , <b>2013</b> , 591, 2491-507	3.9	11
47	A novel 2,6-diformyl-4-methylphenol based chemosensor for Zn(II) ions by ratiometric displacement of Cd(II) ions and its application for cell imaging on human melanoma cancer cells. <i>Analyst, The</i> , <b>2014</b> , 139, 495-504	5	42
46	Transition metals activate TFEB in overexpressing cells. <i>Biochemical Journal</i> , <b>2015</b> , 470, 65-76	3.8	18

45	The Zinc Ion Chelating Agent TPEN Attenuates Neuronal Death/apoptosis Caused by Hypoxia/ischemia Via Mediating the Pathophysiological Cascade Including Excitotoxicity, Oxidative Stress, and Inflammation. <i>CNS Neuroscience and Therapeutics</i> , <b>2015</b> , 21, 708-17	6.8	13
44	Reduction of zinc accumulation in mitochondria contributes to decreased cerebral ischemic injury by normobaric hyperoxia treatment in an experimental stroke model. <i>Experimental Neurology</i> , <b>2015</b> , 272, 181-9	5.7	18
43	A thiacalix[4]crown based chemosensor for Zn <sup>2+</sup> and H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> sequential logic operations at the molecular level. <i>Dalton Transactions</i> , <b>2015</b> , 44, 6062-8	4.3	20
42	A highly selective fluorescent chemosensor based on a quinoline derivative for zinc ions in pure water. <i>RSC Advances</i> , <b>2015</b> , 5, 60796-60803	3.7	21
41	Autophagy Mediates Astrocyte Death During Zinc-Potentiated Ischemia--Reperfusion Injury. <i>Biological Trace Element Research</i> , <b>2015</b> , 166, 89-95	4.5	23
40	Zinc contributes to acute cerebral ischemia-induced blood-brain barrier disruption. <i>Neurobiology of Disease</i> , <b>2016</b> , 95, 12-21	7.5	28
39	Imine-functionalized thioether Zn(II) turn-on fluorescent sensor and its selective sequential logic operations with H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> DFT computation and live cell imaging. <i>RSC Advances</i> , <b>2016</b> , 6, 53378-53388	3.7	24
38	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> , <b>2016</b> , 9, 14	4.5	20
37	Ratiometric Fluorescent Determination of the Zinc Ion Using a Terpyridine Derivative. <i>Analytical Letters</i> , <b>2017</b> , 50, 402-413	2.2	2
36	Macrocyclic aza-crown chromogenic reagent to Al <sup>3+</sup> and fluorescence sensor for Zn <sup>2+</sup> and Al <sup>3+</sup> along with live cell application and logic operation. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 252, 257-267	8.5	22
35	A fluorescence turn-on sensor for multiple analytes: OAc <sup>-</sup> and F <sup>-</sup> triggered fluorogenic detection of Zn <sup>2+</sup> in a co-operative fashion. <i>Tetrahedron</i> , <b>2017</b> , 73, 5418-5424	2.4	14
34	Protein-Energy Malnutrition Exacerbates Stroke-Induced Forelimb Abnormalities and Dampens Neuroinflammation. <i>Translational Stroke Research</i> , <b>2018</b> , 9, 622-630	7.8	10
33	Long-Lived Emissive Probes for Time-Resolved Photoluminescence Bioimaging and Biosensing. <i>Chemical Reviews</i> , <b>2018</b> , 118, 1770-1839	68.1	428
32	Studies on a multifunctional chromo-fluorogenic sensor for dual channel recognition of Zn <sup>2+</sup> and CN <sup>-</sup> ions in aqueous media: mimicking multiple molecular logic gates and memory devices. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2158-2166	3.6	26
31	Zinc ions regulate opening of tight junction favouring efflux of macromolecules via the GSK3 $\beta$ /snail-mediated pathway. <i>Metallomics</i> , <b>2018</b> , 10, 169-179	4.5	10
30	Zinc preconditioning protects against renal ischaemia reperfusion injury in a preclinical sheep large animal model. <i>BioMetals</i> , <b>2018</b> , 31, 821-834	3.4	12
29	Increased Zinc Serum Level: New Clues in Babol Stroke Patients, Northern Iran. <i>Stroke Research and Treatment</i> , <b>2018</b> , 2018, 7681682	1.7	5
28	Potential Role of Zinc Dyshomeostasis in Matrix Metalloproteinase-2 and -9 Activation and Photoreceptor Cell Death in Experimental Retinal Detachment. <b>2018</b> , 59, 3058-3068		5

27	Zinc causes the death of hypoxic astrocytes by inducing ROS production through mitochondria dysfunction. <i>Biophysics Reports</i> , <b>2019</b> , 5, 209-217	3.5	4
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22	Characterization of metal element distributions in the rat brain following ischemic stroke by synchrotron radiation micro-fluorescence analysis. <i>Nuclear Science and Techniques/Hewuli</i> , <b>2020</b> , 31, 1	2.1	3
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20	Show Me Your Friends and I Tell You Who You Are: The Many Facets of Prion Protein in Stroke. <i>Cells</i> , <b>2020</b> , 9,	7.9	2
19	Spontaneous, synchronous zinc spikes oscillate with neural excitability and calcium spikes in primary hippocampal neuron culture. <i>Journal of Neurochemistry</i> , <b>2021</b> , 157, 1838-1849	6	4
18	Evolutionary rate covariation identifies SLC30A9 (ZnT9) as a mitochondrial zinc transporter.		1
17	Serum/Plasma Zinc Is Apparently Increased in Ischemic Stroke: a Meta-analysis. <i>Biological Trace Element Research</i> , <b>2021</b> , 1	4.5	0
16	Extended sawhorse waveform for stable zinc detection with fast-scan cyclic voltammetry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 6727-6735	4.4	0
15	Serum Zinc Levels and Incidence of Ischemic Stroke: The Reasons for Geographic and Racial Differences in Stroke Study. <i>Stroke</i> , <b>2021</b> , 52, 3953-3960	6.7	1
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11	Protective effect of zinc preconditioning against renal ischemia reperfusion injury is dose dependent. <i>PLoS ONE</i> , <b>2017</b> , 12, e0180028	3.7	31
10	Revisiting Metal Toxicity in Neurodegenerative Diseases and Stroke: Therapeutic Potential. <b>2014</b> , 1,		9

9	Heavy Metals and White Matter Injury. <b>2014</b> , 555-570		
8	Time-dependent changes in cerebrospinal fluid metal ions following aneurysm subarachnoid hemorrhage and their association with cerebral vasospasm. <i>Acta Neurochirurgica Supplementum</i> , <b>2015</b> , 120, 63-8	1.7	
7	FAD-Linked Autofluorescence and Chemically-Evoked Zinc Changes at Hippocampal Mossy Fiber-CA3 Synapses.		
6	Initiation of Neurodegenerative Disorders (NDDs) Through Metal Toxicity Generated Oxidative Stress. <i>Molecular and Integrative Toxicology</i> , <b>2021</b> , 263-277	0.5	
5	Esculetin and Fucoidan Attenuate Autophagy and Apoptosis Induced by Zinc Oxide Nanoparticles through Modulating Reactive Astrocyte and Proinflammatory Cytokines in the Rat Brain.. <i>Toxics</i> , <b>2022</b> , 10,	4.7	0
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3	MECHANIZMS OF APOPTOSIS IN CEREBRAL ISCHEMIA. <b>2009</b> , 94-99		0
2	Zinc accumulation aggravates cerebral ischemia/reperfusion injury by promoting inflammation. 17,		0
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