Sang Won Suh

List of Publications by Year
in descending order

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123 papers	13,490 citations	66234 42 h-index	21474 114 g-index
130 all docs	130 docs citations	130 times ranked	21551 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	The Role of Zinc in Selective Neuronal Death After Transient Global Cerebral Ischemia. Science, 1996, 272, 1013-1016.	6.0	1,007
3	Importance of Zinc in the Central Nervous System: The Zinc-Containing Neuron. Journal of Nutrition, 2000, 130, 1471S-1483S.	1.3	720
4	NADPH oxidase is the primary source of superoxide induced by NMDA receptor activation. Nature Neuroscience, 2009, 12, 857-863.	7.1	466
5	Neuronal glutathione deficiency and age-dependent neurodegeneration in the EAAC1 deficient mouse. Nature Neuroscience, 2006, 9, 119-126.	7.1	430
6	Contribution by synaptic zinc to the gender-disparate plaque formation in human Swedish mutant APP transgenic mice. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7705-7710.	3.3	409
7	Histochemically-reactive zinc in amyloid plaques, angiopathy, and degenerating neurons of Alzheimer's diseased brains. Brain Research, 2000, 852, 274-278.	1.1	345
8	Hypoglycemic neuronal death is triggered by glucose reperfusion and activation of neuronal NADPH oxidase. Journal of Clinical Investigation, 2007, 117, 910-918.	3.9	343
9	Evidence that synaptically-released zinc contributes to neuronal injury after traumatic brain injury. Brain Research, 2000, 852, 268-273.	1.1	284
10	Rapid Translocation of Zn²⁺From Presynaptic Terminals Into Postsynaptic Hippocampal Neurons After Physiological Stimulation. Journal of Neurophysiology, 2001, 86, 2597-2604.	0.9	246
11	Glucose and NADPH oxidase drive neuronal superoxide formation in stroke. Annals of Neurology, 2008, 64, 654-663.	2.8	246
12	Hypoglycemic Neuronal Death and Cognitive Impairment Are Prevented by Poly(ADP-Ribose) Polymerase Inhibitors Administered after Hypoglycemia. Journal of Neuroscience, 2003, 23, 10681-10690.	1.7	194
13	Direct phosphorylation and regulation of poly(ADP-ribose) polymerase-1 by extracellular signal-regulated kinases 1/2. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7136-7141.	3.3	194
14	Hypoglycemia, brain energetics, and hypoglycemic neuronal death. Glia, 2007, 55, 1280-1286.	2.5	175
15	Astrocyte Glycogen Sustains Neuronal Activity during Hypoglycemia: Studies with the Glycogen Phosphorylase Inhibitor CP-316,819 ([R-R*,S*]-5-Chloro-N-[2-hydroxy-3-(methoxymethylamino)-3-oxo-1-(phenylmethyl)propyl]-1H-indole-2-carboxamide). Journal of Pharmacology and Experimental Therapeutics, 2007, 321, 45-50.	1.3	162
16	Zinc Triggers Microglial Activation. Journal of Neuroscience, 2008, 28, 5827-5835.	1.7	157
17	Decreased Brain Zinc Availability Reduces Hippocampal Neurogenesis in Mice and Rats. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 1579-1588.	2.4	127
18	Pyruvate Administered After Severe Hypoglycemia Reduces Neuronal Death and Cognitive Impairment. Diabetes, 2005, 54, 1452-1458.	0.3	122

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19	Hyperglycemia promotes tissue plasminogen activatorâ€induced hemorrhage by Increasing superoxide production. Annals of Neurology, 2011, 70, 583-590.	2.8	121
20	Nâ€acetylcysteine prevents loss of dopaminergic neurons in the EAAC1^{â^'/â^'} mouse. Annals of Neurology, 2011, 69, 509-520.	2.8	120
21	Fluorescent zinc indicators for neurobiology. Journal of Neuroscience Methods, 2002, 118, 63-75.	1.3	114
22	Inhibition of mitochondrial function in astrocytes: implications for neuroprotection. Journal of Neurochemistry, 2007, 102, 1383-1394.	2.1	104
23	Zinc release contributes to hypoglycemia-induced neuronal death. Neurobiology of Disease, 2004, 16, 538-545.	2.1	101
24	Prevention of traumatic brain injury-induced neuronal death by inhibition of NADPH oxidase activation. Brain Research, 2012, 1481, 49-58.	1.1	101
25	Use of a Poly(ADP-Ribose) Polymerase Inhibitor to Suppress Inflammation and Neuronal Death After Cerebral Ischemia-Reperfusion. Stroke, 2007, 38, 632-636.	1.0	100
26	Sequential Release of Nitric Oxide, Zinc, and Superoxide in Hypoglycemic Neuronal Death. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 1697-1706.	2.4	86
27	Nuclear Factor Erythroid 2-Related Factor 2 Facilitates Neuronal Glutathione Synthesis by Upregulating Neuronal Excitatory Amino Acid Transporter 3 Expression. Journal of Neuroscience, 2011, 31, 7392-7401.	1.7	86
28	Inhibition of Poly(ADP-Ribose) Polymerase Suppresses Inflammation and Promotes Recovery after Ischemic Injury. Journal of Cerebral Blood Flow and Metabolism, 2009, 29, 820-829.	2.4	81
29	Recurrent/moderate hypoglycemia induces hippocampal dendritic injury, microglial activation, and cognitive impairment in diabetic rats. Journal of Neuroinflammation, 2012, 9, 182.	3.1	74
30	Nitric oxide causes apparent release of zinc from presynaptic boutons. Neuroscience, 2002, 115, 471-474.	1.1	68
31	Acidosis Causes Endoplasmic Reticulum Stress and Caspase-12-Mediated Astrocyte Death. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 358-370.	2.4	66
32	Inhibition of NADPH oxidase activation reduces EAE-induced white matter damage in mice. Journal of Neuroinflammation, 2015, 12, 104.	3.1	64
33	Post-treatment of an NADPH oxidase inhibitor prevents seizure-induced neuronal death. Brain Research, 2013, 1499, 163-172.	1.1	61
34	Effects of Protocatechuic Acid (PCA) on Global Cerebral Ischemia-Induced Hippocampal Neuronal Death. International Journal of Molecular Sciences, 2018, 19, 1420.	1.8	58
35	Zinc in the Brain: Friend or Foe?. International Journal of Molecular Sciences, 2020, 21, 8941.	1.8	53
36	Loss of vesicular zinc and appearance of perikaryal zinc after seizures induced by pilocarpine. NeuroReport, 2001, 12, 1523-1525.	0.6	52

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37	Prevention of Traumatic Brain Injury-Induced Neuron Death by Intranasal Delivery of Nicotinamide Adenine Dinucleotide. Journal of Neurotrauma, 2012, 29, 1401-1409.	1.7	52
38	Late treatment with choline alfoscerate (l-alpha glycerylphosphorylcholine, Î±-GPC) increases hippocampal neurogenesis and provides protection against seizure-induced neuronal death and cognitive impairment. Brain Research, 2017, 1654, 66-76.	1.1	52
39	Hypoglycemia Induces Transient Neurogenesis and Subsequent Progenitor Cell Loss in the Rat Hippocampus. Diabetes, 2005, 54, 500-509.	0.3	51
40	Neurotoxic Zinc Translocation into Hippocampal Neurons is Inhibited by Hypothermia and is Aggravated by Hyperthermia after Traumatic Brain Injury in Rats. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 161-169.	2.4	49
41	Copper/zinc chelation by clioquinol reduces spinal cord white matter damage and behavioral deficits in a murine MOG-induced multiple sclerosis model. Neurobiology of Disease, 2013, 54, 382-391.	2.1	48
42	Adipose-Derived Mesenchymal Stem Cells Reduce Neuronal Death After Transient Global Cerebral Ischemia Through Prevention of Blood-Brain Barrier Disruption and Endothelial Damage. Stem Cells Translational Medicine, 2015, 4, 178-185.	1.6	48
43	Poly(ADP-ribose) polymerase-1 activation in a primate model of multiple sclerosis. Journal of Neuroscience Research, 2005, 81, 190-198.	1.3	46
44	EAAC1 Gene Deletion Alters Zinc Homeostasis and Exacerbates Neuronal Injury after Transient Cerebral Ischemia. Journal of Neuroscience, 2010, 30, 15409-15418.	1.7	43
45	Facilitated Neurogenesis in the Developing Hippocampus After Intake of Theanine, an Amino Acid in Tea Leaves, and Object Recognition Memory. Cellular and Molecular Neurobiology, 2011, 31, 1079-1088.	1.7	37
46	Effects of glycemic variability and hyperglycemia in acute ischemic stroke on post-stroke cognitive impairments. Journal of Diabetes and Its Complications, 2018, 32, 682-687.	1.2	37
47	Mild Hypothermia Reduces Zinc Translocation, Neuronal Cell Death, and Mortality after Transient Global Ischemia in Mice. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1231-1238.	2.4	36
48	Zinc chelation reduces traumatic brain injury-induced neurogenesis in the subgranular zone of the hippocampal dentate gyrus. Journal of Trace Elements in Medicine and Biology, 2014, 28, 474-481.	1.5	36
49	Release of synaptic zinc is substantially depressed by conventional brain slice preparations. Brain Research, 2000, 879, 7-12.	1.1	35
50	Zinc Inhibits Astrocyte Glutamate Uptake by Activation of Poly(ADP-ribose) Polymerase-1. Molecular Medicine, 2007, 13, 344-349.	1.9	35
51	Reinforced-hydrogel encapsulated hMSCs towards brain injury treatment by trans-septal approach. Biomaterials, 2021, 266, 120413.	5.7	35
52	Astrocytic poly(ADPâ€ribose) polymeraseâ€1 activation leads to bioenergetic depletion and inhibition of glutamate uptake capacity. Glia, 2010, 58, 446-457.	2.5	34
53	Detection of Pathological Zinc Accumulation In Neurons: Methods for Autopsy, Biopsy, and Cultured Tissue. Journal of Histochemistry and Cytochemistry, 1999, 47, 969-972.	1.3	33
54	Zinc Chelation Reduces Hippocampal Neurogenesis after Pilocarpine-Induced Seizure. PLoS ONE, 2012, 7, e48543.	1.1	33

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55	Zinc Promotes Adipose-Derived Mesenchymal Stem Cell Proliferation and Differentiation towards a Neuronal Fate. Stem Cells International, 2018, 2018, 1-9.	1.2	32
56	Prevention of Acute/Severe Hypoglycemia-Induced Neuron Death by Lactate Administration. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1086-1096.	2.4	31
57	The Emerging Role of Zinc in the Pathogenesis of Multiple Sclerosis. International Journal of Molecular Sciences, 2017, 18, 2070.	1.8	30
58	The cancer chemotherapeutic agent paclitaxel (Taxol) reduces hippocampal neurogenesis via down-regulation of vesicular zinc. Scientific Reports, 2017, 7, 11667.	1.6	28
59	Administration of Protocatechuic Acid Reduces Traumatic Brain Injury-Induced Neuronal Death. International Journal of Molecular Sciences, 2017, 18, 2510.	1.8	27
60	Inhibition of NADPH Oxidase Activation by Apocynin Rescues Seizure-Induced Reduction of Adult Hippocampal Neurogenesis. International Journal of Molecular Sciences, 2018, 19, 3087.	1.8	26
61	The Effects of Sodium Dichloroacetate on Mitochondrial Dysfunction and Neuronal Death Following Hypoglycemia-Induced Injury. Cells, 2019, 8, 405.	1.8	26
62	Alcohol dependence treating agent, acamprosate, prevents traumatic brain injury-induced neuron death through vesicular zinc depletion. Translational Research, 2019, 207, 1-18.	2.2	24
63	Prevention of Hypoglycemia-Induced Neuronal Death by Hypothermia. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 390-402.	2.4	23
64	Carvacrol Attenuates Hippocampal Neuronal Death after Global Cerebral Ischemia via Inhibition of Transient Receptor Potential Melastatin 7. Cells, 2018, 7, 231.	1.8	23
65	Depletion of vesicular zinc in dorsal horn of spinal cord causes increased neuropathic pain in mice. BioMetals, 2008, 21, 151-158.	1.8	22
66	Zinc transporter 3 modulates cell proliferation and neuronal differentiation in the adult hippocampus. Stem Cells, 2020, 38, 994-1006.	1.4	22
67	Decreased cysteine uptake by EAAC1 gene deletion exacerbates neuronal oxidative stress and neuronal death after traumatic brain injury. Amino Acids, 2016, 48, 1619-1629.	1.2	21
68	Human Placenta-Derived Mesenchymal Stem Cells Reduce Mortality and Hematoma Size in a Rat Intracerebral Hemorrhage Model in an Acute Phase. Stem Cells International, 2018, 2018, 1-10.	1.2	21
69	Protective Effects of Protocatechuic Acid on Seizure-Induced Neuronal Death. International Journal of Molecular Sciences, 2018, 19, 187.	1.8	21
70	Pyruvate Administration Reduces Recurrent/Moderate Hypoglycemia-Induced Cortical Neuron Death in Diabetic Rats. PLoS ONE, 2013, 8, e81523.	1.1	20
71	EAAC1 gene deletion alters zinc homeostasis and enhances cortical neuronal injury after transient cerebral ischemia in mice. Journal of Trace Elements in Medicine and Biology, 2012, 26, 85-88.	1.5	18
72	Impairment of Autophagic Flux Promotes Glucose Reperfusion-Induced Neuro2A Cell Death after Glucose Deprivation. PLoS ONE, 2013, 8, e76466.	1.1	18

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73	Effect of Adipose-Derived Mesenchymal Stem Cell Administration and Mild Hypothermia Induction on Delayed Neuronal Death After Transient Global Cerebral Ischemia. Critical Care Medicine, 2017, 45, e508-e515.	0.4	18
74	The Transient Receptor Potential Melastatin 7 (TRPM7) Inhibitors Suppress Seizure-Induced Neuron Death by Inhibiting Zinc Neurotoxicity. International Journal of Molecular Sciences, 2020, 21, 7897.	1.8	18
75	Zinc plus cyclo-(His-Pro) promotes hippocampal neurogenesis in rats. Neuroscience, 2016, 339, 634-643.	1.1	17
76	Prevention of hypoglycemia-induced hippocampal neuronal death by N-acetyl-l-cysteine (NAC). Amino Acids, 2017, 49, 367-378.	1.2	17
77	Combined Treatment With Dichloroacetic Acid and Pyruvate Reduces Hippocampal Neuronal Death After Transient Cerebral Ischemia. Frontiers in Neurology, 2018, 9, 137.	1.1	17
78	Adrenalectomy causes loss of zinc ions in zinc-enriched (ZEN) terminals and decreases seizure-induced neuronal death. Brain Research, 2001, 895, 25-32.	1.1	16
79	Detection of zinc translocation into apical dendrite of CA1 pyramidal neuron after electrical stimulation. Journal of Neuroscience Methods, 2009, 177, 1-13.	1.3	16
80	EAAC1 Gene Deletion Increases Neuronal Death and Blood Brain Barrier Disruption after Transient Cerebral Ischemia in Female Mice. International Journal of Molecular Sciences, 2014, 15, 19444-19457.	1.8	16
81	Distinct dual roles of p-Tyr42 RhoA GTPase in tau phosphorylation and ATP citrate lyase activation upon different AÎ² concentrations. Redox Biology, 2020, 32, 101446.	3.9	16
82	Zinc transporter 3 (ZnT3) gene deletion reduces spinal cord white matter damage and motor deficits in a murine MOG-induced multiple sclerosis model. Neurobiology of Disease, 2016, 94, 205-212.	2.1	15
83	Unexpected Effects of Acetylcholine Precursors on Pilocarpine Seizure- Induced Neuronal Death. Current Neuropharmacology, 2017, 16, 51-58.	1.4	14
84	Cytidine 5â€²-diphosphocholine (CDP-choline) adversely effects on pilocarpine seizure-induced hippocampal neuronal death. Brain Research, 2015, 1595, 156-165.	1.1	13
85	Diverse Effects of an Acetylcholinesterase Inhibitor, Donepezil, on Hippocampal Neuronal Death after Pilocarpine-Induced Seizure. International Journal of Molecular Sciences, 2017, 18, 2311.	1.8	13
86	The Role of NADPH Oxidase in Neuronal Death and Neurogenesis after Acute Neurological Disorders. Antioxidants, 2021, 10, 739.	2.2	13
87	ZnT3 Gene Deletion Reduces Colchicine-Induced Dentate Granule Cell Degeneration. International Journal of Molecular Sciences, 2017, 18, 2189.	1.8	12
88	Administration of placenta-derived mesenchymal stem cells counteracts a delayed anergic state following a transient induction of endogenous neurogenesis activity after global cerebral ischemia. Brain Research, 2018, 1689, 63-74.	1.1	12
89	Acetylcholine precursor, citicoline (cytidine 5â€²â€diphosphocholine), reduces hypoglycaemiaâ€induced neuronal death in rats. Journal of Neuroendocrinology, 2018, 30, e12567.	1.2	12
90	Association Between Intra-arterial Invasive Central and Peripheral Blood Pressure and Endothelial Function (Assessed by Flow-Mediated Dilatation) in Stable Coronary Artery Disease. American Journal of Hypertension, 2019, 32, 953-959.	1.0	12

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91	Effects of Transient Receptor Potential Cation 5 (TRPC5) Inhibitor, NU6027, on Hippocampal Neuronal Death after Traumatic Brain Injury. International Journal of Molecular Sciences, 2020, 21, 8256.	1.8	12
92	Effects of Cerebrolysin on Hippocampal Neuronal Death After Pilocarpine-Induced Seizure. Frontiers in Neuroscience, 2020, 14, 568813.	1.4	12
93	Transient Receptor Potential Melastatin 2 (TRPM2) Inhibition by Antioxidant, N-Acetyl-l-Cysteine, Reduces Global Cerebral Ischemia-Induced Neuronal Death. International Journal of Molecular Sciences, 2020, 21, 6026.	1.8	12
94	Phenotypic Discovery of Neuroprotective Agents by Regulation of Tau Proteostasis via Stressâ€Responsive Activation of PERK Signaling. Angewandte Chemie - International Edition, 2021, 60, 1831-1838.	7.2	12
95	Melatonin Reduces Hypoglycemia-Induced Neuronal Death in Rats. Neuroendocrinology, 2015, 102, 300-310.	1.2	11
96	An Inhibitor of the Sodiumâ€“Hydrogen Exchanger-1 (NHE-1), Amiloride, Reduced Zinc Accumulation and Hippocampal Neuronal Death after Ischemia. International Journal of Molecular Sciences, 2020, 21, 4232.	1.8	11
97	Korean Red Ginseng Improves Astrocytic Mitochondrial Function by Upregulating HO-1-Mediated AMPKÎ±â€“PGC-1Î±â€“ERRÎ± Circuit after Traumatic Brain Injury. International Journal of Molecular Sciences, 2021, 22, 13081.	1.8	11
98	Colchicine induced intraneuronal free zinc accumulation and dentate granule cell degeneration. Metallomics, 2014, 6, 1513-1520.	1.0	10
99	EAAC1 gene deletion reduces adult hippocampal neurogenesis after transient cerebral ischemia. Scientific Reports, 2018, 8, 6903.	1.6	10
100	Adrenalectomy-induced ZnT3 downregulation in mouse hippocampus is followed by vesicular zinc depletion. Neuroscience Letters, 2005, 377, 164-169.	1.0	9
101	Administration of Zinc plus Cyclo-(His-Pro) Increases Hippocampal Neurogenesis in Rats during the Early Phase of Streptozotocin-Induced Diabetes. International Journal of Molecular Sciences, 2017, 18, 73.	1.8	9
102	Transitions in Problematic Internet Use: A One-Year Longitudinal Study of Boys. Psychiatry Investigation, 2019, 16, 433-442.	0.7	9
103	A Mushroom Extract Piwep fromPhellinus igniariusAmeliorates Experimental Autoimmune Encephalomyelitis by Inhibiting Immune Cell Infiltration in the Spinal Cord. BioMed Research International, 2014, 2014, 1-11.	0.9	8
104	Early-life stress induces EAAC1 expression reduction and attention-deficit and depressive behaviors in adolescent rats. Cell Death Discovery, 2020, 6, 73.	2.0	8
105	Administration of an Acidic Sphingomyelinase (ASMase) Inhibitor, Imipramine, Reduces Hypoglycemia-Induced Hippocampal Neuronal Death. Cells, 2022, 11, 667.	1.8	8
106	Antimicrotubule Agent-Induced Zinc Neurotoxicity. Biological and Pharmaceutical Bulletin, 2018, 41, 1001-1005.	0.6	7
107	Changes in plasma lipoxin A4, resolvins and CD59 levels after ischemic and traumatic brain injuries in rats. Korean Journal of Physiology and Pharmacology, 2020, 24, 165.	0.6	7
108	A Water-Ethanol Extract from the Willow Bracket Mushroom, Phellinus igniarius (Higher) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (Ba of Medicinal Mushrooms, 2015, 17, 879-889.	0.9	7

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109	2â€²-5â€² oligoadenylate synthetase-like 1 (OASL1) deficiency suppresses central nervous system damage in a murine MOG-induced multiple sclerosis model. Neuroscience Letters, 2016, 628, 78-84.	1.0	6
110	A Novel Zinc Chelator, 1H10, Ameliorates Experimental Autoimmune Encephalomyelitis by Modulating Zinc Toxicity and AMPK Activation. International Journal of Molecular Sciences, 2020, 21, 3375.	1.8	6
111	The Effects of Atorvastatin on Global Cerebral Ischemia-Induced Neuronal Death. International Journal of Molecular Sciences, 2021, 22, 4385.	1.8	6
112	Role of Excitatory Amino Acid Carrier 1 (EAAC1) in Neuronal Death and Neurogenesis After Ischemic Stroke. International Journal of Molecular Sciences, 2020, 21, 5676.	1.8	5
113	Pancreatic Exocrine Secretion in Response to Median Raphe Stimulation in Anesthetized Rats. Pancreas, 1995, 10, 407-412.	0.5	4
114	Transient Global Ischemia-Induced Brain Inflammatory Cascades Attenuated by Targeted Temperature Management. International Journal of Molecular Sciences, 2021, 22, 5114.	1.8	3
115	Clinical Meaning of the Ratio of Brachial Pre-Ejection Period to Brachial Ejection Time in Patients with Left Ventricular Systolic Dysfunction. International Heart Journal, 2018, 59, 566-572.	0.5	2
116	The Role of Zinc in Axon Formation via the mTORC1 Pathway. Molecular Neurobiology, 2022, 59, 3206-3217.	1.9	2
117	Association between 10-Year Atherosclerotic Cardiovascular Disease Risk and Vascular Endothelial Function in Patients with Vasospastic Angina. Cardiology, 2021, 146, 281-287.	0.6	1
118	Expression and Distribution of Free Zinc in Penile Erectile Tissue. World Journal of Men?s Health, 2023, 41, 155.	1.7	1
119	Role of zinc in hypoglycemia-induced neuron death. Future Neurology, 2009, 4, 799-809.	0.9	0
120	[P2â€“265]: GLYCEMIC VARIABILITY IN ACUTE ISCHEMIC STROKE AND COGNITIVE OUTCOME. Alzheimer's and Dementia, 2017, 13, P715.	0.4	0
121	Effects of transient receptor potential cation channel 5 (TRPC5) inhibition on global cerebral ischemia-induced neuronal death. IBRO Reports, 2019, 6, S219-S220.	0.3	0
122	Free radical generation is involved in hypoglycemia-induced neuronal death. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S489-S489.	2.4	0
123	EAAC1 gene deletion reduces adult hippocampal neurogenesis after transient cerebral ischemia. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2020, 93, 1-S06-3.	0.0	0