Arumugam Jayakumar

List of Publications by Year
in descending order

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Version: 2024-02-01

37 papers	2,068 citations	236612 25 h-index	360668 35 g-index
37 all docs	37 docs citations	37 times ranked	2068 citing authors

#	Article	IF	Citations
1	Oxidative Stress and Mitogen-Activated Protein Kinase Phosphorylation Mediate Ammonia-Induced Cell Swelling and Glutamate Uptake Inhibition in Cultured Astrocytes. Journal of Neuroscience, 2006, 26, 4774-4784.	1.7	191
2	New concepts in the mechanism of ammonia-induced astrocyte swelling. Metabolic Brain Disease, 2007, 22, 219-234.	1.4	161
3	Signaling factors in the mechanism of ammonia neurotoxicity. Metabolic Brain Disease, 2009, 24, 103-117.	1.4	119
4	Glutamine in the mechanism of ammonia-induced astrocyte swelling. Neurochemistry International, 2006, 48, 623-628.	1.9	117
5	Na-K-Cl Cotransporter-1 in the Mechanism of Ammonia-induced Astrocyte Swelling. Journal of Biological Chemistry, 2008, 283, 33874-33882.	1.6	112
6	The Naâ€“Kâ€“Cl Co-transporter in astrocyte swelling. Metabolic Brain Disease, 2010, 25, 31-38.	1.4	112
7	Glutamine-induced free radical production in cultured astrocytes. Glia, 2004, 46, 296-301.	2.5	108
8	NFÎºB in the mechanism of ammoniaâ€induced astrocyte swelling in culture. Journal of Neurochemistry, 2008, 106, 2302-2311.	2.1	101
9	Ammonia neurotoxicity: role of the mitochondrial permeability transition. Metabolic Brain Disease, 2003, 18, 113-127.	1.4	91
10	Activation of NF-ÎºB Mediates Astrocyte Swelling and Brain Edema in Traumatic Brain Injury. Journal of Neurotrauma, 2014, 31, 1249-1257.	1.7	86
11	Marked potentiation of cell swelling by cytokines in ammonia-sensitized cultured astrocytes. Journal of Neuroinflammation, 2010, 7, 66.	3.1	81
12	Na-K-Cl cotransporter-1 in the mechanism of cell swelling in cultured astrocytes after fluid percussion injury. Journal of Neurochemistry, 2011, 117, 437-448.	2.1	76
13	Effects on free radical generation by ligands of the peripheral benzodiazepine receptor in cultured neural cells. Journal of Neurochemistry, 2002, 83, 1226-1234.	2.1	72
14	Hyperammonemia in Hepatic Encephalopathy. Journal of Clinical and Experimental Hepatology, 2018, 8, 272-280.	0.4	66
15	Trauma-Induced Cell Swelling in Cultured Astrocytes. Journal of Neuropathology and Experimental Neurology, 2008, 67, 417-427.	0.9	64
16	Decreased astrocytic thrombospondinâ€1 secretion after chronic ammonia treatment reduces the level of synaptic proteins: in vitro and in vivo studies. Journal of Neurochemistry, 2014, 131, 333-347.	2.1	50
17	Increased tollâ€like receptor 4 in cerebral endothelial cells contributes to the astrocyte swelling and brain edema in acute hepatic encephalopathy. Journal of Neurochemistry, 2014, 128, 890-903.	2.1	46
18	Ammonia-induced activation of p53 in cultured astrocytes: Role in cell swelling and glutamate uptake. Neurochemistry International, 2009, 55, 98-105.	1.9	45

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19	The Naâ€“Kâ€“Cl cotransporter in the brain edema of acute liver failure. Journal of Hepatology, 2011, 54, 272-278.	1.8	45
20	Sulfonylurea Receptor 1 Contributes to the Astrocyte Swelling and Brain Edema in Acute Liver Failure. Translational Stroke Research, 2014, 5, 28-37.	2.3	41
21	Role of cerebral endothelial cells in the astrocyte swelling and brain edema associated with acute hepatic encephalopathy. Neuroscience, 2012, 218, 305-316.	1.1	39
22	Downregulation of the 18â€kDa translocator protein: Effects on the ammoniaâ€induced mitochondrial permeability transition and cell swelling in cultured astrocytes. Glia, 2007, 55, 1720-1727.	2.5	38
23	NF-ÎºB in the mechanism of brain edema in acute liver failure: Studies in transgenic mice. Neurobiology of Disease, 2011, 41, 498-507.	2.1	38
24	2021 ISHEN guidelines on animal models of hepatic encephalopathy. Liver International, 2021, 41, 1474-1488.	1.9	34
25	Differential response of neural cells to trauma-induced free radical production in vitro. Neurochemical Research, 2002, 27, 161-166.	1.6	27
26	Experimental Models of COVID-19. Frontiers in Cellular and Infection Microbiology, 2021, 11, 792584.	1.8	27
27	Body image dissatisfaction and lower self-esteem as major predictors of poor sleep quality in gynecological cancer patients after surgery: cross-sectional study. BMC Women's Health, 2021, 21, 229.	0.8	22
28	Multi-Organ Histopathological Changes in a Mouse Hepatitis Virus Model of COVID-19. Viruses, 2021, 13, 1703.	1.5	13
29	Additive Effect of Resveratrol on Astrocyte Swelling Post-exposure to Ammonia, Ischemia and Trauma In Vitro. Neurochemical Research, 2020, 45, 1156-1167.	1.6	12
30	Neuronal Cell Death Induced by Mechanical Percussion Trauma in Cultured Neurons is not Preceded by Alterations in Glucose, Lactate and Glutamine Metabolism. Neurochemical Research, 2016, 41, 307-315.	1.6	9
31	Differential Response of Neural Cells to Trauma-Induced Swelling In Vitro. Neurochemical Research, 2018, 43, 397-406.	1.6	9
32	Astrocytes in rare neurological conditions: Morphological and functional considerations. Journal of Comparative Neurology, 2021, 529, 2676-2705.	0.9	8
33	Decreased STAT3 Phosphorylation Mediates Cell Swelling in Ammonia-Treated Astrocyte Cultures. Biology, 2016, 5, 48.	1.3	3
34	Adrenal Oncocytic Neoplasm with Paradoxical Loss of Important Mitochondrial Steroidogenic Protein: The 18â€‰kDA Translocator Protein. Case Reports in Endocrinology, 2017, 2017, 1-7.	0.2	3
35	Oxidative Stress in Hepatic Encephalopathy. , 2012, , 47-70.		1
36	Radio-protective efficacy of Gymnema sylvestre on Pangasius sutchi against gamma (60Co) irradiation. International Journal of Radiation Biology, 2021, , 1-43.	1.0	1

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37	Role of oxidative stress in the ammoniaâ€induced mitochondrial permeability transition in cultured astrocytes. Journal of Neurochemistry, 2002, 81, 108-111.	2.1	0