

Igor Allaman

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

7,130
citations

159585

30
h-index

302126

39
g-index

45
all docs

45
docs citations

45
times ranked

10143
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain glycogen metabolism: A possible link between sleep disturbances, headache and depression. <i>Sleep Medicine Reviews</i> , 2021, 59, 101449.	8.5	20
2	Reactive Oxygen Species: Beyond Their Reactive Behavior. <i>Neurochemical Research</i> , 2021, 46, 77-87.	3.3	60
3	Gut microbiota modulates expression of genes involved in the astrocyte-neuron lactate shuttle in the hippocampus. <i>European Neuropsychopharmacology</i> , 2020, 41, 152-159.	0.7	17
4	Lactate in the brain: from metabolic end-product to signalling molecule. <i>Nature Reviews Neuroscience</i> , 2018, 19, 235-249.	10.2	724
5	Dual action of L-Lactate on the activity of NR2B-containing NMDA receptors: from potentiation to neuroprotection. <i>Scientific Reports</i> , 2018, 8, 13472.	3.3	44
6	A Role for Lactate in the Consolidation of Drug-Related Associative Memories. <i>Biological Psychiatry</i> , 2016, 79, 875-877.	1.3	6
7	Protein targeting to glycogen is a master regulator of glycogen synthesis in astrocytes. <i>IBRO Reports</i> , 2016, 1, 46-53.	0.3	18
8	Three-dimensional immersive virtual reality for studying cellular compartments in 3D models from EM preparations of neural tissues. <i>Journal of Comparative Neurology</i> , 2016, 524, 23-38.	1.6	85
9	L-Lactate protects neurons against excitotoxicity: implication of an ATP-mediated signaling cascade. <i>Scientific Reports</i> , 2016, 6, 21250.	3.3	83
10	Imaging brain aerobic glycolysis as a marker of synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7015-7016.	7.1	20
11	Regulation of neuron-astrocyte metabolic coupling across the sleep-wake cycle. <i>Neuroscience</i> , 2016, 323, 135-156.	2.3	67
12	Brain Energy and Metabolism. , 2016, , 1879-1909.		1
13	Glial Glycogen Metabolism†. , 2015, , .		0
14	Methylglyoxal, the dark side of glycolysis. <i>Frontiers in Neuroscience</i> , 2015, 9, 23.	2.8	381
15	A Cellular Perspective on Brain Energy Metabolism and Functional Imaging. <i>Neuron</i> , 2015, 86, 883-901.	8.1	871
16	Metabolic gene expression changes in astrocytes in Multiple Sclerosis cerebral cortex are indicative of immune-mediated signaling. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 313-325.	4.1	39
17	Multi-timescale Modeling of Activity-Dependent Metabolic Coupling in the Neuron-Glia-Vasculature Ensemble. <i>PLoS Computational Biology</i> , 2015, 11, e1004036.	3.2	86
18	Glycogen metabolism and the homeostatic regulation of sleep. <i>Metabolic Brain Disease</i> , 2015, 30, 263-279.	2.9	49

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19	Learning-Induced Gene Expression in the Hippocampus Reveals a Role of Neuron -Astrocyte Metabolic Coupling in Long Term Memory. PLoS ONE, 2015, 10, e0141568.	2.5	95
20	Lactate promotes plasticity gene expression by potentiating NMDA signaling in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12228-12233.	7.1	364
21	Brain Energy Metabolism. , 2013, , 1591-1620.		44
22	Brain Energy Metabolism. , 2013, , 261-284.		24
23	Regulation of Neurotrophic Factors and Energy Metabolism by Antidepressants in Astrocytes. Current Drug Targets, 2013, 14, 1308-1321.	2.1	31
24	Brain Energy Metabolism: Focus on Astrocyte-Neuron Metabolic Cooperation. Cell Metabolism, 2011, 14, 724-738.	16.2	1,727
25	Astrocyte-neuron metabolic relationships: for better and for worse. Trends in Neurosciences, 2011, 34, 76-87.	8.6	542
26	Altered Glycogen Metabolism in Cultured Astrocytes from Mice with Chronic Glutathione Deficit; Relevance for Neuroenergetics in Schizophrenia. PLoS ONE, 2011, 6, e22875.	2.5	22
27	Differential effects of pro- and anti-inflammatory cytokines alone or in combinations on the metabolic profile of astrocytes. Journal of Neurochemistry, 2011, 116, 564-576.	3.9	55
28	Fluoxetine regulates the expression of neurotrophic/growth factors and glucose metabolism in astrocytes. Psychopharmacology, 2011, 216, 75-84.	3.1	176
29	A β 242 Neurotoxicity Is Mediated by Ongoing Nucleated Polymerization Process Rather than by Discrete A β 242 Species. Journal of Biological Chemistry, 2011, 286, 8585-8596.	3.4	168
30	Role of the Glyoxalase System in Astrocyte-Mediated Neuroprotection. Journal of Neuroscience, 2011, 31, 18338-18352.	3.6	106
31	Glycogen Metabolism as a Marker of Astrocyte Differentiation. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 51-55.	4.3	26
32	Comment on Recent Modeling Studies of Astrocyte-Neuron Metabolic Interactions. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 1982-1986.	4.3	70
33	Amyloid- β Aggregates Cause Alterations of Astrocytic Metabolic Phenotype: Impact on Neuronal Viability. Journal of Neuroscience, 2010, 30, 3326-3338.	3.6	252
34	Glial Glycogen Metabolism. , 2009, , 811-818.		2
35	Modulation of astrocytic metabolic phenotype by proinflammatory cytokines. Glia, 2008, 56, 975-989.	4.9	116
36	Expression of brain-derived neurotrophic factor is not modulated by chronic mild stress in the rat hippocampus and amygdala. Pharmacological Reports, 2008, 60, 1001-7.	3.3	34

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37	Glycogen: a Trojan horse for neurons. <i>Nature Neuroscience</i> , 2007, 10, 1341-1342.	14.8	31
38	Glucocorticoids modulate neurotransmitter-induced glycogen metabolism in cultured cortical astrocytes. <i>Journal of Neurochemistry</i> , 2004, 88, 900-908.	3.9	69
39	A _{2B} receptor activation promotes glycogen synthesis in astrocytes through modulation of gene expression. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C696-C704.	4.6	57
40	Brain-Derived Neurotrophic Factor Stimulates Energy Metabolism in Developing Cortical Neurons. <i>Journal of Neuroscience</i> , 2003, 23, 8212-8220.	3.6	120
41	Sleep deprivation modulates brain mRNAs encoding genes of glycogen metabolism. <i>European Journal of Neuroscience</i> , 2002, 16, 1163-1167.	2.6	76
42	Pro-inflammatory cytokines induce the transcription factors C/EBP β and C/EBP δ in astrocytes. <i>Glia</i> , 2000, 29, 91-97.	4.9	164
43	Protein targeting to glycogen mRNA expression is stimulated by noradrenaline in mouse cortical astrocytes. <i>Glia</i> , 2000, 30, 382-391.		79
44	Protein targeting to glycogen mRNA expression is stimulated by noradrenaline in mouse cortical astrocytes. <i>Glia</i> , 2000, 30, 382-91.	4.9	26
45	Olfaction in birds: differential embryonic expression of nine putative odorant receptor genes in the avian olfactory system. <i>Mechanisms of Development</i> , 1996, 55, 65-77.	1.7	83