

Marcelo R Vargas

List of Publications by Year in descending order

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41
papers

4,372
citations

159358

30
h-index

264894

42
g-index

42
all docs

42
docs citations

42
times ranked

5489
citing authors

#	ARTICLE	IF	CITATIONS
1	Nrf2-mediated neuroprotection in the MPTP mouse model of Parkinson's disease: Critical role for the astrocyte. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2933-2938.	3.3	520
2	The Nrf2-ARE Pathway. <i>Annals of the New York Academy of Sciences</i> , 2008, 1147, 61-69.	1.8	507
3	Nrf2 Activation in Astrocytes Protects against Neurodegeneration in Mouse Models of Familial Amyotrophic Lateral Sclerosis. <i>Journal of Neuroscience</i> , 2008, 28, 13574-13581.	1.7	407
4	The Nrf2/ARE Pathway as a Potential Therapeutic Target in Neurodegenerative Disease. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 497-508.	2.5	382
5	A role for astrocytes in motor neuron loss in amyotrophic lateral sclerosis. <i>Brain Research Reviews</i> , 2004, 47, 263-274.	9.1	274
6	The Nrf2-ARE cytoprotective pathway in astrocytes. <i>Expert Reviews in Molecular Medicine</i> , 2009, 11, e17.	1.6	237
7	Astrocytic production of nerve growth factor in motor neuron apoptosis: implications for amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , 2004, 89, 464-473.	2.1	200
8	Increased glutathione biosynthesis by Nrf2 activation in astrocytes prevents p75NTR-dependent motor neuron apoptosis. <i>Journal of Neurochemistry</i> , 2006, 97, 687-696.	2.1	173
9	Astrocyte-Specific Overexpression of Nrf2 Delays Motor Pathology and Synuclein Aggregation throughout the CNS in the Alpha-Synuclein Mutant (A53T) Mouse Model. <i>Journal of Neuroscience</i> , 2012, 32, 17775-17787.	1.7	160
10	Fibroblast Growth Factor-1 Induces Heme Oxygenase-1 via Nuclear Factor Erythroid 2-related Factor 2 (Nrf2) in Spinal Cord Astrocytes. <i>Journal of Biological Chemistry</i> , 2005, 280, 25571-25579.	1.6	133
11	Mitochondrial Superoxide Production and Nuclear Factor Erythroid 2-Related Factor 2 Activation in p75 Neurotrophin Receptor-Induced Motor Neuron Apoptosis. <i>Journal of Neuroscience</i> , 2007, 27, 7777-7785.	1.7	110
12	Astrogliosis in Amyotrophic Lateral Sclerosis: Role and Therapeutic Potential of Astrocytes. <i>Neurotherapeutics</i> , 2010, 7, 471-481.	2.1	110
13	Astrocyte activation by fibroblast growth factor-1 and motor neuron apoptosis: implications for amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , 2005, 93, 38-46.	2.1	101
14	Enhancing NAD+ Salvage Pathway Reverts the Toxicity of Primary Astrocytes Expressing Amyotrophic Lateral Sclerosis-linked Mutant Superoxide Dismutase 1 (SOD1). <i>Journal of Biological Chemistry</i> , 2016, 291, 10836-10846.	1.6	75
15	Complexity of Astrocyte-Motor Neuron Interactions in Amyotrophic Lateral Sclerosis. <i>Neurodegenerative Diseases</i> , 2005, 2, 139-146.	0.8	69
16	Astrocyte-Specific Overexpression of Nrf2 Protects Striatal Neurons from Mitochondrial Complex II Inhibition. <i>Toxicological Sciences</i> , 2010, 115, 557-568.	1.4	68
17	Decreased glutathione accelerates neurological deficit and mitochondrial pathology in familial ALS-linked hSOD1G93A mice model. <i>Neurobiology of Disease</i> , 2011, 43, 543-551.	2.1	63
18	Nicotinamide Adenine Dinucleotide Metabolism and Neurodegeneration. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1652-1668.	2.5	55

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19	Astrocytic nitric oxide triggers tau hyperphosphorylation in hippocampal neurons. <i>In Vivo</i> , 2004, 18, 275-80.	0.6	53
20	Production of nerve growth factor by β 2-amyloid-stimulated astrocytes induces p75NTR-dependent tau hyperphosphorylation in cultured hippocampal neurons. <i>Journal of Neuroscience Research</i> , 2006, 84, 1098-1106.	1.3	50
21	Role and Therapeutic Potential of Astrocytes in Amyotrophic Lateral Sclerosis. <i>Current Pharmaceutical Design</i> , 2018, 23, 5010-5021.	0.9	50
22	Evaluation of the NAD ⁺ biosynthetic pathway in ALS patients and effect of modulating NAD ⁺ levels in hSOD1-linked ALS mouse models. <i>Experimental Neurology</i> , 2020, 327, 113219.	2.0	48
23	Transcriptional profile of primary astrocytes expressing ALS-linked mutant SOD1. <i>Journal of Neuroscience Research</i> , 2008, 86, 3515-3525.	1.3	45
24	Modulation of p75NTR-dependent motor neuron death by a small non-peptidyl mimetic of the neurotrophin loop 1 domain. <i>European Journal of Neuroscience</i> , 2006, 24, 1575-1580.	1.2	43
25	Peroxynitrite transforms nerve growth factor into an apoptotic factor for motor neurons. <i>Free Radical Biology and Medicine</i> , 2006, 41, 1632-1644.	1.3	41
26	Lead exposure stimulates VEGF expression in the spinal cord and extends survival in a mouse model of ALS. <i>Neurobiology of Disease</i> , 2010, 37, 574-580.	2.1	40
27	Enhanced SIRT6 activity abrogates the neurotoxic phenotype of astrocytes expressing ALS-linked mutant SOD1. <i>FASEB Journal</i> , 2019, 33, 7084-7091.	0.2	40
28	Mitochondria-Targeted Catalase Reverts the Neurotoxicity of hSOD1G93A Astrocytes without Extending the Survival of ALS-Linked Mutant hSOD1 Mice. <i>PLoS ONE</i> , 2014, 9, e103438.	1.1	40
29	Redox Biology in Neurological Function, Dysfunction, and Aging. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1583-1586.	2.5	39
30	Absence of Nrf2 or Its Selective Overexpression in Neurons and Muscle Does Not Affect Survival in ALS-Linked Mutant hSOD1 Mouse Models. <i>PLoS ONE</i> , 2013, 8, e56625.	1.1	39
31	<sc>FABP7</sc> upregulation induces a neurotoxic phenotype in astrocytes. <i>Glia</i> , 2020, 68, 2693-2704.	2.5	30
32	Stimulation of nerve growth factor expression in astrocytes by peroxynitrite. <i>In Vivo</i> , 2004, 18, 269-74.	0.6	25
33	Characterization of Hypoxia induced gene 1: expression during rat Central Nervous System maturation and evidence of antisense RNA expression. <i>International Journal of Developmental Biology</i> , 2005, 49, 431-436.	0.3	24
34	Electrophilic nitro-fatty acids prevent astrocyte-mediated toxicity to motor neurons in a cell model of familial amyotrophic lateral sclerosis via nuclear factor erythroid 2-related factor activation. <i>Free Radical Biology and Medicine</i> , 2016, 95, 112-120.	1.3	23
35	Decreased glutathione levels cause overt motor neuron degeneration in hSOD1WT over-expressing mice. <i>Experimental Neurology</i> , 2018, 302, 129-135.	2.0	18
36	Nitration and Glycation Turn Mature NGF into a Toxic Factor for Motor Neurons: A Role for p75 ^{NTR} and RAGE Signaling in ALS. <i>Antioxidants and Redox Signaling</i> , 2018, 28, 1587-1602.	2.5	18

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37	Changes in Protein Expression and Lysine Acetylation Induced by Decreased Glutathione Levels in Astrocytes. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 493-505.	2.5	16
38	Effects of RAGE inhibition on the progression of the disease in hSOD1 ^{G93A} ALS mice. <i>Pharmacology Research and Perspectives</i> , 2020, 8, e00636.	1.1	11
39	Temporal patterns of tyrosine nitration in embryo heart development. <i>Free Radical Biology and Medicine</i> , 2013, 55, 101-108.	1.3	10
40	Altered expression of clock and clock-controlled genes in a hSOD1-linked amyotrophic lateral sclerosis mouse model. <i>FASEB Journal</i> , 2021, 35, e21343.	0.2	7
41	NR1D1 downregulation in astrocytes induces a phenotype that is detrimental to cocultured motor neurons. <i>FASEB Journal</i> , 2022, 36, e22262.	0.2	6