

# Luis H Barbeito

## List of Publications by Citations

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100  
papers

6,801  
citations

45  
h-index

81  
g-index

101  
ext. papers

7,782  
ext. citations

6  
avg, IF

5.25  
L-index

#	Paper	IF	Citations
100	Induction of nitric oxide-dependent apoptosis in motor neurons by zinc-deficient superoxide dismutase. <i>Science</i> , <b>1999</b> , 286, 2498-500	33.3	520
99	The molecular bases of Alzheimer's disease and other neurodegenerative disorders. <i>Archives of Medical Research</i> , <b>2001</b> , 32, 367-81	6.6	331
98	Nitric oxide and superoxide contribute to motor neuron apoptosis induced by trophic factor deprivation. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 923-31	6.6	313
97	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , <b>2021</b> , 24, 312-325	35	298
96	Peroxynitrite-induced cytotoxicity in PC12 cells: evidence for an apoptotic mechanism differentially modulated by neurotrophic factors. <i>Journal of Neurochemistry</i> , <b>1995</b> , 65, 1543-50	6	244
95	A role for astrocytes in motor neuron loss in amyotrophic lateral sclerosis. <i>Brain Research Reviews</i> , <b>2004</b> , 47, 263-74		237
94	Mitochondrial dysfunction in SOD1G93A-bearing astrocytes promotes motor neuron degeneration: prevention by mitochondrial-targeted antioxidants. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 4115-22	6.6	223
93	Astrocytic production of nerve growth factor in motor neuron apoptosis: implications for amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , <b>2004</b> , 89, 464-73	6	172
92	Nitric oxide-dependent production of cGMP supports the survival of rat embryonic motor neurons cultured with brain-derived neurotrophic factor. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 3708-14	6.6	149
91	Superoxide dismutase and the death of motoneurons in ALS. <i>Trends in Neurosciences</i> , <b>2001</b> , 24, S15-20	13.3	147
90	Increased glutathione biosynthesis by Nrf2 activation in astrocytes prevents p75NTR-dependent motor neuron apoptosis. <i>Journal of Neurochemistry</i> , <b>2006</b> , 97, 687-96	6	146
89	Peroxynitrite triggers a phenotypic transformation in spinal cord astrocytes that induces motor neuron apoptosis. <i>Journal of Neuroscience Research</i> , <b>2002</b> , 67, 21-9	4.4	146
88	Riluzole inhibits the release of glutamate in the caudate nucleus of the cat in vivo. <i>Neuroscience Letters</i> , <b>1992</b> , 147, 209-12	3.3	140
87	FGF-1 induces ATP release from spinal astrocytes in culture and opens pannexin and connexin hemichannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 22659-64	11.5	134
86	In vivo release of endogenous amino acids from the rat striatum: further evidence for a role of glutamate and aspartate in corticostriatal neurotransmission. <i>Journal of Neurochemistry</i> , <b>1986</b> , 47, 98-106	6	127
85	Phenotypically aberrant astrocytes that promote motoneuron damage in a model of inherited amyotrophic lateral sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18126-31	11.5	126
84	Fibroblast growth factor-1 induces heme oxygenase-1 via nuclear factor erythroid 2-related factor 2 (Nrf2) in spinal cord astrocytes: consequences for motor neuron survival. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 25571-9	5.4	114

83	Mitochondria in amyotrophic lateral sclerosis: a trigger and a target. <i>Neurodegenerative Diseases</i> , <b>2004</b> , 1, 245-54	2.3	111
82	Extracellular ATP and the P2X7 receptor in astrocyte-mediated motor neuron death: implications for amyotrophic lateral sclerosis. <i>Journal of Neuroinflammation</i> , <b>2010</b> , 7, 33	10.1	106
81	Superoxide dismutase and the death of motoneurons in ALS. <i>Trends in Neurosciences</i> , <b>2001</b> , 24, 15-20	13.3	104
80	Neuroprotective effects of the mitochondria-targeted antioxidant MitoQ in a model of inherited amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 70, 204-13	7.8	97
79	Glutamate Receptors of a Quisqualate-Kainate Subtype are Involved in the Presynaptic Regulation of Dopamine Release in the Cat Caudate Nucleus in vivo. <i>European Journal of Neuroscience</i> , <b>1990</b> , 2, 304-311	3.5	96
78	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> , <b>2007</b> , 27, 7777-85	6.6	92
77	Substance P and neurokinin A regulate by different mechanisms dopamine release from dendrites and nerve terminals of the nigrostriatal dopaminergic neurons. <i>Neuroscience</i> , <b>1988</b> , 25, 889-98	3.9	92
76	Astrocyte activation by fibroblast growth factor-1 and motor neuron apoptosis: implications for amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , <b>2005</b> , 93, 38-46	6	86
75	Fasciculin, a powerful anticholinesterase polypeptide from <i>Dendroaspis angusticeps</i> venom. <i>Neurochemistry International</i> , <b>1983</b> , 5, 267-74	4.4	86
74	Copper delivery to the CNS by CuATSM effectively treats motor neuron disease in SOD(G93A) mice co-expressing the Copper-Chaperone-for-SOD. <i>Neurobiology of Disease</i> , <b>2016</b> , 89, 1-9	7.5	85
73	Nitric oxide-mediated oxidative damage and the progressive demise of motor neurons in ALS. <i>Neurotoxicity Research</i> , <b>2012</b> , 22, 251-64	4.3	85
72	Post-paralysis tyrosine kinase inhibition with masitinib abrogates neuroinflammation and slows disease progression in inherited amyotrophic lateral sclerosis. <i>Journal of Neuroinflammation</i> , <b>2016</b> , 13, 177	10.1	84
71	Protective effect of riluzole on excitatory amino acid-mediated neurotoxicity in motoneuron-enriched cultures. <i>European Journal of Pharmacology</i> , <b>1995</b> , 280, 47-53	5.3	76
70	Role of endogenous nitric oxide and peroxynitrite formation in the survival and death of motor neurons in culture. <i>Progress in Brain Research</i> , <b>1998</b> , 118, 269-80	2.9	73
69	Modulation of astrocytic mitochondrial function by dichloroacetate improves survival and motor performance in inherited amyotrophic lateral sclerosis. <i>PLoS ONE</i> , <b>2012</b> , 7, e34776	3.7	70
68	Presynaptic regulation of dopaminergic transmission in the striatum. <i>Cellular and Molecular Neurobiology</i> , <b>1988</b> , 8, 7-17	4.6	68
67	PPAR gamma activators induce growth arrest and process extension in B12 oligodendrocyte-like cells and terminal differentiation of cultured oligodendrocytes. <i>Journal of Neuroscience Research</i> , <b>2003</b> , 72, 425-35	4.4	63
66	Competitive inhibition of N-acetylated-alpha-linked acidic dipeptidase activity by N-acetyl-L-aspartyl-beta-linked L-glutamate. <i>Journal of Neurochemistry</i> , <b>1990</b> , 55, 39-46	6	63

65	Complexity of astrocyte-motor neuron interactions in amyotrophic lateral sclerosis. <i>Neurodegenerative Diseases</i> , <b>2005</b> , 2, 139-46	2.3	61
64	Nerve growth factor protects PC12 cells against peroxyinitrite-induced apoptosis via a mechanism dependent on phosphatidylinositol 3-kinase. <i>Journal of Neurochemistry</i> , <b>1997</b> , 69, 53-9	6	60
63	IFN $\gamma$ triggers a LIGHT-dependent selective death of motoneurons contributing to the non-cell-autonomous effects of mutant SOD1. <i>Cell Death and Differentiation</i> , <b>2011</b> , 18, 754-68	12.7	59
62	Riluzole promotes survival of rat motoneurons in vitro by stimulating trophic activity produced by spinal astrocyte monolayers. <i>Neuroscience Letters</i> , <b>1997</b> , 228, 207-11	3.3	57
61	Mast cells and neutrophils mediate peripheral motor pathway degeneration in ALS. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	57
60	Specific role of N-acetyl-aspartyl-glutamate in the in vivo regulation of dopamine release from dendrites and nerve terminals of nigrostriatal dopaminergic neurons in the cat. <i>Neuroscience</i> , <b>1991</b> , 42, 19-28	3.9	55
59	Activation of the bilateral corticostriatal glutamatergic projection by infusion of GABA into thalamic motor nuclei in the cat: an in vivo release study. <i>Neuroscience</i> , <b>1989</b> , 28, 365-74	3.9	54
58	Neonatal astrocyte damage is sufficient to trigger progressive striatal degeneration in a rat model of glutaric acidemia-I. <i>PLoS ONE</i> , <b>2011</b> , 6, e20831	3.7	48
57	Astrocytic nitric oxide triggers tau hyperphosphorylation in hippocampal neurons. <i>In Vivo</i> , <b>2004</b> , 18, 275-80	3.9	47
56	Axonal mitochondrial clusters containing mutant SOD1 in transgenic models of ALS. <i>Antioxidants and Redox Signaling</i> , <b>2009</b> , 11, 1535-45	8.4	45
55	The expression of PEA-15 (phosphoprotein enriched in astrocytes of 15 kDa) defines subpopulations of astrocytes and neurons throughout the adult mouse brain. <i>Neuroscience</i> , <b>2004</b> , 126, 263-75	3.9	45
54	Transcriptional profile of primary astrocytes expressing ALS-linked mutant SOD1. <i>Journal of Neuroscience Research</i> , <b>2008</b> , 86, 3515-25	4.4	42
53	Induction of motor neuron apoptosis by free 3-nitro-L-tyrosine. <i>Journal of Neurochemistry</i> , <b>2004</b> , 89, 602612	7.8	42
52	Liposome-delivered superoxide dismutase prevents nitric oxide-dependent motor neuron death induced by trophic factor withdrawal. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 28, 437-46	7.8	42
51	Modulation of p75-dependent motor neuron death by a small non-peptidyl mimetic of the neurotrophin loop 1 domain. <i>European Journal of Neuroscience</i> , <b>2006</b> , 24, 1575-80	3.5	41
50	Evidence for mast cells contributing to neuromuscular pathology in an inherited model of ALS. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	41
49	Astrocytic proliferation and mitochondrial dysfunction induced by accumulated glutaric acidemia I (GAI) metabolites: possible implications for GAI pathogenesis. <i>Neurobiology of Disease</i> , <b>2008</b> , 32, 528-34	7.5	39
48	Acidic fibroblast growth factor enhances peroxyinitrite-induced apoptosis in primary murine fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , <b>1996</b> , 335, 32-41	4.1	39

47	Production of nerve growth factor by beta-amyloid-stimulated astrocytes induces p75NTR-dependent tau hyperphosphorylation in cultured hippocampal neurons. <i>Journal of Neuroscience Research</i> , <b>2006</b> , 84, 1098-106	4.4	38
46	Phenotypic transition of microglia into astrocyte-like cells associated with disease onset in a model of inherited ALS. <i>Frontiers in Cellular Neuroscience</i> , <b>2013</b> , 7, 274	6.1	37
45	Lead exposure stimulates VEGF expression in the spinal cord and extends survival in a mouse model of ALS. <i>Neurobiology of Disease</i> , <b>2010</b> , 37, 574-80	7.5	37
44	P2X7 receptor-induced death of motor neurons by a peroxynitrite/FAS-dependent pathway. <i>Journal of Neurochemistry</i> , <b>2013</b> , 126, 382-8	6	35
43	Peroxyntirite transforms nerve growth factor into an apoptotic factor for motor neurons. <i>Free Radical Biology and Medicine</i> , <b>2006</b> , 41, 1632-44	7.8	34
42	Effect of DSP-4, a noradrenergic neurotoxin, on sleep and wakefulness and sensitivity to drugs acting on adrenergic receptors in the rat. <i>Sleep</i> , <b>1988</b> , 11, 370-7	1.1	28
41	Disruption of brain redox homeostasis in glutaryl-CoA dehydrogenase deficient mice treated with high dietary lysine supplementation. <i>Molecular Genetics and Metabolism</i> , <b>2013</b> , 108, 30-9	3.7	27
40	Neopterin as a potential cytoprotective brain molecule. <i>Journal of Psychiatric Research</i> , <b>2015</b> , 71, 134-9	5.2	27
39	Emergence of Microglia Bearing Senescence Markers During Paralysis Progression in a Rat Model of Inherited ALS. <i>Frontiers in Aging Neuroscience</i> , <b>2019</b> , 11, 42	5.3	26
38	Nogo receptor antagonizes p75NTR-dependent motor neuron death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 740-5	11.5	26
37	CCS knockout mice establish an alternative source of copper for SOD in ALS. <i>Free Radical Biology and Medicine</i> , <b>2002</b> , 33, 1433-5	7.8	26
36	Astroglial nitration after postnatal excitotoxic damage: correlation with nitric oxide sources, cytoskeletal, apoptotic and antioxidant proteins. <i>Journal of Neurotrauma</i> , <b>2005</b> , 22, 189-200	5.4	26
35	Depolarization-evoked release of N-acetyl-L-aspartyl-L-glutamate from rat brain synaptosomes. <i>European Journal of Pharmacology</i> , <b>1988</b> , 158, 263-6	5.3	25
34	Stimulation of nerve growth factor expression in astrocytes by peroxynitrite. <i>In Vivo</i> , <b>2004</b> , 18, 269-74	2.3	24
33	Increased blood-brain barrier permeability and alterations in perivascular astrocytes and pericytes induced by intracisternal glutaric acid. <i>Fluids and Barriers of the CNS</i> , <b>2014</b> , 11, 15	7	20
32	Cyclic guanosine 5Smonophosphate (GMP) prevents expression of neuronal nitric oxide synthase and apoptosis in motor neurons deprived of trophic factors in rats. <i>Neuroscience Letters</i> , <b>2002</b> , 326, 201-3	3.3	20
31	Cholecystokinin: Corelease with dopamine from nigrostriatal neurons in the cat. <i>European Journal of Neuroscience</i> , <b>1989</b> , 1, 162-171	3.5	20
30	Isolation and Characterization of Ischemia-Derived Astrocytes (IDAs) with Ability to Transactivate Quiescent Astrocytes. <i>Frontiers in Cellular Neuroscience</i> , <b>2016</b> , 10, 139	6.1	20

29	Striatal neuronal death mediated by astrocytes from the Gcdh <sup>-/-</sup> mouse model of glutaric acidemia type I. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 4504-15	5.6	18
28	Involvement of nitric oxide on kainate-induced toxicity in oligodendrocyte precursors. <i>Neurotoxicity Research</i> , <b>2003</b> , 5, 399-406	4.3	18
27	Examining apoptosis in cultured cells after exposure to nitric oxide and peroxynitrite. <i>Methods in Enzymology</i> , <b>1999</b> , 301, 393-402	1.7	18
26	Neopterin acts as an endogenous cognitive enhancer. <i>Brain, Behavior, and Immunity</i> , <b>2016</b> , 56, 156-64	16.6	17
25	Ultrastructural features of aberrant glial cells isolated from the spinal cord of paralytic rats expressing the amyotrophic lateral sclerosis-linked SOD1G93A mutation. <i>Cell and Tissue Research</i> , <b>2017</b> , 370, 391-401	4.2	17
24	Significance of aberrant glial cell phenotypes in pathophysiology of amyotrophic lateral sclerosis. <i>Neuroscience Letters</i> , <b>2017</b> , 636, 27-31	3.3	17
23	Behavioral and neurochemical effects of intraperitoneally injected dendrotoxin. <i>Toxicon</i> , <b>1988</b> , 26, 287-928	2.2	17
22	Schwann cells orchestrate peripheral nerve inflammation through the expression of CSF1, IL-34, and SCF in amyotrophic lateral sclerosis. <i>Glia</i> , <b>2020</b> , 68, 1165-1181	9	17
21	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> , <b>2016</b> , 95, 112-20	7.8	16
20	White matter injury induced by perinatal exposure to glutaric acid. <i>Neurotoxicity Research</i> , <b>2014</b> , 25, 381-91	4.1	16
19	Peroxyntirite-induced cytotoxicity in cultured astrocytes is associated with morphological changes and increased nitrotyrosine immunoreactivity. <i>Neurotoxicity Research</i> , <b>2002</b> , 4, 87-93	4.3	14
18	Plasma noradrenaline and clinical psychopathology in schizophrenia. A correlation analysis. <i>Neuropsychobiology</i> , <b>1983</b> , 10, 70-4	4	14
17	Nitration and Glycation Turn Mature NGF into a Toxic Factor for Motor Neurons: A Role for p75 and RAGE Signaling in ALS. <i>Antioxidants and Redox Signaling</i> , <b>2018</b> , 28, 1587-1602	8.4	12
16	High urinary norepinephrine excretion in major depressive disorders: effects of a new type of MAO inhibitor (Moclobemide, RO 11-1163). <i>Acta Psychiatrica Scandinavica</i> , <b>1984</b> , 70, 432-7	6.5	12
15	Phenotypic heterogeneity of astrocytes in motor neuron disease. <i>Clinical and Experimental Neuroimmunology</i> , <b>2018</b> , 9, 225-234	0.4	12
14	A role of astrocytes in mediating postnatal neurodegeneration in Glutaric acidemia-type 1. <i>FEBS Letters</i> , <b>2015</b> , 589, 3492-7	3.8	11
13	Sunitinib-Containing Carborane Pharmacophore with the Ability to Inhibit Tyrosine Kinases Receptors FLT3, KIT and PDGFR- $\beta$ Exhibits Powerful In Vivo Anti-Glioblastoma Activity. <i>Cancers</i> , <b>2020</b> , 12,	6.6	9
12	Mitochondrial Modulation by Dichloroacetate Reduces Toxicity of Aberrant Glial Cells and Gliosis in the SOD1G93A Rat Model of Amyotrophic Lateral Sclerosis. <i>Neurotherapeutics</i> , <b>2019</b> , 16, 203-215	6.4	9

11	Role of excitatory amino acids in the direct and indirect presynaptic regulation of dopamine release from nerve terminals of nigrostriatal dopaminergic neurons. <i>Amino Acids</i> , <b>1991</b> , 1, 351-63	3.5	8
10	Evidences of a sympatho-adrenal dysfunction after lesion of the central noradrenergic pathways in rats. <i>Journal of Neural Transmission</i> , <b>1986</b> , 67, 205-14	4.3	8
9	CD34 Identifies a Subset of Proliferating Microglial Cells Associated with Degenerating Motor Neurons in ALS. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	7
8	Astrocyte-based cell therapy: new hope for amyotrophic lateral sclerosis patients?. <i>Stem Cell Research and Therapy</i> , <b>2018</b> , 9, 241	8.3	7
7	Focal Transplantation of Aberrant Glial Cells Carrying the SOD1G93A Mutation into Rat Spinal Cord Induces Extensive Gliosis. <i>NeuroImmunoModulation</i> , <b>2017</b> , 24, 143-153	2.5	6
6	RAPID COMMUNICATION: Nerve growth factor influences cleavage rate and embryo development in sheep. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 4447-4451	0.7	6
5	Long Lasting High Lysine Diet Aggravates White Matter Injury in Glutaryl-CoA Dehydrogenase Deficient (Gcdh <sup>-/-</sup> ) Mice. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 648-657	6.2	6
4	Adaptative responses of spinal astrocytes to oxidative stress. <i>Progress in Brain Research</i> , <b>2001</b> , 132, 413-25		5
3	Urinary norepinephrine excretion in panic and phobic disorders. <i>Journal of Neural Transmission</i> , <b>1986</b> , 65, 75-81	4.3	5
2	A Nitroalkene Benzoic Acid Derivative Targets Reactive Microglia and Prolongs Survival in an Inherited Model of ALS via NF- $\kappa$ B Inhibition. <i>Neurotherapeutics</i> , <b>2021</b> , 18, 309-325	6.4	3
1	The pathogenic role of c-Kit <sup>+</sup> mast cells in the spinal motor neuron-vascular niche in ALS. <i>Acta Neuropathologica Communications</i> , <b>2021</b> , 9, 136	7.3	2