Luis H Barbeito

List of Publications by Year in Descending Order

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	A Nitroalkene Benzoic Acid Derivative Targets Reactive Microglia and Prolongs Survival in an Inherited Model of ALS via NF-B Inhibition. *Neurotherapeutics*, **2021**, 18, 309-325	6.4	3
99	Reactive astrocyte nomenclature, definitions, and future directions. *Nature Neuroscience*, **2021**, 24, 312-325	25.5	298
98	The pathogenic role of c-Kit+ mast cells in the spinal motor neuron-vascular niche in ALS. *Acta Neuropathologica Communications*, **2021**, 9, 136	7.3	2
97	Schwann cells orchestrate peripheral nerve inflammation through the expression of CSF1, IL-34, and SCF in amyotrophic lateral sclerosis. *Glia*, **2020**, 68, 1165-1181	9	17
96	Sunitinib-Containing Carborane Pharmacophore with the Ability to Inhibit Tyrosine Kinases Receptors FLT3, KIT and PDGFR- Exhibits Powerful In Vivo Anti-Glioblastoma Activity. *Cancers*, **2020**, 12,	6.6	9
95	Emergence of Microglia Bearing Senescence Markers During Paralysis Progression in a Rat Model of Inherited ALS. *Frontiers in Aging Neuroscience*, **2019**, 11, 42	5.3	26
94	Long Lasting High Lysine Diet Aggravates White Matter Injury in Glutaryl-CoA Dehydrogenase Deficient (Gcdh-/-) Mice. *Molecular Neurobiology*, **2019**, 56, 648-657	6.2	6
93	CD34 Identifies a Subset of Proliferating Microglial Cells Associated with Degenerating Motor Neurons in ALS. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	7
92	Mitochondrial Modulation by Dichloroacetate Reduces Toxicity of Aberrant Glial Cells and Gliosis in the SOD1G93A Rat Model of Amyotrophic Lateral Sclerosis. *Neurotherapeutics*, **2019**, 16, 203-215	6.4	9
91	Nitration and Glycation Turn Mature NGF into a Toxic Factor for Motor Neurons: A Role for p75 and RAGE Signaling in ALS. *Antioxidants and Redox Signaling*, **2018**, 28, 1587-1602	8.4	12
90	Mast cells and neutrophils mediate peripheral motor pathway degeneration in ALS. *JCI Insight*, **2018**, 3,	9.9	57
89	Phenotypic heterogeneity of astrocytes in motor neuron disease. *Clinical and Experimental Neuroimmunology*, **2018**, 9, 225-234	0.4	12
88	Astrocyte-based cell therapy: new hope for amyotrophic lateral sclerosis patients?. *Stem Cell Research and Therapy*, **2018**, 9, 241	8.3	7
87	Focal Transplantation of Aberrant Glial Cells Carrying the SOD1G93A Mutation into Rat Spinal Cord Induces Extensive Gliosis. *NeuroImmunoModulation*, **2017**, 24, 143-153	2.5	6
86	Ultrastructural features of aberrant glial cells isolated from the spinal cord of paralytic rats expressing the amyotrophic lateral sclerosis-linked SOD1G93A mutation. *Cell and Tissue Research*, **2017**, 370, 391-401	4.2	17
85	Significance of aberrant glial cell phenotypes in pathophysiology of amyotrophic lateral sclerosis. *Neuroscience Letters*, **2017**, 636, 27-31	3.3	17
84	Evidence for mast cells contributing to neuromuscular pathology in an inherited model of ALS. *JCI Insight*, **2017**, 2,	9.9	41

83	Post-paralysis tyrosine kinase inhibition with masitinib abrogates neuroinflammation and slows disease progression in inherited amyotrophic lateral sclerosis. *Journal of Neuroinflammation*, **2016**, 13, 177	10.1	84
82	RAPID COMMUNICATION: Nerve growth factor influences cleavage rate and embryo development in sheep. *Journal of Animal Science*, **2016**, 94, 4447-4451	0.7	6
81	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. *Free Radical Biology and Medicine*, **2016**, 95, 112-20	7.8	16
80	Copper delivery to the CNS by CuATSM effectively treats motor neuron disease in SOD(G93A) mice co-expressing the Copper-Chaperone-for-SOD. *Neurobiology of Disease*, **2016**, 89, 1-9	7.5	85
79	Neopterin acts as an endogenous cognitive enhancer. *Brain, Behavior, and Immunity*, **2016**, 56, 156-64	16.6	17
78	Isolation and Characterization of Ischemia-Derived Astrocytes (IDAs) with Ability to Transactivate Quiescent Astrocytes. *Frontiers in Cellular Neuroscience*, **2016**, 10, 139	6.1	20
77	A role of astrocytes in mediating postnatal neurodegeneration in Glutaric acidemia-type 1. *FEBS Letters*, **2015**, 589, 3492-7	3.8	11
76	Striatal neuronal death mediated by astrocytes from the Gcdh-/- mouse model of glutaric acidemia type I. *Human Molecular Genetics*, **2015**, 24, 4504-15	5.6	18
75	Neopterin as a potential cytoprotective brain molecule. *Journal of Psychiatric Research*, **2015**, 71, 134-9	5.2	27
74	White matter injury induced by perinatal exposure to glutaric acid. *Neurotoxicity Research*, **2014**, 25, 381-91	4.3	16
73	Neuroprotective effects of the mitochondria-targeted antioxidant MitoQ in a model of inherited amyotrophic lateral sclerosis. *Free Radical Biology and Medicine*, **2014**, 70, 204-13	7.8	97
72	Increased blood-brain barrier permeability and alterations in perivascular astrocytes and pericytes induced by intracisternal glutaric acid. *Fluids and Barriers of the CNS*, **2014**, 11, 15	7	20
71	P2X7 receptor-induced death of motor neurons by a peroxynitrite/FAS-dependent pathway. *Journal of Neurochemistry*, **2013**, 126, 382-8	6	35
70	Disruption of brain redox homeostasis in glutaryl-CoA dehydrogenase deficient mice treated with high dietary lysine supplementation. *Molecular Genetics and Metabolism*, **2013**, 108, 30-9	3.7	27
69	Phenotypic transition of microglia into astrocyte-like cells associated with disease onset in a model of inherited ALS. *Frontiers in Cellular Neuroscience*, **2013**, 7, 274	6.1	37
68	Nitric oxide-mediated oxidative damage and the progressive demise of motor neurons in ALS. *Neurotoxicity Research*, **2012**, 22, 251-64	4.3	85
67	Modulation of astrocytic mitochondrial function by dichloroacetate improves survival and motor performance in inherited amyotrophic lateral sclerosis. *PLoS ONE*, **2012**, 7, e34776	3.7	70
66	Neonatal astrocyte damage is sufficient to trigger progressive striatal degeneration in a rat model of glutaric acidemia-I. *PLoS ONE*, **2011**, 6, e20831	3.7	48

65	IFNβ triggers a LIGHT-dependent selective death of motoneurons contributing to the non-cell-autonomous effects of mutant SOD1. *Cell Death and Differentiation*, **2011**, 18, 754-68	12.7	59
64	Phenotypically aberrant astrocytes that promote motoneuron damage in a model of inherited amyotrophic lateral sclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18126-31	11.5	126
63	FGF-1 induces ATP release from spinal astrocytes in culture and opens pannexin and connexin hemichannels. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 22659-64	11.5	134
62	Extracellular ATP and the P2X7 receptor in astrocyte-mediated motor neuron death: implications for amyotrophic lateral sclerosis. *Journal of Neuroinflammation*, **2010**, 7, 33	10.1	106
61	Lead exposure stimulates VEGF expression in the spinal cord and extends survival in a mouse model of ALS. *Neurobiology of Disease*, **2010**, 37, 574-80	7.5	37
60	Axonal mitochondrial clusters containing mutant SOD1 in transgenic models of ALS. *Antioxidants and Redox Signaling*, **2009**, 11, 1535-45	8.4	45
59	Astrocytic proliferation and mitochondrial dysfunction induced by accumulated glutaric acidemia I (GAI) metabolites: possible implications for GAI pathogenesis. *Neurobiology of Disease*, **2008**, 32, 528-34	7.5	39
58	Mitochondrial dysfunction in SOD1G93A-bearing astrocytes promotes motor neuron degeneration: prevention by mitochondrial-targeted antioxidants. *Journal of Neuroscience*, **2008**, 28, 4115-22	6.6	223
57	Nogo receptor antagonizes p75NTR-dependent motor neuron death. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 740-5	11.5	26
56	Transcriptional profile of primary astrocytes expressing ALS-linked mutant SOD1. *Journal of Neuroscience Research*, **2008**, 86, 3515-25	4.4	42
55	Mitochondrial superoxide production and nuclear factor erythroid 2-related factor 2 activation in p75 neurotrophin receptor-induced motor neuron apoptosis. *Journal of Neuroscience*, **2007**, 27, 7777-85	6.6	92
54	Peroxynitrite transforms nerve growth factor into an apoptotic factor for motor neurons. *Free Radical Biology and Medicine*, **2006**, 41, 1632-44	7.8	34
53	Production of nerve growth factor by beta-amyloid-stimulated astrocytes induces p75NTR-dependent tau hyperphosphorylation in cultured hippocampal neurons. *Journal of Neuroscience Research*, **2006**, 84, 1098-106	4.4	38
52	Modulation of p75-dependent motor neuron death by a small non-peptidyl mimetic of the neurotrophin loop 1 domain. *European Journal of Neuroscience*, **2006**, 24, 1575-80	3.5	41
51	Increased glutathione biosynthesis by Nrf2 activation in astrocytes prevents p75NTR-dependent motor neuron apoptosis. *Journal of Neurochemistry*, **2006**, 97, 687-96	6	146
50	Complexity of astrocyte-motor neuron interactions in amyotrophic lateral sclerosis. *Neurodegenerative Diseases*, **2005**, 2, 139-46	2.3	61
49	Astrocyte activation by fibroblast growth factor-1 and motor neuron apoptosis: implications for amyotrophic lateral sclerosis. *Journal of Neurochemistry*, **2005**, 93, 38-46	6	86
48	Astroglial nitration after postnatal excitotoxic damage: correlation with nitric oxide sources, cytoskeletal, apoptotic and antioxidant proteins. *Journal of Neurotrauma*, **2005**, 22, 189-200	5.4	26

47	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. *Journal of Biological Chemistry*, **2005**, 280, 25571-9	5.4	114
46	Mitochondria in amyotrophic lateral sclerosis: a trigger and a target. *Neurodegenerative Diseases*, **2004**, 1, 245-54	2.3	111
45	Astrocytic production of nerve growth factor in motor neuron apoptosis: implications for amyotrophic lateral sclerosis. *Journal of Neurochemistry*, **2004**, 89, 464-73	6	172
44	Induction of motor neuron apoptosis by free 3-nitro-L-tyrosine. *Journal of Neurochemistry*, **2004**, 89, 602-12	6	42
43	A role for astrocytes in motor neuron loss in amyotrophic lateral sclerosis. *Brain Research Reviews*, **2004**, 47, 263-74		237
42	The expression of PEA-15 (phosphoprotein enriched in astrocytes of 15 kDa) defines subpopulations of astrocytes and neurons throughout the adult mouse brain. *Neuroscience*, **2004**, 126, 263-75	3.9	45
41	Stimulation of nerve growth factor expression in astrocytes by peroxynitrite. *In Vivo*, **2004**, 18, 269-74	2.3	24
40	Astrocytic nitric oxide triggers tau hyperphosphorylation in hippocampal neurons. *In Vivo*, **2004**, 18, 275-80	2.3	47
39	Involvement of nitric oxide on kainate-induced toxicity in oligodendrocyte precursors. *Neurotoxicity Research*, **2003**, 5, 399-406	4.3	18
38	PPAR gamma activators induce growth arrest and process extension in B12 oligodendrocyte-like cells and terminal differentiation of cultured oligodendrocytes. *Journal of Neuroscience Research*, **2003**, 72, 425-35	4.4	63
37	CCS knockout mice establish an alternative source of copper for SOD in ALS. *Free Radical Biology and Medicine*, **2002**, 33, 1433-5	7.8	26
36	Peroxynitrite triggers a phenotypic transformation in spinal cord astrocytes that induces motor neuron apoptosis. *Journal of Neuroscience Research*, **2002**, 67, 21-9	4.4	146
35	Peroxynitrite-induced cytotoxicity in cultured astrocytes is associated with morphological changes and increased nitrotyrosine immunoreactivity. *Neurotoxicity Research*, **2002**, 4, 87-93	4.3	14
34	Cyclic guanosine 5Smonophosphate (GMP) prevents expression of neuronal nitric oxide synthase and apoptosis in motor neurons deprived of trophic factors in rats. *Neuroscience Letters*, **2002**, 326, 201-5	3.3	20
33	The molecular bases of Alzheimer's disease and other neurodegenerative disorders. *Archives of Medical Research*, **2001**, 32, 367-81	6.6	331
32	Adaptative responses of spinal astrocytes to oxidative stress. *Progress in Brain Research*, **2001**, 132, 413-25	2.9	5
31	Superoxide dismutase and the death of motoneurons in ALS. *Trends in Neurosciences*, **2001**, 24, S15-20	13.3	147
30	Superoxide dismutase and the death of motoneurons in ALS. *Trends in Neurosciences*, **2001**, 24, 15-20	13.3	104

29	Liposome-delivered superoxide dismutase prevents nitric oxide-dependent motor neuron death induced by trophic factor withdrawal. *Free Radical Biology and Medicine*, **2000**, 28, 437-46	7.8	42
28	Induction of nitric oxide-dependent apoptosis in motor neurons by zinc-deficient superoxide dismutase. *Science*, **1999**, 286, 2498-500	33.3	520
27	Examining apoptosis in cultured cells after exposure to nitric oxide and peroxynitrite. *Methods in Enzymology*, **1999**, 301, 393-402	1.7	18
26	Role of endogenous nitric oxide and peroxynitrite formation in the survival and death of motor neurons in culture. *Progress in Brain Research*, **1998**, 118, 269-80	2.9	73
25	Nitric oxide-dependent production of cGMP supports the survival of rat embryonic motor neurons cultured with brain-derived neurotrophic factor. *Journal of Neuroscience*, **1998**, 18, 3708-14	6.6	149
24	Nitric oxide and superoxide contribute to motor neuron apoptosis induced by trophic factor deprivation. *Journal of Neuroscience*, **1998**, 18, 923-31	6.6	313
23	Riluzole promotes survival of rat motoneurons in vitro by stimulating trophic activity produced by spinal astrocyte monolayers. *Neuroscience Letters*, **1997**, 228, 207-11	3.3	57
22	Nerve growth factor protects PC12 cells against peroxynitrite-induced apoptosis via a mechanism dependent on phosphatidylinositol 3-kinase. *Journal of Neurochemistry*, **1997**, 69, 53-9	6	60
21	Acidic fibroblast growth factor enhances peroxynitrite-induced apoptosis in primary murine fibroblasts. *Archives of Biochemistry and Biophysics*, **1996**, 335, 32-41	4.1	39
20	Peroxynitrite-induced cytotoxicity in PC12 cells: evidence for an apoptotic mechanism differentially modulated by neurotrophic factors. *Journal of Neurochemistry*, **1995**, 65, 1543-50	6	244
19	Protective effect of riluzole on excitatory amino acid-mediated neurotoxicity in motoneuron-enriched cultures. *European Journal of Pharmacology*, **1995**, 280, 47-53	5.3	76
18	Riluzole inhibits the release of glutamate in the caudate nucleus of the cat in vivo. *Neuroscience Letters*, **1992**, 147, 209-12	3.3	140
17	Role of excitatory amino acids in the direct and indirect presynaptic regulation of dopamine release from nerve terminals of nigrostriatal dopaminergic neurons. *Amino Acids*, **1991**, 1, 351-63	3.5	8
16	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. *Neuroscience*, **1991**, 42, 19-28	3.9	55
15	Glutamate Receptors of a Quisqualate-Kainate Subtype are Involved in the Presynaptic Regulation of Dopamine Release in the Cat Caudate Nucleus in vivo. *European Journal of Neuroscience*, **1990**, 2, 304-311	3.5	96
14	Competitive inhibition of N-acetylated-alpha-linked acidic dipeptidase activity by N-acetyl-L-aspartyl-beta-linked L-glutamate. *Journal of Neurochemistry*, **1990**, 55, 39-46	6	63
13	Cholecystokinin: Corelease with dopamine from nigrostriatal neurons in the cat. *European Journal of Neuroscience*, **1989**, 1, 162-171	3.5	20
12	Activation of the bilateral corticostriatal glutamatergic projection by infusion of GABA into thalamic motor nuclei in the cat: an in vivo release study. *Neuroscience*, **1989**, 28, 365-74	3.9	54

11	Presynaptic regulation of dopaminergic transmission in the striatum. *Cellular and Molecular Neurobiology*, **1988**, 8, 7-17	4.6	68
10	Depolarization-evoked release of N-acetyl-L-aspartyl-L-glutamate from rat brain synaptosomes. *European Journal of Pharmacology*, **1988**, 158, 263-6	5.3	25
9	Behavioral and neurochemical effects of intraperitoneally injected dendrotoxin. *Toxicon*, **1988**, 26, 287-92	2.8	17
8	Substance P and neurokinin A regulate by different mechanisms dopamine release from dendrites and nerve terminals of the nigrostriatal dopaminergic neurons. *Neuroscience*, **1988**, 25, 889-98	3.9	92
7	Effect of DSP-4, a noradrenergic neurotoxin, on sleep and wakefulness and sensitivity to drugs acting on adrenergic receptors in the rat. *Sleep*, **1988**, 11, 370-7	1.1	28
6	In vivo release of endogenous amino acids from the rat striatum: further evidence for a role of glutamate and aspartate in corticostriatal neurotransmission. *Journal of Neurochemistry*, **1986**, 47, 98-106	6	127
5	Evidences of a sympatho-adrenal dysfunction after lesion of the central noradrenergic pathways in rats. *Journal of Neural Transmission*, **1986**, 67, 205-14	4.3	8
4	Urinary norepinephrine excretion in panic and phobic disorders. *Journal of Neural Transmission*, **1986**, 65, 75-81	4.3	5
3	High urinary norepinephrine excretion in major depressive disorders: effects of a new type of MAO inhibitor (Moclobemide, RO 11-1163). *Acta Psychiatrica Scandinavica*, **1984**, 70, 432-7	6.5	12
2	Fasciculin, a powerful anticholinesterase polypeptide from Dendroaspis angusticeps venom. *Neurochemistry International*, **1983**, 5, 267-74	4.4	86
1	Plasma noradrenaline and clinical psychopathology in schizophrenia. A correlation analysis. *Neuropsychobiology*, **1983**, 10, 70-4	4	14