Juan P BolaÃ±os

List of Publications by Year
in descending order

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92 papers	9,644 citations	41339 49 h-index	43886 91 g-index
96 all docs	96 docs citations	96 times ranked	11078 citing authors

#	Article	IF	Citations
1	Aberrant upregulation of the glycolytic enzyme PFKFB3 in CLN7 neuronal ceroid lipofuscinosis. Nature Communications, 2022, 13, 536.	12.8	14
2	Metabolic Messengers: endocannabinoids. Nature Metabolism, 2022, 4, 848-855.	11.9	10
3	l-Serine links metabolism with neurotransmission. Progress in Neurobiology, 2021, 197, 101896.	5.7	44
4	Abrogating mitochondrial ROS in neurons or astrocytes reveals cell-specific impact on mouse behaviour. Redox Biology, 2021, 41, 101917.	9.0	8
5	Opa1 relies on cristae preservation and ATP synthase to curtail reactive oxygen species accumulation in mitochondria. Redox Biology, 2021, 41, 101944.	9.0	34
6	Preconditioning-Activated AKT Controls Neuronal Tolerance to Ischemia through the MDM2â€“p53 Pathway. International Journal of Molecular Sciences, 2021, 22, 7275.	4.1	6
7	Astrocyte-neuron metabolic cooperation shapes brain activity. Cell Metabolism, 2021, 33, 1546-1564.	16.2	143
8	Repurposing of tamoxifen ameliorates CLN3 and CLN7 disease phenotype. EMBO Molecular Medicine, 2021, 13, e13742.	6.9	28
9	Nuclear WRAP53 promotes neuronal survival and functional recovery after stroke. Science Advances, 2020, 6, .	10.3	11
10	Glucose metabolism links astroglial mitochondria to cannabinoid effects. Nature, 2020, 583, 603-608.	27.8	169
11	An ex vivo Approach to Assess Mitochondrial ROS by Flow Cytometry in AAV-tagged Astrocytes in Adult Mice. Bio-protocol, 2020, 10, e3550.	0.4	3
12	Targeting PFKFB3 alleviates cerebral ischemia-reperfusion injury in mice. Scientific Reports, 2019, 9, 11670.	3.3	44
13	Does APC/C^{CDH1} control the human brain size?. Journal of Neurochemistry, 2019, 151, 8-10.	3.9	1
14	Astrocytic mitochondrial ROS modulate brain metabolism and mouse behaviour. Nature Metabolism, 2019, 1, 201-211.	11.9	119
15	Amyloid-ÃŸ promotes neurotoxicity by Cdk5-induced p53 stabilization. Neuropharmacology, 2019, 146, 19-27.	4.1	40
16	NF-ÎºB Activity Initiates Human ESC-Derived Neural Progenitor Cell Differentiation by Inducing a Metabolic Maturation Program. Stem Cell Reports, 2018, 10, 1766-1781.	4.8	23
17	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	11.2	120
18	Current technical approaches to brain energy metabolism. Glia, 2018, 66, 1138-1159.	4.9	40

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19	Single-Nucleotide Polymorphism <i>309T>G</i> in the <i>MDM2</i> Promoter Determines Functional Outcome After Stroke. Stroke, 2018, 49, 2437-2444.	2.0	16
20	Hippocampal neurons require a large pool of glutathione to sustain dendrite integrity and cognitive function. Redox Biology, 2018, 19, 52-61.	9.0	35
21	Mitochondrial Complex I Activity is Conditioned by Supercomplex Iâ€“III2â€“IV Assembly in Brain Cells: Relevance for Parkinsonâ€™s Disease. Neurochemical Research, 2017, 42, 1676-1682.	3.3	16
22	Mitochondrial respiratory chain disorganization in Parkinson's disease-relevant PINK1 and DJ1 mutants. Neurochemistry International, 2017, 109, 101-105.	3.8	43
23	Neovascularization and functional recovery after intracerebral hemorrhage is conditioned by the Tp53 Arg72Pro single-nucleotide polymorphism. Cell Death and Differentiation, 2017, 24, 144-154.	11.2	35
24	Inflammation, glucose, and vascular cell damage: the role of the pentose phosphate pathway. Cardiovascular Diabetology, 2016, 15, 82.	6.8	84
25	Mitochondrial control of cell bioenergetics in Parkinsonâ€™s disease. Free Radical Biology and Medicine, 2016, 100, 123-137.	2.9	74
26	Bioenergetics and redox adaptations of astrocytes to neuronal activity. Journal of Neurochemistry, 2016, 139, 115-125.	3.9	192
27	Î±â€Ketoglutarate dehydrogenase complex moonlighting: ROS signalling added to the list. Journal of Neurochemistry, 2016, 139, 689-690.	3.9	6
28	Complex I assembly into supercomplexes determines differential mitochondrial ROS production in neurons and astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13063-13068.	7.1	300
29	NRF2 Orchestrates the Metabolic Shift during Induced Pluripotent Stem Cell Reprogramming. Cell Reports, 2016, 14, 1883-1891.	6.4	132
30	Cdk5-mediated inhibition of APC/C-Cdh1 switches on the cyclin D1-Cdk4-pRb pathway causing aberrant S-phase entry of postmitotic neurons. Scientific Reports, 2015, 5, 18180.	3.3	31
31	Uncertainties in pentose-phosphate pathway flux assessment underestimate its contribution to neuronal glucose consumption: relevance for neurodegeneration and aging. Frontiers in Aging Neuroscience, 2015, 7, 89.	3.4	43
32	Regulation of Bcl-xL-ATP Synthase Interaction by Mitochondrial Cyclin B1-Cyclin-Dependent Kinase-1 Determines Neuronal Survival. Journal of Neuroscience, 2015, 35, 9287-9301.	3.6	44
33	DJ1 represses glycolysis and cell proliferation by transcriptionally up-regulating <i>pink1</i>. Biochemical Journal, 2015, 467, 303-310.	3.7	43
34	TIGAR's promiscuity. Biochemical Journal, 2014, 458, e5-e7.	3.7	8
35	The oxidized form of vitamin C, dehydroascorbic acid, regulates neuronal energy metabolism. Journal of Neurochemistry, 2014, 129, 663-671.	3.9	59
36	PINK1 deficiency sustains cell proliferation by reprogramming glucose metabolism through HIF1. Nature Communications, 2014, 5, 4514.	12.8	93

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37	RNA Interference as a Tool to Selectively Down-Modulate Protein Function. Neuromethods, 2014, , 177-194.	0.3	0
38	Underestimation of the Pentoseâ€"Phosphate Pathway in Intact Primary Neurons as Revealed by Metabolic Flux Analysis. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1843-1845.	4.3	37
39	Brain energy metabolism in glutamate-receptor activation and excitotoxicity: Role for APC/C-Cdh1 in the balance glycolysis/pentose phosphate pathway. Neurochemistry International, 2013, 62, 750-756.	3.8	68
40	Adapting glycolysis to cancer cell proliferation: the MAPK pathway focuses on PFKFB3. Biochemical Journal, 2013, 452, e7-e9.	3.7	22
41	Glutathione and Î³-glutamylcysteine in the antioxidant and survival functions of mitochondria. Biochemical Society Transactions, 2013, 41, 106-110.	3.4	35
42	Î³-Glutamylcysteine detoxifies reactive oxygen species by acting as glutathione peroxidase-1 cofactor. Nature Communications, 2012, 3, 718.	12.8	132
43	Antioxidant and bioenergetic coupling between neurons and astrocytes. Biochemical Journal, 2012, 443, 3-11.	3.7	210
44	The human <i>Tp53 Arg72Pro</i> polymorphism explains different functional prognosis in stroke. Journal of Experimental Medicine, 2011, 208, 429-437.	8.5	57
45	The pentoseâ€phosphate pathway in neuronal survival against nitrosative stress. IUBMB Life, 2010, 62, 14-18.	3.4	57
46	Glycolysis: a bioenergetic or a survival pathway?. Trends in Biochemical Sciences, 2010, 35, 145-149.	7.5	297
47	Bilirubin selectively inhibits cytochrome <i>c</i> oxidase activity and induces apoptosis in immature cortical neurons: assessment of the protective effects of glycoursodeoxycholic acid. Journal of Neurochemistry, 2010, 112, 56-65.	3.9	63
48	Persistent mitochondrial damage by nitric oxide and its derivatives: neuropathological implications. Frontiers in Neuroenergetics, 2010, 2, 1.	5.3	94
49	E3 ubiquitin ligase APC/C-Cdh1 accounts for the Warburg effect by linking glycolysis to cell proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 738-741.	7.1	150
50	The bioenergetic and antioxidant status of neurons is controlled by continuous degradation of a key glycolytic enzyme by APC/Câ€"Cdh1. Nature Cell Biology, 2009, 11, 747-752.	10.3	671
51	Mitochondria and reactive oxygen and nitrogen species in neurological disorders and stroke: Therapeutic implicationsâ˜†. Advanced Drug Delivery Reviews, 2009, 61, 1299-1315.	13.7	93
52	Expression of glucose transporter GLUT3 by endotoxin in cultured rat astrocytes: the role of nitric oxide. Journal of Neurochemistry, 2008, 79, 17-24.	3.9	36
53	Cdk5 phosphorylates Cdh1 and modulates cyclin B1 stability in excitotoxicity. EMBO Journal, 2008, 27, 2736-2745.	7.8	115
54	Regulation of glycolysis and pentoseâ€"phosphate pathway by nitric oxide: Impact on neuronal survival. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 789-793.	1.0	90

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55	Inhibition of PTEN by peroxynitrite activates the phosphoinositide-3-kinase/Akt neuroprotective signaling pathway. Journal of Neurochemistry, 2007, 102, 194-205.	3.9	76
56	Modulation of Astroglial Energy Metabolism by Nitric Oxide. Antioxidants and Redox Signaling, 2006, 8, 955-965.	5.4	40
57	Nitric oxide, cell bioenergetics and neurodegeneration. Journal of Neurochemistry, 2006, 97, 1676-1689.	3.9	506
58	Increased mitochondrial respiration maintains the mitochondrial membrane potential and promotes survival of cerebellar neurons in an endogenous model of glutamate receptor activation. Journal of Neurochemistry, 2005, 92, 183-190.	3.9	29
59	Mitochondrial respiratory chain and free radical generation in stroke. Free Radical Biology and Medicine, 2005, 39, 1291-1304.	2.9	207
60	Inhibition of mitochondrial respiration by nitric oxide: Its role in glucose metabolism and neuroprotection. Journal of Neuroscience Research, 2005, 79, 166-171.	2.9	40
61	Knockdown of Glutamate-Cysteine Ligase by Small Hairpin RNA Reveals That Both Catalytic and Modulatory Subunits Are Essential for the Survival of Primary Neurons. Journal of Biological Chemistry, 2005, 280, 38992-39001.	3.4	70
62	Cdh1/Hct1-APC Is Essential for the Survival of Postmitotic Neurons. Journal of Neuroscience, 2005, 25, 8115-8121.	3.6	135
63	Nitric oxide switches on glycolysis through the AMP protein kinase and 6-phosphofructo-2-kinase pathway. Nature Cell Biology, 2004, 6, 45-51.	10.3	416
64	Regulation of glucose metabolism by nitrosative stress in neural cells. Molecular Aspects of Medicine, 2004, 25, 61-73.	6.4	34
65	Inhibition of mitochondrial respiration by nitric oxide rapidly stimulates cytoprotective GLUT3-mediated glucose uptake through 5â€²-AMP-activated protein kinase. Biochemical Journal, 2004, 384, 629-636.	3.7	73
66	Peroxisome Proliferator-activated Receptor Î³ Thiazolidinedione Agonists Increase Glucose Metabolism in Astrocytes. Journal of Biological Chemistry, 2003, 278, 5828-5836.	3.4	154
67	Peroxynitrite Protects Neurons against Nitric Oxide-mediated Apoptosis. Journal of Biological Chemistry, 2003, 278, 864-874.	3.4	147
68	Peroxynitrite Stimulates l-Arginine Transport Systemy+ in Glial Cells. Journal of Biological Chemistry, 2002, 277, 29753-29759.	3.4	21
69	Impairment of brain mitochondrial function by reactive nitrogen species: the role of glutathione in dictating susceptibility. Neurochemistry International, 2002, 40, 469-474.	3.8	71
70	Nitric oxide accounts for an increased glycolytic rate in activated astrocytes through a glycogenolysis-independent mechanism. Brain Research, 2002, 945, 131-134.	2.2	7
71	D-Glucose Prevents Glutathione Oxidation and Mitochondrial Damage After Glutamate Receptor Stimulation in Rat Cortical Primary Neurons. Journal of Neurochemistry, 2002, 75, 1618-1624.	3.9	69
72	Oxygen and glucose deprivation induces mitochondrial dysfunction and oxidative stress in neurones but not in astrocytes in primary culture. Journal of Neurochemistry, 2002, 81, 207-217.	3.9	211

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73	Depletion of glutathione up-regulates mitochondrial complex I expression in glial cells. Journal of Neurochemistry, 2001, 76, 1593-1596.	3.9	22
74	A transient inhibition of mitochondrial ATP synthesis by nitric oxide synthase activation triggered apoptosis in primary cortical neurons. Journal of Neurochemistry, 2001, 77, 676-690.	3.9	147
75	Induction of Glucose-6-Phosphate Dehydrogenase by Lipopolysaccharide Contributes to Preventing Nitric Oxide-Mediated Glutathione Depletion in Cultured Rat Astrocytes. Journal of Neurochemistry, 2001, 72, 1750-1758.	3.9	79
76	Nitric oxide-mediated mitochondrial impairment in neural cells: a role for glucose metabolism in neuroprotection. Progress in Brain Research, 2001, 132, 441-454.	1.4	5
77	Nitric oxide mediates glutamate-induced mitochondrial depolarization in rat cortical neurons. Brain Research, 1999, 816, 580-586.	2.2	47
78	The assumption that nitric oxide inhibits mitochondrial ATP synthesis is correct. FEBS Letters, 1999, 446, 261-263.	2.8	84
79	Nitric oxide mediates brain mitochondrial maturation immediately after birth. FEBS Letters, 1999, 452, 290-294.	2.8	13
80	Nitric oxide, mitochondria and neurological disease. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1410, 215-228.	1.0	415
81	Roles of nitric oxide in brain hypoxia-ischemia. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 415-436.	1.0	269
82	Nitric oxide mediates brain mitochondrial damage during perinatal anoxia. Brain Research, 1998, 787, 117-122.	2.2	39
83	Glutamate neurotoxicity is associated with nitric oxide-mediated mitochondrial dysfunction and glutathione depletion. Brain Research, 1998, 790, 209-216.	2.2	137
84	Evaluation of the efficacy of potential therapeutic agents at protecting against nitric oxide synthase-mediated mitochondrial damage in activated astrocytes. Brain Research Protocols, 1997, 1, 258-262.	1.6	14
85	Interrelationships between astrocyte function, oxidative stress and antioxidant status within the central nervous system. Progress in Neurobiology, 1997, 52, 261-281.	5.7	156
86	Nitric Oxideâ€Mediated Mitochondrial Damage in the Brain: Mechanisms and Implications for Neurodegenerative Diseases. Journal of Neurochemistry, 1997, 68, 2227-2240.	3.9	458
87	Depletion of brain glutathione results in a decrease of glutathione reductase activity; an enzyme susceptible to oxidative damage. Brain Research, 1996, 716, 118-122.	2.2	97
88	Glutathione depletion is accompanied by increased neuronal nitric oxide synthase activity. Neurochemical Research, 1996, 21, 35-39.	3.3	40
89	Nitric oxide-mediated mitochondrial damage: A potential neuroprotective role for glutathione. Free Radical Biology and Medicine, 1996, 21, 995-1001.	2.9	240
90	Induction of Nitric Oxide Synthase Inhibits Gap Junction Permeability in Cultured Rat Astrocytes. Journal of Neurochemistry, 1996, 66, 2091-2099.	3.9	87

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91	Nitric oxide produced by activated astrocytes rapidly and reversibly inhibits cellular respiration. Neuroscience Letters, 1995, 193, 201-204.	2.1	204
92	Effect of Peroxynitrite on the Mitochondrial Respiratory Chain: Differential Susceptibility of Neurones and Astrocytes in Primary Culture. Journal of Neurochemistry, 1995, 64, 1965-1972.	3.9	446