

Juan P Bolaños

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10904746/publications.pdf>

Version: 2024-02-01

92
papers

9,644
citations

47409

49
h-index

49824

91
g-index

96
all docs

96
docs citations

96
times ranked

12142
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Aberrant upregulation of the glycolytic enzyme PFKFB3 in CLN7 neuronal ceroid lipofuscinosis. <i>Nature Communications</i> , 2022, 13, 536. | 5.8 | 14 |
| 2 | Metabolic Messengers: endocannabinoids. <i>Nature Metabolism</i> , 2022, 4, 848-855. | 5.1 | 10 |
| 3 | l-Serine links metabolism with neurotransmission. <i>Progress in Neurobiology</i> , 2021, 197, 101896. | 2.8 | 44 |
| 4 | Abrogating mitochondrial ROS in neurons or astrocytes reveals cell-specific impact on mouse behaviour. <i>Redox Biology</i> , 2021, 41, 101917. | 3.9 | 8 |
| 5 | Opa1 relies on cristae preservation and ATP synthase to curtail reactive oxygen species accumulation in mitochondria. <i>Redox Biology</i> , 2021, 41, 101944. | 3.9 | 34 |
| 6 | Preconditioning-Activated AKT Controls Neuronal Tolerance to Ischemia through the MDM2-p53 Pathway. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7275. | 1.8 | 6 |
| 7 | Astrocyte-neuron metabolic cooperation shapes brain activity. <i>Cell Metabolism</i> , 2021, 33, 1546-1564. | 7.2 | 143 |
| 8 | Repurposing of tamoxifen ameliorates CLN3 and CLN7 disease phenotype. <i>EMBO Molecular Medicine</i> , 2021, 13, e13742. | 3.3 | 28 |
| 9 | Nuclear WRAP53 promotes neuronal survival and functional recovery after stroke. <i>Science Advances</i> , 2020, 6, . | 4.7 | 11 |
| 10 | Glucose metabolism links astroglial mitochondria to cannabinoid effects. <i>Nature</i> , 2020, 583, 603-608. | 13.7 | 169 |
| 11 | An ex vivo Approach to Assess Mitochondrial ROS by Flow Cytometry in AAV-tagged Astrocytes in Adult Mice. <i>Bio-protocol</i> , 2020, 10, e3550. | 0.2 | 3 |
| 12 | Targeting PFKFB3 alleviates cerebral ischemia-reperfusion injury in mice. <i>Scientific Reports</i> , 2019, 9, 11670. | 1.6 | 44 |
| 13 | Does APC/C ^{CDH1} control the human brain size?. <i>Journal of Neurochemistry</i> , 2019, 151, 8-10. | 2.1 | 1 |
| 14 | Astrocytic mitochondrial ROS modulate brain metabolism and mouse behaviour. <i>Nature Metabolism</i> , 2019, 1, 201-211. | 5.1 | 119 |
| 15 | Amyloid- β promotes neurotoxicity by Cdk5-induced p53 stabilization. <i>Neuropharmacology</i> , 2019, 146, 19-27. | 2.0 | 40 |
| 16 | NF- κ B Activity Initiates Human ESC-Derived Neural Progenitor Cell Differentiation by Inducing a Metabolic Maturation Program. <i>Stem Cell Reports</i> , 2018, 10, 1766-1781. | 2.3 | 23 |
| 17 | Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. <i>Cell Death and Differentiation</i> , 2018, 25, 542-572. | 5.0 | 120 |
| 18 | Current technical approaches to brain energy metabolism. <i>Glia</i> , 2018, 66, 1138-1159. | 2.5 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Single-Nucleotide Polymorphism <i>C>309T></i> in the <i>MDM2</i> Promoter Determines Functional Outcome After Stroke. <i>Stroke</i> , 2018, 49, 2437-2444. | 1.0 | 16 |
| 20 | Hippocampal neurons require a large pool of glutathione to sustain dendrite integrity and cognitive function. <i>Redox Biology</i> , 2018, 19, 52-61. | 3.9 | 35 |
| 21 | Mitochondrial Complex I Activity is Conditioned by Supercomplex <i>III₂IV</i> Assembly in Brain Cells: Relevance for Parkinson's Disease. <i>Neurochemical Research</i> , 2017, 42, 1676-1682. | 1.6 | 16 |
| 22 | Mitochondrial respiratory chain disorganization in Parkinson's disease-relevant PINK1 and DJ1 mutants. <i>Neurochemistry International</i> , 2017, 109, 101-105. | 1.9 | 43 |
| 23 | Neovascularization and functional recovery after intracerebral hemorrhage is conditioned by the <i>Tp53 Arg72Pro</i> single-nucleotide polymorphism. <i>Cell Death and Differentiation</i> , 2017, 24, 144-154. | 5.0 | 35 |
| 24 | Inflammation, glucose, and vascular cell damage: the role of the pentose phosphate pathway. <i>Cardiovascular Diabetology</i> , 2016, 15, 82. | 2.7 | 84 |
| 25 | Mitochondrial control of cell bioenergetics in Parkinson's disease. <i>Free Radical Biology and Medicine</i> , 2016, 100, 123-137. | 1.3 | 74 |
| 26 | Bioenergetics and redox adaptations of astrocytes to neuronal activity. <i>Journal of Neurochemistry</i> , 2016, 139, 115-125. | 2.1 | 192 |
| 27 | <i>α-Ketoglutarate dehydrogenase complex moonlighting: ROS signalling added to the list.</i> <i>Journal of Neurochemistry</i> , 2016, 139, 689-690. | 2.1 | 6 |
| 28 | Complex I assembly into supercomplexes determines differential mitochondrial ROS production in neurons and astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13063-13068. | 3.3 | 300 |
| 29 | <i>NRF2 Orchestrates the Metabolic Shift during Induced Pluripotent Stem Cell Reprogramming.</i> <i>Cell Reports</i> , 2016, 14, 1883-1891. | 2.9 | 132 |
| 30 | <i>Cdk5-mediated inhibition of APC/C-Cdh1 switches on the cyclin D1-Cdk4-pRb pathway causing aberrant S-phase entry of postmitotic neurons.</i> <i>Scientific Reports</i> , 2015, 5, 18180. | 1.6 | 31 |
| 31 | Uncertainties in pentose-phosphate pathway flux assessment underestimate its contribution to neuronal glucose consumption: relevance for neurodegeneration and aging. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 89. | 1.7 | 43 |
| 32 | Regulation of Bcl-xL-ATP Synthase Interaction by Mitochondrial Cyclin B1-Cyclin-Dependent Kinase-1 Determines Neuronal Survival. <i>Journal of Neuroscience</i> , 2015, 35, 9287-9301. | 1.7 | 44 |
| 33 | <i>DJ1 represses glycolysis and cell proliferation by transcriptionally up-regulating pink1.</i> <i>Biochemical Journal</i> , 2015, 467, 303-310. | 1.7 | 43 |
| 34 | TIGAR's promiscuity. <i>Biochemical Journal</i> , 2014, 458, e5-e7. | 1.7 | 8 |
| 35 | The oxidized form of vitamin C, dehydroascorbic acid, regulates neuronal energy metabolism. <i>Journal of Neurochemistry</i> , 2014, 129, 663-671. | 2.1 | 59 |
| 36 | <i>PINK1 deficiency sustains cell proliferation by reprogramming glucose metabolism through HIF1.</i> <i>Nature Communications</i> , 2014, 5, 4514. | 5.8 | 93 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | RNA Interference as a Tool to Selectively Down-Modulate Protein Function. <i>NeuroMethods</i> , 2014, , 177-194. | 0.2 | 0 |
| 38 | Underestimation of the Pentose-Phosphate Pathway in Intact Primary Neurons as Revealed by Metabolic Flux Analysis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1843-1845. | 2.4 | 37 |
| 39 | Brain energy metabolism in glutamate-receptor activation and excitotoxicity: Role for APC/C-Cdh1 in the balance glycolysis/pentose phosphate pathway. <i>Neurochemistry International</i> , 2013, 62, 750-756. | 1.9 | 68 |
| 40 | Adapting glycolysis to cancer cell proliferation: the MAPK pathway focuses on PFKFB3. <i>Biochemical Journal</i> , 2013, 452, e7-e9. | 1.7 | 22 |
| 41 | Glutathione and γ -glutamylcysteine in the antioxidant and survival functions of mitochondria. <i>Biochemical Society Transactions</i> , 2013, 41, 106-110. | 1.6 | 35 |
| 42 | γ -Glutamylcysteine detoxifies reactive oxygen species by acting as glutathione peroxidase-1 cofactor. <i>Nature Communications</i> , 2012, 3, 718. | 5.8 | 132 |
| 43 | Antioxidant and bioenergetic coupling between neurons and astrocytes. <i>Biochemical Journal</i> , 2012, 443, 3-11. | 1.7 | 210 |
| 44 | The human <i>p53 Arg72Pro</i> polymorphism explains different functional prognosis in stroke. <i>Journal of Experimental Medicine</i> , 2011, 208, 429-437. | 4.2 | 57 |
| 45 | The pentose-phosphate pathway in neuronal survival against nitrosative stress. <i>IUBMB Life</i> , 2010, 62, 14-18. | 1.5 | 57 |
| 46 | Glycolysis: a bioenergetic or a survival pathway?. <i>Trends in Biochemical Sciences</i> , 2010, 35, 145-149. | 3.7 | 297 |
| 47 | Bilirubin selectively inhibits cytochrome <i>c</i> oxidase activity and induces apoptosis in immature cortical neurons: assessment of the protective effects of glycooursodeoxycholic acid. <i>Journal of Neurochemistry</i> , 2010, 112, 56-65. | 2.1 | 63 |
| 48 | Persistent mitochondrial damage by nitric oxide and its derivatives: neuropathological implications. <i>Frontiers in Neuroenergetics</i> , 2010, 2, 1. | 5.3 | 94 |
| 49 | E3 ubiquitin ligase APC/C-Cdh1 accounts for the Warburg effect by linking glycolysis to cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 738-741. | 3.3 | 150 |
| 50 | The bioenergetic and antioxidant status of neurons is controlled by continuous degradation of a key glycolytic enzyme by APC/C-Cdh1. <i>Nature Cell Biology</i> , 2009, 11, 747-752. | 4.6 | 671 |
| 51 | Mitochondria and reactive oxygen and nitrogen species in neurological disorders and stroke: Therapeutic implications†. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 1299-1315. | 6.6 | 93 |
| 52 | Expression of glucose transporter GLUT3 by endotoxin in cultured rat astrocytes: the role of nitric oxide. <i>Journal of Neurochemistry</i> , 2008, 79, 17-24. | 2.1 | 36 |
| 53 | Cdk5 phosphorylates Cdh1 and modulates cyclin B1 stability in excitotoxicity. <i>EMBO Journal</i> , 2008, 27, 2736-2745. | 3.5 | 115 |
| 54 | Regulation of glycolysis and pentose-phosphate pathway by nitric oxide: Impact on neuronal survival. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 789-793. | 0.5 | 90 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Inhibition of PTEN by peroxynitrite activates the phosphoinositide-3-kinase/Akt neuroprotective signaling pathway. <i>Journal of Neurochemistry</i> , 2007, 102, 194-205. | 2.1 | 76 |
| 56 | Modulation of Astroglial Energy Metabolism by Nitric Oxide. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 955-965. | 2.5 | 40 |
| 57 | Nitric oxide, cell bioenergetics and neurodegeneration. <i>Journal of Neurochemistry</i> , 2006, 97, 1676-1689. | 2.1 | 506 |
| 58 | Increased mitochondrial respiration maintains the mitochondrial membrane potential and promotes survival of cerebellar neurons in an endogenous model of glutamate receptor activation. <i>Journal of Neurochemistry</i> , 2005, 92, 183-190. | 2.1 | 29 |
| 59 | Mitochondrial respiratory chain and free radical generation in stroke. <i>Free Radical Biology and Medicine</i> , 2005, 39, 1291-1304. | 1.3 | 207 |
| 60 | Inhibition of mitochondrial respiration by nitric oxide: Its role in glucose metabolism and neuroprotection. <i>Journal of Neuroscience Research</i> , 2005, 79, 166-171. | 1.3 | 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. <i>Journal of Biological Chemistry</i> , 2005, 280, 38992-39001. | 1.6 | 70 |
| 62 | Cdh1/Hct1-APC Is Essential for the Survival of Postmitotic Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 8115-8121. | 1.7 | 135 |
| 63 | Nitric oxide switches on glycolysis through the AMP protein kinase and 6-phosphofructo-2-kinase pathway. <i>Nature Cell Biology</i> , 2004, 6, 45-51. | 4.6 | 416 |
| 64 | Regulation of glucose metabolism by nitrosative stress in neural cells. <i>Molecular Aspects of Medicine</i> , 2004, 25, 61-73. | 2.7 | 34 |
| 65 | Inhibition of mitochondrial respiration by nitric oxide rapidly stimulates cytoprotective GLUT3-mediated glucose uptake through 5 α -AMP-activated protein kinase. <i>Biochemical Journal</i> , 2004, 384, 629-636. | 1.7 | 73 |
| 66 | Peroxisome Proliferator-activated Receptor β Thiazolidinedione Agonists Increase Glucose Metabolism in Astrocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 5828-5836. | 1.6 | 154 |
| 67 | Peroxynitrite Protects Neurons against Nitric Oxide-mediated Apoptosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 864-874. | 1.6 | 147 |
| 68 | Peroxynitrite Stimulates L-Arginine Transport System ⁺ in Glial Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 29753-29759. | 1.6 | 21 |
| 69 | Impairment of brain mitochondrial function by reactive nitrogen species: the role of glutathione in dictating susceptibility. <i>Neurochemistry International</i> , 2002, 40, 469-474. | 1.9 | 71 |
| 70 | Nitric oxide accounts for an increased glycolytic rate in activated astrocytes through a glycogenolysis-independent mechanism. <i>Brain Research</i> , 2002, 945, 131-134. | 1.1 | 7 |
| 71 | D-Glucose Prevents Glutathione Oxidation and Mitochondrial Damage After Glutamate Receptor Stimulation in Rat Cortical Primary Neurons. <i>Journal of Neurochemistry</i> , 2002, 75, 1618-1624. | 2.1 | 69 |
| 72 | Oxygen and glucose deprivation induces mitochondrial dysfunction and oxidative stress in neurones but not in astrocytes in primary culture. <i>Journal of Neurochemistry</i> , 2002, 81, 207-217. | 2.1 | 211 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Depletion of glutathione up-regulates mitochondrial complex I expression in glial cells. <i>Journal of Neurochemistry</i> , 2001, 76, 1593-1596. | 2.1 | 22 |
| 74 | A transient inhibition of mitochondrial ATP synthesis by nitric oxide synthase activation triggered apoptosis in primary cortical neurons. <i>Journal of Neurochemistry</i> , 2001, 77, 676-690. | 2.1 | 147 |
| 75 | Induction of Glucose-6-Phosphate Dehydrogenase by Lipopolysaccharide Contributes to Preventing Nitric Oxide-Mediated Glutathione Depletion in Cultured Rat Astrocytes. <i>Journal of Neurochemistry</i> , 2001, 72, 1750-1758. | 2.1 | 79 |
| 76 | Nitric oxide-mediated mitochondrial impairment in neural cells: a role for glucose metabolism in neuroprotection. <i>Progress in Brain Research</i> , 2001, 132, 441-454. | 0.9 | 5 |
| 77 | Nitric oxide mediates glutamate-induced mitochondrial depolarization in rat cortical neurons. <i>Brain Research</i> , 1999, 816, 580-586. | 1.1 | 47 |
| 78 | The assumption that nitric oxide inhibits mitochondrial ATP synthesis is correct. <i>FEBS Letters</i> , 1999, 446, 261-263. | 1.3 | 84 |
| 79 | Nitric oxide mediates brain mitochondrial maturation immediately after birth. <i>FEBS Letters</i> , 1999, 452, 290-294. | 1.3 | 13 |
| 80 | Nitric oxide, mitochondria and neurological disease. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999, 1410, 215-228. | 0.5 | 415 |
| 81 | Roles of nitric oxide in brain hypoxia-ischemia. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999, 1411, 415-436. | 0.5 | 269 |
| 82 | Nitric oxide mediates brain mitochondrial damage during perinatal anoxia. <i>Brain Research</i> , 1998, 787, 117-122. | 1.1 | 39 |
| 83 | Glutamate neurotoxicity is associated with nitric oxide-mediated mitochondrial dysfunction and glutathione depletion. <i>Brain Research</i> , 1998, 790, 209-216. | 1.1 | 137 |
| 84 | Evaluation of the efficacy of potential therapeutic agents at protecting against nitric oxide synthase-mediated mitochondrial damage in activated astrocytes. <i>Brain Research Protocols</i> , 1997, 1, 258-262. | 1.7 | 14 |
| 85 | Interrelationships between astrocyte function, oxidative stress and antioxidant status within the central nervous system. <i>Progress in Neurobiology</i> , 1997, 52, 261-281. | 2.8 | 156 |
| 86 | Nitric Oxide-Mediated Mitochondrial Damage in the Brain: Mechanisms and Implications for Neurodegenerative Diseases. <i>Journal of Neurochemistry</i> , 1997, 68, 2227-2240. | 2.1 | 458 |
| 87 | Depletion of brain glutathione results in a decrease of glutathione reductase activity; an enzyme susceptible to oxidative damage. <i>Brain Research</i> , 1996, 716, 118-122. | 1.1 | 97 |
| 88 | Glutathione depletion is accompanied by increased neuronal nitric oxide synthase activity. <i>Neurochemical Research</i> , 1996, 21, 35-39. | 1.6 | 40 |
| 89 | Nitric oxide-mediated mitochondrial damage: A potential neuroprotective role for glutathione. <i>Free Radical Biology and Medicine</i> , 1996, 21, 995-1001. | 1.3 | 240 |
| 90 | Induction of Nitric Oxide Synthase Inhibits Gap Junction Permeability in Cultured Rat Astrocytes. <i>Journal of Neurochemistry</i> , 1996, 66, 2091-2099. | 2.1 | 87 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Nitric oxide produced by activated astrocytes rapidly and reversibly inhibits cellular respiration. <i>Neuroscience Letters</i> , 1995, 193, 201-204. | 1.0 | 204 |
| 92 | Effect of Peroxynitrite on the Mitochondrial Respiratory Chain: Differential Susceptibility of Neurones and Astrocytes in Primary Culture. <i>Journal of Neurochemistry</i> , 1995, 64, 1965-1972. | 2.1 | 446 |