

Alejandro K Samhan-Arias

List of Publications by Year in descending order

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38
papers

2,001
citations

279798

23
h-index

315739

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42
all docs

42
docs citations

42
times ranked

2953
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. <i>Nature Neuroscience</i> , 2012, 15, 1407-1413.	14.8	254
2	Mitochondrial DNA Mutations Induce Mitochondrial Dysfunction, Apoptosis and Sarcopenia in Skeletal Muscle of Mitochondrial DNA Mutator Mice. <i>PLoS ONE</i> , 2010, 5, e11468.	2.5	225
3	Neuroprotective Actions of Flavonoids. <i>Current Medicinal Chemistry</i> , 2011, 18, 1195-1212.	2.4	130
4	Hydrogen Sulfide Raises Cytosolic Calcium in Neurons Through Activation of L-Type Ca ²⁺ Channels. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 31-42.	5.4	118
5	Kaempferol blocks oxidative stress in cerebellar granule cells and reveals a key role for reactive oxygen species production at the plasma membrane in the commitment to apoptosis. <i>Free Radical Biology and Medicine</i> , 2004, 37, 48-61.	2.9	106
6	Mitochondrial targeting of electron scavenging antioxidants: Regulation of selective oxidation vs random chain reactions. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 1375-1385.	13.7	103
7	A mitochondria-targeted inhibitor of cytochrome c peroxidase mitigates radiation-induced death. <i>Nature Communications</i> , 2011, 2, 497.	12.8	91
8	Mitophagy in Human Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3903.	4.1	91
9	Kaempferol protects against rat striatal degeneration induced by 3- α -nitropropionic acid. <i>Journal of Neurochemistry</i> , 2009, 111, 473-487.	3.9	77
10	Phosphomimetic Substitution of Cytochrome <i>c</i> Tyrosine 48 Decreases Respiration and Binding to Cardiolipin and Abolishes Ability to Trigger Downstream Caspase Activation. <i>Biochemistry</i> , 2010, 49, 6705-6714.	2.5	77
11	Blood micromolar concentrations of kaempferol afford protection against ischemia/reperfusion-induced damage in rat brain. <i>Brain Research</i> , 2007, 1182, 123-137.	2.2	75
12	Global Phospholipidomics Analysis Reveals Selective Pulmonary Peroxidation Profiles upon Inhalation of Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 7342-7353.	14.6	64
13	Topography of tyrosine residues and their involvement in peroxidation of polyunsaturated cardiolipin in cytochrome <i>c</i> /cardiolipin peroxidase complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2147-2155.	2.6	64
14	Heterolytic Reduction of Fatty Acid Hydroperoxides by Cytochrome <i>c</i> /Cardiolipin Complexes: Antioxidant Function in Mitochondria. <i>Journal of the American Chemical Society</i> , 2009, 131, 11288-11289.	13.7	62
15	Oxidized phospholipids as biomarkers of tissue and cell damage with a focus on cardiolipin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2413-2423.	2.6	57
16	Targeting Lipid Peroxidation for Cancer Treatment. <i>Molecules</i> , 2020, 25, 5144.	3.8	51
17	Clustering of plasma membrane-bound cytochrome b reductase within "lipid raft" microdomains of the neuronal plasma membrane. <i>Molecular and Cellular Neurosciences</i> , 2009, 40, 14-26.	2.2	42
18	Lipid antioxidants: free radical scavenging & versus regulation of enzymatic lipid peroxidation. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2010, 48, 91-95.	1.4	38

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19	Correlation between the potency of flavonoids for cytochrome c reduction and inhibition of cardiolipin-induced peroxidase activity. <i>BioFactors</i> , 2017, 43, 451-468.	5.4	32
20	Structural characterization of cardiolipin-driven activation of cytochrome c into a peroxidase and membrane perturbation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1057-1068.	2.6	32
21	Stimulation and clustering of cytochrome b5 reductase in caveolin-rich lipid microdomains is an early event in oxidative stress-mediated apoptosis of cerebellar granule neurons. <i>Journal of Proteomics</i> , 2012, 75, 2934-2949.	2.4	28
22	Purified NADH-cytochrome b5 reductase is a novel superoxide anion source inhibited by apocynin: sensitivity to nitric oxide and peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2014, 73, 174-189.	2.9	27
23	Hydrogen sulfide is a reversible inhibitor of the NADH oxidase activity of synaptic plasma membranes. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 718-722.	2.1	23
24	L-type calcium channels and cytochrome b5 reductase are components of protein complexes tightly associated with lipid rafts microdomains of the neuronal plasma membrane. <i>Journal of Proteomics</i> , 2010, 73, 1502-1510.	2.4	21
25	Early disruption of the actin cytoskeleton in cultured cerebellar granule neurons exposed to 3-morpholinopyridone-oxidative stress is linked to alterations of the cytosolic calcium concentration. <i>Cell Calcium</i> , 2011, 49, 174-183.	2.4	18
26	Reduction of ascorbate free radical by the plasma membrane of synaptic terminals from rat brain. <i>Archives of Biochemistry and Biophysics</i> , 2008, 469, 243-254.	3.0	16
27	Topography of human cytochrome b5/cytochrome b5 reductase interacting domain and redox alterations upon complex formation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 78-87.	1.0	13
28	Cytochrome b5 reductase is the component from neuronal synaptic plasma membrane vesicles that generates superoxide anion upon stimulation by cytochrome c. <i>Redox Biology</i> , 2018, 15, 109-114.	9.0	12
29	Regionalization of Plasma Membrane-Bound Flavoproteins of Cerebellar Granule Neurons in Culture by Fluorescence Energy Transfer Imaging. <i>Journal of Fluorescence</i> , 2006, 16, 393-401.	2.5	10
30	Peroxidase-like activity of cytochrome b5 is triggered upon hemichrome formation in alkaline pH. <i>Biochimica Et Biophysica Acta - Proteomics</i> , 2018, 1866, 373-378.	2.3	6
31	Structural Features of Cytochrome b5-Cytochrome b5 Reductase Complex Formation and Implications for the Intramolecular Dynamics of Cytochrome b5 Reductase. <i>International Journal of Molecular Sciences</i> , 2022, 23, 118.	4.1	6
32	High expression of cytochrome b5 reductase isoform 3/cytochrome b5 system in the cerebellum and pyramidal neurons of adult rat brain. <i>Brain Structure and Function</i> , 2016, 221, 2147-2162.	2.3	5
33	Human erythrocytes exposure to juglone leads to an increase of superoxide anion production associated with cytochrome b5 reductase uncoupling. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148134.	1.0	5
34	Biochemical and anatomical basis of brain dysfunctions caused by cytochrome b5 reductase deficiency or dysregulation. <i>Journal of Neurology and Neuromedicine</i> , 2016, 1, 61-65.	0.9	5
35	The critical role of lipid rafts nanodomains in the cross-talk between calcium and reactive oxygen and nitrogen species in cerebellar granule neurons apoptosis by extracellular potassium deprivation. <i>AIMS Molecular Science</i> , 2016, 3, 12-29.	0.5	5
36	Ligand accessibility to heme cytochrome b5 coordinating sphere and enzymatic activity enhancement upon tyrosine ionization. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 317-330.	2.6	4

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37	Design and Experimental Evaluation of a Peptide Antagonist against Amyloid β (1-42) Interactions with Calmodulin and Calbindin-D28k. International Journal of Molecular Sciences, 2022, 23, 2289.	4.1	4
38	Evaluation of Sweat-Sampling Procedures for Human Stress-Biomarker Detection. Analytica Chimica Acta Journal of Analytical Chemistry and Chemical Analysis, 2022, 3, 178-194.	1.7	4