Alejandro K Samhan-Arias

List of Publications by Year
in descending order

38 papers	2,001 citations	279798 23 h-index	315739 38 g-index
42 all docs	42 docs citations	42 times ranked	2953 citing authors

#	Article	IF	Citations
1	Structural Features of Cytochrome b5â€“Cytochrome b5 Reductase Complex Formation and Implications for the Intramolecular Dynamics of Cytochrome b5 Reductase. International Journal of Molecular Sciences, 2022, 23, 118.	4.1	6
2	Design and Experimental Evaluation of a Peptide Antagonist against Amyloid Î²(1â€“42) Interactions with Calmodulin and Calbindin-D28k. International Journal of Molecular Sciences, 2022, 23, 2289.	4.1	4
3	Evaluation of Sweat-Sampling Procedures for Human Stress-Biomarker Detection. Analyticaâ€”A Journal of Analytical Chemistry and Chemical Analysis, 2022, 3, 178-194.	1.7	4
4	Mitophagy in Human Diseases. International Journal of Molecular Sciences, 2021, 22, 3903.	4.1	91
5	Human erythrocytes exposure to juglone leads to an increase of superoxide anion production associated with cytochrome b5 reductase uncoupling. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148134.	1.0	5
6	Targeting Lipid Peroxidation for Cancer Treatment. Molecules, 2020, 25, 5144.	3.8	51
7	Ligand accessibility to heme cytochrome b5 coordinating sphere and enzymatic activity enhancement upon tyrosine ionization. Journal of Biological Inorganic Chemistry, 2019, 24, 317-330.	2.6	4
8	Structural characterization of cardiolipin-driven activation of cytochrome c into a peroxidase and membrane perturbation. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1057-1068.	2.6	32
9	Peroxidase-like activity of cytochrome b 5 is triggered upon hemichrome formation in alkaline pH. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 373-378.	2.3	6
10	Cytochrome b5 reductase is the component from neuronal synaptic plasma membrane vesicles that generates superoxide anion upon stimulation by cytochrome c. Redox Biology, 2018, 15, 109-114.	9.0	12
11	Topography of human cytochrome b5/cytochrome b5 reductase interacting domain and redox alterations upon complex formation. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 78-87.	1.0	13
12	Correlation between the potency of flavonoids for cytochrome c reduction and inhibition of cardiolipinâ€induced peroxidase activity. BioFactors, 2017, 43, 451-468.	5.4	32
13	High expression of cytochrome b 5 reductase isoform 3/cytochrome b 5 system in the cerebellum and pyramidal neurons of adult rat brain. Brain Structure and Function, 2016, 221, 2147-2162.	2.3	5
14	Biochemical and anatomical basis of brain dysfunctions caused by cytochrome b5 reductase deficiency or dysregulation. Journal of Neurology and Neuromedicine, 2016, 1, 61-65.	0.9	5
15	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. AIMS Molecular Science, 2016, 3, 12-29.	0.5	5
16	Purified NADH-cytochrome b5 reductase is a novel superoxide anion source inhibited by apocynin: sensitivity to nitric oxide and peroxynitrite. Free Radical Biology and Medicine, 2014, 73, 174-189.	2.9	27
17	Oxidized phospholipids as biomarkers of tissue and cell damage with a focus on cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2413-2423.	2.6	57
18	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. Nature Neuroscience, 2012, 15, 1407-1413.	14.8	254

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19	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. Journal of Proteomics, 2012, 75, 2934-2949.	2.4	28
20	Global Phospholipidomics Analysis Reveals Selective Pulmonary Peroxidation Profiles upon Inhalation of Single-Walled Carbon Nanotubes. ACS Nano, 2011, 5, 7342-7353.	14.6	64
21	Topography of tyrosine residues and their involvement in peroxidation of polyunsaturated cardiolipin in cytochrome c/cardiolipin peroxidase complexes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2147-2155.	2.6	64
22	A mitochondria-targeted inhibitor of cytochrome c peroxidase mitigates radiation-induced death. Nature Communications, 2011, 2, 497.	12.8	91
23	Early disruption of the actin cytoskeleton in cultured cerebellar granule neurons exposed to 3-morpholinosydnonimine-oxidative stress is linked to alterations of the cytosolic calcium concentration. Cell Calcium, 2011, 49, 174-183.	2.4	18
24	Neuroprotective Actions of Flavonoids. Current Medicinal Chemistry, 2011, 18, 1195-1212.	2.4	130
25	L-type calcium channels and cytochrome b5 reductase are components of protein complexes tightly associated with lipid rafts microdomains of the neuronal plasma membrane. Journal of Proteomics, 2010, 73, 1502-1510.	2.4	21
26	Lipid antioxidants: free radical scavenging <i>versus</i> regulation of enzymatic lipid peroxidation. Journal of Clinical Biochemistry and Nutrition, 2010, 48, 91-95.	1.4	38
27	Mitochondrial DNA Mutations Induce Mitochondrial Dysfunction, Apoptosis and Sarcopenia in Skeletal Muscle of Mitochondrial DNA Mutator Mice. PLoS ONE, 2010, 5, e11468.	2.5	225
28	Phosphomimetic Substitution of CytochromecTyrosine 48 Decreases Respiration and Binding to Cardiolipin and Abolishes Ability to Trigger Downstream Caspase Activation. Biochemistry, 2010, 49, 6705-6714.	2.5	77
29	Kaempferol protects against rat striatal degeneration induced by 3â€nitropropionic acid. Journal of Neurochemistry, 2009, 111, 473-487.	3.9	77
30	Mitochondrial targeting of electron scavenging antioxidants: Regulation of selective oxidation vs random chain reactionsâ˜†. Advanced Drug Delivery Reviews, 2009, 61, 1375-1385.	13.7	103
31	Hydrogen sulfide is a reversible inhibitor of the NADH oxidase activity of synaptic plasma membranes. Biochemical and Biophysical Research Communications, 2009, 388, 718-722.	2.1	23
32	Clustering of plasma membrane-bound cytochrome b reductase within â€˜lipid raftâ€™ microdomains of the neuronal plasma membrane. Molecular and Cellular Neurosciences, 2009, 40, 14-26.	2.2	42
33	Heterolytic Reduction of Fatty Acid Hydroperoxides by Cytochrome c/Cardiolipin Complexes: Antioxidant Function in Mitochondria. Journal of the American Chemical Society, 2009, 131, 11288-11289.	13.7	62
34	Reduction of ascorbate free radical by the plasma membrane of synaptic terminals from rat brain. Archives of Biochemistry and Biophysics, 2008, 469, 243-254.	3.0	16
35	Hydrogen Sulfide Raises Cytosolic Calcium in Neurons Through Activation of L-Type Ca2+ Channels. Antioxidants and Redox Signaling, 2008, 10, 31-42.	5.4	118
36	Blood micromolar concentrations of kaempferol afford protection against ischemia/reperfusion-induced damage in rat brain. Brain Research, 2007, 1182, 123-137.	2.2	75

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37	Regionalization of Plasma Membrane-Bound Flavoproteins of Cerebellar Granule Neurons in Culture by Fluorescence Energy Transfer Imaging. Journal of Fluorescence, 2006, 16, 393-401.	2.5	10
38	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. Free Radical Biology and Medicine, 2004, 37, 48-61.	2.9	106