

Carlos Gutierrez-Merino

List of Publications by Year in descending order

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92
papers

2,563
citations

186265

28
h-index

214800

47
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93
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93
docs citations

93
times ranked

2817
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. <i>International Journal of Molecular Sciences</i> , 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. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2289.	4.1	4
3	Kaempferol prevents the activation of complement C3 protein and the generation of reactive A1 astrocytes that mediate rat brain degeneration induced by 3-nitropropionic acid. <i>Food and Chemical Toxicology</i> , 2022, 164, 113017.	3.6	16
4	Special Issue â€œMolecular and Cellular Mechanisms of Action of Markers of Tissue Degenerationâ€• <i>International Journal of Molecular Sciences</i> , 2022, 23, 6358.	4.1	0
5	Binding of Amyloid Î²(1â€“42)-Calmodulin Complexes to Plasma Membrane Lipid Rafts in Cerebellar Granule Neurons Alters Resting Cytosolic Calcium Homeostasis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1984.	4.1	14
6	The Relevance of Amyloid Î²-Calmodulin Complexation in Neurons and Brain Degeneration in Alzheimerâ€™s Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4976.	4.1	13
7	Gold Compounds Inhibit the Ca ²⁺ -ATPase Activity of Brain PMCA and Human Neuroblastoma SH-SY5Y Cells and Decrease Cell Viability. <i>Metals</i> , 2021, 11, 1934.	2.3	7
8	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
9	Modulation of CYP2C9 activity and hydrogen peroxide production by cytochrome b5. <i>Scientific Reports</i> , 2020, 10, 15571.	3.3	13
10	Early Reactive A1 Astrocytes Induction by the Neurotoxin 3-Nitropropionic Acid in Rat Brain. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3609.	4.1	20
11	Methylene Blue Blocks and Reverses the Inhibitory Effect of Tau on PMCA Function. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3521.	4.1	12
12	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
13	Peroxidase-like activity of cytochrome b 5 is triggered upon hemichrome formation in alkaline pH. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 373-378.	2.3	6
14	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
15	Methyl-Î²-Cyclodextrin Impairs the Phosphorylation of the Î²2 Subunit of L-Type Calcium Channels and Cytosolic Calcium Homeostasis in Mature Cerebellar Granule Neurons. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3667.	4.1	9
16	Methylene blue activates the PMCA activity and cross-interacts with amyloid Î²-peptide, blocking AÎ²-mediated PMCA inhibition. <i>Neuropharmacology</i> , 2018, 139, 163-172.	4.1	15
17	Creatine Protects Against Cytosolic Calcium Dysregulation, Mitochondrial Depolarization and Increase of Reactive Oxygen Species Production in Rotenone-Induced Cell Death of Cerebellar Granule Neurons. <i>Neurotoxicity Research</i> , 2018, 34, 717-732.	2.7	15
18	STIM1 deficiency is linked to Alzheimerâ€™s disease and triggers cell death in SH-SY5Y cells by upregulation of L-type voltage-operated Ca ²⁺ entry. <i>Journal of Molecular Medicine</i> , 2018, 96, 1061-1079.	3.9	54

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19	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
20	High affinity binding of amyloid β -peptide to calmodulin: Structural and functional implications. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 992-997.	2.1	37
21	Correlation between the potency of flavonoids for cytochrome <i>c</i> reduction and inhibition of cardiolipin-induced peroxidase activity. <i>BioFactors</i> , 2017, 43, 451-468.	5.4	32
22	Phospholipids and calmodulin modulate the inhibition of PMCA activity by tau. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1028-1035.	4.1	16
23	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
24	Cytosolic Calcium Homeostasis in Neurons – Control Systems, Modulation by Reactive Oxygen and Nitrogen Species, and Space and Time Fluctuations. , 2014, , .		4
25	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
26	The decrease of NAD(P)H:quinone oxidoreductase 1 activity and increase of ROS production by NADPH oxidases are early biomarkers in doxorubicin cardiotoxicity. <i>Biomarkers</i> , 2014, 19, 142-153.	1.9	26
27	Caveolin-rich lipid rafts of the plasma membrane of mature cerebellar granule neurons are microcompartments for calcium/reactive oxygen and nitrogen species cross-talk signaling. <i>Cell Calcium</i> , 2014, 56, 108-123.	2.4	34
28	L-type voltage-operated calcium channels, N-methyl-d-aspartate receptors and neuronal nitric-oxide synthase form a calcium/redox nano-transducer within lipid rafts. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 257-262.	2.1	25
29	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
30	Reactivity of hydrogen sulfide with peroxynitrite and other oxidants of biological interest. <i>Free Radical Biology and Medicine</i> , 2011, 50, 196-205.	2.9	199
31	Complex I and cytochrome c are molecular targets of flavonoids that inhibit hydrogen peroxide production by mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1562-1572.	1.0	142
32	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
33	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
34	Peroxynitrite-mediated oxidative modifications of myosin and implications on structure and function. <i>Free Radical Research</i> , 2010, 44, 1317-1327.	3.3	13
35	Kaempferol protects against rat striatal degeneration induced by β -nitropropionic acid. <i>Journal of Neurochemistry</i> , 2009, 111, 473-487.	3.9	77
36	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

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37	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
38	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
39	Vanadate Induces Necrotic Death in Neonatal Rat Cardiomyocytes Through Mitochondrial Membrane Depolarization. <i>Chemical Research in Toxicology</i> , 2008, 21, 607-618.	3.3	53
40	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
41	Mitochondria as a target for decavanadate toxicity in <i>Sparus aurata</i> heart. <i>Aquatic Toxicology</i> , 2007, 83, 1-9.	4.0	47
42	Biological Effects of Decavanadate: Muscle Contraction, In Vivo Oxidative Stress, and Mitochondrial Toxicity. <i>ACS Symposium Series</i> , 2007, , 249-263.	0.5	6
43	Binding modes of decavanadate to myosin and inhibition of the actomyosin ATPase activity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 474-480.	2.3	32
44	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
45	Inhibition of Skeletal Muscle S1-Myosin ATPase by Peroxynitrite. <i>Biochemistry</i> , 2006, 45, 3794-3804.	2.5	49
46	Peroxynitrite induces F-actin depolymerization and blockade of myosin ATPase stimulation. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 44-49.	2.1	25
47	Decavanadate interactions with actin: Inhibition of G-actin polymerization and stabilization of decameric vanadate. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 1734-1743.	3.5	67
48	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
49	Transfemoral selective "intra-luminal wiring" technique for transient middle cerebral artery occlusion in rats. <i>Journal of Neuroscience Methods</i> , 2005, 149, 82-89.	2.5	11
50	Alteration of cytosolic free calcium homeostasis by SIN-1: high sensitivity of L-type Ca ²⁺ channels to extracellular oxidative/nitrosative stress in cerebellar granule cells. <i>Journal of Neurochemistry</i> , 2005, 92, 973-989.	3.9	46
51	Modulation of sarcoplasmic reticulum Ca ²⁺ -ATPase by chronic and acute exposure to peroxynitrite. <i>FEBS Journal</i> , 2004, 271, 2647-2657.	0.2	52
52	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
53	Fluorescence Measurements of Steady State Peroxynitrite Production Upon SIN-1 Decomposition: NADH Versus Dihydrodichlorofluorescein and Dihydrorhodamine 123. <i>Journal of Fluorescence</i> , 2004, 14, 17-23.	2.5	91
54	Decavanadate Binding to a High Affinity Site near the Myosin Catalytic Centre Inhibits F-Actin-Stimulated Myosin ATPase Activity". <i>Biochemistry</i> , 2004, 43, 5551-5561.	2.5	47

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55	Synaptosomal plasma membrane Ca ²⁺ pump activity inhibition by repetitive micromolar ONOO ⁻ pulses. <i>Free Radical Biology and Medicine</i> , 2002, 32, 46-55.	2.9	25
56	Sphingomyelin composition and physical asymmetries in native acetylcholine receptor-rich membranes. <i>European Biophysics Journal</i> , 2002, 31, 417-427.	2.2	20
57	The NADH oxidase activity of the plasma membrane of synaptosomes is a major source of superoxide anion and is inhibited by peroxynitrite. <i>Journal of Neurochemistry</i> , 2002, 82, 604-614.	3.9	27
58	Inhibition of oxidative stress produced by plasma membrane NADH oxidase delays low-potassium-induced apoptosis of cerebellar granule cells. <i>Journal of Neurochemistry</i> , 2002, 82, 705-715.	3.9	45
59	Title is missing!. <i>Journal of Fluorescence</i> , 2002, 12, 87-90.	2.5	8
60	Potassium-Induced Apoptosis in Rat Cerebellar Granule Cells Involves Cell-Cycle Blockade at the G1/S Transition. <i>Journal of Molecular Neuroscience</i> , 2001, 15, 155-166.	2.3	35
61	pH and ligand binding modulate the strength of protein-protein interactions in the Ca ²⁺ -ATPase from sarcoplasmic reticulum membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999, 1420, 203-213.	2.6	3
62	Plausible Stoichiometry of the Interacting Nucleotide-Binding Sites in the Ca ²⁺ -ATPase from Sarcoplasmic Reticulum Membranes. <i>Archives of Biochemistry and Biophysics</i> , 1999, 368, 298-302.	3.0	4
63	Structural Changes of the Sarcoplasmic Reticulum Ca(II)-ATPase Nucleotide Binding Domain by pH and La(III). <i>Archives of Biochemistry and Biophysics</i> , 1997, 348, 152-156.	3.0	3
64	Quantitative variation of flavonoids among individuals of a <i>Cistus ladanifer</i> population. <i>Biochemical Systematics and Ecology</i> , 1997, 25, 429-435.	1.3	11
65	Role of Ecological Variables in the Seasonal Variation of Flavonoid Content of <i>Cistus ladanifer</i> Exudate. <i>Journal of Chemical Ecology</i> , 1997, 23, 579-603.	1.8	93
66	Hypothalamic Hypophyseal Inhibitory Factor (HHIF) Increases Intrasyntosomal Free Calcium Concentration. <i>Hypertension</i> , 1997, 29, 1337-1343.	2.7	1
67	Rate of Na ⁺ /Ca ²⁺ exchange across the plasma membrane of synaptosomes measured using the fluorescence of chlorotetracycline. Implications to calcium homeostasis in synaptic terminals. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1280, 257-264.	2.6	10
68	A Comparative Kinetic Analysis of the Flavin-Photosensitized Oxidation and Reduction of Plastocyanin and Cytochrome c6 from Different Organisms. <i>Photochemistry and Photobiology</i> , 1996, 63, 86-91.	2.5	5
69	Fluorescence anisotropy of fluorescein phosphatidylethanolthiocarbamide in lipid bilayers and in Ca ²⁺ -ATPase/lipid reconstituted systems. <i>Bioelectrochemistry</i> , 1995, 38, 117-121.	1.0	0
70	Interaction between Glycogen Phosphorylase and Sarcoplasmic Reticulum Membranes and Its Functional Implications. <i>Journal of Biological Chemistry</i> , 1995, 270, 11998-12004.	3.4	21
71	Quantification and removal of glycogen phosphorylase and other enzymes associated with sarcoplasmic reticulum membrane preparations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1194, 35-43.	2.6	24
72	Thermal unfolding of monomeric Ca(II),Mg(II)-ATPase from sarcoplasmic reticulum of rabbit skeletal muscle. <i>FEBS Letters</i> , 1994, 343, 155-159.	2.8	18

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73	Fluorescence energy transfer as a tool to locate functional sites in membrane proteins. <i>Biochemical Society Transactions</i> , 1994, 22, 784-788.	3.4	14
74	Differential scanning calorimetry study of the thermal unfolding of sarcoplasmic reticulum Ca ²⁺ , Mg ²⁺ -ATPase from rabbit skeletal muscle. <i>Biochemical Society Transactions</i> , 1994, 22, 384S-384S.	3.4	2
75	Seasonal variation of exudate of <i>Cistus ladanifer</i> . <i>Journal of Chemical Ecology</i> , 1993, 19, 2577-2591.	1.8	45
76	Location of functional centers in the microsomal cytochrome P450 system. <i>Biochemistry</i> , 1992, 31, 8473-8481.	2.5	27
77	Differential scanning calorimetry study of glycogen phosphorylase-detergent interactions. <i>Journal of Bioenergetics and Biomembranes</i> , 1992, 24, 625-634.	2.3	6
78	Unfolding and trypsin inactivation studies reveal a conformation drift of glucose-6-phosphate dehydrogenase upon binding of NADP. <i>BBA - Proteins and Proteomics</i> , 1992, 1122, 99-106.	2.1	2
79	Hemin and heme protein bleaching during linoleic acid oxidation by lipoxygenases. <i>Lipids and Lipid Metabolism</i> , 1991, 1082, 310-318.	2.6	5
80	Modulation by phosphorylation of glycogen phosphorylase-sarcoplasmic reticulum interaction. <i>FEBS Letters</i> , 1991, 283, 273-276.	2.8	24
81	Kinetic characterization of the normal and procaine-perturbed reaction cycles of the sarcoplasmic reticulum calcium pump. <i>FEBS Journal</i> , 1991, 202, 559-567.	0.2	14
82	Modulation of Calcium Fluxes Across Synaptosomal Plasma Membrane by Local Anesthetics. <i>Journal of Neurochemistry</i> , 1990, 55, 370-378.	3.9	28
83	Distances between functional sites of the Ca ²⁺ + Mg ²⁺ -ATPase from sarcoplasmic reticulum using Co ²⁺ as a spectroscopic ruler. <i>FEBS Journal</i> , 1990, 194, 663-670.	0.2	24
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91	Quantitation of the Förster energy transfer for two-dimensional systems. <i>Biophysical Chemistry</i> , 1981, 14, 247-257.	2.8	28
92	Quantitation of the Förster energy transfer for two-dimensional systems. <i>Biophysical Chemistry</i> , 1981, 14, 259-266.	2.8	37