Jose Salud Rodriguez-Zavala

List of Publications by Year
in descending order

60 papers	1,584 citations	257450 24 h-index	315739 38 g-index
60 all docs	60 docs citations	60 times ranked	2384 citing authors

#	Article	IF	Citations
1	Multisite control of the Crabtree effect in ascites hepatoma cells. FEBS Journal, 2001, 268, 2512-2519.	0.2	116
2	Increased synthesis of Î±-tocopherol, paramylon and tyrosine by Euglena gracilis under conditions of high biomass production. Journal of Applied Microbiology, 2010, 109, 2160-2172.	3.1	106
3	Differences in Susceptibility to Inactivation of Human Aldehyde Dehydrogenases by Lipid Peroxidation Byproducts. Chemical Research in Toxicology, 2012, 25, 722-729.	3.3	87
4	The Inhibitor Protein (IF1) Promotes Dimerization of the Mitochondrial F1F0-ATP Synthaseâ€. Biochemistry, 2006, 45, 12695-12703.	2.5	86
5	Inhibition of the mitochondrial calcium uniporter by the oxo-bridged dinuclear ruthenium amine complex (Ru360) prevents from irreversible injury in postischemic rat heart. FEBS Journal, 2005, 272, 3477-3488.	4.7	82
6	Reactive oxygen species production induced by ethanol inSaccharomyces cerevisiaeincreases because of a dysfunctional mitochondrial iron-sulfur cluster assembly system. FEMS Yeast Research, 2013, 13, 804-819.	2.3	71
7	Modulation of Oxidative Phosphorylation by Mg2+ in Rat Heart Mitochondria. Journal of Biological Chemistry, 1998, 273, 7850-7855.	3.4	57
8	Mitochondrial free fatty acid Î²-oxidation supports oxidative phosphorylation and proliferation in cancer cells. International Journal of Biochemistry and Cell Biology, 2015, 65, 209-221.	2.8	55
9	A novel 11â€kDa inhibitory subunit in the F₁F_OATP synthase ofParacoccus denitrificansand related Î±â€proteobacteria. FASEB Journal, 2010, 24, 599-608.	0.5	50
10	Pyruvate:ferredoxin oxidoreductase and bifunctional aldehydeâ€“alcohol dehydrogenase are essential for energy metabolism under oxidative stress in Entamoebaâ€ƒhistolytica. FEBS Journal, 2010, 277, 3382-3395.	4.7	46
11	Structural Aspects of Aldehyde Dehydrogenase that Influence Dimerâ^'Tetramer Formationâ€. Biochemistry, 2002, 41, 8229-8237.	2.5	43
12	Characterization ofE. colitetrameric aldehyde dehydrogenases with atypical properties compared to other aldehyde dehydrogenases. Protein Science, 2006, 15, 1387-1396.	7.6	43
13	Malfunctioning of the Ironâ€“Sulfur Cluster Assembly Machinery in Saccharomyces cerevisiae Produces Oxidative Stress via an Iron-Dependent Mechanism, Causing Dysfunction in Respiratory Complexes. PLoS ONE, 2014, 9, e111585.	2.5	42
14	Molecular mechanisms of resistance to heavy metals in the protistEuglena gracilis. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1365-1378.	1.7	36
15	Enhanced alternative oxidase and antioxidant enzymes under Cd2+ stress in Euglena. Journal of Bioenergetics and Biomembranes, 2008, 40, 227-235.	2.3	35
16	Role of Aldehyde Dehydrogenases in Physiopathological Processes. Chemical Research in Toxicology, 2019, 32, 405-420.	3.3	35
17	Phytochelatin-cadmium-sulfide high-molecular-mass complexes of Euglenaâ€ƒgracilis. FEBS Journal, 2006, 273, 5703-5713.	4.7	34
18	Casiopeina II-gly and bromo-pyruvate inhibition of tumor hexokinase, glycolysis, and oxidative phosphorylation. Archives of Toxicology, 2012, 86, 753-766.	4.2	33

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19	Functional Role of MrpA in the MrpABCDEFG Na ⁺ /H ⁺ Antiporter Complex from the Archaeon Methanosarcina acetivorans. Journal of Bacteriology, 2017, 199, .	2.2	31
20	Sulfite and membrane energization induce two different active states of the Paracoccus denitrificans F0F1-ATPase. FEBS Journal, 2000, 267, 993-1000.	0.2	28
21	Chromium uptake, retention and reduction in photosynthetic Euglena gracilis. Archives of Microbiology, 2009, 191, 431-440.	2.2	28
22	Accumulation of arsenic, lead, copper, and zinc, and synthesis of phytochelatins by indigenous plants of a mining impacted area. Environmental Science and Pollution Research, 2013, 20, 3946-3955.	5.3	27
23	Characterization of an Aldehyde Dehydrogenase from Euglena gracilis. Journal of Eukaryotic Microbiology, 2006, 53, 36-42.	1.7	26
24	Modulation of 2-Oxoglutarate Dehydrogenase Complex by Inorganic Phosphate, Mg2+, and Other Effectors. Archives of Biochemistry and Biophysics, 2000, 379, 78-84.	3.0	25
25	Metabolic control analysis of the Trypanosoma cruzi peroxide detoxification pathway identifies tryparedoxin as a suitable drug target. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 263-273.	2.4	25
26	Overexpression of the Inhibitor Protein IF1in AS-30D Hepatoma Produces a Higher Association with Mitochondrial F1F0ATP Synthase Compared to Normal Rat Liver: Functional and Cross-Linking Studies. Journal of Bioenergetics and Biomembranes, 2004, 36, 257-264.	2.3	22
27	Substrate Specificity of the 3-Methylcrotonyl Coenzyme A (CoA) and Geranyl-CoA Carboxylases from Pseudomonas aeruginosa. Journal of Bacteriology, 2008, 190, 4888-4893.	2.2	22
28	Aldaâ€1 modulates the kinetic properties of mitochondrial aldehyde dehydrogenase (<scp>ALDH</scp>2). FEBS Journal, 2016, 283, 3637-3650.	4.7	20
29	The Mitochondrial Membrane Permeability Transition Induced by Inorganic Phosphate or Inorganic Arsenate. A Comparative Study. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 117, 93-99.	1.6	18
30	Tamoxifen, an anticancer drug, is an activator of human aldehyde dehydrogenase 1<scp>A</scp>1. Proteins: Structure, Function and Bioinformatics, 2015, 83, 105-116.	2.6	18
31	Activation of ALDH1A1 by omeprazole reduces cell oxidative stress damage. FEBS Journal, 2021, 288, 4064-4080.	4.7	16
32	On the protection by inorganic phosphate of calcium-induced membrane permeability transition. Journal of Bioenergetics and Biomembranes, 1997, 29, 571-577.	2.3	15
33	Novel mitochondrial alcohol metabolizing enzymes of Euglena gracilis. Journal of Bioenergetics and Biomembranes, 2011, 43, 519-530.	2.3	15
34	Antiquorum Sensing Activity of Seed Oils from Oleaginous Plants and Protective Effect During Challenge withChromobacterium violaceum. Journal of Medicinal Food, 2018, 21, 356-363.	1.5	15
35	Role of the C-terminal tail on the quaternary structure of aldehyde dehydrogenases. Chemico-Biological Interactions, 2001, 130-132, 151-160.	4.0	13
36	Enhancement of coenzyme binding by a single point mutation at the coenzyme binding domain of E. coli lactaldehyde dehydrogenase. Protein Science, 2008, 17, 563-570.	7.6	13

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37	Zn-bis-glutathionate is the best co-substrate of the monomeric phytochelatin synthase from the photosynthetic heavy metal-hyperaccumulator Euglena gracilis. Metallomics, 2014, 6, 604.	2.4	13
38	Buthionine sulfoximine is a multitarget inhibitor of trypanothione synthesis in TrypanosomaÂcruzi. FEBS Letters, 2017, 591, 3881-3894.	2.8	12
39	Molecular basis of the unusual catalytic preference for GDP/GTP in Entamoebaâ€ƒhistolytica 3â€phosphoglycerate kinase. FEBS Journal, 2009, 276, 2037-2047.	4.7	10
40	A CRAC-like motif in BAX sequence: Relationship with protein insertion and pore activity in liposomes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1888-1895.	2.6	10
41	Oligomycin strengthens the effect of cyclosporin A on mitochondrial permeability transition by inducing phosphate uptake. Cell Biology International, 2005, 29, 551-558.	3.0	9
42	New insights into the halfâ€ofâ€theâ€sites reactivity of human aldehyde dehydrogenase 1A1. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1330-1339.	2.6	9
43	Inhibition of Non-flux-Controlling Enzymes Deters Cancer Glycolysis by Accumulation of Regulatory Metabolites of Controlling Steps. Frontiers in Physiology, 2016, 7, 412.	2.8	9
44	Omeprazole as a potent activator of human cytosolic aldehyde dehydrogenase ALDH1A1. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129451.	2.4	9
45	Piperlonguminine a new mitochondrial aldehyde dehydrogenase activator protects the heart from ischemia/reperfusion injury. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129684.	2.4	9
46	Tamoxifen inhibits mitochondrial membrane damage caused by disulfiram. Biochemistry and Cell Biology, 2017, 95, 556-562.	2.0	7
47	p38 MAPK as a signal transduction component of heavy metals stress in Euglena gracilis. Archives of Microbiology, 2009, 191, 47-54.	2.2	6
48	Antibacterial properties of phenothiazine derivatives against multidrugâ€resistant Acinetobacter baumannii strains. Journal of Applied Microbiology, 2021, 131, 2235-2243.	3.1	6
49	Gene Cloning and Biochemical Characterization of an Alcohol Dehydrogenase from Euglena gracilis¹. Journal of Eukaryotic Microbiology, 2008, 55, 554-561.	1.7	5
50	CDPâ€choline circumvents mercuryâ€induced mitochondrial damage and renal dysfunction. Cell Biology International, 2017, 41, 1356-1366.	3.0	5
51	Antivirulence Activity of a Dietary Phytochemical: Hibiscus Acid Isolated from Hibiscus sabdariffa L. Reduces the Virulence of Pseudomonas aeruginosa in a Mouse Infection Model. Journal of Medicinal Food, 2021, 24, 934-943.	1.5	5
52	Effect of intramitochondrial Mg2 on citrulline synthesis in rat liver mitochondria. IUBMB Life, 1997, 41, 179-187.	3.4	4
53	Bacterial Cyclodipeptides Target Signal Pathways Involved in Malignant Melanoma. Frontiers in Oncology, 2020, 10, 1111.	2.8	4
54	Protein acetylation effects on enzyme activity and metabolic pathway fluxes. Journal of Cellular Biochemistry, 2021, , .	2.6	4

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55	Enhanced Tolerance to Mercury in a Streptomycin-Resistant Strain of Euglena gracilis. Water, Air, and Soil Pollution, 2011, 216, 51-57.	2.4	3
56	Co-expression of Î± and Î² subunits of the 3-methylcrotonyl-coenzyme A carboxylase from Pseudomonas aeruginosa. World Journal of Microbiology and Biotechnology, 2012, 28, 1185-1191.	3.6	3
57	Structural evidence for the involvement of the residues Ser187 and Tyr422 in substrate recognition in the 3-methylcrotonyl-coenzyme A carboxylase from Pseudomonas aeruginosa. Journal of Biochemistry, 2013, 154, 291-297.	1.7	3
58	The essential role of mitochondria in the consumption of waste-organic matter and production of metabolites of biotechnological interest in Euglena gracilis. Algal Research, 2021, 56, 102302.	4.6	3
59	Octylguanidine ameliorates the damaging effect of mercury on renal functions. Journal of Biochemistry, 2011, 149, 211-217.	1.7	1
60	FruBPase II and ADP-PFK1 are involved in the modulation of carbon flow in the metabolism of carbohydrates in Methanosarcina acetivorans. Archives of Biochemistry and Biophysics, 2019, 669, 39-49.	3.0	1