

# Jose Salud Rodriguez-Zavala

## List of Publications by Year in descending order

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60  
papers

1,584  
citations

257101

24  
h-index

315357

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 $\alpha$ -tocopherol, paramylon and tyrosine by <i>Euglena gracilis</i> under conditions of high biomass production. Journal of Applied Microbiology, 2010, 109, 2160-2172.                                   | 1.4 | 106       |
| 3  | Differences in Susceptibility to Inactivation of Human Aldehyde Dehydrogenases by Lipid Peroxidation Byproducts. Chemical Research in Toxicology, 2012, 25, 722-729.   | 1.7 | 87        |
| 4  | The Inhibitor Protein (IF1) Promotes Dimerization of the Mitochondrial F1F0-ATP Synthase. Biochemistry, 2006, 45, 12695-12703.   | 1.2 | 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.                      | 2.2 | 82        |
| 6  | Reactive oxygen species production induced by ethanol in <i>Saccharomyces cerevisiae</i> increases because of a dysfunctional mitochondrial iron-sulfur cluster assembly system. FEMS Yeast Research, 2013, 13, 804-819.             | 1.1 | 71        |
| 7  | Modulation of Oxidative Phosphorylation by Mg <sup>2+</sup> in Rat Heart Mitochondria. Journal of Biological Chemistry, 1998, 273, 7850-7855.  | 1.6 | 57        |
| 8  | Mitochondrial free fatty acid $\beta$ -oxidation supports oxidative phosphorylation and proliferation in cancer cells. International Journal of Biochemistry and Cell Biology, 2015, 65, 209-221.                                    | 1.2 | 55        |
| 9  | A novel 11â€kDa inhibitory subunit in the F <sub>1</sub> F <sub>O</sub> -ATP synthase of <i>Paracoccus denitrificans</i> and related $\alpha$ -proteobacteria. FASEB Journal, 2010, 24, 599-608.                                     | 0.2 | 50        |
| 10 | Pyruvate:ferredoxin oxidoreductase and bifunctional aldehyde-alcohol dehydrogenase are essential for energy metabolism under oxidative stress in <i>Entamoeba histolytica</i> . FEBS Journal, 2010, 277, 3382-3395.                  | 2.2 | 46        |
| 11 | Structural Aspects of Aldehyde Dehydrogenase that Influence Dimer-Tetramer Formation. Biochemistry, 2002, 41, 8229-8237.   | 1.2 | 43        |
| 12 | Characterization of E. coli tetrameric aldehyde dehydrogenases with atypical properties compared to other aldehyde dehydrogenases. Protein Science, 2006, 15, 1387-1396.   | 3.1 | 43        |
| 13 | Malfunctioning of the Iron-Sulfur Cluster Assembly Machinery in <i>Saccharomyces cerevisiae</i> Produces Oxidative Stress via an Iron-Dependent Mechanism, Causing Dysfunction in Respiratory Complexes. PLoS ONE, 2014, 9, e111585. | 1.1 | 42        |
| 14 | Molecular mechanisms of resistance to heavy metals in the protist <i>Euglena gracilis</i> . Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2007, 42, 1365-1378.      | 0.9 | 36        |
| 15 | Enhanced alternative oxidase and antioxidant enzymes under Cd <sup>2+</sup> stress in <i>Euglena</i> . Journal of Bioenergetics and Biomembranes, 2008, 40, 227-235.   | 1.0 | 35        |
| 16 | Role of Aldehyde Dehydrogenases in Physiopathological Processes. Chemical Research in Toxicology, 2019, 32, 405-420.   | 1.7 | 35        |
| 17 | Phytochelatin-cadmium-sulfide high-molecular-mass complexes of <i>Euglena gracilis</i> . FEBS Journal, 2006, 273, 5703-5713.   | 2.2 | 34        |
| 18 | Casiopeina II-gly and bromo-pyruvate inhibition of tumor hexokinase, glycolysis, and oxidative phosphorylation. Archives of Toxicology, 2012, 86, 753-766.   | 1.9 | 33        |

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|----|---|-----|-----------|
| 19 | Functional Role of MrpA in the MrpABCDEF Na <sup>+</sup> /H <sup>+</sup> Antiporter Complex from the Archaeon <i>Methanosarcina acetivorans</i> . <i>Journal of Bacteriology</i> , 2017, 199, .   | 1.0 | 31        |
| 20 | Sulfite and membrane energization induce two different active states of the <i>Paracoccus denitrificans</i> FOF <sub>1</sub> -ATPase. <i>FEBS Journal</i> , 2000, 267, 993-1000.  | 0.2 | 28        |
| 21 | Chromium uptake, retention and reduction in photosynthetic <i>Euglena gracilis</i> . <i>Archives of Microbiology</i> , 2009, 191, 431-440.  | 1.0 | 28        |
| 22 | Accumulation of arsenic, lead, copper, and zinc, and synthesis of phytochelatins by indigenous plants of a mining impacted area. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3946-3955.   | 2.7 | 27        |
| 23 | Characterization of an Aldehyde Dehydrogenase from <i>Euglena gracilis</i> . <i>Journal of Eukaryotic Microbiology</i> , 2006, 53, 36-42.   | 0.8 | 26        |
| 24 | Modulation of 2-Oxoglutarate Dehydrogenase Complex by Inorganic Phosphate, Mg <sup>2+</sup> , and Other Effectors. <i>Archives of Biochemistry and Biophysics</i> , 2000, 379, 78-84.   | 1.4 | 25        |
| 25 | Metabolic control analysis of the <i>Trypanosoma cruzi</i> peroxide detoxification pathway identifies trypanothione as a suitable drug target. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 263-273.   | 1.1 | 25        |
| 26 | Overexpression of the Inhibitor Protein IF1 in AS-30D Hepatoma Produces a Higher Association with Mitochondrial F <sub>1</sub> FOATP Synthase Compared to Normal Rat Liver: Functional and Cross-Linking Studies. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 257-264. | 1.0 | 22        |
| 27 | Substrate Specificity of the 3-Methylcrotonyl Coenzyme A (CoA) and Geranyl-CoA Carboxylases from <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2008, 190, 4888-4893.   | 1.0 | 22        |
| 28 | Ala <sup>1</sup> modulates the kinetic properties of mitochondrial aldehyde dehydrogenase (ALDH <sup>2</sup> ). <i>FEBS Journal</i> , 2016, 283, 3637-3650.   | 2.2 | 20        |
| 29 | The Mitochondrial Membrane Permeability Transition Induced by Inorganic Phosphate or Inorganic Arsenate. A Comparative Study. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997, 117, 93-99.   | 0.7 | 18        |
| 30 | Tamoxifen, an anticancer drug, is an activator of human aldehyde dehydrogenase 1A <sup>1</sup> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 105-116.   | 1.5 | 18        |
| 31 | Activation of ALDH1A1 by omeprazole reduces cell oxidative stress damage. <i>FEBS Journal</i> , 2021, 288, 4064-4080.   | 2.2 | 16        |
| 32 | On the protection by inorganic phosphate of calcium-induced membrane permeability transition. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 571-577.   | 1.0 | 15        |
| 33 | Novel mitochondrial alcohol metabolizing enzymes of <i>Euglena gracilis</i> . <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 519-530.   | 1.0 | 15        |
| 34 | Antiquorum Sensing Activity of Seed Oils from Oleaginous Plants and Protective Effect During Challenge with <i>Chromobacterium violaceum</i> . <i>Journal of Medicinal Food</i> , 2018, 21, 356-363.  | 0.8 | 15        |
| 35 | Role of the C-terminal tail on the quaternary structure of aldehyde dehydrogenases. <i>Chemico-Biological Interactions</i> , 2001, 130-132, 151-160.  | 1.7 | 13        |
| 36 | Enhancement of coenzyme binding by a single point mutation at the coenzyme binding domain of <i>E. coli</i> lactaldehyde dehydrogenase. <i>Protein Science</i> , 2008, 17, 563-570.   | 3.1 | 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 <i>Euglena gracilis</i> . <i>Metallomics</i> , 2014, 6, 604.   | 1.0 | 13        |
| 38 | Buthionine sulfoximine is a multitarget inhibitor of trypanothione synthesis in <i>Trypanosoma cruzi</i> . <i>FEBS Letters</i> , 2017, 591, 3881-3894.  | 1.3 | 12        |
| 39 | Molecular basis of the unusual catalytic preference for GDP/GTP in <i>Entamoeba histolytica</i> 3-phosphoglycerate kinase. <i>FEBS Journal</i> , 2009, 276, 2037-2047.  | 2.2 | 10        |
| 40 | A CRAC-like motif in BAX sequence: Relationship with protein insertion and pore activity in liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 1888-1895.   | 1.4 | 10        |
| 41 | Oligomycin strengthens the effect of cyclosporin A on mitochondrial permeability transition by inducing phosphate uptake. <i>Cell Biology International</i> , 2005, 29, 551-558.  | 1.4 | 9         |
| 42 | New insights into the half-cofactor sites reactivity of human aldehyde dehydrogenase 1A1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1330-1339.  | 1.5 | 9         |
| 43 | Inhibition of Non-flux-Controlling Enzymes Deters Cancer Glycolysis by Accumulation of Regulatory Metabolites of Controlling Steps. <i>Frontiers in Physiology</i> , 2016, 7, 412.  | 1.3 | 9         |
| 44 | Omeprazole as a potent activator of human cytosolic aldehyde dehydrogenase ALDH1A1. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129451.   | 1.1 | 9         |
| 45 | Piperlonguminine a new mitochondrial aldehyde dehydrogenase activator protects the heart from ischemia/reperfusion injury. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129684.  | 1.1 | 9         |
| 46 | Tamoxifen inhibits mitochondrial membrane damage caused by disulfiram. <i>Biochemistry and Cell Biology</i> , 2017, 95, 556-562.  | 0.9 | 7         |
| 47 | p38 MAPK as a signal transduction component of heavy metals stress in <i>Euglena gracilis</i> . <i>Archives of Microbiology</i> , 2009, 191, 47-54.   | 1.0 | 6         |
| 48 | Antibacterial properties of phenothiazine derivatives against multidrug-resistant <i>Acinetobacter baumannii</i> strains. <i>Journal of Applied Microbiology</i> , 2021, 131, 2235-2243.  | 1.4 | 6         |
| 49 | Gene Cloning and Biochemical Characterization of an Alcohol Dehydrogenase from <i>Euglena gracilis</i> . <i>Journal of Eukaryotic Microbiology</i> , 2008, 55, 554-561.   | 0.8 | 5         |
| 50 | CDP-choline circumvents mercury-induced mitochondrial damage and renal dysfunction. <i>Cell Biology International</i> , 2017, 41, 1356-1366.  | 1.4 | 5         |
| 51 | Antivirulence Activity of a Dietary Phytochemical: Hibiscus Acid Isolated from <i>Hibiscus sabdariffa</i> L. Reduces the Virulence of <i>Pseudomonas aeruginosa</i> in a Mouse Infection Model. <i>Journal of Medicinal Food</i> , 2021, 24, 934-943. | 0.8 | 5         |
| 52 | Effect of intramitochondrial Mg <sup>2+</sup> on citrulline synthesis in rat liver mitochondria. <i>IUBMB Life</i> , 1997, 41, 179-187.   | 1.5 | 4         |
| 53 | Bacterial Cyclodipeptides Target Signal Pathways Involved in Malignant Melanoma. <i>Frontiers in Oncology</i> , 2020, 10, 1111.   | 1.3 | 4         |
| 54 | Protein acetylation effects on enzyme activity and metabolic pathway fluxes. <i>Journal of Cellular Biochemistry</i> , 2021, , .  | 1.2 | 4         |

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|----|---|-----|-----------|
| 55 | Enhanced Tolerance to Mercury in a Streptomycin-Resistant Strain of <i>Euglena gracilis</i> . <i>Water, Air, and Soil Pollution</i> , 2011, 216, 51-57.   | 1.1 | 3         |
| 56 | Co-expression of $\hat{1}$ and $\hat{2}$ subunits of the 3-methylcrotonyl-coenzyme A carboxylase from <i>Pseudomonas aeruginosa</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 1185-1191.                         | 1.7 | 3         |
| 57 | Structural evidence for the involvement of the residues Ser187 and Tyr422 in substrate recognition in the 3-methylcrotonyl-coenzyme A carboxylase from <i>Pseudomonas aeruginosa</i> . <i>Journal of Biochemistry</i> , 2013, 154, 291-297. | 0.9 | 3         |
| 58 | The essential role of mitochondria in the consumption of waste-organic matter and production of metabolites of biotechnological interest in <i>Euglena gracilis</i> . <i>Algal Research</i> , 2021, 56, 102302.                             | 2.4 | 3         |
| 59 | Octylguanidine ameliorates the damaging effect of mercury on renal functions. <i>Journal of Biochemistry</i> , 2011, 149, 211-217.  | 0.9 | 1         |
| 60 | FruBPase II and ADP-PFK1 are involved in the modulation of carbon flow in the metabolism of carbohydrates in <i>Methanosarcina acetivorans</i> . <i>Archives of Biochemistry and Biophysics</i> , 2019, 669, 39-49.                         | 1.4 | 1         |