# Rafael Moreno-Sanchez

List of Publications by Year
in descending order



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|---|---|---|---|
| 208 papers | 10,557 citations | 36303 51 h-index | 39675 94 g-index |
| 213 all docs | 213 docs citations | 213 times ranked | 12743 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Interactions of chromium with microorganisms and plants. FEMS Microbiology Reviews, 2001, 25, 335-347. | 8.6 | 916 |
| 2 | Energy metabolism in tumor cells. FEBS Journal, 2007, 274, 1393-1418. | 4.7 | 873 |
| 3 | HIF-1α Modulates Energy Metabolism in Cancer Cells by Inducing Over-Expression of Specific Glycolytic Isoforms. Mini-Reviews in Medicinal Chemistry, 2009, 9, 1084-1101. | 2.4 | 391 |
| 4 | Sulfur assimilation and glutathione metabolism under cadmium stress in yeast, protists and plants. FEMS Microbiology Reviews, 2005, 29, 653-671. | 8.6 | 364 |
| 5 | The causes of cancer revisited: â€œMitochondrial malignancyâ€•and ROS-induced oncogenic transformation â€“ Why mitochondria are targets for cancer therapy. Molecular Aspects of Medicine, 2010, 31, 145-170. | 6.4 | 299 |
| 6 | Mitochondrial Bound Hexokinase Activity as a Preventive Antioxidant Defense. Journal of Biological Chemistry, 2004, 279, 39846-39855. | 3.4 | 245 |
| 7 | Mitochondrial Targeting of Vitamin E Succinate Enhances Its Pro-apoptotic and Anti-cancer Activity via Mitochondrial Complex II. Journal of Biological Chemistry, 2011, 286, 3717-3728. | 3.4 | 171 |
| 8 | Determining and understanding the control of glycolysis in fast-growth tumor cells. FEBS Journal, 2006, 273, 1975-1988. | 4.7 | 168 |
| 9 | Metabolic Control Analysis: A Tool for Designing Strategies to Manipulate Metabolic Pathways. Journal of Biomedicine and Biotechnology, 2008, 2008, 1-30. | 3.0 | 160 |
| 10 | Who controls the ATP supply in cancer cells? Biochemistry lessons to understand cancer energy metabolism. International Journal of Biochemistry and Cell Biology, 2014, 50, 10-23. | 2.8 | 158 |
| 11 | HIF expression and the role of hypoxic microenvironments within primary tumours as protective sites driving cancer stem cell renewal and metastatic progression. Carcinogenesis, 2013, 34, 1699-1707. | 2.8 | 153 |
| 12 | Inhibition and uncoupling of oxidative phosphorylation by nonsteroidal anti-inflammatory drugs. Biochemical Pharmacology, 1999, 57, 743-752. | 4.4 | 147 |
| 13 | Bioenergetic pathways in tumor mitochondria as targets for cancer therapy and the importance of the ROS-induced apoptotic trigger. Molecular Aspects of Medicine, 2010, 31, 29-59. | 6.4 | 146 |
| 14 | Chromate Efflux by Means of the ChrA Chromate Resistance Protein from Pseudomonas aeruginosa. Journal of Bacteriology, 1999, 181, 7398-7400. | 2.2 | 126 |
| 15 | Suppression of Tumor GrowthIn vivoby the Mitocan Î±-tocopheryl Succinate Requires Respiratory Complex II. Clinical Cancer Research, 2009, 15, 1593-1600. | 7.0 | 125 |
| 16 | Heart Metabolic Disturbances in Cardiovascular Diseases. Archives of Medical Research, 2003, 34, 89-99. | 3.3 | 124 |
| 17 | Energy metabolism transition in multiâ€cellular human tumor spheroids. Journal of Cellular Physiology, 2008, 216, 189-197. | 4.1 | 121 |
| 18 | Oxidative phosphorylation is impaired by prolonged hypoxia in breast and possibly in cervix carcinoma. International Journal of Biochemistry and Cell Biology, 2010, 42, 1744-1751. | 2.8 | 117 |

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|---|---|---|---|
| 19 | Multisite control of the Crabtree effect in ascites hepatoma cells. FEBS Journal, 2001, 268, 2512-2519. | 0.2 | 116 |
| 20 | The bioenergetics of cancer: Is glycolysis the main ATP supplier in all tumor cells?. BioFactors, 2009, 35, 209-225. | 5.4 | 116 |
| 21 | Modeling cancer glycolysis. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 755-767. | 1.0 | 115 |
| 22 | Glycolysis in Entamoebaâ€ƒhistolytica. FEBS Journal, 2005, 272, 1767-1783. | 4.7 | 113 |
| 23 | Control of glutathione and phytochelatin synthesis under cadmium stress. Pathway modeling for plants. Journal of Theoretical Biology, 2006, 238, 919-936. | 1.7 | 111 |
| 24 | Bio-recovery of non-essential heavy metals by intra- and extracellular mechanisms in free-living microorganisms. Biotechnology Advances, 2016, 34, 859-873. | 11.7 | 111 |
| 25 | Toxic effects of copper-based antineoplastic drugs (CasiopeinasÂ®) on mitochondrial functions. Biochemical Pharmacology, 2003, 65, 1979-1989. | 4.4 | 110 |
| 26 | Inhibitors of Succinate: Quinone Reductase/Complex II Regulate Production of Mitochondrial Reactive Oxygen Species and Protect Normal Cells from Ischemic Damage but Induce Specific Cancer Cell Death. Pharmaceutical Research, 2011, 28, 2695-2730. | 3.5 | 108 |
| 27 | 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 |
| 28 | Targeting of cancer energy metabolism. Molecular Nutrition and Food Research, 2009, 53, 29-48. | 3.3 | 105 |
| 29 | Control of cellular proliferation by modulation of oxidative phosphorylation in human and rodent fast-growing tumor cells. Toxicology and Applied Pharmacology, 2006, 215, 208-217. | 2.8 | 102 |
| 30 | Extracellular ATP has a potent effect to enhance cystolic calcium and contractility in single ventricular myocytes. Cell Calcium, 1988, 9, 193-199. | 2.4 | 87 |
| 31 | The Pb-hyperaccumulator aquatic fern Salvinia minima Baker, responds to Pb2+ by increasing phytochelatins via changes in SmPCS expression and in phytochelatin synthase activity. Aquatic Toxicology, 2009, 91, 320-328. | 4.0 | 86 |
| 32 | Kinetics of transport and phosphorylation of glucose in cancer cells. Journal of Cellular Physiology, 2009, 221, 552-559. | 4.1 | 83 |
| 33 | Regulation of oxidative phosphorylation in mitochondria by external free Ca2+ concentrations. Journal of Biological Chemistry, 1985, 260, 4028-34. | 3.4 | 81 |
| 34 | Metabolic control analysis indicates a change of strategy in the treatment of cancer. Mitochondrion, 2010, 10, 626-639. | 3.4 | 77 |
| 35 | Substrate Oxidation and ATP Supply in AS-30D Hepatoma Cells. Archives of Biochemistry and Biophysics, 2000, 375, 21-30. | 3.0 | 74 |
| 36 | Cadmium accumulation in the chloroplast ofEuglena gracilis. Physiologia Plantarum, 2002, 115, 276-283. | 5.2 | 66 |

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| 37 | Mercury pretreatment selects an enhanced cadmium-accumulating phenotype in Euglena gracilis. Archives of Microbiology, 2003, 180, 1-10. | 2.2 | 65 |
| 38 | Building Web-Based Spatial Information Solutions around Open Specifications and Open Source Software. Transactions in GIS, 2003, 7, 447-466. | 2.3 | 65 |
| 39 | Resveratrol inhibits cancer cell proliferation by impairing oxidative phosphorylation and inducing oxidative stress. Toxicology and Applied Pharmacology, 2019, 370, 65-77. | 2.8 | 65 |
| 40 | Mercury uptake and removal by Euglena gracilis. Archives of Microbiology, 2000, 174, 175-180. | 2.2 | 61 |
| 41 | Efflux of chromate byPseudomonas aeruginosacells expressing the ChrA protein. FEMS Microbiology Letters, 2002, 212, 249-254. | 1.8 | 61 |
| 42 | Reactive oxygen species are generated by the respiratory complexÂ<scp>II</scp> â€“ evidence for lack of contribution of the reverse electron flow in complexÂ<scp>I</scp>. FEBS Journal, 2013, 280, 927-938. | 4.7 | 60 |
| 43 | Contribution of the translocator of adenine nucleotides and the ATP synthase to the control of oxidative phosphorylation and arsenylation in liver mitochondria. Journal of Biological Chemistry, 1985, 260, 12554-60. | 3.4 | 60 |
| 44 | Cd2+ transport and storage in the chloroplast of Euglena gracilis. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1706, 88-97. | 1.0 | 58 |
| 45 | Modulation of Oxidative Phosphorylation by Mg2+ in Rat Heart Mitochondria. Journal of Biological Chemistry, 1998, 273, 7850-7855. | 3.4 | 57 |
| 46 | Isolation and characterization of gallium resistant Pseudomonas aeruginosa mutants. International Journal of Medical Microbiology, 2013, 303, 574-582. | 3.6 | 57 |
| 47 | Modeling cancer glycolysis under hypoglycemia, and the role played by the differential expression of glycolytic isoforms. FEBS Journal, 2014, 281, 3325-3345. | 4.7 | 55 |
| 48 | 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 |
| 49 | Distribution of control of oxidative phosphorylation in mitochondria oxidizing NAD-linked substrates. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1060, 284-292. | 1.0 | 53 |
| 50 | Cardiotoxicity of copper-based antineoplastic drugs casiopeinas is related to inhibition of energy metabolism. Toxicology and Applied Pharmacology, 2006, 212, 79-88. | 2.8 | 53 |
| 51 | Anti-mitochondrial therapy in human breast cancer multi-cellular spheroids. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 541-551. | 4.1 | 52 |
| 52 | Drug target validation of the trypanothione pathway enzymes through metabolic modelling. FEBS Journal, 2012, 279, 1811-1833. | 4.7 | 51 |
| 53 | Celecoxib inhibits mitochondrial O2 consumption, promoting ROS dependent death of murine and human metastatic cancer cells via the apoptotic signalling pathway. Biochemical Pharmacology, 2018, 154, 318-334. | 4.4 | 51 |
| 54 | Targeting Trypanothione Metabolism in Trypanosomatid Human Parasites. Current Drug Targets, 2010, 11, 1614-1630. | 2.1 | 49 |

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|---|---|---|---|
| 55 | Enhanced Heavy Metal Tolerance in Two Strains of Photosynthetic Euglena gracilis by Preexposure to Mercury or Cadmium. Archives of Environmental Contamination and Toxicology, 1998, 34, 128-135. | 4.1 | 48 |
| 56 | Phosphofructokinase type 1 kinetics, isoform expression, and gene polymorphisms in cancer cells. Journal of Cellular Biochemistry, 2012, 113, 1692-1703. | 2.6 | 48 |
| 57 | Cell wall composition affects Cd2+ accumulation and intracellular thiol peptides in marine red algae. Aquatic Toxicology, 2007, 81, 65-72. | 4.0 | 46 |
| 58 | 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 |
| 59 | Air-Adapted Methanosarcina acetivorans Shows High Methane Production and Develops Resistance against Oxygen Stress. PLoS ONE, 2015, 10, e0117331. | 2.5 | 45 |
| 60 | Kinetic modeling can describe inâ€ƒvivo glycolysis in Entamoeba histolytica. FEBS Journal, 2007, 274, 4922-4940. | 4.7 | 41 |
| 61 | Control of the NADPH supply for oxidative stress handling in cancer cells. Free Radical Biology and Medicine, 2017, 112, 149-161. | 2.9 | 39 |
| 62 | Early carbon mobilization and radicle protrusion in maize germination. Journal of Experimental Botany, 2012, 63, 4513-4526. | 4.8 | 38 |
| 63 | Understanding the cancer cell phenotype beyond the limitations of current omics analyses. FEBS Journal, 2016, 283, 54-73. | 4.7 | 38 |
| 64 | The nutritional status of Methanosarcina acetivorans regulates glycogen metabolism and gluconeogenesis and glycolysis fluxes. FEBS Journal, 2016, 283, 1979-1999. | 4.7 | 38 |
| 65 | Hitting the Bullâ€™s-Eye in Metastatic Cancersâ€”NSAIDs Elevate ROS in Mitochondria, Inducing Malignant Cell Death. Pharmaceuticals, 2015, 8, 62-106. | 3.8 | 37 |
| 66 | Transcriptional Regulation of Energy Metabolism in Cancer Cells. Cells, 2019, 8, 1225. | 4.1 | 37 |
| 67 | 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 |
| 68 | Hypoglycemia Enhances Epithelialâ€Mesenchymal Transition and Invasiveness, and Restrains the Warburg Phenotype, in Hypoxic HeLa Cell Cultures and Microspheroids. Journal of Cellular Physiology, 2017, 232, 1346-1359. | 4.1 | 36 |
| 69 | Interactions of chromium with microorganisms and plants. FEMS Microbiology Reviews, 2001, 25, 335-347. | 8.6 | 36 |
| 70 | Inhibition of substrate oxidation in mitochondria by the peripheral-type benzodiazepine receptor ligand AHN 086. Biochemical Pharmacology, 1991, 41, 1479-1484. | 4.4 | 35 |
| 71 | Enhanced alternative oxidase and antioxidant enzymes under Cd2+ stress in Euglena. Journal of Bioenergetics and Biomembranes, 2008, 40, 227-235. | 2.3 | 35 |
| 72 | Dual regulation of energy metabolism by p53 in human cervix and breast cancer cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 3266-3278. | 4.1 | 35 |

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| 73 | Role of Aldehyde Dehydrogenases in Physiopathological Processes. Chemical Research in Toxicology, 2019, 32, 405-420. | 3.3 | 35 |
| 74 | Multiple effects of salinity on photosynthesis of the protist Euglena gracilis. Physiologia Plantarum, 1997, 101, 777-786. | 5.2 | 34 |
| 75 | Phytochelatin-cadmium-sulfide high-molecular-mass complexes of Euglenaâ€ƒgracilis. FEBS Journal, 2006, 273, 5703-5713. | 4.7 | 34 |
| 76 | Simultaneous Cd2+, Zn2+, and Pb2+ Uptake and Accumulation by Photosynthetic Euglena gracilis. Archives of Environmental Contamination and Toxicology, 2006, 51, 521-528. | 4.1 | 34 |
| 77 | Energy Metabolism Drugs Block Triple Negative Breast Metastatic Cancer Cell Phenotype. Molecular Pharmaceutics, 2018, 15, 2151-2164. | 4.6 | 34 |
| 78 | Oxidative Phosphorylation as a Target to Arrest Malignant Neoplasias. Current Medicinal Chemistry, 2011, 18, 3156-3167. | 2.4 | 33 |
| 79 | Casiopeina II-gly and bromo-pyruvate inhibition of tumor hexokinase, glycolysis, and oxidative phosphorylation. Archives of Toxicology, 2012, 86, 753-766. | 4.2 | 33 |
| 80 | Activation of Methanogenesis by Cadmium in the Marine Archaeon Methanosarcina acetivorans. PLoS ONE, 2012, 7, e48779. | 2.5 | 33 |
| 81 | Biochemistry and Physiology of Heavy Metal Resistance and Accumulation in Euglena. Advances in Experimental Medicine and Biology, 2017, 979, 91-121. | 1.6 | 33 |
| 82 | Toxic effects of Cr(VI) and Cr(III) on energy metabolism of heterotrophic Euglena gracilis. Aquatic Toxicology, 2010, 100, 329-338. | 4.0 | 32 |
| 83 | Molecular mechanism for the selective impairment of cancer mitochondrial function by a mitochondrially targeted vitamin E analogue. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1597-1607. | 1.0 | 32 |
| 84 | Emergence of the silicon human and network targeting drugs. European Journal of Pharmaceutical Sciences, 2012, 46, 190-197. | 4.0 | 32 |
| 85 | <scp>C</scp>d<sup>2+</sup> resistance mechanisms in <scp>M</scp>ethanosarcina acetivorans involve the increase in the coenzyme <scp>M</scp> content and induction of biofilm synthesis. Environmental Microbiology Reports, 2013, 5, 799-808. | 2.4 | 32 |
| 86 | Cadmium removal by Euglena gracilis is enhanced under anaerobic growth conditions. Journal of Hazardous Materials, 2015, 288, 104-112. | 12.4 | 32 |
| 87 | Tricolorin A, a potent natural uncoupler and inhibitor of photosystem II acceptor side of spinach chloroplasts. Physiologia Plantarum, 1999, 106, 246-252. | 5.2 | 31 |
| 88 | Nickel accumulation by the green algae-like Euglena gracilis. Journal of Hazardous Materials, 2018, 343, 10-18. | 12.4 | 31 |
| 89 | Control of the NADPH supply and GSH recycling for oxidative stress management in hepatoma and liver mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1138-1150. | 1.0 | 31 |
| 90 | Inhibition of oxidative phosphorylation by a Ca2+-induced diminution of the adenine nucleotide translocator. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 724, 278-285. | 1.0 | 29 |

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|---|---|---|---|
| 91 | Intramitochondrial K+ as activator of carâ˜yatractyloside-induced Ca2+ release. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1070, 461-466. | 2.6 | 29 |
| 92 | Experimental validation of metabolic pathway modeling. FEBS Journal, 2008, 275, 3454-3469. | 4.7 | 29 |
| 93 | Removal, accumulation and resistance to chromium in heterotrophic Euglena gracilis. Journal of Hazardous Materials, 2011, 193, 216-224. | 12.4 | 29 |
| 94 | Control of oxidative phosphorylation in mitochondria, cells and tissues. International Journal of Biochemistry & Cell Biology, 1991, 23, 1163-1174. | 0.5 | 28 |
| 95 | The proton pumping activity of H+-ATPases: An improved fluorescence assay. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1183, 161-170. | 1.0 | 28 |
| 96 | Sulfite and membrane energization induce two different active states of the Paracoccus denitrificans F0F1-ATPase. FEBS Journal, 2000, 267, 993-1000. | 0.2 | 28 |
| 97 | Chromium uptake, retention and reduction in photosynthetic Euglena gracilis. Archives of Microbiology, 2009, 191, 431-440. | 2.2 | 28 |
| 98 | Assessment of the low inhibitory specificity of oxamate, aminooxyacetate and dichloroacetate on cancer energy metabolism. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3221-3236. | 2.4 | 28 |
| 99 | The Alternative Respiratory Pathway of Euglena Mitochondria. Journal of Bioenergetics and Biomembranes, 2004, 36, 459-469. | 2.3 | 27 |
| 100 | A web-based multimedia spatial information system to document Aedes aegypti breeding sites and dengue fever risk along the USâ€“Mexico border. Health and Place, 2006, 12, 715-727. | 3.3 | 27 |
| 101 | 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 |
| 102 | Preparation of coupled mitochondria from Euglena by sonication. Plant Science, 1987, 48, 151-157. | 3.6 | 26 |
| 103 | Determining and understanding the control of flux. An illustration in submitochondrial particles of how to validate schemes of metabolic control. FEBS Journal, 1999, 264, 427-433. | 0.2 | 26 |
| 104 | Oxidative phosphorylation supported by an alternative respiratory pathway in mitochondria from Euglena. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1457, 200-210. | 1.0 | 26 |
| 105 | Characterization of an Aldehyde Dehydrogenase from Euglena gracilis. Journal of Eukaryotic Microbiology, 2006, 53, 36-42. | 1.7 | 26 |
| 106 | Repurposing drugs as proâ€oxidant redox modifiers to eliminate cancer stem cells and improve the treatment of advanced stage cancers. Medicinal Research Reviews, 2019, 39, 2397-2426. | 10.5 | 26 |
| 107 | Intermediary metabolism of fast-growth tumor cells. Archives of Medical Research, 1998, 29, 1-12. | 3.3 | 26 |
| 108 | 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 |

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| 109 | NFâ€kappa B is required for the development of tumor spheroids. Journal of Cellular Biochemistry, 2009, 108, 169-180. | 2.6 | 25 |
| 110 | Multi-biomarker pattern for tumor identification and prognosis. Journal of Cellular Biochemistry, 2011, 112, 2703-2715. | 2.6 | 25 |
| 111 | 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 |
| 112 | Non-Steroidal Anti-Inflammatory Drugs Increase Cisplatin, Paclitaxel, and Doxorubicin Efficacy against Human Cervix Cancer Cells. Pharmaceuticals, 2020, 13, 463. | 3.8 | 25 |
| 113 | The Membrane-Bound - and -Lactate Dehydrogenase Activities in Mitochondria from Euglena gracilis. Archives of Biochemistry and Biophysics, 2001, 390, 295-303. | 3.0 | 24 |
| 114 | Cytosol-mitochondria transfer of reducing equivalents by a lactate shuttle in heterotrophic Euglena. FEBS Journal, 2003, 270, 4942-4951. | 0.2 | 24 |
| 115 | Kinetic Mechanism and Metabolic Role of Pyruvate Phosphate Dikinase from Entamoeba histolytica. Journal of Biological Chemistry, 2004, 279, 54124-54130. | 3.4 | 24 |
| 116 | Physiological role of rhodoquinone in Euglena gracilis mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1710, 113-121. | 1.0 | 24 |
| 117 | Canonical and new generation anticancer drugs also target energy metabolism. Archives of Toxicology, 2014, 88, 1327-1350. | 4.2 | 24 |
| 118 | Accumulation of zinc protects against cadmium stress in photosynthetic Euglena gracilis. Environmental and Experimental Botany, 2016, 131, 19-31. | 4.2 | 24 |
| 119 | Mutant p53<sup>R248Q</sup> downregulates oxidative phosphorylation and upregulates glycolysis under normoxia and hypoxia in human cervix cancer cells. Journal of Cellular Physiology, 2019, 234, 5524-5536. | 4.1 | 24 |
| 120 | Control of superoxide production in mitochondria from maize mesocotyls. FEBS Letters, 2004, 570, 52-56. | 2.8 | 23 |
| 121 | Short-Chain Chromate Ion Transporter Proteins from Bacillus subtilis Confer Chromate Resistance in Escherichia coli. Journal of Bacteriology, 2009, 191, 5441-5445. | 2.2 | 23 |
| 122 | The bifunctional aldehydeâ€"alcohol dehydrogenase controls ethanol and acetate production in Entamoeba histolytica under aerobic conditions. FEBS Letters, 2013, 587, 178-184. | 2.8 | 23 |
| 123 | GPI/AMF inhibition blocks the development of the metastatic phenotype of mature multi-cellular tumor spheroids. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1043-1053. | 4.1 | 23 |
| 124 | Control and regulation of the pyrophosphate-dependent glucose metabolism in Entamoeba histolytica. Molecular and Biochemical Parasitology, 2019, 229, 75-87. | 1.1 | 23 |
| 125 | Role of protonatable groups of bovine heartbc1complex in ubiquinol binding and oxidation. FEBS Journal, 2001, 268, 5783-5790. | 0.2 | 22 |
| 126 | Gamma-glutamylcysteine synthetase and tryparedoxin 1 exert high control on the antioxidant system in Trypanosoma cruzi contributing to drug resistance and infectivity. Redox Biology, 2019, 26, 101231. | 9.0 | 22 |

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|---|---|---|---|
| 127 | Involvement of Cytochrome c Oxidase Subunit III in Energy Coupling. Biochemistry, 1995, 34, 16298-16305. | 2.5 | 21 |
| 128 | Sulfate uptake in photosynthetic Euglena gracilis. Mechanisms of regulation and contribution to cysteine homeostasis. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1567-1575. | 2.4 | 21 |
| 129 | Release of Ca2+ from heart and kidney mitochondria by peripheral-type benodiazepine receptor ligands. International Journal of Biochemistry & Cell Biology, 1991, 23, 207-213. | 0.5 | 20 |
| 130 | Metabolic changes induced by cold stress in rat liver mitochondria. Journal of Bioenergetics and Biomembranes, 2001, 33, 289-301. | 2.3 | 20 |
| 131 | Entamoeba histolytica: kinetic and molecular evidence of a previously unidentified pyruvate kinase. Experimental Parasitology, 2004, 106, 11-21. | 1.2 | 20 |
| 132 | Glycolysis inUstilago maydis. FEMS Yeast Research, 2008, 8, 1313-1323. | 2.3 | 20 |
| 133 | Thiol peptides induction in the seagrass Thalassia testudinum (Banks ex KÃ¶nig) in response to cadmium exposure. Aquatic Toxicology, 2008, 86, 12-19. | 4.0 | 20 |
| 134 | Control of oxidative phosphorylation in AS-30D hepatoma mitochondria. International Journal of Biochemistry & Cell Biology, 1993, 25, 373-377. | 0.5 | 19 |
| 135 | Comparison of Physiological Changes in Euglena gracilis During Exposure to Heavy Metals of Heterotrophic and Autotrophic Cells. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1997, 116, 265-272. | 0.5 | 19 |
| 136 | Modulation of 2-Oxoglutarate Dehydrogenase and Oxidative Phosphorylation by Ca2+ in Pancreas and Adrenal Cortex Mitochondria. Archives of Biochemistry and Biophysics, 1995, 319, 432-444. | 3.0 | 18 |
| 137 | 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 |
| 138 | The bacterial-like lactate shuttle components from heterotrophic Euglena gracilis. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 181-190. | 1.0 | 18 |
| 139 | Phosphorylation ofÂtheÂspinach chloroplast 24ÂkDa RNA-binding protein (24RNP) increases itsÂbinding toÂpetD andÂpsbA 3â€² untranslated regions. Biochimie, 2006, 88, 1217-1228. | 2.6 | 17 |
| 140 | InÂvivo identification of the steps that control energy metabolism and survival of <scp>E</scp>ntamoebaÂhistolytica. FEBS Journal, 2015, 282, 318-331. | 4.7 | 17 |
| 141 | On the mechanism by which 6-ketocholestanol protects mitochondria against uncoupling-induced Ca2+efflux. FEBS Letters, 1996, 379, 305-308. | 2.8 | 16 |
| 142 | Characterization of oxidative phosphorylation in the colorless chlorophyte Polytomella sp.. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1554, 170-179. | 1.0 | 16 |
| 143 | Time-course development of the Cd2+ hyper-accumulating phenotype in Euglena gracilis. Archives of Microbiology, 2005, 184, 83-92. | 2.2 | 16 |
| 144 | Physiological Role of Glutamate Dehydrogenase in Cancer Cells. Frontiers in Oncology, 2020, 10, 429. | 2.8 | 16 |

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| 145 | Cyanide-sensitive and cyanide-resistant respiration of dark-grown Euglena gracilis. Plant Science, 1992, 82, 37-46. | 3.6 | 15 |
| 146 | On the protection by inorganic phosphate of calcium-induced membrane permeability transition. Journal of Bioenergetics and Biomembranes, 1997, 29, 571-577. | 2.3 | 15 |
| 147 | Novel mitochondrial alcohol metabolizing enzymes of Euglena gracilis. Journal of Bioenergetics and Biomembranes, 2011, 43, 519-530. | 2.3 | 15 |
| 148 | Modulation of matrix Ca2+ content by the ADP/ATP carrier in brown adipose tissue mitochondria. Influence of membrane lipid composition. Journal of Bioenergetics and Biomembranes, 1996, 28, 69-76. | 2.3 | 14 |
| 149 | Structural and functional changes in heart mitochondria from sucrose-fed hypertriglyceridemic rats. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 231-239. | 1.0 | 14 |
| 150 | Activation of Pyruvate Dehydrogenase Complex by Ca2+in Intact Heart, Cardiac Myocytes, and Cardiac Mitochondria. Annals of the New York Academy of Sciences, 1989, 573, 240-253. | 3.8 | 13 |
| 151 | Tight Binding of Inhibitors to Bovine bc1Complex Is Independent of the Rieske Protein Redox State. Journal of Biological Chemistry, 2002, 277, 48449-48455. | 3.4 | 13 |
| 152 | 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 |
| 153 | Marine Archaeon Methanosarcina acetivorans Enhances Polyphosphate Metabolism Under Persistent Cadmium Stress. Frontiers in Microbiology, 2019, 10, 2432. | 3.5 | 13 |
| 154 | Alcohol inhibits the activation of NAD-linked dehydrogenases by calcium in brain and heart mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 1995, 1236, 306-316. | 2.6 | 12 |
| 155 | Buthionine sulfoximine is a multitarget inhibitor of trypanothione synthesis in TrypanosomaÂcruzi. FEBS Letters, 2017, 591, 3881-3894. | 2.8 | 12 |
| 156 | HPI/AMF inhibition halts the development of the aggressive phenotype of breast cancer stem cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1679-1690. | 4.1 | 12 |
| 157 | Energy-dependent reactions supported by several substrates in coupled Euglena gracilis mitochondria. Plant Science, 1992, 86, 21-32. | 3.6 | 11 |
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