

# Rafael Moreno-Sanchez

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Celecoxib and Dimethylcelecoxib Block Oxidative Phosphorylation, Epithelial-Mesenchymal Transition and Invasiveness in Breast Cancer Stem Cells. <i>Current Medicinal Chemistry</i> , 2022, 29, 2719-2735.               | 2.4  | 3         |
| 2  | 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.          | 4.6  | 3         |
| 3  | Acetate Promotes a Differential Energy Metabolic Response in Human HCT 116 and COLO 205 Colon Cancer Cells Impacting Cancer Cell Growth and Invasiveness. <i>Frontiers in Oncology</i> , 2021, 11, 697408.               | 2.8  | 7         |
| 4  | Microaerophilia enhances heavy metal biosorption and internal binding by polyphosphates in photosynthetic <i>Euglena gracilis</i> . <i>Algal Research</i> , 2021, 58, 102384.  | 4.6  | 4         |
| 5  | Regulatory role of acetylation on enzyme activity and fluxes of energy metabolism pathways. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 130021.  | 2.4  | 6         |
| 6  | Protein acetylation effects on enzyme activity and metabolic pathway fluxes. <i>Journal of Cellular Biochemistry</i> , 2021, , .   | 2.6  | 4         |
| 7  | The intracellular water volume modulates the accumulation of cadmium in <i>Euglena gracilis</i> . <i>Algal Research</i> , 2020, 46, 101774.  | 4.6  | 3         |
| 8  | Editorial: Metabolic Plasticity of Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 599723.  | 2.8  | 1         |
| 9  | Kinetic modeling of glucose central metabolism in hepatocytes and hepatoma cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129687.  | 2.4  | 9         |
| 10 | Non-Steroidal Anti-Inflammatory Drugs Increase Cisplatin, Paclitaxel, and Doxorubicin Efficacy against Human Cervix Cancer Cells. <i>Pharmaceuticals</i> , 2020, 13, 463.  | 3.8  | 25        |
| 11 | Mapping the metal-catalytic site of a zinc-activated phytochelatin synthase. <i>Algal Research</i> , 2020, 47, 101890.   | 4.6  | 7         |
| 12 | Physiological Role of Glutamate Dehydrogenase in Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 429.   | 2.8  | 16        |
| 13 | Metabolic Control Analysis for Drug Target Prioritization in Trypanosomatids. <i>Methods in Molecular Biology</i> , 2020, 2116, 689-718.   | 0.9  | 3         |
| 14 | Transcriptional Regulation of Energy Metabolism in Cancer Cells. <i>Cells</i> , 2019, 8, 1225.   | 4.1  | 37        |
| 15 | Marine Archaeon <i>Methanosarcina acetivorans</i> Enhances Polyphosphate Metabolism Under Persistent Cadmium Stress. <i>Frontiers in Microbiology</i> , 2019, 10, 2432.  | 3.5  | 13        |
| 16 | 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.      | 3.0  | 1         |
| 17 | Gamma-glutamylcysteine synthetase and trypanothione 1 exert high control on the antioxidant system in <i>Trypanosoma cruzi</i> contributing to drug resistance and infectivity. <i>Redox Biology</i> , 2019, 26, 101231. | 9.0  | 22        |
| 18 | Repurposing drugs as pro-oxidant redox modifiers to eliminate cancer stem cells and improve the treatment of advanced stage cancers. <i>Medicinal Research Reviews</i> , 2019, 39, 2397-2426.                            | 10.5 | 26        |

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|----|--|------|-----------|
| 19 | Oxidized ATM protein kinase is a new signal transduction player that regulates glycolysis in CAFs as well as tumor growth and metastasis. <i>EBioMedicine</i> , 2019, 41, 24-25.   | 6.1  | 4         |
| 20 | Resveratrol inhibits cancer cell proliferation by impairing oxidative phosphorylation and inducing oxidative stress. <i>Toxicology and Applied Pharmacology</i> , 2019, 370, 65-77.  | 2.8  | 65        |
| 21 | Control and regulation of the pyrophosphate-dependent glucose metabolism in <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 2019, 229, 75-87.   | 1.1  | 23        |
| 22 | Mutant p53 <sup>R248Q</sup> downregulates oxidative phosphorylation and upregulates glycolysis under normoxia and hypoxia in human cervix cancer cells. <i>Journal of Cellular Physiology</i> , 2019, 234, 5524-5536.              | 4.1  | 24        |
| 23 | Drug Target Selection for <i>Trypanosoma cruzi</i> Metabolism by Metabolic Control Analysis and Kinetic Modeling. <i>Current Medicinal Chemistry</i> , 2019, 26, 6652-6671.  | 2.4  | 11        |
| 24 | Role of Aldehyde Dehydrogenases in Physiopathological Processes. <i>Chemical Research in Toxicology</i> , 2019, 32, 405-420.   | 3.3  | 35        |
| 25 | Nickel accumulation by the green algae-like <i>Euglena gracilis</i> . <i>Journal of Hazardous Materials</i> , 2018, 343, 10-18.  | 12.4 | 31        |
| 26 | Celecoxib inhibits mitochondrial O <sub>2</sub> consumption, promoting ROS dependent death of murine and human metastatic cancer cells via the apoptotic signalling pathway. <i>Biochemical Pharmacology</i> , 2018, 154, 318-334. | 4.4  | 51        |
| 27 | Control of the NADPH supply and GSH recycling for oxidative stress management in hepatoma and liver mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1138-1150.                                    | 1.0  | 31        |
| 28 | Energy Metabolism Drugs Block Triple Negative Breast Metastatic Cancer Cell Phenotype. <i>Molecular Pharmaceutics</i> , 2018, 15, 2151-2164.   | 4.6  | 34        |
| 29 | Biochemistry and Physiology of Heavy Metal Resistance and Accumulation in <i>Euglena</i> . <i>Advances in Experimental Medicine and Biology</i> , 2017, 979, 91-121.   | 1.6  | 33        |
| 30 | Control of the NADPH supply for oxidative stress handling in cancer cells. <i>Free Radical Biology and Medicine</i> , 2017, 112, 149-161.  | 2.9  | 39        |
| 31 | Buthionine sulfoximine is a multitarget inhibitor of trypanothione synthesis in <i>Trypanosoma cruzi</i> . <i>FEBS Letters</i> , 2017, 591, 3881-3894.   | 2.8  | 12        |
| 32 | HPI/AMF inhibition halts the development of the aggressive phenotype of breast cancer stem cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1679-1690.  | 4.1  | 12        |
| 33 | Assessment of the low inhibitory specificity of oxamate, aminoxyacetate and dichloroacetate on cancer energy metabolism. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3221-3236.                          | 2.4  | 28        |
| 34 | Hypoglycemia Enhances Epithelial-Mesenchymal Transition and Invasiveness, and Restrains the Warburg Phenotype, in Hypoxic HeLa Cell Cultures and Microspheroids. <i>Journal of Cellular Physiology</i> , 2017, 232, 1346-1359.     | 4.1  | 36        |
| 35 | 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.   | 2.8  | 9         |
| 36 | Bio-recovery of non-essential heavy metals by intra- and extracellular mechanisms in free-living microorganisms. <i>Biotechnology Advances</i> , 2016, 34, 859-873.  | 11.7 | 111       |

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|----|---|------|-----------|
| 37 | Understanding the cancer cell phenotype beyond the limitations of current omics analyses. FEBS Journal, 2016, 283, 54-73.   | 4.7  | 38        |
| 38 | Roles of acetyl-CoA synthetase (ADP-forming) and acetate kinase (PPi-forming) in ATP and PPi supply in <i>Entamoeba histolytica</i> . Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1163-1172.        | 2.4  | 10        |
| 39 | Accumulation of zinc protects against cadmium stress in photosynthetic <i>Euglena gracilis</i> . Environmental and Experimental Botany, 2016, 131, 19-31.   | 4.2  | 24        |
| 40 | The nutritional status of <i>Methanosarcina acetivorans</i> regulates glycogen metabolism and gluconeogenesis and glycolysis fluxes. FEBS Journal, 2016, 283, 1979-1999.  | 4.7  | 38        |
| 41 | Air-Adapted <i>Methanosarcina acetivorans</i> Shows High Methane Production and Develops Resistance against Oxygen Stress. PLoS ONE, 2015, 10, e0117331.  | 2.5  | 45        |
| 42 | 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        |
| 43 | Cadmium removal by <i>Euglena gracilis</i> is enhanced under anaerobic growth conditions. Journal of Hazardous Materials, 2015, 288, 104-112.   | 12.4 | 32        |
| 44 | In vivo identification of the steps that control energy metabolism and survival of <i>Entamoeba histolytica</i> . FEBS Journal, 2015, 282, 318-331.   | 4.7  | 17        |
| 45 | 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.                     | 2.8  | 55        |
| 46 | Hitting the Bull's-Eye in Metastatic Cancers: NSAIDs Elevate ROS in Mitochondria, Inducing Malignant Cell Death. Pharmaceuticals, 2015, 8, 62-106.  | 3.8  | 37        |
| 47 | Metabolic control analysis of the <i>Trypanosoma cruzi</i> peroxide detoxification pathway identifies trypanodioxin as a suitable drug target. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 263-273. | 2.4  | 25        |
| 48 | Glucose Metabolism and Its Controlling Mechanisms in <i>Entamoeba histolytica</i> . , 2015, , 351-372.  |      | 2         |
| 49 | Abstract B87: Prolyl hydroxylase and the regulation of reactive oxygen species (ROS) levels in cancer cells. , 2015, , .  |      | 0         |
| 50 | Systems Biology Approaches to Cancer Energy Metabolism. Springer Series in Biophysics, 2014, , 213-239.   | 0.4  | 3         |
| 51 | 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       |
| 52 | 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        |
| 53 | Zn-bis-glutathionate is the best co-substrate of the monomeric phytochelatin synthase from the photosynthetic heavy metal-hyperaccumulator <i>Euglena gracilis</i> . Metallomics, 2014, 6, 604.                       | 2.4  | 13        |
| 54 | 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        |

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|----|--|-----|-----------|
| 55 | Canonical and new generation anticancer drugs also target energy metabolism. Archives of Toxicology, 2014, 88, 1327-1350.  | 4.2 | 24        |
| 56 | Identification of a metabolic and canonical biomarker signature in Mexican HR+/HER2 <sup>-</sup> , triple positive and triple-negative breast cancer patients. International Journal of Oncology, 2014, 45, 2549-2559.     | 3.3 | 5         |
| 57 | Isolation and characterization of gallium resistant Pseudomonas aeruginosa mutants. International Journal of Medical Microbiology, 2013, 303, 574-582.   | 3.6 | 57        |
| 58 | C <sup>2+</sup> resistance mechanisms in M <sup>+</sup> ethanosarcina acetivorans involve the increase in the coenzyme M content and induction of biofilm synthesis. Environmental Microbiology Reports, 2013, 5, 799-808. | 2.4 | 32        |
| 59 | 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       |
| 60 | Anti-mitochondrial therapy in human breast cancer multi-cellular spheroids. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 541-551.  | 4.1 | 52        |
| 61 | Reactive oxygen species are generated by the respiratory complex II “ evidence for lack of contribution of the reverse electron flow in complex I. FEBS Journal, 2013, 280, 927-938.                                       | 4.7 | 60        |
| 62 | 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        |
| 63 | The bifunctional aldehyde alcohol dehydrogenase controls ethanol and acetate production in Entamoeba histolytica under aerobic conditions. FEBS Letters, 2013, 587, 178-184.   | 2.8 | 23        |
| 64 | The oxoglutarate supply exerts significant control on the lysine synthesis flux in S <sup>+</sup> accharomyces cerevisiae. FEBS Journal, 2013, 280, 5737-5749.   | 4.7 | 5         |
| 65 | Editorial (Hot Topic: The Bioenergetics of Cancer, the Warburg Hypothesis and the Mitochondrial) Tj ETQq1 1 0.784314 rgBT <sub>2</sub> /Overload   | 1.6 | 0         |
| 66 | Metabolic Control Theory. , 2013, , 1239-1243.   |     | 2         |
| 67 | Metabolic Control Analysis, Drug-Target Identification. , 2013, , 1234-1239.   |     | 1         |
| 68 | Summation Theorem. , 2013, , 2028-2028.  |     | 0         |
| 69 | Regulation Analysis. , 2013, , 1833-1833.  |     | 0         |
| 70 | Connectivity Theorem. , 2013, , 486-486.   |     | 0         |
| 71 | Rate-limiting Step. , 2013, , 1816-1816.   |     | 0         |
| 72 | Response Coefficient. , 2013, , 1852-1852.   |     | 0         |

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|----|---|------|-----------|
| 73 | Concentration Control Coefficient. , 2013, , 483-483.   |      | 0         |
| 74 | Elasticity Coefficient. , 2013, , 649-649.  |      | 0         |
| 75 | Flux Control Coefficient. , 2013, , 752-752.  |      | 0         |
| 76 | Phosphofructokinase type 1 kinetics, isoform expression, and gene polymorphisms in cancer cells. Journal of Cellular Biochemistry, 2012, 113, 1692-1703.  | 2.6  | 48        |
| 77 | Early carbon mobilization and radicle protrusion in maize germination. Journal of Experimental Botany, 2012, 63, 4513-4526.   | 4.8  | 38        |
| 78 | 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        |
| 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 | Sulfate uptake in photosynthetic <i>Euglena gracilis</i> . Mechanisms of regulation and contribution to cysteine homeostasis. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1567-1575.  | 2.4  | 21        |
| 81 | Activation of Methanogenesis by Cadmium in the Marine Archaeon <i>Methanosarcina acetivorans</i> . PLoS ONE, 2012, 7, e48779.   | 2.5  | 33        |
| 82 | Emergence of the silicon human and network targeting drugs. European Journal of Pharmaceutical Sciences, 2012, 46, 190-197.   | 4.0  | 32        |
| 83 | Drug target validation of the trypanothione pathway enzymes through metabolic modelling. FEBS Journal, 2012, 279, 1811-1833.  | 4.7  | 51        |
| 84 | The Lys20 homocitrate synthase isoform exerts most of the flux control over the lysine synthesis pathway in <i>Saccharomyces cerevisiae</i> . Molecular Microbiology, 2011, 82, 578-590.  | 2.5  | 11        |
| 85 | Removal, accumulation and resistance to chromium in heterotrophic <i>Euglena gracilis</i> . Journal of Hazardous Materials, 2011, 193, 216-224.   | 12.4 | 29        |
| 86 | Modeling cancer glycolysis. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 755-767.   | 1.0  | 115       |
| 87 | Novel mitochondrial alcohol metabolizing enzymes of <i>Euglena gracilis</i> . Journal of Bioenergetics and Biomembranes, 2011, 43, 519-530.   | 2.3  | 15        |
| 88 | 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       |
| 89 | Enhanced Tolerance to Mercury in a Streptomycin-Resistant Strain of <i>Euglena gracilis</i> . Water, Air, and Soil Pollution, 2011, 216, 51-57.   | 2.4  | 3         |
| 90 | Multi-biomarker pattern for tumor identification and prognosis. Journal of Cellular Biochemistry, 2011, 112, 2703-2715.   | 2.6  | 25        |

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|-----|---|-----|-----------|
| 91  | Oxidative Phosphorylation as a Target to Arrest Malignant Neoplasias. <i>Current Medicinal Chemistry</i> , 2011, 18, 3156-3167.   | 2.4 | 33        |
| 92  | Mitochondrial Targeting of Vitamin E Succinate Enhances Its Pro-apoptotic and Anti-cancer Activity via Mitochondrial Complex II. <i>Journal of Biological Chemistry</i> , 2011, 286, 3717-3728.                             | 3.4 | 171       |
| 93  | Pyruvate:ferredoxin oxidoreductase and bifunctional aldehyde-alcohol dehydrogenase are essential for energy metabolism under oxidative stress in <i>Entamoeba histolytica</i> . <i>FEBS Journal</i> , 2010, 277, 3382-3395. | 4.7 | 46        |
| 94  | Increased synthesis of $\alpha$ -tocopherol, paramylon and tyrosine by <i>Euglena gracilis</i> under conditions of high biomass production. <i>Journal of Applied Microbiology</i> , 2010, 109, 2160-2172.                  | 3.1 | 106       |
| 95  | Metabolic control analysis indicates a change of strategy in the treatment of cancer. <i>Mitochondrion</i> , 2010, 10, 626-639.   | 3.4 | 77        |
| 96  | Bioenergetic pathways in tumor mitochondria as targets for cancer therapy and the importance of the ROS-induced apoptotic trigger. <i>Molecular Aspects of Medicine</i> , 2010, 31, 29-59.                                  | 6.4 | 146       |
| 97  | The causes of cancer revisited: "Mitochondrial malignancy" and ROS-induced oncogenic transformation " Why mitochondria are targets for cancer therapy. <i>Molecular Aspects of Medicine</i> , 2010, 31, 145-170.            | 6.4 | 299       |
| 98  | Oxidative phosphorylation is impaired by prolonged hypoxia in breast and possibly in cervix carcinoma. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1744-1751.                                 | 2.8 | 117       |
| 99  | Toxic effects of Cr(VI) and Cr(III) on energy metabolism of heterotrophic <i>Euglena gracilis</i> . <i>Aquatic Toxicology</i> , 2010, 100, 329-338.   | 4.0 | 32        |
| 100 | Targeting Trypanothione Metabolism in Trypanosomatid Human Parasites. <i>Current Drug Targets</i> , 2010, 11, 1614-1630.  | 2.1 | 49        |
| 101 | HIF-1 $\alpha$ ; Modulates Energy Metabolism in Cancer Cells by Inducing Over-Expression of Specific Glycolytic Isoforms. <i>Mini-Reviews in Medicinal Chemistry</i> , 2009, 9, 1084-1101.                                  | 2.4 | 391       |
| 102 | Suppression of Tumor Growth <i>In vivo</i> by the Mitocan $\alpha$ -tocopheryl Succinate Requires Respiratory Complex II. <i>Clinical Cancer Research</i> , 2009, 15, 1593-1600.  | 7.0 | 125       |
| 103 | Short-Chain Chromate Ion Transporter Proteins from <i>Bacillus subtilis</i> Confer Chromate Resistance in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2009, 191, 5441-5445.                                  | 2.2 | 23        |
| 104 | NF $\kappa$ B is required for the development of tumor spheroids. <i>Journal of Cellular Biochemistry</i> , 2009, 108, 169-180.   | 2.6 | 25        |
| 105 | Kinetics of transport and phosphorylation of glucose in cancer cells. <i>Journal of Cellular Physiology</i> , 2009, 221, 552-559.   | 4.1 | 83        |
| 106 | Targeting of cancer energy metabolism. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 29-48.  | 3.3 | 105       |
| 107 | Chromium uptake, retention and reduction in photosynthetic <i>Euglena gracilis</i> . <i>Archives of Microbiology</i> , 2009, 191, 431-440.  | 2.2 | 28        |
| 108 | Molecular basis of the unusual catalytic preference for GDP/GTP in <i>Entamoeba histolytica</i> $\beta$ -phosphoglycerate kinase. <i>FEBS Journal</i> , 2009, 276, 2037-2047.   | 4.7 | 10        |

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|-----|---|-----|-----------|
| 109 | The bioenergetics of cancer: Is glycolysis the main ATP supplier in all tumor cells?. <i>BioFactors</i> , 2009, 35, 209-225.  | 5.4 | 116       |
| 110 | The Pb-hyperaccumulator aquatic fern <i>Salvinia minima</i> Baker, responds to Pb <sup>2+</sup> by increasing phytochelatins via changes in SmPCS expression and in phytochelatin synthase activity. <i>Aquatic Toxicology</i> , 2009, 91, 320-328. | 4.0 | 86        |
| 111 | Enhanced alternative oxidase and antioxidant enzymes under Cd <sup>2+</sup> stress in <i>Euglena</i> . <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 227-235.  | 2.3 | 35        |
| 112 | Energy metabolism transition in multicellular human tumor spheroids. <i>Journal of Cellular Physiology</i> , 2008, 216, 189-197.  | 4.1 | 121       |
| 113 | Glycolysis in <i>Ustilago maydis</i> . <i>FEMS Yeast Research</i> , 2008, 8, 1313-1323.   | 2.3 | 20        |
| 114 | Experimental validation of metabolic pathway modeling. <i>FEBS Journal</i> , 2008, 275, 3454-3469.  | 4.7 | 29        |
| 115 | Gene Cloning and Biochemical Characterization of an Alcohol Dehydrogenase from <i>Euglena gracilis</i> . <i>Journal of Eukaryotic Microbiology</i> , 2008, 55, 554-561.   | 1.7 | 5         |
| 116 | Thiol peptides induction in the seagrass <i>Thalassia testudinum</i> (Banks ex K nig) in response to cadmium exposure. <i>Aquatic Toxicology</i> , 2008, 86, 12-19.   | 4.0 | 20        |
| 117 | Metabolic Control Analysis: A Tool for Designing Strategies to Manipulate Metabolic Pathways. <i>Journal of Biomedicine and Biotechnology</i> , 2008, 2008, 1-30.   | 3.0 | 160       |
| 118 | Cell wall composition affects Cd <sup>2+</sup> accumulation and intracellular thiol peptides in marine red algae. <i>Aquatic Toxicology</i> , 2007, 81, 65-72.  | 4.0 | 46        |
| 119 | Energy metabolism in tumor cells. <i>FEBS Journal</i> , 2007, 274, 1393-1418.   | 4.7 | 873       |
| 120 | Kinetic modeling can describe <i>in vivo</i> glycolysis in <i>Entamoeba histolytica</i> . <i>FEBS Journal</i> , 2007, 274, 4922-4940.   | 4.7 | 41        |
| 121 | Molecular mechanisms of resistance to heavy metals in the protist <i>Euglena gracilis</i> . <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2007, 42, 1365-1378.             | 1.7 | 36        |
| 122 | Induction of CYP1A1 and CYP2E1 in rat liver by histamine: binding and kinetic studies. <i>Archives of Toxicology</i> , 2007, 81, 697-709.   | 4.2 | 8         |
| 123 | Phosphorylation of the spinach chloroplast 24 kDa RNA-binding protein (24RNP) increases its binding to petD and psbA untranslated regions. <i>Biochimie</i> , 2006, 88, 1217-1228.  | 2.6 | 17        |
| 124 | Determining and understanding the control of glycolysis in fast-growth tumor cells. <i>FEBS Journal</i> , 2006, 273, 1975-1988.   | 4.7 | 168       |
| 125 | Phytochelatin-cadmium-sulfide high-molecular-mass complexes of <i>Euglena gracilis</i> . <i>FEBS Journal</i> , 2006, 273, 5703-5713.  | 4.7 | 34        |
| 126 | Characterization of an Aldehyde Dehydrogenase from <i>Euglena gracilis</i> . <i>Journal of Eukaryotic Microbiology</i> , 2006, 53, 36-42.   | 1.7 | 26        |



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|-----|--|-----|-----------|
| 127 | Control of glutathione and phytochelatin synthesis under cadmium stress. Pathway modeling for plants. <i>Journal of Theoretical Biology</i> , 2006, 238, 919-936.  | 1.7 | 111       |
| 128 | Simultaneous Cd <sup>2+</sup> , Zn <sup>2+</sup> , and Pb <sup>2+</sup> Uptake and Accumulation by Photosynthetic <i>Euglena gracilis</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2006, 51, 521-528. | 4.1 | 34        |
| 129 | A web-based multimedia spatial information system to document <i>Aedes aegypti</i> breeding sites and dengue fever risk along the US-Mexico border. <i>Health and Place</i> , 2006, 12, 715-727.                               | 3.3 | 27        |
| 130 | Cardiotoxicity of copper-based antineoplastic drugs casiopeinas is related to inhibition of energy metabolism. <i>Toxicology and Applied Pharmacology</i> , 2006, 212, 79-88.  | 2.8 | 53        |
| 131 | Control of cellular proliferation by modulation of oxidative phosphorylation in human and rodent fast-growing tumor cells. <i>Toxicology and Applied Pharmacology</i> , 2006, 215, 208-217.                                    | 2.8 | 102       |
| 132 | Glycolysis in <i>Entamoeba histolytica</i> . <i>FEBS Journal</i> , 2005, 272, 1767-1783.   | 4.7 | 113       |
| 133 | Time-course development of the Cd <sup>2+</sup> hyper-accumulating phenotype in <i>Euglena gracilis</i> . <i>Archives of Microbiology</i> , 2005, 184, 83-92.  | 2.2 | 16        |
| 134 | Sulfur assimilation and glutathione metabolism under cadmium stress in yeast, protists and plants. <i>FEMS Microbiology Reviews</i> , 2005, 29, 653-671.   | 8.6 | 364       |
| 135 | Cd <sup>2+</sup> transport and storage in the chloroplast of <i>Euglena gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1706, 88-97.   | 1.0 | 58        |
| 136 | The bacterial-like lactate shuttle components from heterotrophic <i>Euglena gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1709, 181-190.   | 1.0 | 18        |
| 137 | Structural and functional changes in heart mitochondria from sucrose-fed hypertriglyceridemic rats. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1709, 231-239.  | 1.0 | 14        |
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