

# Rafael Moreno-Sanchez

## List of Publications by Year in descending order

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207  
papers

10,557  
citations

36203

51  
h-index

39575

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.	3.9	916
2	Energy metabolism in tumor cells. FEBS Journal, 2007, 274, 1393-1418.	2.2	873
3	HIF-1&#945; Modulates Energy Metabolism in Cancer Cells by Inducing Over-Expression of Specific Glycolytic Isoforms. Mini-Reviews in Medicinal Chemistry, 2009, 9, 1084-1101.	1.1	391
4	Sulfur assimilation and glutathione metabolism under cadmium stress in yeast, protists and plants. FEMS Microbiology Reviews, 2005, 29, 653-671.	3.9	364
5	The causes of cancer revisited: â€œMitochondrial malignancyâ€•and ROS-induced oncogenic transformation â€œ Why mitochondria are targets for cancer therapy. Molecular Aspects of Medicine, 2010, 31, 145-170.	2.7	299
6	Mitochondrial Bound Hexokinase Activity as a Preventive Antioxidant Defense. Journal of Biological Chemistry, 2004, 279, 39846-39855.	1.6	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.	1.6	171
8	Determining and understanding the control of glycolysis in fast-growth tumor cells. FEBS Journal, 2006, 273, 1975-1988.	2.2	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.	1.2	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.	1.3	153
12	Inhibition and uncoupling of oxidative phosphorylation by nonsteroidal anti-inflammatory drugs. Biochemical Pharmacology, 1999, 57, 743-752.	2.0	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.	2.7	146
14	Chromate Efflux by Means of the ChrA Chromate Resistance Protein from <i>Pseudomonas aeruginosa</i> . Journal of Bacteriology, 1999, 181, 7398-7400.	1.0	126
15	Suppression of Tumor Growth <i>In vivo</i> by the Mitocan $\alpha$ -tocopheryl Succinate Requires Respiratory Complex II. Clinical Cancer Research, 2009, 15, 1593-1600.	3.2	125
16	Heart Metabolic Disturbances in Cardiovascular Diseases. Archives of Medical Research, 2003, 34, 89-99.	1.5	124
17	Energy metabolism transition in multiâ€•cellular human tumor spheroids. Journal of Cellular Physiology, 2008, 216, 189-197.	2.0	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.	1.2	117

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19	Multisite control of the Crabtree effect in ascites hepatoma cells. <i>FEBS Journal</i> , 2001, 268, 2512-2519.	0.2	116
20	The bioenergetics of cancer: Is glycolysis the main ATP supplier in all tumor cells?. <i>BioFactors</i> , 2009, 35, 209-225.	2.6	116
21	Modeling cancer glycolysis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 755-767.	0.5	115
22	Glycolysis in <i>Entamoeba histolytica</i> . <i>FEBS Journal</i> , 2005, 272, 1767-1783.	2.2	113
23	Control of glutathione and phytochelatin synthesis under cadmium stress. Pathway modeling for plants. <i>Journal of Theoretical Biology</i> , 2006, 238, 919-936.	0.8	111
24	Bio-recovery of non-essential heavy metals by intra- and extracellular mechanisms in free-living microorganisms. <i>Biotechnology Advances</i> , 2016, 34, 859-873.	6.0	111
25	Toxic effects of copper-based antineoplastic drugs (Casiopinas®) on mitochondrial functions. <i>Biochemical Pharmacology</i> , 2003, 65, 1979-1989.	2.0	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. <i>Pharmaceutical Research</i> , 2011, 28, 2695-2730.	1.7	108
27	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.	1.4	106
28	Targeting of cancer energy metabolism. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 29-48.	1.5	105
29	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.	1.3	102
30	Extracellular ATP has a potent effect to enhance cytosolic calcium and contractility in single ventricular myocytes. <i>Cell Calcium</i> , 1988, 9, 193-199.	1.1	87
31	The Pb-hyperaccumulator aquatic fern <i>Salvinia minima</i> Baker, responds to Pb <sup>2+</sup> by increasing phytochelatin synthesis via changes in SmPCS expression and in phytochelatin synthase activity. <i>Aquatic Toxicology</i> , 2009, 91, 320-328.	1.9	86
32	Kinetics of transport and phosphorylation of glucose in cancer cells. <i>Journal of Cellular Physiology</i> , 2009, 221, 552-559.	2.0	83
33	Regulation of oxidative phosphorylation in mitochondria by external free Ca <sup>2+</sup> concentrations. <i>Journal of Biological Chemistry</i> , 1985, 260, 4028-34.	1.6	81
34	Metabolic control analysis indicates a change of strategy in the treatment of cancer. <i>Mitochondrion</i> , 2010, 10, 626-639.	1.6	77
35	Substrate Oxidation and ATP Supply in AS-30D Hepatoma Cells. <i>Archives of Biochemistry and Biophysics</i> , 2000, 375, 21-30.	1.4	74
36	Cadmium accumulation in the chloroplast of <i>Euglena gracilis</i> . <i>Physiologia Plantarum</i> , 2002, 115, 276-283.	2.6	66

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37	Mercury pretreatment selects an enhanced cadmium-accumulating phenotype in <i>Euglena gracilis</i> . <i>Archives of Microbiology</i> , 2003, 180, 1-10.	1.0	65
38	Building Web-Based Spatial Information Solutions around Open Specifications and Open Source Software. <i>Transactions in GIS</i> , 2003, 7, 447-466.	1.0	65
39	Resveratrol inhibits cancer cell proliferation by impairing oxidative phosphorylation and inducing oxidative stress. <i>Toxicology and Applied Pharmacology</i> , 2019, 370, 65-77.	1.3	65
40	Mercury uptake and removal by <i>Euglena gracilis</i> . <i>Archives of Microbiology</i> , 2000, 174, 175-180.	1.0	61
41	Efflux of chromate by <i>Pseudomonas aeruginosa</i> cells expressing the ChrA protein. <i>FEMS Microbiology Letters</i> , 2002, 212, 249-254.	0.7	61
42	Reactive oxygen species are generated by the respiratory complex II – evidence for lack of contribution of the reverse electron flow in complex I. <i>FEBS Journal</i> , 2013, 280, 927-938.	2.2	60
43	Contribution of the translocator of adenine nucleotides and the ATP synthase to the control of oxidative phosphorylation and arsenylation in liver mitochondria. <i>Journal of Biological Chemistry</i> , 1985, 260, 12554-60.	1.6	60
44	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.	0.5	58
45	Modulation of Oxidative Phosphorylation by Mg <sup>2+</sup> in Rat Heart Mitochondria. <i>Journal of Biological Chemistry</i> , 1998, 273, 7850-7855.	1.6	57
46	Isolation and characterization of gallium resistant <i>Pseudomonas aeruginosa</i> mutants. <i>International Journal of Medical Microbiology</i> , 2013, 303, 574-582.	1.5	57
47	Modeling cancer glycolysis under hypoglycemia, and the role played by the differential expression of glycolytic isoforms. <i>FEBS Journal</i> , 2014, 281, 3325-3345.	2.2	55
48	Mitochondrial free fatty acid $\beta$ -oxidation supports oxidative phosphorylation and proliferation in cancer cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 65, 209-221.	1.2	55
49	Distribution of control of oxidative phosphorylation in mitochondria oxidizing NAD-linked substrates. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1060, 284-292.	0.5	53
50	Cardiotoxicity of copper-based antineoplastic drugs casiopeinas is related to inhibition of energy metabolism. <i>Toxicology and Applied Pharmacology</i> , 2006, 212, 79-88.	1.3	53
51	Anti-mitochondrial therapy in human breast cancer multi-cellular spheroids. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 541-551.	1.9	52
52	Drug target validation of the trypanothione pathway enzymes through metabolic modelling. <i>FEBS Journal</i> , 2012, 279, 1811-1833.	2.2	51
53	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.	2.0	51
54	Targeting Trypanothione Metabolism in Trypanosomatid Human Parasites. <i>Current Drug Targets</i> , 2010, 11, 1614-1630.	1.0	49

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55	Enhanced Heavy Metal Tolerance in Two Strains of Photosynthetic <i>Euglena gracilis</i> by Preexposure to Mercury or Cadmium. <i>Archives of Environmental Contamination and Toxicology</i> , 1998, 34, 128-135.	2.1	48
56	Phosphofructokinase type 1 kinetics, isoform expression, and gene polymorphisms in cancer cells. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 1692-1703.	1.2	48
57	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.	1.9	46
58	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.	2.2	46
59	Air-Adapted <i>Methanosarcina acetivorans</i> Shows High Methane Production and Develops Resistance against Oxygen Stress. <i>PLoS ONE</i> , 2015, 10, e0117331.	1.1	45
60	Kinetic modeling can describe <i>in vivo</i> glycolysis in <i>Entamoeba histolytica</i> . <i>FEBS Journal</i> , 2007, 274, 4922-4940.	2.2	41
61	Control of the NADPH supply for oxidative stress handling in cancer cells. <i>Free Radical Biology and Medicine</i> , 2017, 112, 149-161.	1.3	39
62	Early carbon mobilization and radicle protrusion in maize germination. <i>Journal of Experimental Botany</i> , 2012, 63, 4513-4526.	2.4	38
63	Understanding the cancer cell phenotype beyond the limitations of current omics analyses. <i>FEBS Journal</i> , 2016, 283, 54-73.	2.2	38
64	The nutritional status of <i>Methanosarcina acetivorans</i> regulates glycogen metabolism and gluconeogenesis and glycolysis fluxes. <i>FEBS Journal</i> , 2016, 283, 1979-1999.	2.2	38
65	Hitting the Bull's-Eye in Metastatic Cancers: NSAIDs Elevate ROS in Mitochondria, Inducing Malignant Cell Death. <i>Pharmaceuticals</i> , 2015, 8, 62-106.	1.7	37
66	Transcriptional Regulation of Energy Metabolism in Cancer Cells. <i>Cells</i> , 2019, 8, 1225.	1.8	37
67	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.	0.9	36
68	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.	2.0	36
69	Inhibition of substrate oxidation in mitochondria by the peripheral-type benzodiazepine receptor ligand AHN 086. <i>Biochemical Pharmacology</i> , 1991, 41, 1479-1484.	2.0	35
70	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.	1.0	35
71	Dual regulation of energy metabolism by p53 in human cervix and breast cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 3266-3278.	1.9	35
72	Role of Aldehyde Dehydrogenases in Physiopathological Processes. <i>Chemical Research in Toxicology</i> , 2019, 32, 405-420.	1.7	35

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73	Multiple effects of salinity on photosynthesis of the protist <i>Euglena gracilis</i> . <i>Physiologia Plantarum</i> , 1997, 101, 777-786.	2.6	34
74	Phytochelatin-cadmium-sulfide high-molecular-mass complexes of <i>Euglena gracilis</i> . <i>FEBS Journal</i> , 2006, 273, 5703-5713.	2.2	34
75	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.	2.1	34
76	Energy Metabolism Drugs Block Triple Negative Breast Metastatic Cancer Cell Phenotype. <i>Molecular Pharmaceutics</i> , 2018, 15, 2151-2164.	2.3	34
77	Oxidative Phosphorylation as a Target to Arrest Malignant Neoplasias. <i>Current Medicinal Chemistry</i> , 2011, 18, 3156-3167.	1.2	33
78	Casiopeina II-gly and bromo-pyruvate inhibition of tumor hexokinase, glycolysis, and oxidative phosphorylation. <i>Archives of Toxicology</i> , 2012, 86, 753-766.	1.9	33
79	Activation of Methanogenesis by Cadmium in the Marine Archaeon <i>Methanosarcina acetivorans</i> . <i>PLoS ONE</i> , 2012, 7, e48779.	1.1	33
80	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.	0.8	33
81	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.	1.9	32
82	Molecular mechanism for the selective impairment of cancer mitochondrial function by a mitochondrially targeted vitamin E analogue. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1597-1607.	0.5	32
83	Emergence of the silicon human and network targeting drugs. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 46, 190-197.	1.9	32
84	C <sup>2+</sup> resistance mechanisms in <i>Methanosarcina acetivorans</i> involve the increase in the coenzyme M content and induction of biofilm synthesis. <i>Environmental Microbiology Reports</i> , 2013, 5, 799-808.	1.0	32
85	Cadmium removal by <i>Euglena gracilis</i> is enhanced under anaerobic growth conditions. <i>Journal of Hazardous Materials</i> , 2015, 288, 104-112.	6.5	32
86	Tricolorin A, a potent natural uncoupler and inhibitor of photosystem II acceptor side of spinach chloroplasts. <i>Physiologia Plantarum</i> , 1999, 106, 246-252.	2.6	31
87	Nickel accumulation by the green algae-like <i>Euglena gracilis</i> . <i>Journal of Hazardous Materials</i> , 2018, 343, 10-18.	6.5	31
88	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.	0.5	31
89	Inhibition of oxidative phosphorylation by a Ca <sup>2+</sup> -induced diminution of the adenine nucleotide translocator. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1983, 724, 278-285.	0.5	29
90	Intramitochondrial K <sup>+</sup> as activator of carboxyatractyloside-induced Ca <sup>2+</sup> release. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1070, 461-466.	1.4	29

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91	Experimental validation of metabolic pathway modeling. FEBS Journal, 2008, 275, 3454-3469.	2.2	29
92	Removal, accumulation and resistance to chromium in heterotrophic <i>Euglena gracilis</i> . Journal of Hazardous Materials, 2011, 193, 216-224.	6.5	29
93	Control of oxidative phosphorylation in mitochondria, cells and tissues. International Journal of Biochemistry & Cell Biology, 1991, 23, 1163-1174.	0.8	28
94	The proton pumping activity of H <sup>+</sup> -ATPases: An improved fluorescence assay. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1183, 161-170.	0.5	28
95	Sulfite and membrane energization induce two different active states of the <i>Paracoccus denitrificans</i> FOF1-ATPase. FEBS Journal, 2000, 267, 993-1000.	0.2	28
96	Chromium uptake, retention and reduction in photosynthetic <i>Euglena gracilis</i> . Archives of Microbiology, 2009, 191, 431-440.	1.0	28
97	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.	1.1	28
98	The Alternative Respiratory Pathway of <i>Euglena</i> Mitochondria. Journal of Bioenergetics and Biomembranes, 2004, 36, 459-469.	1.0	27
99	A web-based multimedia spatial information system to document <i>Aedes aegypti</i> breeding sites and dengue fever risk along the US-Mexico border. Health and Place, 2006, 12, 715-727.	1.5	27
100	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.	2.7	27
101	Preparation of coupled mitochondria from <i>Euglena</i> by sonication. Plant Science, 1987, 48, 151-157.	1.7	26
102	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
103	Oxidative phosphorylation supported by an alternative respiratory pathway in mitochondria from <i>Euglena</i> . Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1457, 200-210.	0.5	26
104	Characterization of an Aldehyde Dehydrogenase from <i>Euglena gracilis</i> . Journal of Eukaryotic Microbiology, 2006, 53, 36-42.	0.8	26
105	Repurposing drugs as pro-oxidant redox modifiers to eliminate cancer stem cells and improve the treatment of advanced stage cancers. Medicinal Research Reviews, 2019, 39, 2397-2426.	5.0	26
106	Intermediary metabolism of fast-growth tumor cells. Archives of Medical Research, 1998, 29, 1-12.	1.5	26
107	Modulation of 2-Oxoglutarate Dehydrogenase Complex by Inorganic Phosphate, Mg <sup>2+</sup> , and Other Effectors. Archives of Biochemistry and Biophysics, 2000, 379, 78-84.	1.4	25
108	NF- $\kappa$ B is required for the development of tumor spheroids. Journal of Cellular Biochemistry, 2009, 108, 169-180.	1.2	25

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109	Multi-biomarker pattern for tumor identification and prognosis. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 2703-2715.	1.2	25
110	Metabolic control analysis of the <i>Trypanosoma cruzi</i> peroxide detoxification pathway identifies tryparedoxin as a suitable drug target. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 263-273.	1.1	25
111	Non-Steroidal Anti-Inflammatory Drugs Increase Cisplatin, Paclitaxel, and Doxorubicin Efficacy against Human Cervix Cancer Cells. <i>Pharmaceuticals</i> , 2020, 13, 463.	1.7	25
112	The Membrane-Bound - and -Lactate Dehydrogenase Activities in Mitochondria from <i>Euglena gracilis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2001, 390, 295-303.	1.4	24
113	Cytosol-mitochondria transfer of reducing equivalents by a lactate shuttle in heterotrophic <i>Euglena</i> . <i>FEBS Journal</i> , 2003, 270, 4942-4951.	0.2	24
114	Kinetic Mechanism and Metabolic Role of Pyruvate Phosphate Dikinase from <i>Entamoeba histolytica</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 54124-54130.	1.6	24
115	Physiological role of rholoquinone in <i>Euglena gracilis</i> mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1710, 113-121.	0.5	24
116	Canonical and new generation anticancer drugs also target energy metabolism. <i>Archives of Toxicology</i> , 2014, 88, 1327-1350.	1.9	24
117	Accumulation of zinc protects against cadmium stress in photosynthetic <i>Euglena gracilis</i> . <i>Environmental and Experimental Botany</i> , 2016, 131, 19-31.	2.0	24
118	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.	2.0	24
119	Control of superoxide production in mitochondria from maize mesocotyls. <i>FEBS Letters</i> , 2004, 570, 52-56.	1.3	23
120	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.	1.0	23
121	The bifunctional aldehyde alcohol dehydrogenase controls ethanol and acetate production in <i>Entamoeba histolytica</i> under aerobic conditions. <i>FEBS Letters</i> , 2013, 587, 178-184.	1.3	23
122	GPI/AMF inhibition blocks the development of the metastatic phenotype of mature multi-cellular tumor spheroids. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1043-1053.	1.9	23
123	Control and regulation of the pyrophosphate-dependent glucose metabolism in <i>Entamoeba histolytica</i> . <i>Molecular and Biochemical Parasitology</i> , 2019, 229, 75-87.	0.5	23
124	Role of protonatable groups of bovine heart bc1 complex in ubiquinol binding and oxidation. <i>FEBS Journal</i> , 2001, 268, 5783-5790.	0.2	22
125	Gamma-glutamylcysteine synthetase and tryparedoxin 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.	3.9	22
126	Involvement of Cytochrome c Oxidase Subunit III in Energy Coupling. <i>Biochemistry</i> , 1995, 34, 16298-16305.	1.2	21



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127	Sulfate uptake in photosynthetic <i>Euglena gracilis</i> . Mechanisms of regulation and contribution to cysteine homeostasis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1567-1575.	1.1	21
128	Release of Ca <sup>2+</sup> from heart and kidney mitochondria by peripheral-type benzodiazepine receptor ligands. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1991, 23, 207-213.	0.8	20
129	Metabolic changes induced by cold stress in rat liver mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2001, 33, 289-301.	1.0	20
130	<i>Entamoeba histolytica</i> : kinetic and molecular evidence of a previously unidentified pyruvate kinase. <i>Experimental Parasitology</i> , 2004, 106, 11-21.	0.5	20
131	Glycolysis in <i>Ustilago maydis</i> . <i>FEMS Yeast Research</i> , 2008, 8, 1313-1323.	1.1	20
132	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.	1.9	20
133	Control of oxidative phosphorylation in AS-30D hepatoma mitochondria. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1993, 25, 373-377.	0.8	19
134	Comparison of Physiological Changes in <i>Euglena gracilis</i> During Exposure to Heavy Metals of Heterotrophic and Autotrophic Cells. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1997, 116, 265-272.	0.5	19
135	Modulation of 2-Oxoglutarate Dehydrogenase and Oxidative Phosphorylation by Ca <sup>2+</sup> in Pancreas and Adrenal Cortex Mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1995, 319, 432-444.	1.4	18
136	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
137	The bacterial-like lactate shuttle components from heterotrophic <i>Euglena gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1709, 181-190.	0.5	18
138	Phosphorylation of the spinach chloroplast 24 kDa RNA-binding protein (24RNP) increases its binding to petD and psbA 3' untranslated regions. <i>Biochimie</i> , 2006, 88, 1217-1228.	1.3	17
139	In vivo identification of the steps that control energy metabolism and survival of <i>Entamoeba histolytica</i> . <i>FEBS Journal</i> , 2015, 282, 318-331.	2.2	17
140	On the mechanism by which 6-ketocholestanol protects mitochondria against uncoupling-induced Ca <sup>2+</sup> efflux. <i>FEBS Letters</i> , 1996, 379, 305-308.	1.3	16
141	Characterization of oxidative phosphorylation in the colorless chlorophyte <i>Polytomella</i> sp.. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1554, 170-179.	0.5	16
142	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.	1.0	16
143	Physiological Role of Glutamate Dehydrogenase in Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 429.	1.3	16
144	Cyanide-sensitive and cyanide-resistant respiration of dark-grown <i>Euglena gracilis</i> . <i>Plant Science</i> , 1992, 82, 37-46.	1.7	15

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145	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
146	Novel mitochondrial alcohol metabolizing enzymes of <i>Euglena gracilis</i> . <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 519-530.	1.0	15
147	Modulation of matrix Ca <sup>2+</sup> content by the ADP/ATP carrier in brown adipose tissue mitochondria. Influence of membrane lipid composition. <i>Journal of Bioenergetics and Biomembranes</i> , 1996, 28, 69-76.	1.0	14
148	Structural and functional changes in heart mitochondria from sucrose-fed hypertriglyceridemic rats. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1709, 231-239.	0.5	14
149	Activation of Pyruvate Dehydrogenase Complex by Ca <sup>2+</sup> in Intact Heart, Cardiac Myocytes, and Cardiac Mitochondria. <i>Annals of the New York Academy of Sciences</i> , 1989, 573, 240-253.	1.8	13
150	Tight Binding of Inhibitors to Bovine bc <sub>1</sub> Complex Is Independent of the Rieske Protein Redox State. <i>Journal of Biological Chemistry</i> , 2002, 277, 48449-48455.	1.6	13
151	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
152	Marine Archaeon <i>Methanosarcina acetivorans</i> Enhances Polyphosphate Metabolism Under Persistent Cadmium Stress. <i>Frontiers in Microbiology</i> , 2019, 10, 2432.	1.5	13
153	Alcohol inhibits the activation of NAD-linked dehydrogenases by calcium in brain and heart mitochondria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1995, 1236, 306-316.	1.4	12
154	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
155	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.	1.9	12
156	Energy-dependent reactions supported by several substrates in coupled <i>Euglena gracilis</i> mitochondria. <i>Plant Science</i> , 1992, 86, 21-32.	1.7	11
157	A Method for the Isolation of Tegument Syncytium Mitochondria from <i>Taenia crassiceps</i> Cysticerci and Partial Characterization of Their Aerobic Metabolism. <i>Journal of Parasitology</i> , 1998, 84, 461.	0.3	11
158	The Lys20 homocitrate synthase isoform exerts most of the flux control over the lysine synthesis pathway in <i>Saccharomyces cerevisiae</i> . <i>Molecular Microbiology</i> , 2011, 82, 578-590.	1.2	11
159	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.	1.2	11
160	Characterization of Ca <sup>2+</sup> transport in <i>Euglena gracilis</i> mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1186, 107-116.	0.5	10
161	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
162	Roles of acetyl-CoA synthetase (ADP-forming) and acetate kinase (PPi-forming) in ATP and PPi supply in <i>Entamoeba histolytica</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1163-1172.	1.1	10

#	ARTICLE	IF	CITATIONS
163	Impairment of glucose metabolism and energy transfer in the hypertriglyceridemic rat heart. <i>Molecular and Cellular Biochemistry</i> , 2003, 249, 157-165.	1.4	9
164	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
165	Kinetic modeling of glucose central metabolism in hepatocytes and hepatoma cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129687.	1.1	9
166	The Content of Alternative Oxidase of <i>Euglena</i> Mitochondria is Increased by Growth in the Presence of Cyanide and is not Cytochrome <i>o.</i> . <i>Journal of Eukaryotic Microbiology</i> , 1998, 45, 122-130.	0.8	8
167	Induction of CYP1A1 and CYP2E1 in rat liver by histamine: binding and kinetic studies. <i>Archives of Toxicology</i> , 2007, 81, 697-709.	1.9	8
168	Mapping the metal-catalytic site of a zinc-activated phytochelatin synthase. <i>Algal Research</i> , 2020, 47, 101890.	2.4	7
169	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.	1.3	7
170	Impairment of glucose metabolism and energy transfer in the rat heart. , 2003, , 157-165.		7
171	Inhibition of the veratridine-induced increase in cytosolic Ca <sup>2+</sup> and respiration by Ca <sup>2+</sup> antagonists in isolated cardiac myocytes. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1991, 23, 889-896.	0.8	6
172	Regulatory role of acetylation on enzyme activity and fluxes of energy metabolism pathways. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 130021.	1.1	6
173	Impairment of glucose metabolism and energy transfer in the rat heart. <i>Molecular and Cellular Biochemistry</i> , 2003, 249, 157-65.	1.4	6
174	Design and development strategy for multi-media GIS to support environmental negotiation, administration, and monitoring at the regional level. <i>Transactions in GIS</i> , 1996, 1, 161-175.	1.0	5
175	Kinetic and thermodynamic characterization of adenylyl cyclase from <i>Euglena gracilis</i> . <i>Archives of Biochemistry and Biophysics</i> , 2002, 404, 48-54.	1.4	5
176	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
177	The 2-oxoglutarate supply exerts significant control on the lysine synthesis flux in <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 2013, 280, 5737-5749.	2.2	5
178	Identification of a metabolic and canonical biomarker signature in Mexican HR+/HER2 <sup>+</sup> , triple positive and triple-negative breast cancer patients. <i>International Journal of Oncology</i> , 2014, 45, 2549-2559.	1.4	5
179	Modulation of matrix Ca <sup>2+</sup> content by the ADP/ATP carrier in brown adipose tissue mitochondria. Influence of membrane lipid composition. <i>Journal of Bioenergetics and Biomembranes</i> , 1996, 28, 69-76.	1.0	5
180	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

#	ARTICLE	IF	CITATIONS
181	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.	2.7	4
182	Microaerophilia enhances heavy metal biosorption and internal binding by polyphosphates in photosynthetic <i>Euglena gracilis</i> . <i>Algal Research</i> , 2021, 58, 102384.	2.4	4
183	Protein acetylation effects on enzyme activity and metabolic pathway fluxes. <i>Journal of Cellular Biochemistry</i> , 2021, , .	1.2	4
184	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
185	Systems Biology Approaches to Cancer Energy Metabolism. <i>Springer Series in Biophysics</i> , 2014, , 213-239.	0.4	3
186	The intracellular water volume modulates the accumulation of cadmium in <i>Euglena gracilis</i> . <i>Algal Research</i> , 2020, 46, 101774.	2.4	3
187	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
188	Multiple effects of salinity on photosynthesis of the protist <i>Euglena gracilis</i> . <i>Physiologia Plantarum</i> , 1997, 101, 777-786.	2.6	3
189	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.	1.2	3
190	Metabolic Control Analysis for Drug Target Prioritization in Trypanosomatids. <i>Methods in Molecular Biology</i> , 2020, 2116, 689-718.	0.4	3
191	Modulation of the ATP induced $[Ca^{2+}]_c$ increase in as-30D hepatoma cells. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1993, 25, 1109-1114.	0.8	2
192	Editorial (Hot Topic: The Bioenergetics of Cancer, the Warburg Hypothesis and the Mitochondrial) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	0.9	2
193	Metabolic Control Theory. , 2013, , 1239-1243.		2
194	Glucose Metabolism and Its Controlling Mechanisms in <i>Entamoeba histolytica</i> . , 2015, , 351-372.		2
195	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
196	Editorial: Metabolic Plasticity of Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 599723.	1.3	1
197	Metabolic Control Analysis, Drug-Target Identification. , 2013, , 1234-1239.		1
198	Summation Theorem. , 2013, , 2028-2028.		0

#	ARTICLE	IF	CITATIONS
199	Regulation Analysis. , 2013, , 1833-1833.		0
200	Connectivity Theorem. , 2013, , 486-486.		0
201	Rate-limiting Step. , 2013, , 1816-1816.		0
202	Response Coefficient. , 2013, , 1852-1852.		0
203	Concentration Control Coefficient. , 2013, , 483-483.		0
204	Elasticity Coefficient. , 2013, , 649-649.		0
205	Flux Control Coefficient. , 2013, , 752-752.		0
206	Abstract B87: Prolyl hydroxylase and the regulation of reactive oxygen species (ROS) levels in cancer cells. , 2015, , .		0
207	Measurement of the cytosolic Ca <sup>2+</sup> mobilization induced by extracellular ATP in AS-30D hepatoma cells using Indo-1. Proceedings of the Western Pharmacology Society, 1991, 34, 399-407.	0.1	0