Ãlvaro MarÃ-n-HernÃ¡ndez

List of Publications by Year
in descending order

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64 papers	4,125 citations	147801 31 h-index	114465 63 g-index
64 all docs	64 docs citations	64 times ranked	6143 citing authors

#	Article	IF	Citations
1	Energy metabolism in tumor cells. FEBS Journal, 2007, 274, 1393-1418.	4.7	873
2	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
3	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
4	Determining and understanding the control of glycolysis in fast-growth tumor cells. FEBS Journal, 2006, 273, 1975-1988.	4.7	168
5	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
6	Suppression of Tumor GrowthIn vivoby the Mitocan Î±-tocopheryl Succinate Requires Respiratory Complex II. Clinical Cancer Research, 2009, 15, 1593-1600.	7.0	125
7	Energy metabolism transition in multiâ€cellular human tumor spheroids. Journal of Cellular Physiology, 2008, 216, 189-197.	4.1	121
8	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
9	The bioenergetics of cancer: Is glycolysis the main ATP supplier in all tumor cells?. BioFactors, 2009, 35, 209-225.	5.4	116
10	Modeling cancer glycolysis. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 755-767.	1.0	115
11	Toxic effects of copper-based antineoplastic drugs (CasiopeinasÂ®) on mitochondrial functions. Biochemical Pharmacology, 2003, 65, 1979-1989.	4.4	110
12	Targeting of cancer energy metabolism. Molecular Nutrition and Food Research, 2009, 53, 29-48.	3.3	105
13	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
14	Mitochondrial dynamics and cancer. Tumor Biology, 2017, 39, 101042831769839.	1.8	100
15	Kinetics of transport and phosphorylation of glucose in cancer cells. Journal of Cellular Physiology, 2009, 221, 552-559.	4.1	83
16	Knigth's Move in the Periodic Table, From Copper to Platinum, Novel Antitumor Mixed Chelate Copper Compounds, Casiopeinas, Evaluated by an in Vitro Human and Murine Cancer Cell Line Panel. Metal-Based Drugs, 2001, 8, 19-28.	3.8	74
17	Resveratrol inhibits cancer cell proliferation by impairing oxidative phosphorylation and inducing oxidative stress. Toxicology and Applied Pharmacology, 2019, 370, 65-77.	2.8	65
18	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

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19	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
20	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
21	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
22	Anti-mitochondrial therapy in human breast cancer multi-cellular spheroids. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 541-551.	4.1	52
23	Phosphofructokinase type 1 kinetics, isoform expression, and gene polymorphisms in cancer cells. Journal of Cellular Biochemistry, 2012, 113, 1692-1703.	2.6	48
24	Specialization of the paralogue LYS21 determines lysine biosynthesis under respiratory metabolism in Saccharomyces cerevisiae. Microbiology (United Kingdom), 2008, 154, 1656-1667.	1.8	45
25	Kinetic modeling can describe inâ€ƒvivo glycolysis in Entamoeba histolytica. FEBS Journal, 2007, 274, 4922-4940.	4.7	41
26	Control of the NADPH supply for oxidative stress handling in cancer cells. Free Radical Biology and Medicine, 2017, 112, 149-161.	2.9	39
27	The nutritional status of Methanosarcina acetivorans regulates glycogen metabolism and gluconeogenesis and glycolysis fluxes. FEBS Journal, 2016, 283, 1979-1999.	4.7	38
28	Transcriptional Regulation of Energy Metabolism in Cancer Cells. Cells, 2019, 8, 1225.	4.1	37
29	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
30	Enhanced alternative oxidase and antioxidant enzymes under Cd2+ stress in Euglena. Journal of Bioenergetics and Biomembranes, 2008, 40, 227-235.	2.3	35
31	Oxidative Phosphorylation as a Target to Arrest Malignant Neoplasias. Current Medicinal Chemistry, 2011, 18, 3156-3167.	2.4	33
32	Casiopeina II-gly and bromo-pyruvate inhibition of tumor hexokinase, glycolysis, and oxidative phosphorylation. Archives of Toxicology, 2012, 86, 753-766.	4.2	33
33	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
34	<scp>C</scp>d²⁺ 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
35	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
36	Experimental validation of metabolic pathway modeling. FEBS Journal, 2008, 275, 3454-3469.	4.7	29

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37	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
38	Biotin increases glucokinase expression via soluble guanylate cyclase/protein kinase G, adenosine triphosphate production and autocrine action of insulin in pancreatic rat isletsâ˜†. Journal of Nutritional Biochemistry, 2010, 21, 606-612.	4.2	27
39	Multi-biomarker pattern for tumor identification and prognosis. Journal of Cellular Biochemistry, 2011, 112, 2703-2715.	2.6	25
40	Canonical and new generation anticancer drugs also target energy metabolism. Archives of Toxicology, 2014, 88, 1327-1350.	4.2	24
41	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
42	Post-conditioning Preserves Glycolytic ATP During Early Reperfusion: A survival Mechanism for the Reperfused Heart. Cellular Physiology and Biochemistry, 2008, 22, 635-644.	1.6	22
43	Glycolysis inUstilago maydis. FEMS Yeast Research, 2008, 8, 1313-1323.	2.3	20
44	Glycoprotein Ib activation by thrombin stimulates the energy metabolism in human platelets. PLoS ONE, 2017, 12, e0182374.	2.5	19
45	The bacterial-like lactate shuttle components from heterotrophic Euglena gracilis. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 181-190.	1.0	18
46	Physiological Role of Glutamate Dehydrogenase in Cancer Cells. Frontiers in Oncology, 2020, 10, 429.	2.8	16
47	Activation of ALDH1A1 by omeprazole reduces cell oxidative stress damage. FEBS Journal, 2021, 288, 4064-4080.	4.7	16
48	Structural and functional changes in heart mitochondria from sucrose-fed hypertriglyceridemic rats. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 231-239.	1.0	14
49	Actin-cytoskeleton polymerization differentially controls the stability of Ski and SnoN co-repressors in normal but not in transformed hepatocytes. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1832-1841.	2.4	12
50	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
51	The Lys20 homocitrate synthase isoform exerts most of the flux control over the lysine synthesis pathway in Saccharomyces cerevisiae. Molecular Microbiology, 2011, 82, 578-590.	2.5	11
52	Inhibition of Non-flux-Controlling Enzymes Deters Cancer Glycolysis by Accumulation of Regulatory Metabolites of Controlling Steps. Frontiers in Physiology, 2016, 7, 412.	2.8	9
53	Kinetic modeling of glucose central metabolism in hepatocytes and hepatoma cells. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129687.	2.4	9
54	Acetate Promotes a Differential Energy Metabolic Response in Human HCT 116 and COLO 205 Colon Cancer Cells Impacting Cancer Cell Growth and Invasiveness. Frontiers in Oncology, 2021, 11, 697408.	2.8	7

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55	Regulatory role of acetylation on enzyme activity and fluxes of energy metabolism pathways. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 130021.	2.4	6
56	The 2â€oxoglutarate supply exerts significant control on the lysine synthesis flux in <scp>S</scp>accharomycesÂcerevisiae. FEBS Journal, 2013, 280, 5737-5749.	4.7	5
57	Identification of a metabolic and canonical biomarker signature in Mexican HR+/HER2â˜, triple positive and triple-negative breast cancer patients. International Journal of Oncology, 2014, 45, 2549-2559.	3.3	5
58	Oxidized ATM protein kinase is a new signal transduction player that regulates glycolysis in CAFs as well as tumor growth and metastasis. EBioMedicine, 2019, 41, 24-25.	6.1	4
59	Protein acetylation effects on enzyme activity and metabolic pathway fluxes. Journal of Cellular Biochemistry, 2021, , .	2.6	4
60	Systems Biology Approaches to Cancer Energy Metabolism. Springer Series in Biophysics, 2014, , 213-239.	0.4	3
61	The intracellular water volume modulates the accumulation of cadmium in Euglena gracilis. Algal Research, 2020, 46, 101774.	4.6	3
62	The essential role of mitochondria in the consumption of waste-organic matter and production of metabolites of biotechnological interest in Euglena gracilis. Algal Research, 2021, 56, 102302.	4.6	3
63	FruBPase II and ADP-PFK1 are involved in the modulation of carbon flow in the metabolism of carbohydrates in Methanosarcina acetivorans. Archives of Biochemistry and Biophysics, 2019, 669, 39-49.	3.0	1
64	Estradiol and progesterone affect enzymes but not glucose consumption in a mink uterine cell line (GMMe). Bioscience Reports, 2020, 40, .	2.4	1