

Sara Rodriguez-Enriquez

List of Publications by Year in descending order

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77
papers

7,173
citations

109321

35
h-index

66911

78
g-index

78
all docs

78
docs citations

78
times ranked

12414
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective degradation of mitochondria by mitophagy. Archives of Biochemistry and Biophysics, 2007, 462, 245-253.	3.0	1,385
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	Tracker Dyes to Probe Mitochondrial Autophagy (Mitophagy) in Rat Hepatocytes. Autophagy, 2006, 2, 39-46.	9.1	316
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.	6.4	299
6	Role of mitochondrial permeability transition pores in mitochondrial autophagy. International Journal of Biochemistry and Cell Biology, 2004, 36, 2463-2472.	2.8	229
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	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
12	Suppression of Tumor Growth <i>In vivo</i> by the Mitocan Î±-tocopheryl Succinate Requires Respiratory Complex II. Clinical Cancer Research, 2009, 15, 1593-1600.	7.0	125
13	Energy metabolism transition in multi-cellular human tumor spheroids. Journal of Cellular Physiology, 2008, 216, 189-197.	4.1	121
14	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
15	Multisite control of the Crabtree effect in ascites hepatoma cells. FEBS Journal, 2001, 268, 2512-2519.	0.2	116
16	The bioenergetics of cancer: Is glycolysis the main ATP supplier in all tumor cells?. BioFactors, 2009, 35, 209-225.	5.4	116
17	Modeling cancer glycolysis. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 755-767.	1.0	115
18	Cas Igly Induces Apoptosis in Glioma C6 Cells In Vitro and In Vivo through Caspase-Dependent and Caspase-Independent Mechanisms. Neoplasia, 2005, 7, 563-574.	5.3	112

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19	Copper compound induces autophagy and apoptosis of glioma cells by reactive oxygen species and jnk activation. <i>BMC Cancer</i> , 2012, 12, 156.	2.6	109
20	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.	3.5	108
21	Targeting of cancer energy metabolism. <i>Molecular Nutrition and Food Research</i> , 2009, 53, 29-48.	3.3	105
22	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
23	Roles of mitophagy and the mitochondrial permeability transition in remodeling of cultured rat hepatocytes. <i>Autophagy</i> , 2009, 5, 1099-1106.	9.1	101
24	Kinetics of transport and phosphorylation of glucose in cancer cells. <i>Journal of Cellular Physiology</i> , 2009, 221, 552-559.	4.1	83
25	Metabolic control analysis indicates a change of strategy in the treatment of cancer. <i>Mitochondrion</i> , 2010, 10, 626-639.	3.4	77
26	Substrate Oxidation and ATP Supply in AS-30D Hepatoma Cells. <i>Archives of Biochemistry and Biophysics</i> , 2000, 375, 21-30.	3.0	74
27	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
28	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.	4.7	60
29	Modeling cancer glycolysis under hypoglycemia, and the role played by the differential expression of glycolytic isoforms. <i>FEBS Journal</i> , 2014, 281, 3325-3345.	4.7	55
30	Mitochondrial free fatty acid β -oxidation supports oxidative phosphorylation and proliferation in cancer cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 65, 209-221.	2.8	55
31	Anti-mitochondrial therapy in human breast cancer multi-cellular spheroids. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 541-551.	4.1	52
32	Celecoxib inhibits mitochondrial O ₂ 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
33	Phosphofructokinase type 1 kinetics, isoform expression, and gene polymorphisms in cancer cells. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 1692-1703.	2.6	48
34	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
35	Understanding the cancer cell phenotype beyond the limitations of current omics analyses. <i>FEBS Journal</i> , 2016, 283, 54-73.	4.7	38
36	Hitting the Bull's-Eye in Metastatic Cancers – NSAIDs Elevate ROS in Mitochondria, Inducing Malignant Cell Death. <i>Pharmaceuticals</i> , 2015, 8, 62-106.	3.8	37

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37	Transcriptional Regulation of Energy Metabolism in Cancer Cells. <i>Cells</i> , 2019, 8, 1225.	4.1	37
38	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
39	Enhanced alternative oxidase and antioxidant enzymes under Cd ²⁺ stress in <i>Euglena</i> . <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 227-235.	2.3	35
40	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.	4.1	35
41	Phytochelatin-cadmium-sulfide high-molecular-mass complexes of <i>Euglena gracilis</i> . <i>FEBS Journal</i> , 2006, 273, 5703-5713.	4.7	34
42	Energy Metabolism Drugs Block Triple Negative Breast Metastatic Cancer Cell Phenotype. <i>Molecular Pharmaceutics</i> , 2018, 15, 2151-2164.	4.6	34
43	Oxidative Phosphorylation as a Target to Arrest Malignant Neoplasias. <i>Current Medicinal Chemistry</i> , 2011, 18, 3156-3167.	2.4	33
44	Casiopeina II-gly and bromo-pyruvate inhibition of tumor hexokinase, glycolysis, and oxidative phosphorylation. <i>Archives of Toxicology</i> , 2012, 86, 753-766.	4.2	33
45	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
46	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.	1.0	32
47	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
48	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
49	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
50	NF- κ B is required for the development of tumor spheroids. <i>Journal of Cellular Biochemistry</i> , 2009, 108, 169-180.	2.6	25
51	Multi-biomarker pattern for tumor identification and prognosis. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 2703-2715.	2.6	25
52	Non-Steroidal Anti-Inflammatory Drugs Increase Cisplatin, Paclitaxel, and Doxorubicin Efficacy against Human Cervix Cancer Cells. <i>Pharmaceutics</i> , 2020, 13, 463.	3.8	25
53	Canonical and new generation anticancer drugs also target energy metabolism. <i>Archives of Toxicology</i> , 2014, 88, 1327-1350.	4.2	24
54	Mutant p53 ^{R248Q} 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

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55	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.	4.1	23
56	Post-conditioning Preserves Glycolytic ATP During Early Reperfusion: A survival Mechanism for the Reperfused Heart. <i>Cellular Physiology and Biochemistry</i> , 2008, 22, 635-644.	1.6	22
57	Hypoxia increases chemoresistance in human medulloblastoma DAOY cells via hypoxia-inducible factor 1 α -mediated downregulation of the CYP2B6, CYP3A4 and CYP3A5 enzymes and inhibition of cell proliferation. <i>Oncology Reports</i> , 2018, 41, 178-190.	2.6	22
58	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
59	Metabolic changes induced by cold stress in rat liver mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2001, 33, 289-301.	2.3	20
60	Glycoprotein Ib activation by thrombin stimulates the energy metabolism in human platelets. <i>PLoS ONE</i> , 2017, 12, e0182374.	2.5	19
61	On the mechanism by which 6-ketocholestanol protects mitochondria against uncoupling-induced Ca ²⁺ efflux. <i>FEBS Letters</i> , 1996, 379, 305-308.	2.8	16
62	Physiological Role of Glutamate Dehydrogenase in Cancer Cells. <i>Frontiers in Oncology</i> , 2020, 10, 429.	2.8	16
63	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
64	Heart myxoma develops oncogenic and metastatic phenotype. <i>Journal of Cancer Research and Clinical Oncology</i> , 2019, 145, 1283-1295.	2.5	10
65	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
66	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
67	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
68	On the properties of calcium-induced permeability transition in neonatal heart mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2011, 43, 757-764.	2.3	6
69	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
70	Identification of a metabolic and canonical biomarker signature in Mexican HR+/HER2 ⁺ , triple positive and triple-negative breast cancer patients. <i>International Journal of Oncology</i> , 2014, 45, 2549-2559.	3.3	5
71	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
72	Systems Biology Approaches to Cancer Energy Metabolism. <i>Springer Series in Biophysics</i> , 2014, , 213-239.	0.4	3

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73	The intracellular water volume modulates the accumulation of cadmium in <i>Euglena gracilis</i> . <i>Algal Research</i> , 2020, 46, 101774.	4.6	3
74	Curcumin promotes oxidative stress, apoptosis and autophagy in H9c2 rat cardiomyoblasts. <i>Molecular and Cellular Toxicology</i> , 2020, 16, 441-453.	1.7	3
75	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
76	High expression of both desmoplastic stroma and epithelial to mesenchymal transition markers associate with shorter survival in pancreatic ductal adenocarcinoma. <i>European Journal of Histochemistry</i> , 2022, 66, .	1.5	3
77	Editorial: Metabolic Plasticity of Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 599723.	2.8	1