

Silvia MarÃn

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,764
citations

331670

21
h-index

276875

41
g-index

52
all docs

52
docs citations

52
times ranked

3119
citing authors

#	ARTICLE	IF	CITATIONS
1	An Escape-Room about Krebs cycle prepared for Chemical Students. International Journal on Engineering, Science and Technology, 2022, 3, 155-164.	0.4	1
2	The Glycolytic Gatekeeper PDK1 defines different metabolic states between genetically distinct subtypes of human acute myeloid leukemia. Nature Communications, 2022, 13, 1105.	12.8	14
3	TKTL1 Knockdown Impairs Hypoxia-Induced Glucose-6-phosphate Dehydrogenase and Glyceraldehyde-3-phosphate Dehydrogenase Overexpression. International Journal of Molecular Sciences, 2022, 23, 3574.	4.1	7
4	Inhibition of the succinyl dehydrogenase complex in acute myeloid leukemia leads to a lactate-fuelled respiratory metabolic vulnerability. Nature Communications, 2022, 13, 2013.	12.8	22
5	Exploratory and confirmatory analysis to investigate the presence of vaginal metabolome expression of microbial invasion of the amniotic cavity in women with preterm labor using high-performance liquid chromatography. American Journal of Obstetrics and Gynecology, 2021, 224, 90.e1-90.e9.	1.3	5
6	Glutamine Modulates Expression and Function of Glucose 6-Phosphate Dehydrogenase via NRF2 in Colon Cancer Cells. Antioxidants, 2021, 10, 1349.	5.1	13
7	Genome-scale integration of transcriptome and metabolome unveils squalene synthase and dihydrofolate reductase as targets against AML cells resistant to chemotherapy. Computational and Structural Biotechnology Journal, 2021, 19, 4059-4066.	4.1	4
8	Cysteine and Folate Metabolism Are Targetable Vulnerabilities of Metastatic Colorectal Cancer. Cancers, 2021, 13, 425.	3.7	14
9	Metabolic Plasticity Is an Essential Requirement of Acquired Tyrosine Kinase Inhibitor Resistance in Chronic Myeloid Leukemia. Cancers, 2020, 12, 3443.	3.7	4
10	Metformin lowers glucose 6-phosphate in hepatocytes by activation of glycolysis downstream of glucose phosphorylation. Journal of Biological Chemistry, 2020, 295, 3330-3346.	3.4	22
11	Software Supporting a Workflow of Quantitative Dynamic Flux Maps Estimation in Central Metabolism from SIRM Experimental Data. Methods in Molecular Biology, 2020, 2088, 271-298.	0.9	3
12	Synthesis and Antiproliferative Activity of Novel A-Ring Cleaved Glycyrrhetic Acid Derivatives. Molecules, 2019, 24, 2938.	3.8	9
13	p13CMFA: Parsimonious 13C metabolic flux analysis. PLoS Computational Biology, 2019, 15, e1007310.	3.2	9
14	Synthesis and Antiproliferative Activity of Novel Heterocyclic Glycyrrhetic Acid Derivatives. Molecules, 2019, 24, 766.	3.8	14
15	Tracing metabolic fluxes using mass spectrometry: Stable isotope-resolved metabolomics in health and disease. TrAC - Trends in Analytical Chemistry, 2019, 120, 115371.	11.4	12
16	Epigenetic loss of the endoplasmic reticulum-associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. JCI Insight, 2019, 4, .	5.0	14
17	Untargeted metabolomics reveals distinct metabolic reprogramming in endothelial cells co-cultured with CSC and non-CSC prostate cancer cell subpopulations. PLoS ONE, 2018, 13, e0192175.	2.5	13
18	Model-driven discovery of long-chain fatty acid metabolic reprogramming in heterogeneous prostate cancer cells. PLoS Computational Biology, 2018, 14, e1005914.	3.2	22

#	ARTICLE	IF	CITATIONS
19	Combined Analysis of NMR and MS Spectra (CANMS). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4140-4144.	13.8	23
20	Combined Analysis of NMR and MS Spectra (CANMS). <i>Angewandte Chemie</i> , 2017, 129, 4204-4208.	2.0	3
21	MIDcor, an R-program for deciphering mass interferences in mass spectra of metabolites enriched in stable isotopes. <i>BMC Bioinformatics</i> , 2017, 18, 88.	2.6	12
22	Induction of oxidative metabolism by the p38 β /MK2 pathway. <i>Scientific Reports</i> , 2017, 7, 11367.	3.3	23
23	Unveiling the Metabolic Changes on Muscle Cell Metabolism Underlying p-Phenylenediamine Toxicity. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 8.	3.5	7
24	Glucose-6-phosphate dehydrogenase and transketolase modulate breast cancer cell metabolic reprogramming and correlate with poor patient outcome. <i>Oncotarget</i> , 2017, 8, 106693-106706.	1.8	62
25	HepatoDyn: A Dynamic Model of Hepatocyte Metabolism That Integrates 13C Isotopomer Data. <i>PLoS Computational Biology</i> , 2016, 12, e1004899.	3.2	14
26	Design, synthesis, and biological evaluation of novel asiatic acid derivatives as potential anticancer agents. <i>RSC Advances</i> , 2016, 6, 39296-39309.	3.6	4
27	Metabolic Reprogramming and Dependencies Associated with Epithelial Cancer Stem Cells Independent of the Epithelial-Mesenchymal Transition Program. <i>Stem Cells</i> , 2016, 34, 1163-1176.	3.2	77
28	Synthesis and biological evaluation of novel asiatic acid derivatives with anticancer activity. <i>RSC Advances</i> , 2016, 6, 3967-3985.	3.6	14
29	Synthesis and anticancer activity of novel fluorinated asiatic acid derivatives. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 101-117.	5.5	40
30	A key role for transketolase-like 1 in tumor metabolic reprogramming. <i>Oncotarget</i> , 2016, 7, 51875-51897.	1.8	43
31	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 2015, 11, 1587-1597.	3.0	140
32	13C metabolic flux analysis shows that resistin impairs the metabolic response to insulin in L6E9 myotubes. <i>BMC Systems Biology</i> , 2014, 8, 109.	3.0	6
33	Workforce preparation: the Biohealth computing model for Master and PhD students. <i>Journal of Translational Medicine</i> , 2014, 12, S11.	4.4	11
34	Epicatechin Gallate Impairs Colon Cancer Cell Metabolic Productivity. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4310-4317.	5.2	42
35	Target metabolomics revealed complementary roles of hexose- and pentose-phosphates in the regulation of carbohydrate-dependent gene expression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E234-E242.	3.5	19
36	Relevance of the MEK/ERK Signaling Pathway in the Metabolism of Activated Macrophages: A Metabolomic Approach. <i>Journal of Immunology</i> , 2012, 188, 1402-1410.	0.8	66

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37	Cyclin-dependent kinases 4 and 6 control tumor progression and direct glucose oxidation in the pentose cycle. <i>Metabolomics</i> , 2012, 8, 454-464.	3.0	25
38	New betulinic acid derivatives induce potent and selective antiproliferative activity through cell cycle arrest at the S phase and caspase dependent apoptosis in human cancer cells. <i>Biochimie</i> , 2011, 93, 1065-1075.	2.6	45
39	Compartmentation of glycogen metabolism revealed from ¹³ C isotopologue distributions. <i>BMC Systems Biology</i> , 2011, 5, 175.	3.0	23
40	Carbon metabolism and the sign of control coefficients in metabolic adaptations underlying K-ras transformation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 746-754.	1.0	18
41	Metabolic network adaptations in cancer as targets for novel therapies. <i>Biochemical Society Transactions</i> , 2010, 38, 1302-1306.	3.4	27
42	Synthesis and structure-activity relationship study of novel cytotoxic carbamate and N-acylheterocyclic bearing derivatives of betulin and betulinic acid. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4385-4396.	3.0	63
43	Novel semisynthetic derivatives of betulin and betulinic acid with cytotoxic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6241-6250.	3.0	115
44	Metabolomics and fluxomics approaches. <i>Essays in Biochemistry</i> , 2008, 45, 67-82.	4.7	112
45	Metabolic profile and quantification of deoxyribose synthesis pathways in HepG2 cells. <i>Metabolomics</i> , 2007, 3, 105-111.	3.0	9
46	Software for dynamic analysis of tracer-based metabolomic data: estimation of metabolic fluxes and their statistical analysis. <i>Bioinformatics</i> , 2006, 22, 2806-2812.	4.1	32
47	Dynamic profiling of the glucose metabolic network in fasted rat hepatocytes using [1,2- ¹³ C]glucose. <i>Biochemical Journal</i> , 2004, 381, 287-294.	3.7	48
48	Metabolic strategy of boar spermatozoa revealed by a metabolomic characterization. <i>FEBS Letters</i> , 2003, 554, 342-346.	2.8	123
49	Fermented Wheat Germ Extract Inhibits Glycolysis/Pentose Cycle Enzymes and Induces Apoptosis through Poly(ADP-ribose) Polymerase Activation in Jurkat T-cell Leukemia Tumor Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 46408-46414.	3.4	89
50	Wheat Germ Extract Decreases Glucose Uptake and RNA Ribose Formation but Increases Fatty Acid Synthesis in MIA Pancreatic Adenocarcinoma Cells. <i>Pancreas</i> , 2001, 23, 141-147.	1.1	57
51	Gleevec (STI571) Influences Metabolic Enzyme Activities and Glucose Carbon Flow toward Nucleic Acid and Fatty Acid Synthesis in Myeloid Tumor Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 37747-37753.	3.4	166