Silvia MarÃn

List of Publications by Year
in descending order

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51	1,764	331670 21	276875 41
papers	citations	h-index	g-index

52	52	52	3119
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gleevec (STI571) Influences Metabolic Enzyme Activities and Glucose Carbon Flow toward Nucleic Acid and Fatty Acid Synthesis in Myeloid Tumor Cells. Journal of Biological Chemistry, 2001, 276, 37747-37753.	3.4	166
2	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	3.0	140
3	Metabolic strategy of boar spermatozoa revealed by a metabolomic characterization. FEBS Letters, 2003, 554, 342-346.	2.8	123
4	Novel semisynthetic derivatives of betulin and betulinic acid with cytotoxic activity. Bioorganic and Medicinal Chemistry, 2009, 17, 6241-6250.	3.0	115
5	Metabolomics and fluxomics approaches. Essays in Biochemistry, 2008, 45, 67-82.	4.7	112
6	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. Journal of Biological Chemistry, 2002, 277, 46408-46414.	3.4	89
7	Metabolic Reprogramming and Dependencies Associated with Epithelial Cancer Stem Cells Independent of the Epithelial-Mesenchymal Transition Program. Stem Cells, 2016, 34, 1163-1176.	3.2	77
8	Relevance of the MEK/ERK Signaling Pathway in the Metabolism of Activated Macrophages: A Metabolomic Approach. Journal of Immunology, 2012, 188, 1402-1410.	0.8	66
9	Synthesis and structureâ€“activity relationship study of novel cytotoxic carbamate and N-acylheterocyclic bearing derivatives of betulin and betulinic acid. Bioorganic and Medicinal Chemistry, 2010, 18, 4385-4396.	3.0	63
10	Glucose-6-phosphate dehydrogenase and transketolase modulate breast cancer cell metabolic reprogramming and correlate with poor patient outcome. Oncotarget, 2017, 8, 106693-106706.	1.8	62
11	Wheat Germ Extract Decreases Glucose Uptake and RNA Ribose Formation but Increases Fatty Acid Synthesis in MIA Pancreatic Adenocarcinoma Cells. Pancreas, 2001, 23, 141-147.	1.1	57
12	Dynamic profiling of the glucose metabolic network in fasted rat hepatocytes using [1,2-13C2]glucose. Biochemical Journal, 2004, 381, 287-294.	3.7	48
13	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. Biochimie, 2011, 93, 1065-1075.	2.6	45
14	A key role for transketolase-like 1 in tumor metabolic reprogramming. Oncotarget, 2016, 7, 51875-51897.	1.8	43
15	Epicatechin Gallate Impairs Colon Cancer Cell Metabolic Productivity. Journal of Agricultural and Food Chemistry, 2013, 61, 4310-4317.	5.2	42
16	Synthesis and anticancer activity of novel fluorinated asiatic acid derivatives. European Journal of Medicinal Chemistry, 2016, 114, 101-117.	5.5	40
17	Software for dynamic analysis of tracer-based metabolomic data: estimation of metabolic fluxes and their statistical analysis. Bioinformatics, 2006, 22, 2806-2812.	4.1	32
18	Metabolic network adaptations in cancer as targets for novel therapies. Biochemical Society Transactions, 2010, 38, 1302-1306.	3.4	27

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19	Cyclin-dependent kinases 4 and 6 control tumor progression and direct glucose oxidation in the pentose cycle. Metabolomics, 2012, 8, 454-464.	3.0	25
20	Compartmentation of glycogen metabolism revealed from 13C isotopologue distributions. BMC Systems Biology, 2011, 5, 175.	3.0	23
21	Combined Analysis of NMR and MS Spectra (CANMS). Angewandte Chemie - International Edition, 2017, 56, 4140-4144.	13.8	23
22	Induction of oxidative metabolism by the p38Î±/MK2 pathway. Scientific Reports, 2017, 7, 11367.	3.3	23
23	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
24	Model-driven discovery of long-chain fatty acid metabolic reprogramming in heterogeneous prostate cancer cells. PLoS Computational Biology, 2018, 14, e1005914.	3.2	22
25	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
26	Target metabolomics revealed complementary roles of hexose- and pentose-phosphates in the regulation of carbohydrate-dependent gene expression. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E234-E242.	3.5	19
27	Carbon metabolism and the sign of control coefficients in metabolic adaptations underlying K-ras transformation. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 746-754.	1.0	18
28	HepatoDyn: A Dynamic Model of Hepatocyte Metabolism That Integrates 13C Isotopomer Data. PLoS Computational Biology, 2016, 12, e1004899.	3.2	14
29	Synthesis and biological evaluation of novel asiatic acid derivatives with anticancer activity. RSC Advances, 2016, 6, 3967-3985.	3.6	14
30	Synthesis and Antiproliferative Activity of Novel Heterocyclic Glycyrrhetinic Acid Derivatives. Molecules, 2019, 24, 766.	3.8	14
31	Cysteine and Folate Metabolism Are Targetable Vulnerabilities of Metastatic Colorectal Cancer. Cancers, 2021, 13, 425.	3.7	14
32	Epigenetic loss of the endoplasmic reticulumâ€“associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. JCI Insight, 2019, 4, .	5.0	14
33	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
34	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
35	Glutamine Modulates Expression and Function of Glucose 6-Phosphate Dehydrogenase via NRF2 in Colon Cancer Cells. Antioxidants, 2021, 10, 1349.	5.1	13
36	MIDcor, an R-program for deciphering mass interferences in mass spectra of metabolites enriched in stable isotopes. BMC Bioinformatics, 2017, 18, 88.	2.6	12

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37	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
38	Workforce preparation: the Biohealth computing model for Master and PhD students. Journal of Translational Medicine, 2014, 12, S11.	4.4	11
39	Metabolic profile and quantification of deoxyribose synthesis pathways in HepG2 cells. Metabolomics, 2007, 3, 105-111.	3.0	9
40	Synthesis and Antiproliferative Activity of Novel A-Ring Cleaved Glycyrrhetinic Acid Derivatives. Molecules, 2019, 24, 2938.	3.8	9
41	p13CMFA: Parsimonious 13C metabolic flux analysis. PLoS Computational Biology, 2019, 15, e1007310.	3.2	9
42	Unveiling the Metabolic Changes on Muscle Cell Metabolism Underlying p-Phenylenediamine Toxicity. Frontiers in Molecular Biosciences, 2017, 4, 8.	3.5	7
43	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
44	13C metabolic flux analysis shows that resistin impairs the metabolic response to insulin in L6E9 myotubes. BMC Systems Biology, 2014, 8, 109.	3.0	6
45	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
46	Design, synthesis, and biological evaluation of novel asiatic acid derivatives as potential anticancer agents. RSC Advances, 2016, 6, 39296-39309.	3.6	4
47	Metabolic Plasticity Is an Essential Requirement of Acquired Tyrosine Kinase Inhibitor Resistance in Chronic Myeloid Leukemia. Cancers, 2020, 12, 3443.	3.7	4
48	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
49	Combined Analysis of NMR and MS Spectra (CANMS). Angewandte Chemie, 2017, 129, 4204-4208.	2.0	3
50	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
51	An Escape-Room about Krebs cycle prepared for Chemical Students. International Journal on Engineering, Science and Technology, 2022, 3, 155-164.	0.4	1