## Marta Cascante Serratosa

List of Publications by Year in descending order

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313 papers

13,180 citations

23567 58 h-index 97 g-index

322 all docs 322 docs citations

times ranked

322

18947 citing authors

#	Article	IF	Citations
1	Substrate Fate in Activated Macrophages: A Comparison between Innate, Classic, and Alternative Activation. Journal of Immunology, 2010, 185, 605-614.	0.8	820
2	A key role for mitochondrial gatekeeper pyruvate dehydrogenase in oncogene-induced senescence. Nature, 2013, 498, 109-112.	27.8	517
3	Metabolomics enables precision medicine: "A White Paper, Community Perspective― Metabolomics, 2016, 12, 149.	3.0	434
4	Partial and Transient Reduction of Glycolysis by PFKFB3 Blockade Reduces Pathological Angiogenesis. Cell Metabolism, 2014, 19, 37-48.	16.2	429
5	Targeting cell cycle regulation in cancer therapy. , 2013, 138, 255-271.		284
6	Metabolic control analysis in drug discovery and disease. Nature Biotechnology, 2002, 20, 243-249.	17.5	270
7	Oxythiamine and dehydroepiandrosterone inhibit the nonoxidative synthesis of ribose and tumor cell proliferation. Cancer Research, 1997, 57, 4242-8.	0.9	206
8	Valorization of Grape (Vitis vinifera) Byproducts. Antioxidant and Biological Properties of Polyphenolic Fractions Differing in Procyanidin Composition and Flavonol Content. Journal of Agricultural and Food Chemistry, 2002, 50, 7548-7555.	<b>5.</b> 2	192
9	Maslinic acid, a natural triterpene from Olea europaea L., induces apoptosis in HT29 human colon-cancer cells via the mitochondrial apoptotic pathway. Cancer Letters, 2009, 273, 44-54.	7.2	177
10	The puzzle of the Krebs citric acid cycle: Assembling the pieces of chemically feasible reactions, and opportunism in the design of metabolic pathways during evolution. Journal of Molecular Evolution, 1996, 43, 293-303.	1,8	169
11	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
12	Oxythiamine and dehydroepiandrosterone induce a G1phase cycle arrest in Ehrlich's tumor cells through inhibition of the pentose cycle. FEBS Letters, 1999, 456, 113-118.	2.8	164
13	The effect of thiamine supplementation on tumour proliferation. FEBS Journal, 2001, 268, 4177-4182.	0.2	152
14	From correlation to causation: analysis of metabolomics data using systems biology approaches. Metabolomics, 2018, 14, 37.	3.0	151
15	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597.	3.0	140
16	Metabolic profiling of cell growth and death in cancer: applications in drug discovery. Drug Discovery Today, 2002, 7, 364-372.	6.4	133
17	Reactive Oxygen Species Production by Forward and Reverse Electron Fluxes in the Mitochondrial Respiratory Chain. PLoS Computational Biology, 2011, 7, e1001115.	3.2	133
18	Mass isotopomer study of the nonoxidative pathways of the pentose cycle with [1,2-13C2]glucose. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E843-E851.	3 <b>.</b> 5	123

#	Article	IF	CITATIONS
19	Metabolic strategy of boar spermatozoa revealed by a metabolomic characterization. FEBS Letters, 2003, 554, 342-346.	2.8	123
20	The Role of External and Matrix pH in Mitochondrial Reactive Oxygen Species Generation. Journal of Biological Chemistry, 2008, 283, 29292-29300.	3.4	121
21	Pentose phosphate cycle oxidative and nonoxidative balance: A new vulnerable target for overcoming drug resistance in cancer. International Journal of Cancer, 2006, 119, 2733-2741.	5.1	119
22	Preanalytical Processing and Biobanking Procedures of Biological Samples for Metabolomics Research: A White Paper, Community Perspective (for "Precision Medicine and Pharmacometabolomics) Tj ETÇ	<b>)¢0</b> 200 rg	B <b>T</b> 1/Overlock
23	Oncogenic regulation of tumor metabolic reprogramming. Oncotarget, 2016, 7, 62726-62753.	1.8	116
24	Novel semisynthetic derivatives of betulin and betulinic acid with cytotoxic activity. Bioorganic and Medicinal Chemistry, 2009, 17, 6241-6250.	3.0	115
25	Metabolomics and fluxomics approaches. Essays in Biochemistry, 2008, 45, 67-82.	4.7	112
26	K-ras Codon-Specific Mutations Produce Distinctive Metabolic Phenotypes in Human Fibroblasts. Cancer Research, 2005, 65, 5512-5515.	0.9	110
27	(2α,3β)â€2,3â€Dihydroxyoleanâ€12â€enâ€28â€oic acid, a new natural triterpene from <i>Olea europea</i> , indicaspase dependent apoptosis selectively in colon adenocarcinoma cells. FEBS Letters, 2006, 580, 6302-6310.	uces 2.8	109
28	Procyanidin Fractions from Pine (Pinus pinaster) Bark:Â Radical Scavenging Power in Solution, Antioxidant Activity in Emulsion, and Antiproliferative Effect in Melanoma Cells. Journal of Agricultural and Food Chemistry, 2005, 53, 4728-4735.	5.2	106
29	Nonoxidative pentose phosphate pathways and their direct role in ribose synthesis in tumors: is cancer a disease of cellular glucose metabolism?. Medical Hypotheses, 1998, 50, 55-59.	1.5	103
30	The natural triterpene maslinic acid induces apoptosis in HT29 colon cancer cells by a JNK-p53-dependent mechanism. BMC Cancer, 2011, 11, 154.	2.6	99
31	Antiproliferative effect of antioxidant polyphenols from grape in murine Hepa-1c1c7. European Journal of Nutrition, 2003, 42, 43-49.	3.9	90
32	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
33	Muscle and blood redox status after exercise training in severe COPD patients. Free Radical Biology and Medicine, 2012, 52, 88-94.	2.9	89
34	The Puzzle of the Krebs Citric Acid Cycle: Assembling the Pieces of Chemically Feasible Reactions, and Opportunism in the Design of Metabolic Pathways During Evolution. Journal of Molecular Evolution, 1996, 43, 293-303.	1.8	88
35	Bistability from double phosphorylation in signal transduction. FEBS Journal, 2006, 273, 3915-3926.	4.7	87
36	Modulation of pentose phosphate pathway during cell cycle progression in human colon adenocarcinoma cell line HT29. International Journal of Cancer, 2009, 124, 2789-2796.	5.1	84

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37	Cellular Plasticity Confers Migratory and Invasive Advantages to a Population of Glioblastoma-Initiating Cells that Infiltrate Peritumoral Tissue. Stem Cells, 2013, 31, 1075-1085.	3.2	83
38	Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. II. complex systems. Mathematical Biosciences, 1989, 94, 289-309.	1.9	79
39	Relationships between inhibition constants, inhibitor concentrations for 50% inhibition and types of inhibition: new ways of analysing data. Biochemical Journal, 2001, 357, 263.	3.7	79
40	Comparative characterization of the fermentation pathway of Saccharomyces cerevisiae using biochemical systems theory and metabolic control analysis: Model definition and nomenclature. Mathematical Biosciences, 1995, 130, 25-50.	1.9	77
41	Characterization of the metabolic changes underlying growth factor angiogenic activation: identification of new potential therapeutic targets. Carcinogenesis, 2009, 30, 946-952.	2.8	77
42	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
43	Metabolic sensitivity of pancreatic tumour cell apoptosis to glycogen phosphorylase inhibitor treatment. British Journal of Cancer, 2004, 91, 2094-2100.	6.4	76
44	Platinum(II) and palladium(II) complexes with (N,N $\hat{a}$ = 2) and (C,N,N $\hat{a}$ = 2) $\hat{a}$ ligands derived from pyrazole as anticancer and antimalarial agents: Synthesis, characterization and in vitro activities. Journal of Inorganic Biochemistry, 2011, 105, 1720-1728.	3.5	75
45	Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. I. unbranched pathways. Mathematical Biosciences, 1989, 94, 271-288.	1.9	74
46	How did glycogen structure evolve to satisfy the requirement for rapid mobilization of glucose? A problem of physical constraints in structure building. Journal of Molecular Evolution, 1997, 45, 446-455.	1.8	74
47	Role of Thiamin (Vitamin B-1) and Transketolase in Tumor Cell Proliferation. Nutrition and Cancer, 2000, 36, 150-154.	2.0	73
48	Mathematical models of purine metabolism in man. Mathematical Biosciences, 1998, 151, 1-49.	1.9	72
49	Cysteinyl-flavan-3-ol Conjugates from Grape Procyanidins. Antioxidant and Antiproliferative Properties. Bioorganic and Medicinal Chemistry, 2002, 10, 2497-2509.	3.0	72
50	The Stable Isotope-based Dynamic Metabolic Profile of Butyrate-induced HT29 Cell Differentiation. Journal of Biological Chemistry, 2003, 278, 28395-28402.	3.4	71
51	Transforming growth factor beta2 promotes glucose carbon incorporation into nucleic acid ribose through the nonoxidative pentose cycle in lung epithelial carcinoma cells. Cancer Research, 2000, 60, 1183-5.	0.9	71
52	Multicriteria optimization of biochemical systems by linear programming: Application to production of ethanol by Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2003, 83, 335-343.	3.3	70
53	A Systems Biology Approach Identifies Molecular Networks Defining Skeletal Muscle Abnormalities in Chronic Obstructive Pulmonary Disease. PLoS Computational Biology, 2011, 7, e1002129.	3.2	66
54	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

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55	Ferrocene–indole hybrids for cancer and malaria therapy. Journal of Organometallic Chemistry, 2011, 696, 1011-1017.	1.8	65
56	Synthesis and structure–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
57	Product dependence and bifunctionality compromise the ultrasensitivity of signal transduction cascades. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1170-1175.	7.1	62
58	Highly Galloylated Tannin Fractions from Witch Hazel ( <i>Hamamelis virginiana</i> ) Bark: Electron Transfer Capacity, In Vitro Antioxidant Activity, and Effects on Skin-Related Cells. Chemical Research in Toxicology, 2008, 21, 696-704.	3.3	62
59	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
60	Effect of crowding by Dextrans in enzymatic reactions. Biophysical Chemistry, 2014, 185, 8-13.	2.8	61
61	Effect of Crowding by Dextrans on the Hydrolysis of <i>N</i> -nitroanilide Catalyzed by α-Chymotrypsin. Journal of Physical Chemistry B, 2011, 115, 1115-1121.	2.6	60
62	PhenoMeNal: processing and analysis of metabolomics data in the cloud. GigaScience, 2019, 8, .	6.4	60
63	K-ras Asp12 mutant neither interacts with Raf, nor signals through Erk and is less tumorigenic than K-ras Val12. Carcinogenesis, 2006, 27, 2190-2200.	2.8	58
64	Bistability of Mitochondrial Respiration Underlies Paradoxical Reactive Oxygen Species Generation Induced by Anoxia. PLoS Computational Biology, 2009, 5, e1000619.	3.2	58
65	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
66	Defective RNA ribose synthesis in fibroblasts from patients with thiamine-responsive megaloblastic anemia (TRMA). Blood, 2003, 102, 3556-3561.	1.4	57
67	Analysis of abnormalities in purine metabolism leading to gout and to neurological dysfunctions in man. Biochemical Journal, 1998, 329, 477-487.	3.7	54
68	Macromolecular Crowding Effect upon <i>in Vitro</i> Enzyme Kinetics: Mixed Activation–Diffusion Control of the Oxidation of NADH by Pyruvate Catalyzed by Lactate Dehydrogenase. Journal of Physical Chemistry B, 2014, 118, 4062-4068.	2.6	54
69	Knowledge management for Systems Biology a general and visually driven framework applied to translational medicine. BMC Systems Biology, 2011, 5, 38.	3.0	52
70	Validation and steady-state analysis of a power-law model of purine metabolism in man. Biochemical Journal, 1997, 324, 761-775.	3.7	51
71	Transketolase-Like 1 Expression Is Modulated during Colorectal Cancer Progression and Metastasis Formation. PLoS ONE, 2011, 6, e25323.	2.5	50
72	Cells overexpressing fructose-2,6-bisphosphatase showed enhanced pentose phosphate pathway flux and resistance to oxidative stress. FEBS Letters, 2000, 480, 261-264.	2.8	49

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73	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
74	Cytotoxicity and genotoxicity of capsaicin in human neuroblastoma cells SHSY-5Y. Archives of Toxicology, 1999, 73, 403-409.	4.2	47
75	A quinoxaline 1,4-di-N-oxide derivative induces DNA oxidative damage not attenuated by vitamin C and E treatment. Chemico-Biological Interactions, 2007, 168, 95-105.	4.0	47
76	Metabolomics: The Stethoscope for the Twenty-First Century. Medical Principles and Practice, 2021, 30, 301-310.	2.4	46
77	Maslinic Acid-Enriched Diet Decreases Intestinal Tumorigenesis in ApcMin/+ Mice through Transcriptomic and Metabolomic Reprogramming. PLoS ONE, 2013, 8, e59392.	2.5	46
78	Metabolites in Contact with the Rat Digestive Tract after Ingestion of a Phenolic-Rich Dietary Fiber Matrix. Journal of Agricultural and Food Chemistry, 2011, 59, 5955-5963.	5.2	45
79	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
80	Physical Constraints in the Synthesis of Glycogen That Influence Its Structural Homogeneity: A Two-Dimensional Approach. Biophysical Journal, 1998, 75, 106-114.	0.5	44
81	Mathematical Modeling of Polyamine Metabolism in Mammals*. Journal of Biological Chemistry, 2006, 281, 21799-21812.	3.4	44
82	A Lyophilized Red Grape Pomace Containing Proanthocyanidin-Rich Dietary Fiber Induces Genetic and Metabolic Alterations in Colon Mucosa of Female C57BL/6J Mice. Journal of Nutrition, 2011, 141, 1597-1604.	2.9	44
83	Elevated activity of the oxidative and nonâ€oxidative pentose phosphate pathway in (pre)neoplastic lesions in rat liver. International Journal of Experimental Pathology, 2008, 89, 232-240.	1.3	43
84	<i>De novo</i> <scp>MYC</scp> addiction as an adaptive response of cancer cells to <scp>CDK</scp> 4/6 inhibition. Molecular Systems Biology, 2017, 13, 940.	7.2	43
85	Maslinic Acid, a Natural Triterpene, Induces a Death Receptor-Mediated Apoptotic Mechanism in Caco-2 p53-Deficient Colon Adenocarcinoma Cells. PLoS ONE, 2016, 11, e0146178.	2.5	43
86	A key role for transketolase-like 1 in tumor metabolic reprogramming. Oncotarget, 2016, 7, 51875-51897.	1.8	43
87	Highâ€resolution liquid chromatography/electrospray ionization timeâ€ofâ€flight mass spectrometry combined with liquid chromatography/electrospray ionization tandem mass spectrometry to identify polyphenols from grape antioxidant dietary fiber. Rapid Communications in Mass Spectrometry, 2008, 22, 3489-3500.	1.5	42
88	Epicatechin Gallate Impairs Colon Cancer Cell Metabolic Productivity. Journal of Agricultural and Food Chemistry, 2013, 61, 4310-4317.	5.2	42
89	Methylseleninic acid promotes antitumour effects via nuclear FOXO3a translocation through Akt inhibition. Pharmacological Research, 2015, 102, 218-234.	7.1	42
90	A model of the pentose phosphate pathway in rat liver cells. Molecular and Cellular Biochemistry, 1995, 142, 9-17.	3.1	41

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91	An optimized algorithm for flux estimation from isotopomer distribution in glucose metabolites. Bioinformatics, 2004, 20, 3387-3397.	4.1	41
92	Recent advances in the study of epigenetic effects induced by the phycotoxin okadaic acid. Toxicology, 2002, 181-182, 433-439.	4.2	40
93	Synthesis and anticancer activity of novel fluorinated asiatic acid derivatives. European Journal of Medicinal Chemistry, 2016, 114, 101-117.	<b>5.</b> 5	40
94	Witch Hazel (Hamamelis virginiana) Fractions and the Importance of Gallate Moieties—Electron Transfer Capacities in Their Antitumoral Properties. Journal of Agricultural and Food Chemistry, 2008, 56, 11675-11682.	5.2	38
95	Grape antioxidant dietary fiber inhibits intestinal polyposis in Apc Min/+ mice: relation to cell cycle and immune response. Carcinogenesis, 2013, 34, 1881-1888.	2.8	38
96	ChainRank, a chain prioritisation method for contextualisation of biological networks. BMC Bioinformatics, 2016, 17, 17.	2.6	38
97	Mathematical modelling of the urea cycle. FEBS Journal, 2003, 270, 3953-3961.	0.2	37
98	Effect of new antioxidant cysteinyl-flavanol conjugates on skin cancer cells. FEBS Letters, 2005, 579, 4219-4225.	2.8	37
99	Seven-membered cycloplatinated complexes as a new family of anticancer agents. X-ray characterization and preliminary biological studies. European Journal of Medicinal Chemistry, 2012, 54, 557-566.	5 <b>.</b> 5	37
100	Plasma metabolic profile in COPD patients: effects of exercise and endurance training. Metabolomics, 2012, 8, 508-516.	3.0	37
101	Antitumour activity on extrinsic apoptotic targets of the triterpenoid maslinic acid in p53-deficient Caco-2 adenocarcinoma cells. Biochimie, 2013, 95, 2157-2167.	2.6	37
102	Metabolic design: How to engineer a living cell to desired metabolite concentrations and fluxes. Biotechnology and Bioengineering, 1998, 59, 239-247.	3.3	36
103	Thiamine supplementation to cancer patients: a double edged sword. Anticancer Research, 1998, 18, 595-602.	1.1	36
104	Organization-dependent effects of toxic bivalent ions. FEBS Journal, 2000, 267, 4731-4739.	0.2	35
105	Rapid simulation and analysis of isotopomer distributions using constraints based on enzyme mechanisms: an example from HT29 cancer cells. Bioinformatics, 2005, 21, 3558-3564.	4.1	35
106	Diffusion of α-Chymotrypsin in Solution-Crowded Media. A Fluorescence Recovery after Photobleaching Study. Journal of Physical Chemistry B, 2010, 114, 4028-4034.	2.6	35
107	Hamamelitannin from Witch Hazel <i>(Hamamelis virginiana</i> ) Displays Specific Cytotoxic Activity against Colon Cancer Cells. Journal of Natural Products, 2012, 75, 26-33.	3.0	35
108	A novel cyclometallated Pt(ii)–ferrocene complex induces nuclear FOXO3a localization and apoptosis and synergizes with cisplatin to inhibit lung cancer cell proliferation. Metallomics, 2014, 6, 622.	2.4	35

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109	Comparative characterization of the fermentation pathway of Saccharomyces cerevisiae using biochemical systems theory and metabolic control analysis: Model validation and dynamic behavior. Mathematical Biosciences, 1995, 130, 71-84.	1.9	34
110	Chronic Obstructive Pulmonary Disease heterogeneity: challenges for health risk assessment, stratification and management. Journal of Translational Medicine, 2014, 12, S3.	4.4	34
111	Optimization of xanthatin extraction from Xanthium spinosum L. and its cytotoxic, anti-angiogenesis and antiviral properties. European Journal of Medicinal Chemistry, 2015, 90, 491-496.	5.5	34
112	Occurrence and comparison of sulfite oxidase activity in mammalian tissues. Biochemical Medicine and Metabolic Biology, 1990, 43, 159-162.	0.7	33
113	Composite control of cell function: metabolic pathways behaving as single control units. FEBS Letters, 1995, 368, 1-4.	2.8	33
114	Metabolic control analysis aimed at the ribose synthesis pathways of tumor cells: a new strategy for antitumor drug development. Molecular Biology Reports, 2002, 29, 7-12.	2.3	33
115	Quantitative characterization of homo- and heteroassociations of muscle phosphofructokinase with aldolase. BBA - Proteins and Proteomics, 2000, 1479, 303-314.	2.1	32
116	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
117	Detection of potential enzyme targets by metabolic modelling and optimization: Application to a simple enzymopathy. Bioinformatics, 2007, 23, 2281-2289.	4.1	32
118	Histone deacetylase inhibition results in a common metabolic profile associated with HT29 differentiation. Metabolomics, 2010, 6, 229-237.	3.0	32
119	Inhibition of the oxidative and nonoxidative pentose phosphate pathways by somatostatin: a possible mechanism of antitumor action. Medical Hypotheses, 1998, 50, 501-506.	1.5	31
120	Diastereomerically pure platinum(II) complexes as antitumoral agents Journal of Inorganic Biochemistry, 2013, 118, 1-12.	3.5	30
121	Comparative characterization of the fermentation pathway of Saccharomyces cerevisiae using biochemical systems theory and metabolic control analysis: Steady-state analysis. Mathematical Biosciences, 1995, 130, 51-69.	1.9	29
122	Phenolic Metabolites of Grape Antioxidant Dietary Fiber in Rat Urine. Journal of Agricultural and Food Chemistry, 2009, 57, 11418-11426.	5.2	28
123	Effects of Cadmium and Mercury on the Upper Part of Skeletal Muscle Glycolysis in Mice. PLoS ONE, 2014, 9, e80018.	2.5	28
124	Quantitative Proteomic Approach to Understand Metabolic Adaptation in Non-Small Cell Lung Cancer. Journal of Proteome Research, 2014, 13, 4695-4704.	3.7	28
125	Tumor-associated metabolic and inflammatory responses in early stage non-small cell lung cancer: Local patterns and prognostic significance. Lung Cancer, 2018, 122, 124-130.	2.0	28
126	Robust metabolic adaptation underlying tumor progression. Metabolomics, 2008, 4, 1-12.	3.0	27

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127	Metabolic network adaptations in cancer as targets for novel therapies. Biochemical Society Transactions, 2010, 38, 1302-1306.	3.4	27
128	Protective Effect of Structurally Diverse Grape Procyanidin Fractions against UV-Induced Cell Damage and Death. Journal of Agricultural and Food Chemistry, 2011, 59, 4489-4495.	5.2	27
129	Control theory of metabolic channelling. Molecular and Cellular Biochemistry, 1995, 143, 151-168.	3.1	26
130	Combined Enhancement of Microtubule Assembly and Glucose Metabolism in Neuronal Systems in Vitro: Decreased Sensitivity to Copper Toxicity. Biochemical and Biophysical Research Communications, 1999, 264, 605-610.	2.1	26
131	Modeling of Spatial Metabolite Distributions in the Cardiac Sarcomere. Biophysical Journal, 2007, 92, 3492-3500.	0.5	26
132	The COPD Knowledge Base: enabling data analysis and computational simulation in translational COPD research. Journal of Translational Medicine, 2014, 12, S6.	4.4	26
133	Neutral and ionic platinum compounds containing a cyclometallated chiral primary amine: synthesis, antitumor activity, DNA interaction and topoisomerase l–cathepsin B inhibition. Dalton Transactions, 2015, 44, 13602-13614.	3.3	26
134	Antitumoral Effect of Phenazine $\langle i \rangle N \langle  i \rangle \langle \sup \rangle 5 \langle  sup \rangle, \langle i \rangle N \langle  i \rangle \langle \sup \rangle 10 \langle  sup \rangle$ -Dioxide Derivatives on Caco-2 Cells. Chemical Research in Toxicology, 2008, 21, 1578-1585.	3.3	25
135	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
136	Exploring the Scope of [Pt <sub>2</sub> (4-FC <sub>6</sub> H <sub>4</sub> ) <sub>4</sub> (ν-SEt <sub>2</sub> ) <sub>2</sub> ] as a Precursor for New Organometallic Platinum(II) and Platinum(IV) Antitumor Agents. Organometallics, 2014, 33, 1740-1750.	2.3	25
137	Design, synthesis and biological evaluation of novel C-29 carbamate celastrol derivatives as potent and selective cytotoxic compounds. European Journal of Medicinal Chemistry, 2017, 139, 836-848.	<b>5.</b> 5	25
138	Metabolic Plasticity and Epithelial-Mesenchymal Transition. Journal of Clinical Medicine, 2019, 8, 967.	2.4	25
139	Electron-transfer capacity of catechin derivatives and influence on the cell cycle and apoptosis in HT29 cells. FEBS Journal, 2006, 273, 2475-2486.	4.7	24
140	Study of benzo[a]phenazine 7,12-dioxide as selective hypoxic cytotoxin-scaffold. Identification of aerobic-antitumoral activity through DNA fragmentation. Bioorganic and Medicinal Chemistry, 2010, 18, 4433-4440.	3.0	24
141	Comparison of control analysis data using different approaches: modelling and experiments with muscle extract. FEBS Letters, 1997, 418, 47-52.	2.8	23
142	Application of metabolic control analysis to the study of toxic effects of copper in muscle glycolysis. FEBS Letters, 1999, 445, 144-148.	2.8	23
143	Imatinib and Chronic-Phase Leukemias. New England Journal of Medicine, 2002, 347, 67-68.	27.0	23
144	Use of metabolic pathway flux information in targeted cancer drug design. Drug Discovery Today: Therapeutic Strategies, 2004, 1, 435-443.	0.5	23

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145	Improved Localization of Glucose-6-phosphate Dehydrogenase Activity in Cells with 5-Cyano-2, 3-ditolyl-tetrazolium Chloride as Fluorescent Redox Dye Reveals its Cell Cycle-dependent Regulation. Journal of Histochemistry and Cytochemistry, 2006, 54, 47-52.	2.5	23
146	Compartmentation of glycogen metabolism revealed from 13C isotopologue distributions. BMC Systems Biology, 2011, 5, 175.	3.0	23
147	Systems Medicine: from molecular features and models to the clinic in COPD. Journal of Translational Medicine, 2014, 12, S4.	4.4	23
148	Combined Analysis of NMR and MS Spectra (CANMS). Angewandte Chemie - International Edition, 2017, 56, 4140-4144.	13.8	23
149	Induction of oxidative metabolism by the p38î±/MK2 pathway. Scientific Reports, 2017, 7, 11367.	3.3	23
150	MicroRNA-200, associated with metastatic breast cancer, promotes traits of mammary luminal progenitor cells. Oncotarget, 2017, 8, 83384-83406.	1.8	23
151	In Situ Localization of Transketolase Activity in Epithelial Cells of Different Rat Tissues and Subcellularly in Liver Parenchymal Cells. Journal of Histochemistry and Cytochemistry, 2006, 54, 191-199.	2.5	22
152	Pt(II) complexes with (N,N′) or (C,N,E)â^' (E=N,S) ligands: Cytotoxic studies, effect on DNA tertiary structure and structure–activity relationships. Bioorganic and Medicinal Chemistry, 2013, 21, 4210-4217.	3.0	22
153	Cancer cell metabolism as new targets for novel designed therapies. Future Medicinal Chemistry, 2014, 6, 1791-1810.	2.3	22
154	Novel celastrol derivatives with improved selectivity and enhanced antitumour activity: Design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2017, 138, 422-437.	5 <b>.</b> 5	22
155	Network modules uncover mechanisms of skeletal muscle dysfunction in COPD patients. Journal of Translational Medicine, 2018, 16, 34.	4.4	22
156	Interoperable and scalable data analysis with microservices: applications in metabolomics. Bioinformatics, 2019, 35, 3752-3760.	4.1	22
157	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
158	Model-driven discovery of long-chain fatty acid metabolic reprogramming in heterogeneous prostate cancer cells. PLoS Computational Biology, 2018, 14, e1005914.	3.2	22
159	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
160	The Metabolic Productivity of the Cell Factory. Journal of Theoretical Biology, 1996, 182, 317-325.	1.7	21
161	Implications of oxidative stress and inflammatory process in the cytotoxicity of capsaicin in human endothelial cells: lack of DNA strand breakage. Toxicology, 2000, 147, 41-49.	4.2	21
162	Polyamine production is downstream and upstream of oncogenic PI3K signalling and contributes to tumour cell growth. Biochemical Journal, 2013, 450, 619-628.	3.7	21

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