

# Marta Cascante Serratos

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3383169/publications.pdf>

Version: 2024-02-01

313  
papers

13,180  
citations

23544

58  
h-index

36008

97  
g-index

322  
all docs

322  
docs citations

322  
times ranked

18947  
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.	0.2	1
2	The Glycolytic Gatekeeper PDK1 defines different metabolic states between genetically distinct subtypes of human acute myeloid leukemia. Nature Communications, 2022, 13, 1105.	5.8	14
3	TKTL1 Knockdown Impairs Hypoxia-Induced Glucose-6-phosphate Dehydrogenase and Glycerinaldehyde-3-phosphate Dehydrogenase Overexpression. International Journal of Molecular Sciences, 2022, 23, 3574.	1.8	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.	5.8	22
5	Metabolomics: The Stethoscope for the Twenty-First Century. Medical Principles and Practice, 2021, 30, 301-310.	1.1	46
6	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.	0.7	5
7	Generation of a Novel In Vitro Model to Study Endothelial Dysfunction from Atherothrombotic Specimens. Cardiovascular Drugs and Therapy, 2021, 35, 1281-1290.	1.3	5
8	Quantitative Proteomic Approach Reveals Altered Metabolic Pathways in Response to the Inhibition of Lysine Deacetylases in A549 Cells under Normoxia and Hypoxia. International Journal of Molecular Sciences, 2021, 22, 3378.	1.8	3
9	Protein network analyses of pulmonary endothelial cells in chronic thromboembolic pulmonary hypertension. Scientific Reports, 2021, 11, 5583.	1.6	10
10	Targeting the Metabolic Adaptation of Metastatic Cancer. Cancers, 2021, 13, 1641.	1.7	10
11	Integrating systemic and molecular levels to infer key drivers sustaining metabolic adaptations. PLoS Computational Biology, 2021, 17, e1009234.	1.5	2
12	Glutamine Modulates Expression and Function of Glucose 6-Phosphate Dehydrogenase via NRF2 in Colon Cancer Cells. Antioxidants, 2021, 10, 1349.	2.2	13
13	Unveiling a key role of oxaloacetate-glutamate interaction in regulation of respiration and ROS generation in nonsynaptic brain mitochondria using a kinetic model. PLoS ONE, 2021, 16, e0255164.	1.1	8
14	Genome Scale Modeling to Study the Metabolic Competition between Cells in the Tumor Microenvironment. Cancers, 2021, 13, 4609.	1.7	15
15	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.	1.9	4
16	Cysteine and Folate Metabolism Are Targetable Vulnerabilities of Metastatic Colorectal Cancer. Cancers, 2021, 13, 425.	1.7	14
17	Oxidative Pentose Phosphate Pathway Enzyme 6-Phosphogluconate Dehydrogenase Plays a Key Role in Breast Cancer Metabolism. Biology, 2021, 10, 85.	1.3	14
18	AI delivers Michaelis constants as fuel for genome-scale metabolic models. PLoS Biology, 2021, 19, e3001415.	2.6	3

#	ARTICLE	IF	CITATIONS
19	Luminescent Pt II and Pt IV Platinacycles with Anticancer Activity Against Multiplatinum-Resistant Metastatic CRC and CRPC Cell Models. <i>Chemistry - A European Journal</i> , 2020, 26, 1947-1952.	1.7	8
20	Metabolic Plasticity Is an Essential Requirement of Acquired Tyrosine Kinase Inhibitor Resistance in Chronic Myeloid Leukemia. <i>Cancers</i> , 2020, 12, 3443.	1.7	4
21	Decreased Glycolysis as Metabolic Fingerprint of Endothelial Cells in Chronic Thromboembolic Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 710-713.	1.4	5
22	Metformin lowers glucose 6-phosphate in hepatocytes by activation of glycolysis downstream of glucose phosphorylation. <i>Journal of Biological Chemistry</i> , 2020, 295, 3330-3346.	1.6	22
23	Software Supporting a Workflow of Quantitative Dynamic Flux Maps Estimation in Central Metabolism from SIRM Experimental Data. <i>Methods in Molecular Biology</i> , 2020, 2088, 271-298.	0.4	3
24	Synthesis and Antiproliferative Activity of Novel A-Ring Cleaved Glycyrrhetic Acid Derivatives. <i>Molecules</i> , 2019, 24, 2938.	1.7	9
25	Stoichiometric gene-to-reaction associations enhance model-driven analysis performance: Metabolic response to chronic exposure to Aldrin in prostate cancer. <i>BMC Genomics</i> , 2019, 20, 652.	1.2	12
26	Metabolic Plasticity and Epithelial-Mesenchymal Transition. <i>Journal of Clinical Medicine</i> , 2019, 8, 967.	1.0	25
27	p13CMFA: Parsimonious 13C metabolic flux analysis. <i>PLoS Computational Biology</i> , 2019, 15, e1007310.	1.5	9
28	Differentially Expressed Proteins in Primary Endothelial Cells Derived From Patients With Acute Myocardial Infarction. <i>Hypertension</i> , 2019, 74, 947-956.	1.3	10
29	Metabolomics in systems medicine: an overview of methods and applications. <i>Current Opinion in Systems Biology</i> , 2019, 15, 91-99.	1.3	9
30	Interoperable and scalable data analysis with microservices: applications in metabolomics. <i>Bioinformatics</i> , 2019, 35, 3752-3760.	1.8	22
31	Synthesis and Antiproliferative Activity of Novel Heterocyclic Glycyrrhetic Acid Derivatives. <i>Molecules</i> , 2019, 24, 766.	1.7	14
32	The landscape of tiered regulation of breast cancer cell metabolism. <i>Scientific Reports</i> , 2019, 9, 17760.	1.6	15
33	PhenoMeNal: processing and analysis of metabolomics data in the cloud. <i>GigaScience</i> , 2019, 8, .	3.3	60
34	Tracing metabolic fluxes using mass spectrometry: Stable isotope-resolved metabolomics in health and disease. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115371.	5.8	12
35	Epigenetic loss of the endoplasmic reticulum-associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. <i>JCI Insight</i> , 2019, 4, .	2.3	14
36	Decreased glycolysis as metabolic footprint of endothelial cells in chronic thromboembolic pulmonary hypertension. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	From correlation to causation: analysis of metabolomics data using systems biology approaches. <i>Metabolomics</i> , 2018, 14, 37.	1.4	151
38	Instrumental drift removal in GC-MS data for breath analysis: the short-term and long-term temporal validation of putative biomarkers for COPD. <i>Journal of Breath Research</i> , 2018, 12, 036007.	1.5	8
39	Network modules uncover mechanisms of skeletal muscle dysfunction in COPD patients. <i>Journal of Translational Medicine</i> , 2018, 16, 34.	1.8	22
40	Platinacycles Containing a Primary Amine Platinum(II) Compounds for Treating Cisplatin-Resistant Cancers by Oxidant Therapy. <i>Organometallics</i> , 2018, 37, 3502-3514.	1.1	16
41	Tumor-associated metabolic and inflammatory responses in early stage non-small cell lung cancer: Local patterns and prognostic significance. <i>Lung Cancer</i> , 2018, 122, 124-130.	0.9	28
42	Combining Metabolome, Transcriptome and Proteome Approaches to Identify Vulnerabilities in AML: Role of Pdks. <i>Experimental Hematology</i> , 2018, 64, S64.	0.2	0
43	Synthesis, characterization and biological activity of new cyclometallated platinum( <i>iv</i> ) complexes containing a <i>p</i> -tolyl ligand. <i>Dalton Transactions</i> , 2018, 47, 8956-8971.	1.6	7
44	Untargeted metabolomics reveals distinct metabolic reprogramming in endothelial cells co-cultured with CSC and non-CSC prostate cancer cell subpopulations. <i>PLoS ONE</i> , 2018, 13, e0192175.	1.1	13
45	Preanalytical Processing and Biobanking Procedures of Biological Samples for Metabolomics Research: A White Paper, Community Perspective (for Precision Medicine and Pharmacometabolomics) <a href="#">Tj ETQq15 1 0.784114 rgB</a>	1.5	17
46	Metabolic Alterations in Cardiopulmonary Vascular Dysfunction. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 120.	1.6	20
47	Model-driven discovery of long-chain fatty acid metabolic reprogramming in heterogeneous prostate cancer cells. <i>PLoS Computational Biology</i> , 2018, 14, e1005914.	1.5	22
48	Combined Analysis of NMR and MS Spectra (CANMS). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4140-4144.	7.2	23
49	Combined Analysis of NMR and MS Spectra (CANMS). <i>Angewandte Chemie</i> , 2017, 129, 4204-4208.	1.6	3
50	MIDcor, an R-program for deciphering mass interferences in mass spectra of metabolites enriched in stable isotopes. <i>BMC Bioinformatics</i> , 2017, 18, 88.	1.2	12
51	Novel celastrol derivatives with improved selectivity and enhanced antitumour activity: Design, synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 422-437.	2.6	22
52	The importance of post-translational modifications in systems biology approaches to identify therapeutic targets in cancer metabolism. <i>Current Opinion in Systems Biology</i> , 2017, 3, 161-169.	1.3	9
53	Synthesis, characterization and biological activity of new cyclometallated platinum( <i>iv</i> ) iodo complexes. <i>Dalton Transactions</i> , 2017, 46, 14973-14987.	1.6	21
54	In-silico gene essentiality analysis of polyamine biosynthesis reveals APRT as a potential target in cancer. <i>Scientific Reports</i> , 2017, 7, 14358.	1.6	10

#	ARTICLE	IF	CITATIONS
55	<i>De novo</i> MYC addiction as an adaptive response of cancer cells to CDK4/6 inhibition. <i>Molecular Systems Biology</i> , 2017, 13, 940.	3.2	43
56	Design, synthesis and biological evaluation of novel C-29 carbamate celastrol derivatives as potent and selective cytotoxic compounds. <i>European Journal of Medicinal Chemistry</i> , 2017, 139, 836-848.	2.6	25
57	Combining transcriptome, quantitative proteome and metabolome approaches to identify targetable vulnerabilities in AML. <i>Experimental Hematology</i> , 2017, 53, S108.	0.2	0
58	Induction of oxidative metabolism by the p38 $\beta$ /MK2 pathway. <i>Scientific Reports</i> , 2017, 7, 11367.	1.6	23
59	Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. <i>Progress in Preventive Medicine (New York, N Y)</i> , 2017, 2, e006.	0.7	6
60	Glyceraldehyde-3-phosphate dehydrogenase is overexpressed in colorectal cancer onset. <i>Translational Medicine Communications</i> , 2017, 2, .	0.5	15
61	Molecular mechanisms underlying COPD-muscle dysfunction unveiled through a systems medicine approach. <i>Bioinformatics</i> , 2017, 33, 95-103.	1.8	15
62	Unveiling the Metabolic Changes on Muscle Cell Metabolism Underlying p-Phenylenediamine Toxicity. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 8.	1.6	7
63	MicroRNA-200, associated with metastatic breast cancer, promotes traits of mammary luminal progenitor cells. <i>Oncotarget</i> , 2017, 8, 83384-83406.	0.8	23
64	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.	0.8	62
65	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017, 6, 1649.	0.8	19
66	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017, 6, 1649.	0.8	11
67	Dysfunctional endothelial cells in patients with chronic thromboembolic pulmonary hypertension. , 2017, , .		0
68	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. <i>Npj Systems Biology and Applications</i> , 2016, 2, 16011.	1.4	21
69	HepatoDyn: A Dynamic Model of Hepatocyte Metabolism That Integrates 13C Isotopomer Data. <i>PLoS Computational Biology</i> , 2016, 12, e1004899.	1.5	14
70	Oncogenic regulation of tumor metabolic reprogramming. <i>Oncotarget</i> , 2016, 7, 62726-62753.	0.8	116
71	Restrictions in ATP diffusion within sarcomeres can provoke ATP-depleted zones impairing exercise capacity in chronic obstructive pulmonary disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2269-2278.	1.1	6
72	Design, synthesis, and biological evaluation of novel asiatic acid derivatives as potential anticancer agents. <i>RSC Advances</i> , 2016, 6, 39296-39309.	1.7	4

#	ARTICLE	IF	CITATIONS
73	Metabolomics enables precision medicine: <i>White Paper, Community Perspective</i> , <i>Metabolomics</i> , 2016, 12, 149.	1.4	434
74	On the stability and biological behavior of cyclometallated Pt(IV) complexes with halido and aryl ligands in the axial positions. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5804-5815.	1.4	17
75	ChainRank, a chain prioritisation method for contextualisation of biological networks. <i>BMC Bioinformatics</i> , 2016, 17, 17.	1.2	38
76	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.	1.4	77
77	Synthesis and biological evaluation of novel asiatic acid derivatives with anticancer activity. <i>RSC Advances</i> , 2016, 6, 3967-3985.	1.7	14
78	Synthesis and anticancer activity of novel fluorinated asiatic acid derivatives. <i>European Journal of Medicinal Chemistry</i> , 2016, 114, 101-117.	2.6	40
79	Maslinic Acid, a Natural Triterpene, Induces a Death Receptor-Mediated Apoptotic Mechanism in Caco-2 p53-Deficient Colon Adenocarcinoma Cells. <i>PLoS ONE</i> , 2016, 11, e0146178.	1.1	43
80	A key role for transketolase-like 1 in tumor metabolic reprogramming. <i>Oncotarget</i> , 2016, 7, 51875-51897.	0.8	43
81	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 2015, 11, 1587-1597.	1.4	140
82	Methylseleninic acid promotes antitumour effects via nuclear FOXO3a translocation through Akt inhibition. <i>Pharmacological Research</i> , 2015, 102, 218-234.	3.1	42
83	Neutral and ionic platinum compounds containing a cyclometallated chiral primary amine: synthesis, antitumor activity, DNA interaction and topoisomerase $\alpha$ -cathepsin B inhibition. <i>Dalton Transactions</i> , 2015, 44, 13602-13614.	1.6	26
84	Sampling with poling-based flux balance analysis: optimal versus sub-optimal flux space analysis of <i>Actinobacillus succinogenes</i> . <i>BMC Bioinformatics</i> , 2015, 16, 49.	1.2	11
85	Optimization of xanthatin extraction from <i>Xanthium spinosum</i> L. and its cytotoxic, anti-angiogenesis and antiviral properties. <i>European Journal of Medicinal Chemistry</i> , 2015, 90, 491-496.	2.6	34
86	Role of the Pentose Phosphate Pathway in Tumour Metabolism. , 2015, , 143-163.		3
87	Effects of Cadmium and Mercury on the Upper Part of Skeletal Muscle Glycolysis in Mice. <i>PLoS ONE</i> , 2014, 9, e80018.	1.1	28
88	Cardiovascular Disease-Related Parameters and Oxidative Stress in SHROB Rats, a Model for Metabolic Syndrome. <i>PLoS ONE</i> , 2014, 9, e104637.	1.1	16
89	$^{13}\text{C}$ 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
90	Cancer cell metabolism as new targets for novel designed therapies. <i>Future Medicinal Chemistry</i> , 2014, 6, 1791-1810.	1.1	22

#	ARTICLE	IF	CITATIONS
91	Partial and Transient Reduction of Glycolysis by PFKFB3 Blockade Reduces Pathological Angiogenesis. <i>Cell Metabolism</i> , 2014, 19, 37-48.	7.2	429
92	Design of an interface peptide as new inhibitor of human glucose-6-phosphate dehydrogenase. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 49, 110-117.	1.3	4
93	Effect of crowding by Dextran in enzymatic reactions. <i>Biophysical Chemistry</i> , 2014, 185, 8-13.	1.5	61
94	Quantitative Proteomic Approach to Understand Metabolic Adaptation in Non-Small Cell Lung Cancer. <i>Journal of Proteome Research</i> , 2014, 13, 4695-4704.	1.8	28
95	A novel cyclometallated Pt(II)-ferrocene complex induces nuclear FOXO3a localization and synergizes with cisplatin to inhibit lung cancer cell proliferation. <i>Metallomics</i> , 2014, 6, 622.	1.0	35
96	Exploring the Scope of [Pt <sub>2</sub> (4-FC <sub>6</sub> H <sub>4</sub> ) <sub>4</sub> (1/4-SEt <sub>2</sub> ) <sub>2</sub> ] as a Precursor for New Organometallic Platinum(II) and Platinum(IV) Antitumor Agents. <i>Organometallics</i> , 2014, 33, 1740-1750.	1.1	25
97	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. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4062-4068.	1.2	54
98	Cyclopalladated primary amines: A preliminary study of antiproliferative activity through apoptosis induction. <i>European Journal of Medicinal Chemistry</i> , 2014, 84, 530-536.	2.6	20
99	Validation of NCM460 cell model as control in antitumor strategies targeting colon adenocarcinoma metabolic reprogramming: Trichostatin A as a case study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1634-1639.	1.1	12
100	Systems Medicine: from molecular features and models to the clinic in COPD. <i>Journal of Translational Medicine</i> , 2014, 12, S4.	1.8	23
101	Chronic Obstructive Pulmonary Disease heterogeneity: challenges for health risk assessment, stratification and management. <i>Journal of Translational Medicine</i> , 2014, 12, S3.	1.8	34
102	Biomedical research in a Digital Health Framework. <i>Journal of Translational Medicine</i> , 2014, 12, S10.	1.8	21
103	Workforce preparation: the Biohealth computing model for Master and PhD students. <i>Journal of Translational Medicine</i> , 2014, 12, S11.	1.8	11
104	Predictive medicine: outcomes, challenges and opportunities in the Synergy-COPD project. <i>Journal of Translational Medicine</i> , 2014, 12, S12.	1.8	6
105	Synergy-COPD: a systems approach for understanding and managing chronic diseases. <i>Journal of Translational Medicine</i> , 2014, 12, S2.	1.8	19
106	The COPD Knowledge Base: enabling data analysis and computational simulation in translational COPD research. <i>Journal of Translational Medicine</i> , 2014, 12, S6.	1.8	26
107	Fluxomics. , 2014, , 237-250.		3
108	Oxygen Pathway Modeling Estimates High Reactive Oxygen Species Production above the Highest Permanent Human Habitation. <i>PLoS ONE</i> , 2014, 9, e111068.	1.1	14

#	ARTICLE	IF	CITATIONS
109	Polyamine production is downstream and upstream of oncogenic PI3K signalling and contributes to tumour cell growth. <i>Biochemical Journal</i> , 2013, 450, 619-628.	1.7	21
110	Diastereomerically pure platinum(II) complexes as antitumoral agents.. <i>Journal of Inorganic Biochemistry</i> , 2013, 118, 1-12.	1.5	30
111	Antitumour activity on extrinsic apoptotic targets of the triterpenoid maslinic acid in p53-deficient Caco-2 adenocarcinoma cells. <i>Biochimie</i> , 2013, 95, 2157-2167.	1.3	37
112	Targeting cell cycle regulation in cancer therapy. , 2013, 138, 255-271.		284
113	Pt(II) complexes with (N,Nâ€²) or (C,N,E)â€² (E=N,S) ligands: Cytotoxic studies, effect on DNA tertiary structure and structureâ€™activity relationships. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4210-4217.	1.4	22
114	A key role for mitochondrial gatekeeper pyruvate dehydrogenase in oncogene-induced senescence. <i>Nature</i> , 2013, 498, 109-112.	13.7	517
115	Epicatechin Gallate Impairs Colon Cancer Cell Metabolic Productivity. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4310-4317.	2.4	42
116	Cellular Plasticity Confers Migratory and Invasive Advantages to a Population of Glioblastoma-Initiating Cells that Infiltrate Peritumoral Tissue. <i>Stem Cells</i> , 2013, 31, 1075-1085.	1.4	83
117	High electron transfer capacity of thio-derivatives of tea catechins measured using a water soluble stable free radical and their effects on colon cancer cells. <i>New Journal of Chemistry</i> , 2013, 37, 2043.	1.4	4
118	Grape antioxidant dietary fiber inhibits intestinal polyposis in Apc Min/+ mice: relation to cell cycle and immune response. <i>Carcinogenesis</i> , 2013, 34, 1881-1888.	1.3	38
119	Maslinic Acid-Enriched Diet Decreases Intestinal Tumorigenesis in ApcMin/+ Mice through Transcriptomic and Metabolomic Reprogramming. <i>PLoS ONE</i> , 2013, 8, e59392.	1.1	46
120	Multistationary and Oscillatory Modes of Free Radicals Generation by the Mitochondrial Respiratory Chain Revealed by a Bifurcation Analysis. <i>PLoS Computational Biology</i> , 2012, 8, e1002700.	1.5	19
121	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.	1.8	19
122	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.	0.4	66
123	Muscle and blood redox status after exercise training in severe COPD patients. <i>Free Radical Biology and Medicine</i> , 2012, 52, 88-94.	1.3	89
124	Integrating tracer-based metabolomics data and metabolic fluxes in a linear fashion via Elementary Carbon Modes. <i>Metabolic Engineering</i> , 2012, 14, 344-353.	3.6	10
125	Punicalagin and Catechins Contain Polyphenolic Substructures That Influence Cell Viability and Can Be Monitored by Radical Chemosensors Sensitive to Electron Transfer. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1659-1665.	2.4	10
126	Seven-membered cycloplatinated complexes as a new family of anticancer agents. X-ray characterization and preliminary biological studies. <i>European Journal of Medicinal Chemistry</i> , 2012, 54, 557-566.	2.6	37



#	ARTICLE	IF	CITATIONS
127	Introduction to Metabolic Control Analysis (MCA). <i>Methods in Pharmacology and Toxicology</i> , 2012, , 279-297.	0.1	2
128	Hamamelitannin from Witch Hazel ( <i>Hamamelis virginiana</i> ) Displays Specific Cytotoxic Activity against Colon Cancer Cells. <i>Journal of Natural Products</i> , 2012, 75, 26-33.	1.5	35
129	Diphenyl Urea Derivatives as Inhibitors of Transketolase: A Structure-Based Virtual Screening. <i>PLoS ONE</i> , 2012, 7, e32276.	1.1	9
130	Cyclin-dependent kinases 4 and 6 control tumor progression and direct glucose oxidation in the pentose cycle. <i>Metabolomics</i> , 2012, 8, 454-464.	1.4	25
131	Plasma metabolic profile in COPD patients: effects of exercise and endurance training. <i>Metabolomics</i> , 2012, 8, 508-516.	1.4	37
132	Application of Tracer-Based Metabolomics and Flux Analysis in Targeted Cancer Drug Design. <i>Methods in Pharmacology and Toxicology</i> , 2012, , 299-320.	0.1	2
133	Thermodynamically constrained Flux and Control Analysis of <i>Escherichia coli</i> . <i>Computer Aided Chemical Engineering</i> , 2012, 30, 1377-1381.	0.3	3
134	Metabolites in Contact with the Rat Digestive Tract after Ingestion of a Phenolic-Rich Dietary Fiber Matrix. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 5955-5963.	2.4	45
135	Protective Effect of Structurally Diverse Grape Procyanidin Fractions against UV-Induced Cell Damage and Death. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4489-4495.	2.4	27
136	Effect of Crowding by Dextrans on the Hydrolysis of <i>N</i> -Succinyl-L-phenyl-Ala-p-nitroanilide Catalyzed by $\hat{\text{I}}\pm$ -Chymotrypsin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1115-1121.	1.2	60
137	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.	1.3	45
138	Enzymatic and metabolic characterization of the phosphoglycerate kinase deficiency associated with chronic hemolytic anemia caused by the PGK-Barcelona mutation. <i>Blood Cells, Molecules, and Diseases</i> , 2011, 46, 206-211.	0.6	11
139	Glycerol metabolic conversion to succinic acid using <i>Actinobacillus succinogenes</i> . <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1421-1425.	0.3	10
140	Transketolase-Like 1 Expression Is Modulated during Colorectal Cancer Progression and Metastasis Formation. <i>PLoS ONE</i> , 2011, 6, e25323.	1.1	50
141	Platinum(II) and palladium(II) complexes with (N,N $\hat{\text{C}}^2$ ) and (C,N,N $\hat{\text{C}}^2$ ) $\hat{\text{a}}^{\sim}$ ligands derived from pyrazole as anticancer and antimalarial agents: Synthesis, characterization and in vitro activities. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 1720-1728.	1.5	75
142	Compartmentation of glycogen metabolism revealed from $^{13}\text{C}$ isotopologue distributions. <i>BMC Systems Biology</i> , 2011, 5, 175.	3.0	23
143	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.	0.5	18
144	The natural triterpene maslinic acid induces apoptosis in HT29 colon cancer cells by a JNK-p53-dependent mechanism. <i>BMC Cancer</i> , 2011, 11, 154.	1.1	99

#	ARTICLE	IF	CITATIONS
145	Knowledge management for Systems Biology a general and visually driven framework applied to translational medicine. BMC Systems Biology, 2011, 5, 38.	3.0	52
146	Do elementary flux modes combine linearly at the atomic level? Integrating tracer-based metabolomics data and elementary flux modes. BioSystems, 2011, 105, 140-146.	0.9	6
147	Ferrocene-indole hybrids for cancer and malaria therapy. Journal of Organometallic Chemistry, 2011, 696, 1011-1017.	0.8	65
148	Novel Phenazine 5,10-Dioxides Release $\text{H}_2\text{O}_2$ in Simulated Hypoxia and Induce Reduction of Tumour Volume <i>In Vivo</i> . ISRN Pharmacology, 2011, 2011, 1-11.	1.6	12
149	Reactive Oxygen Species Production by Forward and Reverse Electron Fluxes in the Mitochondrial Respiratory Chain. PLoS Computational Biology, 2011, 7, e1001115.	1.5	133
150	A Systems Biology Approach Identifies Molecular Networks Defining Skeletal Muscle Abnormalities in Chronic Obstructive Pulmonary Disease. PLoS Computational Biology, 2011, 7, e1002129.	1.5	66
151	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.	1.3	44
152	Metabolic network adaptations in cancer as targets for novel therapies. Biochemical Society Transactions, 2010, 38, 1302-1306.	1.6	27
153	Histone deacetylase inhibition results in a common metabolic profile associated with HT29 differentiation. Metabolomics, 2010, 6, 229-237.	1.4	32
154	Edelfosine-induced metabolic changes in cancer cells that precede the overproduction of reactive oxygen species and apoptosis. BMC Systems Biology, 2010, 4, 135.	3.0	20
155	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.	1.4	24
156	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.	1.4	63
157	Substrate Fate in Activated Macrophages: A Comparison between Innate, Classic, and Alternative Activation. Journal of Immunology, 2010, 185, 605-614.	0.4	820
158	Diffusion of $\text{Ca}^{2+}$ -Chymotrypsin in Solution-Crowded Media. A Fluorescence Recovery after Photobleaching Study. Journal of Physical Chemistry B, 2010, 114, 4028-4034.	1.2	35
159	Bistability of Mitochondrial Respiration Underlies Paradoxical Reactive Oxygen Species Generation Induced by Anoxia. PLoS Computational Biology, 2009, 5, e1000619.	1.5	58
160	Modulation of pentose phosphate pathway during cell cycle progression in human colon adenocarcinoma cell line HT29. International Journal of Cancer, 2009, 124, 2789-2796.	2.3	84
161	In silico strategy to rationally engineer metabolite production: A case study for threonine in <i>Escherichia coli</i> . Biotechnology and Bioengineering, 2009, 103, 609-620.	1.7	18
162	Antiproliferative effect of flavomannin-6,6-dimethylether from <i>Tricholoma equestre</i> on Caco-2 cells. Toxicology, 2009, 264, 192-197.	2.0	10

#	ARTICLE	IF	CITATIONS
163	Novel semisynthetic derivatives of betulin and betulinic acid with cytotoxic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6241-6250.	1.4	115
164	Phenolic Metabolites of Grape Antioxidant Dietary Fiber in Rat Urine. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 11418-11426.	2.4	28
165	Maslinic acid, a natural triterpene from <i>Olea europaea</i> L., induces apoptosis in HT29 human colon-cancer cells via the mitochondrial apoptotic pathway. <i>Cancer Letters</i> , 2009, 273, 44-54.	3.2	177
166	Characterization of the metabolic changes underlying growth factor angiogenic activation: identification of new potential therapeutic targets. <i>Carcinogenesis</i> , 2009, 30, 946-952.	1.3	77
167	The changes in the energy metabolism of human muscle induced by training. <i>Journal of Theoretical Biology</i> , 2008, 252, 402-410.	0.8	6
168	Robust metabolic adaptation underlying tumor progression. <i>Metabolomics</i> , 2008, 4, 1-12.	1.4	27
169	High-resolution liquid chromatography/electrospray ionization time-of-flight mass spectrometry combined with liquid chromatography/electrospray ionization tandem mass spectrometry to identify polyphenols from grape antioxidant dietary fiber. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3489-3500.	0.7	42
170	Kinetic properties required for sustained or paradoxical control of metabolic fluxes under large changes in enzyme activities. <i>Journal of Theoretical Biology</i> , 2008, 252, 569-573.	0.8	4
171	Elevated activity of the oxidative and non-oxidative pentose phosphate pathway in (pre)neoplastic lesions in rat liver. <i>International Journal of Experimental Pathology</i> , 2008, 89, 232-240.	0.6	43
172	Antitumoral Effect of Phenazine $5,10$ -Dioxide Derivatives on Caco-2 Cells. <i>Chemical Research in Toxicology</i> , 2008, 21, 1578-1585.	1.7	25
173	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. <i>Chemical Research in Toxicology</i> , 2008, 21, 696-704.	1.7	62
174	Witch Hazel ( <i>Hamamelis virginiana</i> ) Fractions and the Importance of Gallate Moieties' Electron Transfer Capacities in Their Antitumoral Properties. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 11675-11682.	2.4	38
175	The Role of External and Matrix pH in Mitochondrial Reactive Oxygen Species Generation. <i>Journal of Biological Chemistry</i> , 2008, 283, 29292-29300.	1.6	121
176	Metabolomics and fluxomics approaches. <i>Essays in Biochemistry</i> , 2008, 45, 67-82.	2.1	112
177	Detection of potential enzyme targets by metabolic modelling and optimization: Application to a simple enzymopathy. <i>Bioinformatics</i> , 2007, 23, 2281-2289.	1.8	32
178	Quantification of Intracellular Phosphorylated Carbohydrates in HT29 Human Colon Adenocarcinoma Cell Line Using Liquid Chromatography-Electrospray Ionization Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2007, 79, 5000-5005.	3.2	19
179	Modeling of Spatial Metabolite Distributions in the Cardiac Sarcomere. <i>Biophysical Journal</i> , 2007, 92, 3492-3500.	0.2	26
180	A quinoxaline 1,4-di-N-oxide derivative induces DNA oxidative damage not attenuated by vitamin C and E treatment. <i>Chemico-Biological Interactions</i> , 2007, 168, 95-105.	1.7	47

#	ARTICLE	IF	CITATIONS
181	Metabolic profile and quantification of deoxyribose synthesis pathways in HepG2 cells. <i>Metabolomics</i> , 2007, 3, 105-111.	1.4	9
182	Functional Fatty Fish Supplemented with Grape Procyanidins. Antioxidant and Proapoptotic Properties on Colon Cell Lines. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 3598-3603.	2.4	12
183	(2 $\hat{1}$ ,3 $\hat{1}$ )-2,3-Dihydroxyolean-12-en-28-oic acid, a new natural triterpene from <i>Olea europea</i> , induces caspase dependent apoptosis selectively in colon adenocarcinoma cells. <i>FEBS Letters</i> , 2006, 580, 6302-6310.	1.3	109
184	Electron-transfer capacity of catechin derivatives and influence on the cell cycle and apoptosis in HT29 cells. <i>FEBS Journal</i> , 2006, 273, 2475-2486.	2.2	24
185	Bistability from double phosphorylation in signal transduction. <i>FEBS Journal</i> , 2006, 273, 3915-3926.	2.2	87
186	Metabolic homeostasis in the human erythrocyte: In silico analysis. <i>BioSystems</i> , 2006, 83, 118-124.	0.9	6
187	Integration of enzyme kinetic models and isotopomer distribution analysis for studies of in situ cell operation. <i>BMC Neuroscience</i> , 2006, 7, S7.	0.8	12
188	Pentose phosphate and calvin cycles: Similarities and three-dimensional views. <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 275-277.	0.5	12
189	Pentose phosphate cycle oxidative and nonoxidative balance: A new vulnerable target for overcoming drug resistance in cancer. <i>International Journal of Cancer</i> , 2006, 119, 2733-2741.	2.3	119
190	K-ras Asp12 mutant neither interacts with Raf, nor signals through Erk and is less tumorigenic than K-ras Val12. <i>Carcinogenesis</i> , 2006, 27, 2190-2200.	1.3	58
191	In Situ Localization of Transketolase Activity in Epithelial Cells of Different Rat Tissues and Subcellularly in Liver Parenchymal Cells. <i>Journal of Histochemistry and Cytochemistry</i> , 2006, 54, 191-199.	1.3	22
192	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. <i>Journal of Histochemistry and Cytochemistry</i> , 2006, 54, 47-52.	1.3	23
193	Mathematical Modeling of Polyamine Metabolism in Mammals*. <i>Journal of Biological Chemistry</i> , 2006, 281, 21799-21812.	1.6	44
194	Software for dynamic analysis of tracer-based metabolomic data: estimation of metabolic fluxes and their statistical analysis. <i>Bioinformatics</i> , 2006, 22, 2806-2812.	1.8	32
195	About implementing a Monte Carlo simulation algorithm for enzymatic reactions in crowded media. <i>Journal of the Serbian Chemical Society</i> , 2006, 71, 75-86.	0.4	3
196	K-ras Codon-Specific Mutations Produce Distinctive Metabolic Phenotypes in Human Fibroblasts. <i>Cancer Research</i> , 2005, 65, 5512-5515.	0.4	110
197	Selective Toxicity of a Quinoxaline 1,4-Di-N-oxide Derivative in Human Tumour Cell Lines. <i>Arzneimittelforschung</i> , 2005, 55, 177-182.	0.5	2
198	Rapid simulation and analysis of isotopomer distributions using constraints based on enzyme mechanisms: an example from HT29 cancer cells. <i>Bioinformatics</i> , 2005, 21, 3558-3564.	1.8	35

#	ARTICLE	IF	CITATIONS
199	DNA damage induced by a quinoxaline 1,4-di-N-oxide derivative (hypoxic selective agent) in Caco-2 cells evaluated by the comet assay. <i>Mutagenesis</i> , 2005, 20, 165-171.	1.0	20
200	Procyanidin Fractions from Pine ( <i>Pinus pinaster</i> ) Bark: Radical Scavenging Power in Solution, Antioxidant Activity in Emulsion, and Antiproliferative Effect in Melanoma Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 4728-4735.	2.4	106
201	Effect of new antioxidant cysteinyl-flavanol conjugates on skin cancer cells. <i>FEBS Letters</i> , 2005, 579, 4219-4225.	1.3	37
202	An optimized algorithm for flux estimation from isotopomer distribution in glucose metabolites. <i>Bioinformatics</i> , 2004, 20, 3387-3397.	1.8	41
203	What makes biochemical networks tick?. <i>FEBS Journal</i> , 2004, 271, 3877-3887.	0.2	10
204	Metabolic sensitivity of pancreatic tumour cell apoptosis to glycogen phosphorylase inhibitor treatment. <i>British Journal of Cancer</i> , 2004, 91, 2094-2100.	2.9	76
205	Use of metabolic pathway flux information in targeted cancer drug design. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2004, 1, 435-443.	0.5	23
206	Dynamic profiling of the glucose metabolic network in fasted rat hepatocytes using [1,2- <sup>13</sup> C]glucose. <i>Biochemical Journal</i> , 2004, 381, 287-294.	1.7	48
207	Antiproliferative effect of antioxidant polyphenols from grape in murine Hepa-1c1c7. <i>European Journal of Nutrition</i> , 2003, 42, 43-49.	1.8	90
208	Multicriteria optimization of biochemical systems by linear programming: Application to production of ethanol by <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2003, 83, 335-343.	1.7	70
209	Mathematical modelling of the urea cycle. <i>FEBS Journal</i> , 2003, 270, 3953-3961.	0.2	37
210	Glucose conversion by multiple pathways in brain extract: theoretical and experimental analysis. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 792-797.	1.0	8
211	Metabolic strategy of boar spermatozoa revealed by a metabolomic characterization. <i>FEBS Letters</i> , 2003, 554, 342-346.	1.3	123
212	Characterization of the transit and transition times for a pathway unit of Michaelis-Menten mechanism. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1623, 6-12.	1.1	1
213	Stable Isotope-Based Dynamic Metabolic Profiling in Disease and Health. , 2003, , 141-169.		6
214	Defective RNA ribose synthesis in fibroblasts from patients with thiamine-responsive megaloblastic anemia (TRMA). <i>Blood</i> , 2003, 102, 3556-3561.	0.6	57
215	The Stable Isotope-based Dynamic Metabolic Profile of Butyrate-induced HT29 Cell Differentiation. <i>Journal of Biological Chemistry</i> , 2003, 278, 28395-28402.	1.6	71
216	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.	1.6	89

#	ARTICLE	IF	CITATIONS
217	Product dependence and bifunctionality compromise the ultrasensitivity of signal transduction cascades. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1170-1175.	3.3	62
218	Imatinib and Chronic-Phase Leukemias. <i>New England Journal of Medicine</i> , 2002, 347, 67-68.	13.9	23
219	Multiple glucose 6-phosphate pools or channelling of flux in diverse pathways?. <i>Biochemical Society Transactions</i> , 2002, 30, 38-43.	1.6	20
220	Valorization of Grape ( <i>Vitis vinifera</i> ) Byproducts. Antioxidant and Biological Properties of Polyphenolic Fractions Differing in Procyanidin Composition and Flavonol Content. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 7548-7555.	2.4	192
221	Metabolic profiling of cell growth and death in cancer: applications in drug discovery. <i>Drug Discovery Today</i> , 2002, 7, 364-372.	3.2	133
222	Dependence of Control Coefficient Distribution on the Boundaries of a Metabolic System: A Generalized Analysis of the Effects of Additional Input and Output reactions to a Linear Pathway. <i>Journal of Theoretical Biology</i> , 2002, 215, 239-251.	0.8	1
223	Cysteinyl-flavan-3-ol Conjugates from Grape Procyanidins. Antioxidant and Antiproliferative Properties. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 2497-2509.	1.4	72
224	Recent advances in the study of epigenetic effects induced by the phycotoxin okadaic acid. <i>Toxicology</i> , 2002, 181-182, 433-439.	2.0	40
225	Metabolic control analysis in drug discovery and disease. <i>Nature Biotechnology</i> , 2002, 20, 243-249.	9.4	270
226	Cation-exchange micropreparative separation of galloylated and non-galloylated sulphur conjugated catechins. <i>Journal of Chromatography A</i> , 2002, 973, 229-234.	1.8	3
227	Metabolic control analysis aimed at the ribose synthesis pathways of tumor cells: a new strategy for antitumor drug development. <i>Molecular Biology Reports</i> , 2002, 29, 7-12.	1.0	33
228	Sensitivity analysis of metabolic cascades catalyzed by bifunctional enzymes. <i>Molecular Biology Reports</i> , 2002, 29, 211-215.	1.0	6
229	Modulation of metabolite concentrations with no net effect on fluxes. <i>Molecular Biology Reports</i> , 2002, 29, 17-20.	1.0	3
230	Triosephosphate isomerase deficiency. genetic, enzymatic and metabolic characterization of a new case from Spain. <i>Haematologica</i> , 2002, 87, ECR12.	1.7	7
231	A New Bis-Indole, KARs, Induces Selective M Arrest with Specific Spindle Aberration in Neuroblastoma Cell Line SH-SY5Y. <i>Molecular Pharmacology</i> , 2001, 60, 1235-1242.	1.0	18
232	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.	0.5	57
233	Relationships between inhibition constants, inhibitor concentrations for 50% inhibition and types of inhibition: new ways of analysing data. <i>Biochemical Journal</i> , 2001, 357, 263.	1.7	79
234	Occurrence of paradoxical or sustained control by an enzyme when overexpressed: necessary conditions and experimental evidence with regard to hepatic glucokinase. <i>Biochemical Journal</i> , 2001, 355, 787-793.	1.7	11

#	ARTICLE	IF	CITATIONS
235	The effect of thiamine supplementation on tumour proliferation. FEBS Journal, 2001, 268, 4177-4182.	0.2	152
236	Effect of several anions on the activity of mitochondrial malate dehydrogenase from pig heart. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 743-755.	1.8	7
237	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.	1.6	166
238	Use of $\beta$ -toxin from Staphylococcus aureus to test for channelling of intermediates of glycolysis between glucokinase and aldolase in hepatocytes. Biochemical Journal, 2000, 352, 899.	1.7	6
239	Hyperammonemia caused by deficiency of the urea cycle enzymes is explained by control metabolic analysis. Biochemical Society Transactions, 2000, 28, A325-A325.	1.6	0
240	Analysis and prediction of the effect of uncertain boundary values in modeling a metabolic pathway. , 2000, 68, 18-30.		9
241	Engineering a Living Cell to Desired Metabolite Concentrations and Fluxes: Pathways with Multifunctional Enzymes. Metabolic Engineering, 2000, 2, 1-13.	3.6	18
242	Organization-dependent effects of toxic bivalent ions. FEBS Journal, 2000, 267, 4731-4739.	0.2	35
243	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.	2.0	21
244	Quantitative characterization of homo- and heteroassociations of muscle phosphofructokinase with aldolase. BBA - Proteins and Proteomics, 2000, 1479, 303-314.	2.1	32
245	New insights into our understanding of the regulation and organization of cell factories. Trends in Biotechnology, 2000, 18, 181-182.	4.9	5
246	Use of $\beta$ -toxin from Staphylococcus aureus to test for channelling of intermediates of glycolysis between glucokinase and aldolase in hepatocytes. Biochemical Journal, 2000, 352, 899-905.	1.7	11
247	Role of Thiamin (Vitamin B-1) and Transketolase in Tumor Cell Proliferation. Nutrition and Cancer, 2000, 36, 150-154.	0.9	73
248	In vivo measurements of control coefficients for hexokinase and glucose-6-phosphate dehydrogenase in <i>Xenopus laevis</i> oocytes. FEBS Letters, 2000, 475, 145-149.	1.3	7
249	Cells overexpressing fructose-2,6-bisphosphatase showed enhanced pentose phosphate pathway flux and resistance to oxidative stress. FEBS Letters, 2000, 480, 261-264.	1.3	49
250	Use of Metabolic Control Analysis to Design a New Strategy for Cancer Therapy. , 2000, , 173-180.		2
251	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.	0.4	71
252	Advantages and disadvantages of aggregating fluxes into synthetic and degradative fluxes when modelling metabolic pathways. FEBS Journal, 1999, 265, 671-679.	0.2	10

#	ARTICLE	IF	CITATIONS
253	New semisynthetic vinca alkaloids: chemical, biochemical and cellular studies. <i>British Journal of Cancer</i> , 1999, 79, 1356-1365.	2.9	19
254	Cytotoxicity and genotoxicity of capsaicin in human neuroblastoma cells SHSY-5Y. <i>Archives of Toxicology</i> , 1999, 73, 403-409.	1.9	47
255	Application of metabolic control analysis to the study of toxic effects of copper in muscle glycolysis. <i>FEBS Letters</i> , 1999, 445, 144-148.	1.3	23
256	Oxythiamine and dehydroepiandrosterone induce a G1phase cycle arrest in Ehrlich's tumor cells through inhibition of the pentose cycle. <i>FEBS Letters</i> , 1999, 456, 113-118.	1.3	164
257	Combined Enhancement of Microtubule Assembly and Glucose Metabolism in Neuronal Systems in Vitro: Decreased Sensitivity to Copper Toxicity. <i>Biochemical and Biophysical Research Communications</i> , 1999, 264, 605-610.	1.0	26
258	New insights into metabolic pathway optimization by analogy with industrial manufacturing processes. <i>Biochemical Society Transactions</i> , 1999, 27, 276-281.	1.6	5
259	Subtleties in control by metabolic channelling and enzyme organization. <i>Molecular and Cellular Biochemistry</i> , 1998, 184, 311-320.	1.4	14
260	Metabolic design: How to engineer a living cell to desired metabolite concentrations and fluxes. <i>Biotechnology and Bioengineering</i> , 1998, 59, 239-247.	1.7	36
261	Effects of feedback inhibition on transit time in a linear pathway of Michaelis-Menten-type reactions. <i>BioSystems</i> , 1998, 45, 221-235.	0.9	2
262	Control analysis of metabolic systems involving quasi-equilibrium reactions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1998, 1379, 337-352.	1.1	15
263	Nonoxidative pentose phosphate pathways and their direct role in ribose synthesis in tumors: is cancer a disease of cellular glucose metabolism?. <i>Medical Hypotheses</i> , 1998, 50, 55-59.	0.8	103
264	Inhibition of the oxidative and nonoxidative pentose phosphate pathways by somatostatin: a possible mechanism of antitumor action. <i>Medical Hypotheses</i> , 1998, 50, 501-506.	0.8	31
265	Mathematical models of purine metabolism in man. <i>Mathematical Biosciences</i> , 1998, 151, 1-49.	0.9	72
266	Physical Constraints in the Synthesis of Glycogen That Influence Its Structural Homogeneity: A Two-Dimensional Approach. <i>Biophysical Journal</i> , 1998, 75, 106-114.	0.2	44
267	Analysis of abnormalities in purine metabolism leading to gout and to neurological dysfunctions in man. <i>Biochemical Journal</i> , 1998, 329, 477-487.	1.7	54
268	Mass isotopomer study of the nonoxidative pathways of the pentose cycle with [1,2- <sup>13</sup> C <sub>2</sub> ]glucose. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998, 274, E843-E851.	1.8	123
269	Subtleties in control by metabolic channelling and enzyme organization. , 1998, , 311-320.		4
270	Thiamine supplementation to cancer patients: a double edged sword. <i>Anticancer Research</i> , 1998, 18, 595-602.	0.5	36



#	ARTICLE	IF	CITATIONS
271	Validation and steady-state analysis of a power-law model of purine metabolism in man. <i>Biochemical Journal</i> , 1997, 324, 761-775.	1.7	51
272	Comparison of control analysis data using different approaches: modelling and experiments with muscle extract. <i>FEBS Letters</i> , 1997, 418, 47-52.	1.3	23
273	How did glycogen structure evolve to satisfy the requirement for rapid mobilization of glucose? A problem of physical constraints in structure building. <i>Journal of Molecular Evolution</i> , 1997, 45, 446-455.	0.8	74
274	Oxythiamine and dehydroepiandrosterone inhibit the nonoxidative synthesis of ribose and tumor cell proliferation. <i>Cancer Research</i> , 1997, 57, 4242-8.	0.4	206
275	Strong control on the transit time in metabolic channelling. <i>FEBS Letters</i> , 1996, 389, 123-125.	1.3	9
276	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. <i>Journal of Molecular Evolution</i> , 1996, 43, 293-303.	0.8	169
277	Steady-State Characterization of Systems with Moiety-Conservations Made Easy: Matrix Equations of Metabolic Control Analysis and Biochemical System Theory. <i>Journal of Theoretical Biology</i> , 1996, 178, 1-6.	0.8	9
278	The Metabolic Productivity of the Cell Factory. <i>Journal of Theoretical Biology</i> , 1996, 182, 317-325.	0.8	21
279	Molecular Bureaucracy: Who Controls the Delays?. <i>Journal of Theoretical Biology</i> , 1996, 182, 333-339.	0.8	6
280	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. <i>Journal of Molecular Evolution</i> , 1996, 43, 293-303.	0.8	88
281	Assessment of the regulatory properties of a metabolic pathway: Parameter estimation from steady-state measurements. , 1996, , 3357-3368.		0
282	Control theory of metabolic channelling. <i>Molecular and Cellular Biochemistry</i> , 1995, 143, 151-168.	1.4	26
283	Elusive control. <i>Journal of Bioenergetics and Biomembranes</i> , 1995, 27, 491-497.	1.0	9
284	A model of the pentose phosphate pathway in rat liver cells. <i>Molecular and Cellular Biochemistry</i> , 1995, 142, 9-17.	1.4	41
285	Control in channelled pathways. A matrix method calculating the enzyme control coefficients. <i>Biophysical Chemistry</i> , 1995, 53, 247-258.	1.5	19
286	Comparative characterization of the fermentation pathway of <i>Saccharomyces cerevisiae</i> using biochemical systems theory and metabolic control analysis: Model definition and nomenclature. <i>Mathematical Biosciences</i> , 1995, 130, 25-50.	0.9	77
287	Comparative characterization of the fermentation pathway of <i>Saccharomyces cerevisiae</i> using biochemical systems theory and metabolic control analysis: Steady-state analysis. <i>Mathematical Biosciences</i> , 1995, 130, 51-69.	0.9	29
288	Comparative characterization of the fermentation pathway of <i>Saccharomyces cerevisiae</i> using biochemical systems theory and metabolic control analysis: Model validation and dynamic behavior. <i>Mathematical Biosciences</i> , 1995, 130, 71-84.	0.9	34

#	ARTICLE	IF	CITATIONS
289	Composite control of cell function: metabolic pathways behaving as single control units. FEBS Letters, 1995, 368, 1-4.	1.3	33
290	TESTING THE ROBUSTNESS OF THE STEADY-STATE CHARACTERISTICS OF A METABOLIC PATHWAY: PARAMETER SENSITIVITIES AS A BASIC FEATURE FOR MODEL VALIDATION. Journal of Biological Systems, 1995, 03, 105-113.	0.5	4
291	Control theory of metabolic channelling. Molecular and Cellular Biochemistry, 1994, 133-134, 313-331.	1.4	17
292	Control theory of metabolic channelling. , 1994, , 313-331.		0
293	Metabolic Pathway Characterization from Transient Response Data Obtained In Situ: Parameter Estimation in S-system Models. Journal of Theoretical Biology, 1993, 162, 81-102.	0.8	20
294	Dramatic changes in control properties that accompany channelling and metabolite sequestration. FEBS Letters, 1993, 336, 381-384.	1.3	15
295	Experimental Strategy to Study the pH Dependence of the Kinetic Behavior of Enzymes: Practical Application to Chicken Liver Xanthine Dehydrogenase. Archives of Biochemistry and Biophysics, 1993, 300, 42-48.	1.4	0
296	The molybdoenzymes xanthine oxidase and aldehyde oxidase contain fast- and slow-DTNB reacting sulphhydryl groups. The Protein Journal, 1992, 11, 547-551.	1.1	2
297	An Improved Purification Procedure for Sulfite Oxidase from Bovine Liver. Preparative Biochemistry and Biotechnology, 1991, 21, 53-61.	0.4	2
298	Biochemical systems theory: Increasing predictive power by using second-order derivatives measurements. Journal of Theoretical Biology, 1991, 149, 521-535.	0.8	12
299	Control analysis of transition times. Molecular and Cellular Biochemistry, 1991, 101, 83-91.	1.4	11
300	Control analysis of systems having two steps catalyzed by the same protein molecule in unbranched chains. FEBS Journal, 1990, 192, 369-371.	0.2	12
301	Occurrence and comparison of sulfite oxidase activity in mammalian tissues. Biochemical Medicine and Metabolic Biology, 1990, 43, 159-162.	0.7	33
302	Purification of Adenosine Deaminase from Chicken-Egg Yolk by Affinity Column Chromatography. Preparative Biochemistry and Biotechnology, 1990, 20, 199-204.	0.4	1
303	A Sensitive Enzymatic Method of Sulfite Determination. Analytical Letters, 1990, 23, 23-30.	1.0	10
304	Application of inverse regression for estimating molecular masses and Stokes radii of globular proteins by gel filtration chromatography. Journal of Proteomics, 1990, 20, 123-135.	2.4	2
305	Practical Determination of Control Coefficients in Metabolic Pathways. , 1990, , 157-169.		2
306	Performance Indices in Metabolic Systems: a Criterion for Evaluating Effectiveness in Metabolic Regulation. , 1990, , 149-156.		0

#	ARTICLE	IF	CITATIONS
307	Interdependence between cooperativity and control coefficients. <i>BioSystems</i> , 1989, 23, 7-14.	0.9	4
308	Kinetic studies of chloride inhibition in aspartate aminotransferase activity. <i>Biochimie</i> , 1989, 71, 417-425.	1.3	0
309	Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. I. unbranched pathways. <i>Mathematical Biosciences</i> , 1989, 94, 271-288.	0.9	74
310	Use of implicit methods from general sensitivity theory to develop a systematic approach to metabolic control. II. complex systems. <i>Mathematical Biosciences</i> , 1989, 94, 289-309.	0.9	79
311	Intramitochondrial location and some characteristics of chicken liver aspartate aminotransferase. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1987, 19, 355-363.	0.8	9
312	Purification and comparative studies of several mitochondrial aspartate aminotransferases from avian liver. <i>International Journal of Peptide and Protein Research</i> , 1987, 30, 668-675.	0.1	2
313	Biological Methods for Metabolic Research. , 0, , 54-76.		0