# Marta Cascante Serratosa

List of Publications by Year
in descending order



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|---|---|---|---|
| 313 papers | 13,180 citations | 23567 58 h-index | 36028 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. | 0.4 | 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 | Metabolomics: The Stethoscope for the Twenty-First Century. Medical Principles and Practice, 2021, 30, 301-310. | 2.4 | 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. | 1.3 | 5 |
| 7 | Generation of a Novel In Vitro Model to Study Endothelial Dysfunction from Atherothrombotic Specimens. Cardiovascular Drugs and Therapy, 2021, 35, 1281-1290. | 2.6 | 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. | 4.1 | 3 |
| 9 | Protein network analyses of pulmonary endothelial cells in chronic thromboembolic pulmonary hypertension. Scientific Reports, 2021, 11, 5583. | 3.3 | 10 |
| 10 | Targeting the Metabolic Adaptation of Metastatic Cancer. Cancers, 2021, 13, 1641. | 3.7 | 10 |
| 11 | Integrating systemic and molecular levels to inferÂkey drivers sustaining metabolic adaptations. PLoS Computational Biology, 2021, 17, e1009234. | 3.2 | 2 |
| 12 | Glutamine Modulates Expression and Function of Glucose 6-Phosphate Dehydrogenase via NRF2 in Colon Cancer Cells. Antioxidants, 2021, 10, 1349. | 5.1 | 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. | 2.5 | 8 |
| 14 | Genome Scale Modeling to Study the Metabolic Competition between Cells in the Tumor Microenvironment. Cancers, 2021, 13, 4609. | 3.7 | 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. | 4.1 | 4 |
| 16 | Cysteine and Folate Metabolism Are Targetable Vulnerabilities of Metastatic Colorectal Cancer. Cancers, 2021, 13, 425. | 3.7 | 14 |
| 17 | Oxidative Pentose Phosphate Pathway Enzyme 6-Phosphogluconate Dehydrogenase Plays a Key Role in Breast Cancer Metabolism. Biology, 2021, 10, 85. | 2.8 | 14 |
| 18 | AI delivers Michaelis constants as fuel for genome-scale metabolic models. PLoS Biology, 2021, 19, e3001415. | 5.6 | 3 |

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| 19 | Luminescent Pt II and Pt IV Platinacycles with Anticancer Activity Against Multiplatinumâ€Resistant Metastatic CRC and CRPC Cell Models. Chemistry - A European Journal, 2020, 26, 1947-1952. | 3.3 | 8 |
| 20 | Metabolic Plasticity Is an Essential Requirement of Acquired Tyrosine Kinase Inhibitor Resistance in Chronic Myeloid Leukemia. Cancers, 2020, 12, 3443. | 3.7 | 4 |
| 21 | Decreased Glycolysis as Metabolic Fingerprint of Endothelial Cells in Chronic Thromboembolic Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 710-713. | 2.9 | 5 |
| 22 | 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 |
| 23 | 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 |
| 24 | Synthesis and Antiproliferative Activity of Novel A-Ring Cleaved Glycyrrhetinic Acid Derivatives. Molecules, 2019, 24, 2938. | 3.8 | 9 |
| 25 | Stoichiometric gene-to-reaction associations enhance model-driven analysis performance: Metabolic response to chronic exposure to Aldrin in prostate cancer. BMC Genomics, 2019, 20, 652. | 2.8 | 12 |
| 26 | Metabolic Plasticity and Epithelial-Mesenchymal Transition. Journal of Clinical Medicine, 2019, 8, 967. | 2.4 | 25 |
| 27 | p13CMFA: Parsimonious 13C metabolic flux analysis. PLoS Computational Biology, 2019, 15, e1007310. | 3.2 | 9 |
| 28 | Differentially Expressed Proteins in Primary Endothelial Cells Derived From Patients With Acute Myocardial Infarction. Hypertension, 2019, 74, 947-956. | 2.7 | 10 |
| 29 | Metabolomics in systems medicine: an overview of methods and applications. Current Opinion in Systems Biology, 2019, 15, 91-99. | 2.6 | 9 |
| 30 | Interoperable and scalable data analysis with microservices: applications in metabolomics. Bioinformatics, 2019, 35, 3752-3760. | 4.1 | 22 |
| 31 | Synthesis and Antiproliferative Activity of Novel Heterocyclic Glycyrrhetinic Acid Derivatives. Molecules, 2019, 24, 766. | 3.8 | 14 |
| 32 | The landscape of tiered regulation of breast cancer cell metabolism. Scientific Reports, 2019, 9, 17760. | 3.3 | 15 |
| 33 | PhenoMeNal: processing and analysis of metabolomics data in the cloud. GigaScience, 2019, 8, . | 6.4 | 60 |
| 34 | 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 |
| 35 | Epigenetic loss of the endoplasmic reticulumâ€“associated degradation inhibitor SVIP induces cancer cell metabolic reprogramming. JCI Insight, 2019, 4, . | 5.0 | 14 |
| 36 | Decreased glycolysis as metabolic footprint of endothelial cells in chronic thromboembolic pulmonary hypertension. , 2019, , . | | 0 |

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| 37 | From correlation to causation: analysis of metabolomics data using systems biology approaches. Metabolomics, 2018, 14, 37. | 3.0 | 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. Journal of Breath Research, 2018, 12, 036007. | 3.0 | 8 |
| 39 | Network modules uncover mechanisms of skeletal muscle dysfunction in COPD patients. Journal of Translational Medicine, 2018, 16, 34. | 4.4 | 22 |
| 40 | Platinacycles Containing a Primary Amine Platinum(II) Compounds for Treating Cisplatin-Resistant Cancers by Oxidant Therapy. Organometallics, 2018, 37, 3502-3514. | 2.3 | 16 |
| 41 | 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 |
| 42 | Combining Metabolome, Transcriptome and Proteome Approaches to Identify Vulnerabilities in AML: Role of Pdks. Experimental Hematology, 2018, 64, S64. | 0.4 | 0 |
| 43 | Synthesis, characterization and biological activity of new cyclometallated platinum(<scp>iv</scp>) complexes containing a para-tolyl ligand. Dalton Transactions, 2018, 47, 8956-8971. | 3.3 | 7 |
| 44 | 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 |
| 45 | Preanalytical Processing and Biobanking Procedures of Biological Samples for Metabolomics Research: A White Paper, Community Perspective (for â€œPrecision Medicine and Pharmacometabolomics) Tj ETQq1 1 0.784314 rgB | 3.1 | 174 |
| 46 | Metabolic Alterations in Cardiopulmonary Vascular Dysfunction. Frontiers in Molecular Biosciences, 2018, 5, 120. | 3.5 | 20 |
| 47 | Model-driven discovery of long-chain fatty acid metabolic reprogramming in heterogeneous prostate cancer cells. PLoS Computational Biology, 2018, 14, e1005914. | 3.2 | 22 |
| 48 | Combined Analysis of NMR and MS Spectra (CANMS). Angewandte Chemie - International Edition, 2017, 56, 4140-4144. | 13.8 | 23 |
| 49 | Combined Analysis of NMR and MS Spectra (CANMS). Angewandte Chemie, 2017, 129, 4204-4208. | 2.0 | 3 |
| 50 | 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 |
| 51 | Novel celastrol derivatives with improved selectivity and enhanced antitumour activity: Design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2017, 138, 422-437. | 5.5 | 22 |
| 52 | The importance of post-translational modifications inÂsystems biology approaches to identify therapeuticÂtargets in cancer metabolism. Current Opinion in Systems Biology, 2017, 3, 161-169. | 2.6 | 9 |
| 53 | Synthesis, characterization and biological activity of new cyclometallated platinum(<scp>iv</scp>) iodido complexes. Dalton Transactions, 2017, 46, 14973-14987. | 3.3 | 21 |
| 54 | In-silico gene essentiality analysis of polyamine biosynthesis reveals APRT as a potential target in cancer. Scientific Reports, 2017, 7, 14358. | 3.3 | 10 |

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| 55 | De novo <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 |
| 56 | 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. | 5.5 | 25 |
| 57 | Combining transcriptome, quantitative proteome and metabolome approaches to identify targetable vulnerabilities in AML. Experimental Hematology, 2017, 53, S108. | 0.4 | 0 |
| 58 | Induction of oxidative metabolism by the p38Î±/MK2 pathway. Scientific Reports, 2017, 7, 11367. | 3.3 | 23 |
| 59 | Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. Progress in Preventive Medicine (New York, N Y ), 2017, 2, e006. | 0.7 | 6 |
| 60 | Glyceraldehyde-3-phosphate dehydrogenase is overexpressed in colorectal cancer onset. Translational Medicine Communications, 2017, 2, . | 1.4 | 15 |
| 61 | Molecular mechanisms underlying COPD-muscle dysfunction unveiled through a systems medicine approach. Bioinformatics, 2017, 33, 95-103. | 4.1 | 15 |
| 62 | Unveiling the Metabolic Changes on Muscle Cell Metabolism Underlying p-Phenylenediamine Toxicity. Frontiers in Molecular Biosciences, 2017, 4, 8. | 3.5 | 7 |
| 63 | MicroRNA-200, associated with metastatic breast cancer, promotes traits of mammary luminal progenitor cells. Oncotarget, 2017, 8, 83384-83406. | 1.8 | 23 |
| 64 | 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 |
| 65 | The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649. | 1.6 | 19 |
| 66 | The future of metabolomics in ELIXIR. F1000Research, 2017, 6, 1649. | 1.6 | 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. Npj Systems Biology and Applications, 2016, 2, 16011. | 3.0 | 21 |
| 69 | HepatoDyn: A Dynamic Model of Hepatocyte Metabolism That Integrates 13C Isotopomer Data. PLoS Computational Biology, 2016, 12, e1004899. | 3.2 | 14 |
| 70 | Oncogenic regulation of tumor metabolic reprogramming. Oncotarget, 2016, 7, 62726-62753. | 1.8 | 116 |
| 71 | Restrictions in ATP diffusion within sarcomeres can provoke ATP-depleted zones impairing exercise capacity in chronic obstructive pulmonary disease. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2269-2278. | 2.4 | 6 |
| 72 | Design, synthesis, and biological evaluation of novel asiatic acid derivatives as potential anticancer agents. RSC Advances, 2016, 6, 39296-39309. | 3.6 | 4 |

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| 73 | Metabolomics enables precision medicine: â€œA White Paper, Community Perspectiveâ€. Metabolomics, 2016, 12, 149. | 3.0 | 434 |
| 74 | On the stability and biological behavior of cyclometallated Pt(IV) complexes with halido and aryl ligands in the axial positions. Bioorganic and Medicinal Chemistry, 2016, 24, 5804-5815. | 3.0 | 17 |
| 75 | ChainRank, a chain prioritisation method for contextualisation of biological networks. BMC Bioinformatics, 2016, 17, 17. | 2.6 | 38 |
| 76 | 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 |
| 77 | Synthesis and biological evaluation of novel asiatic acid derivatives with anticancer activity. RSC Advances, 2016, 6, 3967-3985. | 3.6 | 14 |
| 78 | Synthesis and anticancer activity of novel fluorinated asiatic acid derivatives. European Journal of Medicinal Chemistry, 2016, 114, 101-117. | 5.5 | 40 |
| 79 | 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 |
| 80 | A key role for transketolase-like 1 in tumor metabolic reprogramming. Oncotarget, 2016, 7, 51875-51897. | 1.8 | 43 |
| 81 | COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. Metabolomics, 2015, 11, 1587-1597. | 3.0 | 140 |
| 82 | Methylseleninic acid promotes antitumour effects via nuclear FOXO3a translocation through Akt inhibition. Pharmacological Research, 2015, 102, 218-234. | 7.1 | 42 |
| 83 | Neutral and ionic platinum compounds containing a cyclometallated chiral primary amine: synthesis, antitumor activity, DNA interaction and topoisomerase Iâ€“cathepsin B inhibition. Dalton Transactions, 2015, 44, 13602-13614. | 3.3 | 26 |
| 84 | Sampling with poling-based flux balance analysis: optimal versus sub-optimal flux space analysis of Actinobacillus succinogenes. BMC Bioinformatics, 2015, 16, 49. | 2.6 | 11 |
| 85 | 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 |
| 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. PLoS ONE, 2014, 9, e80018. | 2.5 | 28 |
| 88 | Cardiovascular Disease-Related Parameters and Oxidative Stress in SHROB Rats, a Model for Metabolic Syndrome. PLoS ONE, 2014, 9, e104637. | 2.5 | 16 |
| 89 | 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 |
| 90 | Cancer cell metabolism as new targets for novel designed therapies. Future Medicinal Chemistry, 2014, 6, 1791-1810. | 2.3 | 22 |

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| 91 | Partial and Transient Reduction of Glycolysis by PFKFB3 Blockade Reduces Pathological Angiogenesis. Cell Metabolism, 2014, 19, 37-48. | 16.2 | 429 |
| 92 | Design of an interface peptide as new inhibitor of human glucose-6-phosphate dehydrogenase. Journal of Molecular Graphics and Modelling, 2014, 49, 110-117. | 2.4 | 4 |
| 93 | Effect of crowding by Dextrans in enzymatic reactions. Biophysical Chemistry, 2014, 185, 8-13. | 2.8 | 61 |
| 94 | Quantitative Proteomic Approach to Understand Metabolic Adaptation in Non-Small Cell Lung Cancer. Journal of Proteome Research, 2014, 13, 4695-4704. | 3.7 | 28 |
| 95 | A novel cyclometallated Pt(ii)â€“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 |
| 96 | Exploring the Scope of [Pt<sub>2</sub>(4-FC<sub>6</sub>H<sub>4</sub>)<sub>4</sub>(Î¼-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 |
| 97 | Macromolecular Crowding Effect upon in Vitro Enzyme Kinetics: Mixed Activationâ€“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 |
| 98 | Cyclopalladated primary amines: A preliminary study of antiproliferative activity through apoptosis induction. European Journal of Medicinal Chemistry, 2014, 84, 530-536. | 5.5 | 20 |
| 99 | Validation of NCM460 cell model as control in antitumor strategies targeting colon adenocarcinoma metabolic reprogramming: Trichostatin A as a case study. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1634-1639. | 2.4 | 12 |
| 100 | Systems Medicine: from molecular features and models to the clinic in COPD. Journal of Translational Medicine, 2014, 12, S4. | 4.4 | 23 |
| 101 | Chronic Obstructive Pulmonary Disease heterogeneity: challenges for health risk assessment, stratification and management. Journal of Translational Medicine, 2014, 12, S3. | 4.4 | 34 |
| 102 | Biomedical research in a Digital Health Framework. Journal of Translational Medicine, 2014, 12, S10. | 4.4 | 21 |
| 103 | Workforce preparation: the Biohealth computing model for Master and PhD students. Journal of Translational Medicine, 2014, 12, S11. | 4.4 | 11 |
| 104 | Predictive medicine: outcomes, challenges and opportunities in the Synergy-COPD project. Journal of Translational Medicine, 2014, 12, S12. | 4.4 | 6 |
| 105 | Synergy-COPD: a systems approach for understanding and managing chronic diseases. Journal of Translational Medicine, 2014, 12, S2. | 4.4 | 19 |
| 106 | The COPD Knowledge Base: enabling data analysis and computational simulation in translational COPD research. Journal of Translational Medicine, 2014, 12, S6. | 4.4 | 26 |
| 107 | Fluxomics. , 2014, , 237-250. | | 3 |
| 108 | Oxygen Pathway Modeling Estimates High Reactive Oxygen Species Production above the Highest Permanent Human Habitation. PLoS ONE, 2014, 9, e111068. | 2.5 | 14 |

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| 109 | 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 |
| 110 | Diastereomerically pure platinum(II) complexes as antitumoral agents.. Journal of Inorganic Biochemistry, 2013, 118, 1-12. | 3.5 | 30 |
| 111 | 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 |
| 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^' (E=N,S) ligands: Cytotoxic studies, effect on DNA tertiary structure and structureâ€“activity relationships. Bioorganic and Medicinal Chemistry, 2013, 21, 4210-4217. | 3.0 | 22 |
| 114 | A key role for mitochondrial gatekeeper pyruvate dehydrogenase in oncogene-induced senescence. Nature, 2013, 498, 109-112. | 27.8 | 517 |
| 115 | Epicatechin Gallate Impairs Colon Cancer Cell Metabolic Productivity. Journal of Agricultural and Food Chemistry, 2013, 61, 4310-4317. | 5.2 | 42 |
| 116 | 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 |
| 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. New Journal of Chemistry, 2013, 37, 2043. | 2.8 | 4 |
| 118 | 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 |
| 119 | Maslinic Acid-Enriched Diet Decreases Intestinal Tumorigenesis in ApcMin/+ Mice through Transcriptomic and Metabolomic Reprogramming. PLoS ONE, 2013, 8, e59392. | 2.5 | 46 |
| 120 | Multistationary and Oscillatory Modes of Free Radicals Generation by the Mitochondrial Respiratory Chain Revealed by a Bifurcation Analysis. PLoS Computational Biology, 2012, 8, e1002700. | 3.2 | 19 |
| 121 | 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 |
| 122 | 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 |
| 123 | Muscle and blood redox status after exercise training in severe COPD patients. Free Radical Biology and Medicine, 2012, 52, 88-94. | 2.9 | 89 |
| 124 | Integrating tracer-based metabolomics data and metabolic fluxes in a linear fashion via Elementary Carbon Modes. Metabolic Engineering, 2012, 14, 344-353. | 7.0 | 10 |
| 125 | Punicalagin and Catechins Contain Polyphenolic Substructures That Influence Cell Viability and Can Be Monitored by Radical Chemosensors Sensitive to Electron Transfer. Journal of Agricultural and Food Chemistry, 2012, 60, 1659-1665. | 5.2 | 10 |
| 126 | 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. | 5.5 | 37 |

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| 127 | Introduction to Metabolic Control Analysis (MCA). Methods in Pharmacology and Toxicology, 2012, , 279-297. | 0.2 | 2 |
| 128 | Hamamelitannin from Witch Hazel (Hamamelis virginiana) Displays Specific Cytotoxic Activity against Colon Cancer Cells. Journal of Natural Products, 2012, 75, 26-33. | 3.0 | 35 |
| 129 | Diphenyl Urea Derivatives as Inhibitors of Transketolase: A Structure-Based Virtual Screening. PLoS ONE, 2012, 7, e32276. | 2.5 | 9 |
| 130 | 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 |
| 131 | Plasma metabolic profile in COPD patients: effects of exercise and endurance training. Metabolomics, 2012, 8, 508-516. | 3.0 | 37 |
| 132 | Application of Tracer-Based Metabolomics and Flux Analysis in Targeted Cancer Drug Design. Methods in Pharmacology and Toxicology, 2012, , 299-320. | 0.2 | 2 |
| 133 | Thermodynamically constrained Flux and Control Analysis of Escherichia coli. Computer Aided Chemical Engineering, 2012, 30, 1377-1381. | 0.5 | 3 |
| 134 | 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 |
| 135 | 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 |
| 136 | Effect of Crowding by Dextrans on the Hydrolysis of N-Succinyl-<scp>l</scp>-phenyl-Ala-p-nitroanilide Catalyzed by Î±-Chymotrypsin. Journal of Physical Chemistry B, 2011, 115, 1115-1121. | 2.6 | 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. Biochimie, 2011, 93, 1065-1075. | 2.6 | 45 |
| 138 | Enzymatic and metabolic characterization of the phosphoglycerate kinase deficiency associated with chronic hemolytic anemia caused by the PGK-Barcelona mutation. Blood Cells, Molecules, and Diseases, 2011, 46, 206-211. | 1.4 | 11 |
| 139 | Glycerol metabolic conversion to succinic acid using Actinobacillus succinogenes. Computer Aided Chemical Engineering, 2011, 29, 1421-1425. | 0.5 | 10 |
| 140 | Transketolase-Like 1 Expression Is Modulated during Colorectal Cancer Progression and Metastasis Formation. PLoS ONE, 2011, 6, e25323. | 2.5 | 50 |
| 141 | Platinum(II) and palladium(II) complexes with (N,Nâ€²) and (C,N,Nâ€²)â^' 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 |
| 142 | Compartmentation of glycogen metabolism revealed from 13C isotopologue distributions. BMC Systems Biology, 2011, 5, 175. | 3.0 | 23 |
| 143 | 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 |
| 144 | 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 |

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|---|---|---|---|
| 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 â€œatomicâ€•level? Integrating tracer-based metabolomics data and elementary flux modes. BioSystems, 2011, 105, 140-146. | 2.0 | 6 |
| 147 | Ferroceneâ€“indole hybrids for cancer and malaria therapy. Journal of Organometallic Chemistry, 2011, 696, 1011-1017. | 1.8 | 65 |
| 148 | Novel Phenazine 5,10-Dioxides Release <sup>â€¢</sup>OH in Simulated Hypoxia and Induce Reduction of Tumour Volume In Vivo. 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. | 3.2 | 133 |
| 150 | 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 |
| 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. | 2.9 | 44 |
| 152 | Metabolic network adaptations in cancer as targets for novel therapies. Biochemical Society Transactions, 2010, 38, 1302-1306. | 3.4 | 27 |
| 153 | Histone deacetylase inhibition results in a common metabolic profile associated with HT29 differentiation. Metabolomics, 2010, 6, 229-237. | 3.0 | 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. | 3.0 | 24 |
| 156 | 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 |
| 157 | Substrate Fate in Activated Macrophages: A Comparison between Innate, Classic, and Alternative Activation. Journal of Immunology, 2010, 185, 605-614. | 0.8 | 820 |
| 158 | Diffusion of Î±-Chymotrypsin in Solution-Crowded Media. A Fluorescence Recovery after Photobleaching Study. Journal of Physical Chemistry B, 2010, 114, 4028-4034. | 2.6 | 35 |
| 159 | Bistability of Mitochondrial Respiration Underlies Paradoxical Reactive Oxygen Species Generation Induced by Anoxia. PLoS Computational Biology, 2009, 5, e1000619. | 3.2 | 58 |
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