

Francisco J Planes

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,829
citations

516710

16
h-index

302126

39
g-index

49
all docs

49
docs citations

49
times ranked

2856
citing authors

#	ARTICLE	IF	CITATIONS
1	Creation and analysis of biochemical constraint-based models using the COBRA Toolbox v.3.0. <i>Nature Protocols</i> , 2019, 14, 639-702.	12.0	833
2	Computing the shortest elementary flux modes in genome-scale metabolic networks. <i>Bioinformatics</i> , 2009, 25, 3158-3165.	4.1	184
3	Joint analysis of miRNA and mRNA expression data. <i>Briefings in Bioinformatics</i> , 2013, 14, 263-278.	6.5	104
4	CANCERTOOL: A Visualization and Representation Interface to Exploit Cancer Datasets. <i>Cancer Research</i> , 2018, 78, 6320-6328.	0.9	76
5	A critical examination of stoichiometric and path-finding approaches to metabolic pathways. <i>Briefings in Bioinformatics</i> , 2008, 9, 422-436.	6.5	50
6	Bioinformatic progress and applications in metaproteogenomics for bridging the gap between genomic sequences and metabolic functions in microbial communities. <i>Proteomics</i> , 2013, 13, 2786-2804.	2.2	46
7	Path finding methods accounting for stoichiometry in metabolic networks. <i>Genome Biology</i> , 2011, 12, R49.	9.6	45
8	Selection of human tissue-specific elementary flux modes using gene expression data. <i>Bioinformatics</i> , 2013, 29, 2009-2016.	4.1	38
9	Recovering metabolic pathways via optimization. <i>Bioinformatics</i> , 2007, 23, 92-98.	4.1	35
10	An in-silico approach to predict and exploit synthetic lethality in cancer metabolism. <i>Nature Communications</i> , 2017, 8, 459.	12.8	35
11	Direct calculation of elementary flux modes satisfying several biological constraints in genome-scale metabolic networks. <i>Bioinformatics</i> , 2014, 30, 2197-2203.	4.1	31
12	Context-specific metabolic network reconstruction of a naphthalene-degrading bacterial community guided by metaproteomic data. <i>Bioinformatics</i> , 2015, 31, 1771-1779.	4.1	31
13	Characterization of complete lncRNAs transcriptome reveals the functional and clinical impact of lncRNAs in multiple myeloma. <i>Leukemia</i> , 2021, 35, 1438-1450.	7.2	28
14	TreeEFM: calculating elementary flux modes using linear optimization in a tree-based algorithm. <i>Bioinformatics</i> , 2015, 31, 897-904.	4.1	26
15	In-Silico Prediction of Key Metabolic Differences between Two Non-Small Cell Lung Cancer Subtypes. <i>PLoS ONE</i> , 2014, 9, e103998.	2.5	25
16	Advances in network-based metabolic pathway analysis and gene expression data integration. <i>Briefings in Bioinformatics</i> , 2015, 16, 265-279.	6.5	25
17	Refining carbon flux paths using atomic trace data. <i>Bioinformatics</i> , 2014, 30, 975-980.	4.1	19
18	An extended reconstruction of human gut microbiota metabolism of dietary compounds. <i>Nature Communications</i> , 2021, 12, 4728.	12.8	19

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19	<i>gMCS</i> : fast computation of genetic minimal cut sets in large networks. <i>Bioinformatics</i> , 2019, 35, 535-537.	4.1	18
20	Path finding approaches and metabolic pathways. <i>Discrete Applied Mathematics</i> , 2009, 157, 2244-2256.	0.9	17
21	A network-based approach for predicting key enzymes explaining metabolite abundance alterations in a disease phenotype. <i>BMC Systems Biology</i> , 2013, 7, 62.	3.0	14
22	Assessment of FBA Based Gene Essentiality Analysis in Cancer with a Fast Context-Specific Network Reconstruction Method. <i>PLoS ONE</i> , 2016, 11, e0154583.	2.5	13
23	Direct calculation of minimal cut sets involving a specific reaction knock-out. <i>Bioinformatics</i> , 2016, 32, 2001-2007.	4.1	11
24	Adaptation of the Human Gut Microbiota Metabolic Network During the First Year After Birth. <i>Frontiers in Microbiology</i> , 2019, 10, 848.	3.5	11
25	rMTA: robust metabolic transformation analysis. <i>Bioinformatics</i> , 2019, 35, 4350-4355.	4.1	11
26	Gene expression derived from alternative promoters improves prognostic stratification in multiple myeloma. <i>Leukemia</i> , 2021, 35, 3012-3016.	7.2	11
27	Integrating tracer-based metabolomics data and metabolic fluxes in a linear fashion via Elementary Carbon Modes. <i>Metabolic Engineering</i> , 2012, 14, 344-353.	7.0	10
28	In-silico gene essentiality analysis of polyamine biosynthesis reveals APRT as a potential target in cancer. <i>Scientific Reports</i> , 2017, 7, 14358.	3.3	10
29	Prediction of degradation pathways of phenolic compounds in the human gut microbiota through enzyme promiscuity methods. <i>Npj Systems Biology and Applications</i> , 2022, 8, .	3.0	8
30	Do elementary flux modes combine linearly at the atomic level? Integrating tracer-based metabolomics data and elementary flux modes. <i>BioSystems</i> , 2011, 105, 140-146.	2.0	6
31	DrugSniper, a Tool to Exploit Loss-Of-Function Screens, Identifies CREBBP as a Predictive Biomarker of VOLASERTIB in Small Cell Lung Carcinoma (SCLC). <i>Cancers</i> , 2020, 12, 1824.	3.7	6
32	Integrating gene and protein expression data with genome-scale metabolic networks to infer functional pathways. <i>BMC Systems Biology</i> , 2013, 7, 134.	3.0	5
33	On the inconsistent treatment of gene-protein-reaction rules in context-specific metabolic models. <i>Bioinformatics</i> , 2020, 36, 1986-1988.	4.1	5
34	A network-based approach to integrate nutrient microenvironment in the prediction of synthetic lethality in cancer metabolism. <i>PLoS Computational Biology</i> , 2022, 18, e1009395.	3.2	5
35	The bone marrow niche regulates redox and energy balance in MLL::AF9 leukemia stem cells. <i>Leukemia</i> , 2022, 36, 1969-1979.	7.2	5
36	COBRA methods and metabolic drug targets in cancer. <i>Molecular and Cellular Oncology</i> , 2018, 5, e1389672.	0.7	3

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37	TranscriptAchilles: a genome-wide platform to predict isoform biomarkers of gene essentiality in cancer. <i>GigaScience</i> , 2019, 8, .	6.4	3
38	BOSO: A novel feature selection algorithm for linear regression with high-dimensional data. <i>PLoS Computational Biology</i> , 2022, 18, e1010180.	3.2	3
39	Computational approach for collection and prediction of molecular initiating events in developmental toxicity. <i>Reproductive Toxicology</i> , 2020, 94, 55-64.	2.9	2
40	Characterization of Complete Lncrnas Transcriptome Reveals Expression of Lncrnas As a Prognostic Factor and Linc-Smilo As a Potential Therapeutic Target in Multiple Myeloma. <i>Blood</i> , 2019, 134, 4323-4323.	1.4	1
41	Landscape and clinical significance of long noncoding <scp>RNAs</scp> involved in multiple myeloma expressed fusion transcripts. <i>American Journal of Hematology</i> , 2022, 97, .	4.1	1
42	Exploring the connectivity structure in metabolic networks: Going beyond graphs via discrete optimization. , 2011, , .		0
43	In silico platform based on bioinformatic and chemoinformatic data to complement zebrafish embryo teratogenicity test. <i>Toxicology Letters</i> , 2017, 280, S121.	0.8	0
44	Lncrnas As New Partners of Novel Chimeric Transcripts in Multiple Myeloma. <i>Blood</i> , 2019, 134, 4356-4356.	1.4	0
45	Computational Systems Biology Models for the Identification of Metabolic Vulnerabilities in Multiple Myeloma. <i>Blood</i> , 2019, 134, 3084-3084.	1.4	0