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List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,729
citations

430874

18
h-index

414414

32
g-index

37
all docs

37
docs citations

37
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	Multidimensional Optimality of Microbial Metabolism. <i>Science</i> , 2012, 336, 601-604.	12.6	360
2	Metabolic constraints on the evolution of antibiotic resistance. <i>Molecular Systems Biology</i> , 2017, 13, 917.	7.2	151
3	Nontargeted Metabolomics Reveals the Multilevel Response to Antibiotic Perturbations. <i>Cell Reports</i> , 2017, 19, 1214-1228.	6.4	139
4	Frontiers of high-throughput metabolomics. <i>Current Opinion in Chemical Biology</i> , 2017, 36, 15-23.	6.1	139
5	Genomewide landscape of gene-metabolome associations in <i>Escherichia coli</i> . <i>Molecular Systems Biology</i> , 2017, 13, 907.	7.2	109
6	Metabolic profiling of cancer cells reveals genome-wide crosstalk between transcriptional regulators and metabolism. <i>Nature Communications</i> , 2019, 10, 1841.	12.8	108
7	High-throughput metabolomic analysis predicts mode of action of uncharacterized antimicrobial compounds. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	102
8	Regulatory mechanisms underlying coordination of amino acid and glucose catabolism in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2019, 10, 3354.	12.8	101
9	Dynamic phosphoproteomics reveals TORC1-dependent regulation of yeast nucleotide and amino acid biosynthesis. <i>Science Signaling</i> , 2015, 8, rs4.	3.6	64
10	Metabolomics-Driven Exploration of the Chemical Drug Space to Predict Combination Antimicrobial Therapies. <i>Molecular Cell</i> , 2019, 74, 1291-1303.e6.	9.7	57
11	Systematic Analysis of Transcriptional and Post-transcriptional Regulation of Metabolism in Yeast. <i>PLoS Computational Biology</i> , 2017, 13, e1005297.	3.2	51
12	Combining CRISPRi and metabolomics for functional annotation of compound libraries. <i>Nature Chemical Biology</i> , 2022, 18, 482-491.	8.0	33
13	Large-scale functional analysis of the roles of phosphorylation in yeast metabolic pathways. <i>Science Signaling</i> , 2014, 7, rs6.	3.6	32
14	Discerning static and causal interactions in genome-wide reverse engineering problems. <i>Bioinformatics</i> , 2008, 24, 1510-1515.	4.1	31
15	A computational procedure to identify significant overlap of differentially expressed and genomic imbalanced regions in cancer datasets. <i>Nucleic Acids Research</i> , 2009, 37, 5057-5070.	14.5	27
16	Predicting and characterizing selective multiple drug treatments for metabolic diseases and cancer. <i>BMC Systems Biology</i> , 2012, 6, 115.	3.0	26
17	A framework for large-scale metabolome drug profiling links coenzyme A metabolism to the toxicity of anti-cancer drug dichloroacetate. <i>Communications Biology</i> , 2018, 1, 101.	4.4	26
18	Model-based integration of genomics and metabolomics reveals SNP functionality in <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8494-8502.	7.1	24

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19	Detection of transcriptional triggers in the dynamics of microbial growth: application to the respiratorily versatile bacterium <i>Shewanella oneidensis</i> . <i>Nucleic Acids Research</i> , 2012, 40, 7132-7149.	14.5	20
20	Metabolomics-driven understanding of genotype-phenotype relations in model organisms. <i>Current Opinion in Systems Biology</i> , 2017, 6, 28-36.	2.6	17
21	Investigating the Conformational Stability of Prion Strains through a Kinetic Replication Model. <i>PLoS Computational Biology</i> , 2009, 5, e1000420.	3.2	15
22	Model-based media selection to minimize the cost of metabolic cooperation in microbial ecosystems. <i>Bioinformatics</i> , 2016, 32, 1733-1739.	4.1	13
23	Pareto optimality between growth-rate and lag-time couples metabolic noise to phenotypic heterogeneity in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2021, 12, 3204.	12.8	13
24	Origin of Co-Expression Patterns in <i>E.coli</i> and <i>S.cerevisiae</i> Emerging from Reverse Engineering Algorithms. <i>PLoS ONE</i> , 2008, 3, e2981.	2.5	11
25	A system-level approach for deciphering the transcriptional response to prion infection. <i>Bioinformatics</i> , 2011, 27, 3407-3414.	4.1	10
26	The genetic underground of antibiotic resistance. <i>Science</i> , 2021, 371, 783-784.	12.6	9
27	Gene expression profiling to identify druggable targets in prion diseases. <i>Expert Opinion on Drug Discovery</i> , 2010, 5, 177-202.	5.0	7
28	mRNA stability and the unfolding of gene expression in the long-period yeast metabolic cycle. <i>BMC Systems Biology</i> , 2009, 3, 18.	3.0	6
29	From the metabolic profiling of drug response to drug mode of action. <i>Current Opinion in Systems Biology</i> , 2018, 10, 26-33.	2.6	6
30	Expanding the search for small-molecule antibacterials by multidimensional profiling. <i>Nature Chemical Biology</i> , 2022, 18, 584-595.	8.0	6
31	Expression Dysregulation as a Mediator of Fitness Costs in Antibiotic Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, e0050421.	3.2	5