

Delphine Ropers

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,243
citations

471509

17
h-index

501196

28
g-index

36
all docs

36
docs citations

36
times ranked

1438
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of qualitative models of genetic regulatory networks by model checking: analysis of the nutritional stress response in <i>Escherichia coli</i> . <i>Bioinformatics</i> , 2005, 21, i19-i28.	4.1	141
2	Acetate Metabolism and the Inhibition of Bacterial Growth by Acetate. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	137
3	Shared control of gene expression in bacteria by transcription factors and global physiology of the cell. <i>Molecular Systems Biology</i> , 2013, 9, 634.	7.2	127
4	Qualitative simulation of the carbon starvation response in <i>Escherichia coli</i> . <i>BioSystems</i> , 2006, 84, 124-152.	2.0	106
5	Experimental and computational validation of models of fluorescent and luminescent reporter genes in bacteria. <i>BMC Systems Biology</i> , 2010, 4, 55.	3.0	78
6	A synthetic growth switch based on controlled expression of RNA polymerase. <i>Molecular Systems Biology</i> , 2015, 11, 840.	7.2	76
7	Temporal logic patterns for querying dynamic models of cellular interaction networks. <i>Bioinformatics</i> , 2008, 24, i227-i233.	4.1	68
8	Differential Effects of the SR Proteins 9G8, SC35, ASF/SF2, and SRp40 on the Utilization of the A1 to A5 Splicing Sites of HIV-1 RNA. <i>Journal of Biological Chemistry</i> , 2004, 279, 29963-29973.	3.4	66
9	Biochemical and NMR Study on the Competition between Proteins SC35, SRp40, and Heterogeneous Nuclear Ribonucleoprotein A1 at the HIV-1 Tat Exon 2 Splicing Site. <i>Journal of Biological Chemistry</i> , 2006, 281, 37159-37174.	3.4	50
10	The Carbon Assimilation Network in <i>Escherichia coli</i> Is Densely Connected and Largely Sign-Determined by Directions of Metabolic Fluxes. <i>PLoS Computational Biology</i> , 2010, 6, e1000812.	3.2	46
11	Mathematical modelling of microbes: metabolism, gene expression and growth. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170502.	3.4	46
12	The post-transcriptional regulatory system CSR controls the balance of metabolic pools in upper glycolysis of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2016, 100, 686-700.	2.5	42
13	A declarative constraint-based method for analyzing discrete genetic regulatory networks. <i>BioSystems</i> , 2009, 98, 91-104.	2.0	37
14	Genetic Network Analyzer: A Tool for the Qualitative Modeling and Simulation of Bacterial Regulatory Networks. <i>Methods in Molecular Biology</i> , 2012, 804, 439-462.	0.9	31
15	Strategies for dealing with incomplete information in the modeling of molecular interaction networks. <i>Briefings in Bioinformatics</i> , 2006, 7, 354-363.	6.5	23
16	The Csr System Regulates <i>Escherichia coli</i> Fitness by Controlling Glycogen Accumulation and Energy Levels. <i>MBio</i> , 2017, 8, .	4.1	21
17	Model Reduction Using Piecewise-Linear Approximations Preserves Dynamic Properties of the Carbon Starvation Response in <i>Escherichia coli</i> . <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2011, 8, 166-181.	3.0	20
18	Resource Reallocation in Bacteria by Reengineering the Gene Expression Machinery. <i>Trends in Microbiology</i> , 2017, 25, 480-493.	7.7	19

#	ARTICLE	IF	CITATIONS
19	Robust reconstruction of gene expression profiles from reporter gene data using linear inversion. <i>Bioinformatics</i> , 2015, 31, i71-i79.	4.1	17
20	Importance of metabolic coupling for the dynamics of gene expression following a diauxic shift in <i>Escherichia coli</i> . <i>Journal of Theoretical Biology</i> , 2012, 295, 100-115.	1.7	16
21	An ensemble of mathematical models showing diauxic growth behaviour. <i>BMC Systems Biology</i> , 2018, 12, 82.	3.0	16
22	Estimation of time-varying growth, uptake and excretion rates from dynamic metabolomics data. <i>Bioinformatics</i> , 2017, 33, i301-i310.	4.1	15
23	A genome-wide screen for identifying all regulators of a target gene. <i>Nucleic Acids Research</i> , 2013, 41, e164-e164.	14.5	12
24	A multi-scale constraint programming model of alternative splicing regulation. <i>Theoretical Computer Science</i> , 2004, 325, 3-24.	0.9	7
25	Piecewise linear approximations to model the dynamics of adaptation to osmotic stress by food-borne pathogens. <i>International Journal of Food Microbiology</i> , 2017, 240, 63-74.	4.7	6
26	Qualitative Analysis of Genetic Regulatory Networks in Bacteria. , 2011, , 111-130.		4
27	Multimiomics Study of Bacterial Growth Arrest in a Synthetic Biology Application. <i>ACS Synthetic Biology</i> , 2021, 10, 2910-2926.	3.8	4
28	Reduction and Stability Analysis of a Transcription-Translation Model of RNA Polymerase. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 294-318.	1.9	3
29	Stability analysis of a reduced transcription-translation model of RNA polymerase. , 2014, , .		2
30	Principal process analysis of biological models. <i>BMC Systems Biology</i> , 2018, 12, 68.	3.0	2
31	Model reduction and process analysis of biological models. , 2015, , .		1
32	Reduction of a Kinetic Model of the Carbon Starvation Response in <i>Escherichia coli</i> . <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 27-32.	0.4	0
33	Importance of Metabolic Coupling for the Dynamics of Gene Expression Following a Diauxic Shift in <i>E. coli</i> . <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 14851-14856.	0.4	0
34	Data for the qualitative modeling of the osmotic stress response to NaCl in <i>Escherichia coli</i> . <i>Data in Brief</i> , 2016, 9, 606-612.	1.0	0