

Rutger Hermsen

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

892
citations

840776

11
h-index

888059

17
g-index

26
all docs

26
docs citations

26
times ranked

1193
citing authors

#	ARTICLE	IF	CITATIONS
1	The Innate Growth Bistability and Fitness Landscapes of Antibiotic-Resistant Bacteria. <i>Science</i> , 2013, 342, 1237435.	12.6	168
2	On the rapidity of antibiotic resistance evolution facilitated by a concentration gradient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10775-10780.	7.1	162
3	Transcriptional Regulation by Competing Transcription Factor Modules. <i>PLoS Computational Biology</i> , 2006, 2, e164.	3.2	100
4	A growth-rate composition formula for the growth of <i>E. coli</i> on co-utilized carbon substrates. <i>Molecular Systems Biology</i> , 2015, 11, 801.	7.2	89
5	The naive T-cell receptor repertoire has an extremely broad distribution of clone sizes. <i>ELife</i> , 2020, 9, .	6.0	61
6	Sources and Sinks: A Stochastic Model of Evolution in Heterogeneous Environments. <i>Physical Review Letters</i> , 2010, 105, 248104.	7.8	58
7	Speed, Sensitivity, and Bistability in Auto-activating Signaling Circuits. <i>PLoS Computational Biology</i> , 2011, 7, e1002265.	3.2	51
8	Regulation underlying hierarchical and simultaneous utilization of carbon substrates by flux sensors in <i>Escherichia coli</i> . <i>Nature Microbiology</i> , 2020, 5, 206-215.	13.3	44
9	Combinatorial Gene Regulation Using Auto-Regulation. <i>PLoS Computational Biology</i> , 2010, 6, e1000813.	3.2	34
10	Identical sequences found in distant genomes reveal frequent horizontal transfer across the bacterial domain. <i>ELife</i> , 2021, 10, .	6.0	23
11	Chance and necessity in chromosomal gene distributions. <i>Trends in Genetics</i> , 2008, 24, 216-219.	6.7	22
12	Noise propagation in an integrated model of bacterial gene expression and growth. <i>PLoS Computational Biology</i> , 2018, 14, e1006386.	3.2	20
13	Toxin production spontaneously becomes regulated by local cell density in evolving bacterial populations. <i>PLoS Computational Biology</i> , 2019, 15, e1007333.	3.2	15
14	Hierarchical and simultaneous utilization of carbon substrates: mechanistic insights, physiological roles, and ecological consequences. <i>Current Opinion in Microbiology</i> , 2021, 63, 172-178.	5.1	13
15	Repeated outbreaks drive the evolution of bacteriophage communication. <i>ELife</i> , 2021, 10, .	6.0	11
16	The adaptation rate of a quantitative trait in an environmental gradient. <i>Physical Biology</i> , 2016, 13, 065003.	1.8	9
17	The effect of natural selection on the propagation of protein expression noise to bacterial growth. <i>PLoS Computational Biology</i> , 2021, 17, e1009208.	3.2	5