

GÃ¼rol M SÃ¼el

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

4,738
citations

318942

23
h-index

425179

34
g-index

37
all docs

37
docs citations

37
times ranked

5937
citing authors

#	ARTICLE	IF	CITATIONS
1	A segmentation clock patterns cellular differentiation in a bacterial biofilm. <i>Cell</i> , 2022, 185, 145-157.e13.	13.5	31
2	Localized electrical stimulation triggers cell-type-specific proliferation in biofilms. <i>Cell Systems</i> , 2022, 13, 488-498.e4.	2.9	8
3	IonoBiology: The functional dynamics of the intracellular metallome, with lessons from bacteria. <i>Cell Systems</i> , 2021, 12, 497-508.	2.9	15
4	Encoding Membrane-Potential-Based Memory within a Microbial Community. <i>Cell Systems</i> , 2020, 10, 417-423.e3.	2.9	71
5	Spiral Wave Propagation in Communities with Spatially Correlated Heterogeneity. <i>Biophysical Journal</i> , 2020, 118, 1721-1732.	0.2	3
6	Encoding Spatial Memory within a Bacterial Biofilm Community. <i>Biophysical Journal</i> , 2020, 118, 610a.	0.2	2
7	Metabolic basis of brain-like electrical signalling in bacterial communities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180382.	1.8	38
8	Magnesium Flux Modulates Ribosomes to Increase Bacterial Survival. <i>Cell</i> , 2019, 177, 352-360.e13.	13.5	77
9	Statistics of correlated percolation in a bacterial community. <i>PLoS Computational Biology</i> , 2019, 15, e1007508.	1.5	5
10	Signal Percolation within a Bacterial Community. <i>Cell Systems</i> , 2018, 7, 137-145.e3.	2.9	77
11	Bistable emergence of oscillations in growing <i>Bacillus subtilis</i> biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8333-E8340.	3.3	41
12	Species-Independent Attraction to Biofilms through Electrical Signaling. <i>Cell</i> , 2017, 168, 200-209.e12.	13.5	232
13	Coupling between distant biofilms and emergence of nutrient time-sharing. <i>Science</i> , 2017, 356, 638-642.	6.0	192
14	SnapShot: Electrochemical Communication in Biofilms. <i>Cell</i> , 2017, 170, 214-214.e1.	13.5	40
15	Noise Expands the Response Range of the <i>Bacillus subtilis</i> Competence Circuit. <i>PLoS Computational Biology</i> , 2016, 12, e1004793.	1.5	20
16	Slowdown of growth controls cellular differentiation. <i>Molecular Systems Biology</i> , 2016, 12, 871.	3.2	33
17	Chromosomal Arrangement of Phosphorelay Genes Couples Sporulation and DNA Replication. <i>Cell</i> , 2015, 162, 328-337.	13.5	79
18	Metabolic co-dependence gives rise to collective oscillations within biofilms. <i>Nature</i> , 2015, 523, 550-554.	13.7	393

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19	Ion channels enable electrical communication in bacterial communities. <i>Nature</i> , 2015, 527, 59-63.	13.7	527
20	A Synthetic Quorum Sensing System Reveals a Potential Private Benefit for Public Good Production in a Biofilm. <i>PLoS ONE</i> , 2015, 10, e0132948.	1.1	24
21	Inverse Gillespie for inferring stochastic reaction mechanisms from intermittent samples. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12990-12995.	3.3	11
22	Circuit-level input integration in bacterial gene regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7091-7096.	3.3	19
23	Localized cell death focuses mechanical forces during 3D patterning in a biofilm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18891-18896.	3.3	305
24	Identification of F-actin as the Dynamic Hub in a Microbial-Induced GTPase Polarity Circuit. <i>Cell</i> , 2012, 148, 803-815.	13.5	33
25	Temporal competition between differentiation programs determines cell fate choice. <i>Molecular Systems Biology</i> , 2011, 7, 557.	3.2	67
26	Use of Fluorescence Microscopy to Analyze Genetic Circuit Dynamics. <i>Methods in Enzymology</i> , 2011, 497, 275-293.	0.4	15
27	Reversible and Noisy Progression towards a Commitment Point Enables Adaptable and Reliable Cellular Decision-Making. <i>PLoS Computational Biology</i> , 2011, 7, e1002273.	1.5	35
28	Biological role of noise encoded in a genetic network motif. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13300-13305.	3.3	79
29	Capacity for stochastic self-renewal and differentiation in mammalian spermatogonial stem cells. <i>Journal of Cell Biology</i> , 2009, 187, 513-524.	2.3	29
30	Architecture-Dependent Noise Discriminates Functionally Analogous Differentiation Circuits. <i>Cell</i> , 2009, 139, 512-522.	13.5	242
31	A genetic timer through noise-induced stabilization of an unstable state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15732-15737.	3.3	69
32	Tunability and Noise Dependence in Differentiation Dynamics. <i>Science</i> , 2007, 315, 1716-1719.	6.0	448
33	An excitable gene regulatory circuit induces transient cellular differentiation. <i>Nature</i> , 2006, 440, 545-550.	13.7	740
34	Evolutionarily conserved networks of residues mediate allosteric communication in proteins. <i>Nature Structural Biology</i> , 2003, 10, 59-69.	9.7	734