

Heterogeneity in surface sensing suggests a division of populations

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Discovery and Therapeutic Targeting of Differentiated Biofilm Subpopulations. <i>Frontiers in Microbiology</i> , 2019, 10, 1908.	1.5	28
2	How bacteria recognise and respond to surface contact. <i>FEMS Microbiology Reviews</i> , 2020, 44, 106-122.	3.9	92
3	Bacterial nanotubes mediate bacterial growth on periodic nano-pillars. <i>Soft Matter</i> , 2020, 16, 7613-7623.	1.2	6
4	Single-Cell Tracking on Polymer Microarrays Reveals the Impact of Surface Chemistry on <i>Pseudomonas aeruginosa</i> Twitching Speed and Biofilm Development. <i>ACS Applied Bio Materials</i> , 2020, 3, 8471-8480.	2.3	6
5	Current Knowledge and Future Directions in Developing Strategies to Combat <i>Pseudomonas aeruginosa</i> Infection. <i>Journal of Molecular Biology</i> , 2020, 432, 5509-5528.	2.0	27
6	Enhancing bacterial survival through phenotypic heterogeneity. <i>PLoS Pathogens</i> , 2020, 16, e1008439.	2.1	36
7	A 3D soil-like nanostructured fabric for the development of bacterial biofilms for agricultural and environmental uses. <i>Environmental Science: Nano</i> , 2020, 7, 2546-2572.	2.2	7
8	Overcoming the challenge of establishing biofilms in vivo: a roadmap for Enterococci. <i>Current Opinion in Microbiology</i> , 2020, 53, 9-18.	2.3	13
9	<i>Pseudomonas aeruginosa</i> polymicrobial interactions during lung infection. <i>Current Opinion in Microbiology</i> , 2020, 53, 1-8.	2.3	42
10	Social Cooperativity of Bacteria during Reversible Surface Attachment in Young Biofilms: a Quantitative Comparison of <i>Pseudomonas aeruginosa</i> PA14 and PAO1. <i>MBio</i> , 2020, 11, .	1.8	47
11	Taming the flagellar motor of pseudomonads with a nucleotide messenger. <i>Environmental Microbiology</i> , 2020, 22, 2496-2513.	1.8	8
12	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. <i>Physical Biology</i> , 2021, 18, 051501.	0.8	46
13	Analysis of <i>Pseudomonas aeruginosa</i> c-di-GMP High and Low Subpopulations Using Flow-assisted Cell Sorting (FACS) and Quantitative Reverse Transcriptase PCR (qRT-PCR). <i>Bio-protocol</i> , 2021, 11, e3891.	0.2	0
14	Effect of collagen and EPS components on the viscoelasticity of <i>Pseudomonas aeruginosa</i> biofilms. <i>Soft Matter</i> , 2021, 17, 6225-6237.	1.2	13
15	Quantitative confocal microscopy and calibration for measuring differences in cyclic-di-GMP signalling by bacteria on biomedical hydrogels. <i>Royal Society Open Science</i> , 2021, 8, 201453.	1.1	3
17	<i>Pseudomonas aeruginosa</i> as a Model To Study Chemosensory Pathway Signaling. <i>Microbiology and Molecular Biology Reviews</i> , 2021, 85, .	2.9	39
18	Topological signatures in regulatory network enable phenotypic heterogeneity in small cell lung cancer. <i>ELife</i> , 2021, 10, .	2.8	42
19	Generation of Genetic Tools for Gauging Multiple-Gene Expression at the Single-Cell Level. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	6

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21	Integrated control of surface adaptation by the bacterial flagellum. <i>Current Opinion in Microbiology</i> , 2021, 61, 1-7.	2.3	8
22	Interaction between the type 4 pili machinery and a diguanylate cyclase fine-tune c-di-GMP levels during early biofilm formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	29
24	How Can a Histidine Kinase Respond to Mechanical Stress?. <i>Frontiers in Microbiology</i> , 2021, 12, 655942.	1.5	5
25	Molecular and structural facets of c-di-GMP signalling associated with biofilm formation in <i>Pseudomonas aeruginosa</i> . <i>Molecular Aspects of Medicine</i> , 2021, 81, 101001.	2.7	21
28	Single-Cell Imaging Reveals That <i>Staphylococcus aureus</i> Is Highly Competitive Against <i>Pseudomonas aeruginosa</i> on Surfaces. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 733991.	1.8	6
30	Spatial transcriptomics of planktonic and sessile bacterial populations at single-cell resolution. <i>Science</i> , 2021, 373, .	6.0	140
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32	Differential Surface Competition and Biofilm Invasion Strategies of <i>Pseudomonas aeruginosa</i> PA14 and PAO1. <i>Journal of Bacteriology</i> , 2021, 203, e0026521.	1.0	7
34	Sensory Perception in Bacterial Cyclic Diguanylate Signal Transduction. <i>Journal of Bacteriology</i> , 2022, 204, JB0043321.	1.0	24
35	The Diguanylate Cyclase YfiN of <i>Pseudomonas aeruginosa</i> Regulates Biofilm Maintenance in Response to Peroxide. <i>Journal of Bacteriology</i> , 2022, 204, JB0039621.	1.0	8
36	Relatedness and the evolution of mechanisms to divide labor in microorganisms. <i>Ecology and Evolution</i> , 2021, 11, 14475-14489.	0.8	10
39	The evolution of germ-soma specialization under different genetic and environmental effects. <i>Journal of Theoretical Biology</i> , 2022, 534, 110964.	0.8	4
41	Of biofilms and beehives: An analogy-based instructional tool to introduce biofilms in school and undergraduate curriculum. <i>Biofilm</i> , 2022, 4, 100066.	1.5	2
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44	Force-Induced Changes of PilY1 Drive Surface Sensing by <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2022, 13, e0375421.	1.8	15
45	Fluid dynamics and cell-bound Psl polysaccharide allows microplastic capture, aggregation and subsequent sedimentation by <i>Pseudomonas aeruginosa</i> in water. <i>Environmental Microbiology</i> , 2022, 24, 1560-1572.	1.8	1
46	Signaling events that occur when cells of <i>Escherichia coli</i> encounter a glass surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2116830119.	3.3	2

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47	Wsp system oppositely modulates antibacterial activity and biofilm formation via <i>FlaQ</i> complex in <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2022, 24, 1543-1559.	1.8	9
49	Biofilm Maintenance as an Active Process: Evidence that Biofilms Work Hard to Stay Put. <i>Journal of Bacteriology</i> , 2022, 204, e0058721.	1.0	13
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51	Rapid detection of microorganisms in a fish infection microfluidics platform. <i>Journal of Hazardous Materials</i> , 2022, 431, 128572.	6.5	8
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57	Phenotypic and integrated analysis of a comprehensive <i>Pseudomonas aeruginosa</i> PAO1 library of mutants lacking cyclic-di-GMP-related genes. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	5
58	Regulation of flagellar motility and biosynthesis in enterohemorrhagic <i>Escherichia coli</i> O157:H7. <i>Gut Microbes</i> , 2022, 14, .	4.3	12
59	An adaptive tracking illumination system for optogenetic control of single bacterial cells. <i>Applied Microbiology and Biotechnology</i> , 0, , .	1.7	0
61	Identification of Cyclic-di-GMP-Modulating Protein Residues by Bidirectionally Evolving a Social Behavior in <i>Pseudomonas fluorescens</i> . <i>MSystems</i> , 2022, 7, .	1.7	1
62	Controlling Biofilm Development Through Cyclic di-GMP Signaling. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 69-94.	0.8	11
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64	Shared biophysical mechanisms determine early biofilm architecture development across different bacterial species. <i>PLoS Biology</i> , 2022, 20, e3001846.	2.6	5
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66	Bacterial biofilm and extracellular polymeric substances in the treatment of environmental pollutants: Beyond the protective role in survivability. <i>Journal of Cleaner Production</i> , 2022, 379, 134759.	4.6	45
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70	Novel Insights into Microbial Behavior Gleaned Using Microfluidics. Microbes and Environments, 2023, 38, n/a.	0.7	1
71	Material Substrate Physical Properties Control Pseudomonas aeruginosa Biofilm Architecture. MBio, 2023, 14, .	1.8	5
73	Immune Response Modulation by Pseudomonas aeruginosa Persister Cells. MBio, 2023, 14, .	1.8	4
74	Polarity of c-di-GMP synthesis and degradation. MicroLife, 2023, 4, .	1.0	2
75	Recent advances and perspectives in nucleotide second messenger signaling in bacteria. MicroLife, 2023, 4, .	1.0	10
79	Studying gene expression in biofilms. Methods in Microbiology, 2023, , .	0.4	0
92	Understanding the intricacies of microbial biofilm formation and its endurance in chronic infections: a key to advancing biofilm-targeted therapeutic strategies. Archives of Microbiology, 2024, 206, .	1.0	1
96	Single-Molecule Fluorescent In Situ Hybridization (smFISH) for RNA Detection in Bacteria. Methods in Molecular Biology, 2024, , 3-23.	0.4	0