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c-di-GMP modulates type IV MSHA pilus retraction and surface attachment in *Vibrio cholerae*

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54	Pathogenicity and virulence regulation of at the interface of host-gut microbiome interactions. <i>Virulence</i> , 2020 , 11, 1582-1599	4.7	3
53	Diguanylate Cyclases in : Essential Regulators of Lifestyle Switching. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 582947	5.9	1
52	Motility of <i>Vibrio</i> spp.: regulation and controlling strategies. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 8187-8208	5.7	13
51	Quantitative analysis of the surficial and adhesion properties of the Gram-negative bacterial species <i>Comamonas testosteroni</i> modulated by c-di-GMP. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 198, 111497	6	1
50	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. <i>Physical Biology</i> , 2021 , 18,	3	16
49	Competitive binding of independent extension and retraction motors explains the quantitative dynamics of type IV pili. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
48	Alkaline pH Increases Swimming Speed and Facilitates Mucus Penetration for <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2021 , 203,	3.5	5
47	The Secretome of <i>Vibrio cholerae</i> .		0
46	Oxygen depletion and nitric oxide stimulate type IV MSHA pilus retraction in <i>Vibrio cholerae</i> via activation of the phosphodiesterase CdpA.		
45	Construction of an <i>Escherichia coli</i> Strain Lacking Fimbriae by Deleting 64 Genes and Its Application for Efficient Production of Poly(3-Hydroxybutyrate) and l-Threonine. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0038121	4.8	0
44	Anti-diarrheal therapeutic potential of diminazene aceturate stimulation of the ACE II/Ang-(1-7)/Mas receptor axis in mice: A trial study. <i>Biochemical Pharmacology</i> , 2021 , 186, 114500	6	1
43	<i>Vibrio cholerae</i> biofilm dispersal regulator causes cell release from matrix through type IV pilus retraction.		0
42	A Trigger Phosphodiesterase Modulates the Global c-di-GMP Pool, Motility, and Biofilm Formation in <i>Vibrio parahaemolyticus</i> . <i>Journal of Bacteriology</i> , 2021 , 203, e0004621	3.5	3
41	Evolution of a β (c-di-GMP)-anti- β witch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
40	Crash landing of by MSHA pili-assisted braking and anchoring in a viscoelastic environment. <i>ELife</i> , 2021 , 10,	8.9	0
39	The Multiple Regulatory Relationship Between RNA-Chaperone Hfq and the Second Messenger c-di-GMP. <i>Frontiers in Microbiology</i> , 2021 , 12, 689619	5.7	1
38	<i>Thermosynechococcus</i> switches the direction of phototaxis by a c-di-GMP dependent process with high spatial resolution.		1

37	A GGDEF domain serves as a spatial on-switch for a phosphodiesterase by direct interaction with a polar landmark protein.		
36	The PilB-PilZ-FimX regulatory complex of the Type IV pilus from <i>Xanthomonas citri</i> . <i>PLoS Pathogens</i> , 2021 , 17, e1009808	7.6	0
35	Quorum sensing regulates transcription of the pilin gene mshA1 of MSHA pilus in <i>Vibrio parahaemolyticus</i> . <i>Gene</i> , 2022 , 807, 145961	3.8	0
34	A trigger phosphodiesterase modulates the global c-di-GMP pool, motility and biofilm formation in <i>Vibrio parahaemolyticus</i> .		
33	Analysis of 44 <i>Vibrio anguillarum</i> genomes reveals high genetic diversity. <i>PeerJ</i> , 2020 , 8, e10451	3.1	3
32	Preparation of WPU-based super-amphiphobic coatings functionalized by modified SiO particles and their anti-biofilm mechanism. <i>Biomaterials Science</i> , 2021 , 9, 7504-7521	7.4	0
31	Retraction ATPase motors are promiscuous among type IVa pilus systems.		
30	Crash landing of <i>Vibrio cholerae</i> by MSHA pili-assisted braking and anchoring in a viscoelastic environment.		
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26	cAMP and c-di-GMP synergistically support biofilm maintenance through the direct interaction of their effectors.. <i>Nature Communications</i> , 2022 , 13, 1493	17.4	1
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20	switches the direction of phototaxis by a c-di-GMP-dependent process with high spatial resolution.. <i>ELife</i> , 2022 , 11,	8.9	1

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18	Landmark Discoveries and Recent Advances in Type IV Pilus Research. <i>Microbiology and Molecular Biology Reviews</i> ,	13.2	3
17	The canonical PilT retraction ATPase promotes both extension and retraction of the MSHA type IVa pilus in <i>Vibrio cholerae</i> .		
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11	A Second Role for the Second Messenger Cyclic-di-GMP in <i>E. coli</i> : Arresting Cell Growth by Altering Metabolic Flow.		0
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7	Exogenous c-di-GMP inhibited the biofilm formation of <i>Vibrio splendidus</i> . 2023 , 175, 105981		0
6	New Insights into <i>Vibrio cholerae</i> Biofilms from Molecular Biophysics to Microbial Ecology. 2023 , 17-39		0
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4	A Second Role for the Second Messenger Cyclic-di-GMP in <i>E. coli</i> : Arresting Cell Growth by Altering Metabolic Flow.		0
3	<i>Vibrio cholerae</i> biofilms use modular adhesins with glycan-targeting and nonspecific surface binding domains for colonization. 2023 , 14,		0
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