

# Christopher M Waters

## List of Publications by Year in descending order

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97  
papers

7,149  
citations

159585

30  
h-index

60623

81  
g-index

179  
all docs

179  
docs citations

179  
times ranked

7947  
citing authors

#	ARTICLE	IF	CITATIONS
1	NrnA Is a Linear Dinucleotide Phosphodiesterase with Limited Function in Cyclic Dinucleotide Metabolism in <i>Listeria monocytogenes</i> . <i>Journal of Bacteriology</i> , 2022, 204, JB0020621.	2.2	7
2	Quorum-Sensing Master Regulator VfmE Is a c-di-GMP Effector That Controls Pectate Lyase Production in the Phytopathogen <i>Dickeya dadantii</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0180521.	3.0	2
3	The <i>Vibrio cholerae</i> master regulator for the activation of biofilm biogenesis genes, VpsR, senses both cyclic di-GMP and phosphate. <i>Nucleic Acids Research</i> , 2022, 50, 4484-4499.	14.5	11
4	The 27th Annual Midwest Microbial Pathogenesis Conference in the Age of COVID. <i>Journal of Bacteriology</i> , 2022, , e0013622.	2.2	0
5	Phage defence by deaminase-mediated depletion of deoxynucleotides in bacteria. <i>Nature Microbiology</i> , 2022, 7, 1210-1220.	13.3	46
6	Quorum sensing provides a molecular mechanism for evolution to tune and maintain investment in cooperation. <i>ISME Journal</i> , 2021, 15, 1236-1247.	9.8	18
7	The ever-expanding world of bacterial cyclic oligonucleotide second messengers. <i>Current Opinion in Microbiology</i> , 2021, 60, 96-103.	5.1	36
8	CsrA Enhances Cyclic-di-GMP Biosynthesis and <i>Yersinia pestis</i> Biofilm Blockage of the Flea Foregut by Alleviating Hfq-Dependent Repression of the <i>hmsT</i> mRNA. <i>MBio</i> , 2021, 12, e0135821.	4.1	9
9	Host-emitted amino acid cues regulate bacterial chemokinesis to enhance colonization. <i>Cell Host and Microbe</i> , 2021, 29, 1221-1234.e8.	11.0	21
10	Au naturale: use of biologically derived cyclic di-nucleotides for cancer immunotherapy. <i>Open Biology</i> , 2021, 11, 210277.	3.6	2
11	Tricarboxylic Acid (TCA) Cycle Enzymes and Intermediates Modulate Intracellular Cyclic di-GMP Levels and the Production of Plant Cell Wall-Degrading Enzymes in Soft Rot Pathogen <i>Dickeya dadantii</i> . <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 296-307.	2.6	9
12	Cyclic di-GMP-Mediated Regulation of Extracellular Mannuronan C-5 Epimerases Is Essential for Cyst Formation in <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	7
13	Increased c-di-GMP Levels Lead to the Production of Alginates of High Molecular Mass in <i>Azotobacter vinelandii</i> . <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	10
14	Surface sensing stimulates cellular differentiation in <i>Caulobacter crescentus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17984-17991.	7.1	23
15	VpsR Directly Activates Transcription of Multiple Biofilm Genes in <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	11
16	One gene, multiple ecological strategies: A biofilm regulator is a capacitor for sustainable diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21647-21657.	7.1	18
17	<i>Vibrio cholerae</i> adapts to sessile and motile lifestyles by cyclic di-GMP regulation of cell shape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29046-29054.	7.1	21
18	Chemiluminescent sensors for quantitation of the bacterial second messenger cyclic di-GMP. <i>Methods in Enzymology</i> , 2020, 640, 83-104.	1.0	2

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19	Cyclic di-GMP Regulation of Gene Expression. , 2020, , 379-394.		4
20	Triclosan depletes the membrane potential in <i>Pseudomonas aeruginosa</i> biofilms inhibiting aminoglycoside induced adaptive resistance. <i>PLoS Pathogens</i> , 2020, 16, e1008529.	4.7	11
21	Title is missing!. , 2020, 16, e1008529.		0
22	Title is missing!. , 2020, 16, e1008529.		0
23	Title is missing!. , 2020, 16, e1008529.		0
24	Title is missing!. , 2020, 16, e1008529.		0
25	The Vc2 Cyclic di-GMP-Dependent Riboswitch of <i>Vibrio cholerae</i> Regulates Expression of an Upstream Putative Small RNA by Controlling RNA Stability. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	14
26	Cyclic di-GMP Increases Catalase Production and Hydrogen Peroxide Tolerance in <i>Vibrio cholerae</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	19
27	The ionophore oxytetracycline enhances tobramycin killing of <i>Pseudomonas aeruginosa</i> biofilms by permeabilizing cells and depolarizing the membrane potential. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 894-906.	3.0	17
28	Under Elevated c-di-GMP in <i>Escherichia coli</i> , YcgR Alters Flagellar Motor Bias and Speed Sequentially, with Additional Negative Control of the Flagellar Regulon via the Adaptor Protein RssB. <i>Journal of Bacteriology</i> , 2019, 202, .	2.2	20
29	Combating Cholera. <i>F1000Research</i> , 2019, 8, 589.	1.6	20
30	Hydrogels Embedded With Melittin and Tobramycin Are Effective Against <i>Pseudomonas aeruginosa</i> Biofilms in an Animal Wound Model. <i>Frontiers in Microbiology</i> , 2019, 10, 1348.	3.5	22
31	Inkjet-Printed Carbon Nanotube Electrodes for Measuring Pyocyanin and Uric Acid in a Wound Fluid Simulant and Culture Media. <i>Analytical Chemistry</i> , 2019, 91, 8835-8844.	6.5	46
32	<i>Vibrio cholerae</i> . <i>Trends in Microbiology</i> , 2019, 27, 806-807.	7.7	23
33	A feedforward signalling circuit controls bacterial virulence through linking cyclic di-GMP and two mechanistically distinct sRNAs, ArcZ and RsmB. <i>Environmental Microbiology</i> , 2019, 21, 2755-2771.	3.8	36
34	<i>Pseudomonas aeruginosa</i> in cystic fibrosis: A chronic cheater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6525-6527.	7.1	30
35	Pyrimidines and Cyclic Trinucleotides Join the Second Messenger Symphony. <i>Cell Host and Microbe</i> , 2019, 25, 471-473.	11.0	5
36	Structural basis of DSF recognition by its receptor RpfR and its regulatory interaction with the DSF synthase RpfF. <i>PLoS Biology</i> , 2019, 17, e3000123.	5.6	23

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37	Phosphodiesterase Genes Regulate Amylovoran Production, Biofilm Formation, and Virulence in <i>Erwinia amylovora</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	22
38	Analyzing Diguanylate Cyclase Activity In Vivo using a Heterologous <i>Escherichia coli</i> Host. <i>Current Protocols in Microbiology</i> , 2019, 52, e74.	6.5	3
39	Triclosan Is an Aminoglycoside Adjuvant for Eradication of <i>Pseudomonas aeruginosa</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	3.2	41
40	Cyclic di-GMP Positively Regulates DNA Repair in <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	20
41	The diguanylate cyclase GcpA inhibits the production of pectate lyases via the H $\epsilon$ NS protein and RsmB regulatory RNA in <i>Dickeya dadantii</i> . <i>Molecular Plant Pathology</i> , 2018, 19, 1873-1886.	4.2	14
42	Shining the Light on Cyclic di-GMP Dark Matter. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	2
43	Cyclic di-GMP Regulates TfoY in <i>Vibrio cholerae</i> To Control Motility by both Transcriptional and Posttranscriptional Mechanisms. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	33
44	A Subset of Exoribonucleases Serve as Degradative Enzymes for pGpG in c-di-GMP Signaling. <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	24
45	Feedback regulation of <i>Caulobacter crescentus</i> holdfast synthesis by flagellum assembly via the holdfast inhibitor HfiA. <i>Molecular Microbiology</i> , 2018, 110, 219-238.	2.5	32
46	Homeostasis of Second Messenger Cyclic-di-AMP Is Critical for Cyanobacterial Fitness and Acclimation to Abiotic Stress. <i>Frontiers in Microbiology</i> , 2018, 9, 1121.	3.5	21
47	VpsR and cyclic di-GMP together drive transcription initiation to activate biofilm formation in <i>Vibrio cholerae</i> . <i>Nucleic Acids Research</i> , 2018, 46, 8876-8887.	14.5	48
48	Maximizing Growth Yield and Dispersal via Quorum Sensing Promotes Cooperation in <i>Vibrio</i> Bacteria. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	20
49	Direct activation of a phospholipase by cyclic GMP-AMP in El Tor <i>Vibrio cholerae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6048-E6055.	7.1	105
50	Enhancing multiplex genome editing by natural transformation (MuGENT) via inactivation of ssDNA exonucleases. <i>Nucleic Acids Research</i> , 2017, 45, 7527-7537.	14.5	33
51	Come to the Light Side<em>; In Vivo </em>Monitoring of <em>;Pseudomonas aeruginosa </em>Biofilm Infections in Chronic Wounds in a Diabetic Hairless Murine Model. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	8
52	Spermine inhibits <i>Vibrio cholerae</i> biofilm formation through the NspMbaA polyamine signaling system. <i>Journal of Biological Chemistry</i> , 2017, 292, 17025-17036.	3.4	34
53	Spectrophotometric and Mass Spectroscopic Methods for the Quantification and Kinetic Evaluation of In Vitro c-di-GMP Synthesis. <i>Methods in Molecular Biology</i> , 2017, 1657, 71-84.	0.9	5
54	Cyclic Di-GMP and VpsR Induce the Expression of Type II Secretion in <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	22

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55	The Proline Variant of the W[F/L/M][T/S]R Cyclic Di-GMP Binding Motif Suppresses Dependence on Signal Association for Regulator Function. <i>Journal of Bacteriology</i> , 2017, 199, .	2.2	12
56	The <i>Agrobacterium tumefaciens</i> CheY-like protein ClaR regulates biofilm formation. <i>Microbiology (United Kingdom)</i> , 2017, 163, 1680-1691.	1.8	11
57	Regulation of biofilm formation and cellular buoyancy through modulating intracellular cyclic di-GMP levels in engineered cyanobacteria. <i>Biotechnology and Bioengineering</i> , 2016, 113, 311-319.	3.3	54
58	Long-Term Evolution of <i>Burkholderia multivorans</i> during a Chronic Cystic Fibrosis Infection Reveals Shifting Forces of Selection. <i>MSystems</i> , 2016, 1, .	3.8	93
59	Polysorbates prevent biofilm formation and pathogenesis of <i>Escherichia coli</i> O104:H4. <i>Biofouling</i> , 2016, 32, 1131-1140.	2.2	20
60	Contextual organismality: Beyond pattern to process in the emergence of organisms. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 2669-2677.	2.3	10
61	Spermidine Inversely Influences Surface Interactions and Planktonic Growth in <i>Agrobacterium tumefaciens</i> . <i>Journal of Bacteriology</i> , 2016, 198, 2682-2691.	2.2	25
62	Bacterial Quorum Sensing Stabilizes Cooperation by Optimizing Growth Strategies. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6498-6506.	3.1	31
63	Cyclic di-AMP Released from <i>Staphylococcus aureus</i> Biofilm Induces a Macrophage Type I Interferon Response. <i>Infection and Immunity</i> , 2016, 84, 3564-3574.	2.2	59
64	Evolution of Ecological Diversity in Biofilms of <i>Pseudomonas aeruginosa</i> by Altered Cyclic Diguanylate Signaling. <i>Journal of Bacteriology</i> , 2016, 198, 2608-2618.	2.2	74
65	In Vivo Synthesis of Cyclic-di-GMP Using a Recombinant Adenovirus Preferentially Improves Adaptive Immune Responses against Extracellular Antigens. <i>Journal of Immunology</i> , 2016, 196, 1741-1752.	0.8	13
66	Crosstalk between a regulatory small RNA, cyclic-di-GMP signalling and flagellar regulator FlhDC for virulence and bacterial behaviours. <i>Environmental Microbiology</i> , 2015, 17, 4745-4763.	3.8	34
67	Oligoribonuclease is the primary degradative enzyme for pGpG in <i>Pseudomonas aeruginosa</i> that is required for cyclic-di-GMP turnover. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5048-57.	7.1	117
68	A Pterin-Dependent Signaling Pathway Regulates a Dual-Function Diguanylate Cyclase-Phosphodiesterase Controlling Surface Attachment in <i>Agrobacterium tumefaciens</i> . <i>MBio</i> , 2015, 6, e00156.	4.1	48
69	Sharing the sandbox: Evolutionary mechanisms that maintain bacterial cooperation. <i>F1000Research</i> , 2015, 4, 1504.	1.6	34
70	Intracellular Concentrations of <i>Borrelia burgdorferi</i> Cyclic Di-AMP Are Not Changed by Altered Expression of the CdaA Synthase. <i>PLoS ONE</i> , 2015, 10, e0125440.	2.5	22
71	A Filter Binding Assay to Quantify the Association of Cyclic di-GMP to Proteins. <i>Bio-protocol</i> , 2015, 5, .	0.4	2
72	Intestinal GPS: bile and bicarbonate control cyclic di-GMP to provide <i>Vibrio cholerae</i> spatial cues within the small intestine. <i>Gut Microbes</i> , 2014, 5, 775-780.	9.8	16

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73	Stimulation of Innate Immunity by <i>In Vivo</i> Cyclic di-GMP Synthesis Using Adenovirus. <i>Vaccine Journal</i> , 2014, 21, 1550-1559.	3.1	12
74	The <i>Vibrio cholerae</i> diguanylate cyclase VCA0965 has an AGDEF active site and synthesizes cyclic di-GMP. <i>BMC Microbiology</i> , 2014, 14, 22.	3.3	40
75	Identification of small molecules inhibiting diguanylate cyclases to control bacterial biofilm development. <i>Biofouling</i> , 2014, 30, 17-28.	2.2	104
76	Bile Acids and Bicarbonate Inversely Regulate Intracellular Cyclic di-GMP in <i>Vibrio cholerae</i> . <i>Infection and Immunity</i> , 2014, 82, 3002-3014.	2.2	72
77	Cyclic di-GMP inhibits <i>Vibrio cholerae</i> motility by repressing induction of transcription and inducing extracellular polysaccharide production. <i>Molecular Microbiology</i> , 2013, 90, 1262-1276.	2.5	119
78	Occurrence of Cyclic di-GMP-Modulating Output Domains in Cyanobacteria: an Illuminating Perspective. <i>MBio</i> , 2013, 4, .	4.1	39
79	STING-Dependent Recognition of Cyclic di-AMP Mediates Type I Interferon Responses during <i>Chlamydia trachomatis</i> Infection. <i>MBio</i> , 2013, 4, e00018-13.	4.1	201
80	Cyclic Di-GMP Modulates the Disease Progression of <i>Erwinia amylovora</i> . <i>Journal of Bacteriology</i> , 2013, 195, 4778-4778.	2.2	0
81	Exploring Environmental Control of Cyclic di-GMP Signaling in <i>Vibrio cholerae</i> by Using the <i>Ex Vivo</i> Lysate Cyclic di-GMP Assay (TELCA). <i>Applied and Environmental Microbiology</i> , 2013, 79, 5233-5241.	3.1	27
82	Cyclic Di-GMP Modulates the Disease Progression of <i>Erwinia amylovora</i> . <i>Journal of Bacteriology</i> , 2013, 195, 2155-2165.	2.2	77
83	Bacterial Wheel Locks: Extracellular Polysaccharide Inhibits Flagellar Rotation. <i>Journal of Bacteriology</i> , 2013, 195, 409-410.	2.2	6
84	Identification of Small Molecules That Antagonize Diguanylate Cyclase Enzymes To Inhibit Biofilm Formation. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 5202-5211.	3.2	129
85	<i>H</i> -dependent, coordinate control of cyclic diguanylate synthesis and catabolism in the plague pathogen <i>Yersinia pestis</i> . <i>Molecular Microbiology</i> , 2012, 86, 661-674.	2.5	56
86	Quantification of high-specificity cyclic diguanylate signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12746-12751.	7.1	136
87	A Tangled Web: Regulatory Connections between Quorum Sensing and Cyclic Di-GMP. <i>Journal of Bacteriology</i> , 2012, 194, 4485-4493.	2.2	130
88	Correlation between <i>In Vivo</i> Biofilm Formation and Virulence Gene Expression in <i>Escherichia coli</i> O104:H4. <i>PLoS ONE</i> , 2012, 7, e41628.	2.5	64
89	The Meteoric Rise of the Signaling Molecule Cyclic di-GMP. <i>Microbe Magazine</i> , 2012, 7, 353-359.	0.4	1
90	Identification of a Novel Benzimidazole That Inhibits Bacterial Biofilm Formation in a Broad-Spectrum Manner. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 4369-4378.	3.2	92

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91	Systematic analysis of cyclic di-GMP signalling enzymes and their role in biofilm formation and virulence in <i>Yersinia pestis</i> . <i>Molecular Microbiology</i> , 2011, 79, 533-551.	2.5	152
92	Integration of Cyclic di-GMP and Quorum Sensing in the Control of <i>vpsT</i> and <i>aphA</i> in <i>Vibrio cholerae</i> . <i>Journal of Bacteriology</i> , 2011, 193, 6331-6341.	2.2	139
93	Control of the Type 3 Secretion System in <i>Vibrio harveyi</i> by Quorum Sensing through Repression of ExsA. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4996-5004.	3.1	50
94	Quorum Sensing Controls Biofilm Formation in <i>Vibrio cholerae</i> through Modulation of Cyclic Di-GMP Levels and Repression of <i>vpsT</i> . <i>Journal of Bacteriology</i> , 2008, 190, 2527-2536.	2.2	378
95	The <i>Vibrio harveyi</i> quorum-sensing system uses shared regulatory components to discriminate between multiple autoinducers. <i>Genes and Development</i> , 2006, 20, 2754-2767.	5.9	204
96	QUORUM SENSING: Cell-to-Cell Communication in Bacteria. <i>Annual Review of Cell and Developmental Biology</i> , 2005, 21, 319-346.	9.4	3,198
97	Methods for Cyclic Di-GMP Detection. , 0, , 68-75.		0