

Urs Jenal

List of Publications by Year in descending order

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94
papers

10,341
citations

53789

45
h-index

37202

96
g-index

110
all docs

110
docs citations

110
times ranked

6458
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining CRISPRi and metabolomics for functional annotation of compound libraries. <i>Nature Chemical Biology</i> , 2022, 18, 482-491.	8.0	33
2	Photoaffinity Capture Compounds to Profile the Magic Spot Nucleotide Interactomes**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	11
3	Reciprocal growth control by competitive binding of nucleotide second messengers to a metabolic switch in <i>Caulobacter crescentus</i> . <i>Nature Microbiology</i> , 2021, 6, 59-72.	13.3	23
4	Evolution of Antibiotic Tolerance Shapes Resistance Development in Chronic <i>Pseudomonas aeruginosa</i> Infections. <i>MBio</i> , 2021, 12, .	4.1	59
5	Pareto optimality between growth-rate and lag-time couples metabolic noise to phenotypic heterogeneity in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2021, 12, 3204.	12.8	13
6	Defining Proteomic Signatures to Predict Multidrug Persistence in <i>Pseudomonas aeruginosa</i> . <i>Methods in Molecular Biology</i> , 2021, 2357, 161-175.	0.9	2
7	The Use of Experimental Evolution to Study the Response of <i>Pseudomonas aeruginosa</i> to Single or Double Antibiotic Treatment. <i>Methods in Molecular Biology</i> , 2021, 2357, 177-194.	0.9	1
8	A New Sugar for an Old Phage: a c-di-GMP-Dependent Polysaccharide Pathway Sensitizes <i>Escherichia coli</i> for Bacteriophage Infection. <i>MBio</i> , 2021, 12, e0324621.	4.1	15
9	Surface Sensing and Adaptation in Bacteria. <i>Annual Review of Microbiology</i> , 2020, 74, 735-760.	7.3	49
10	Regulation of Bacterial Cell Cycle Progression by Redundant Phosphatases. <i>Journal of Bacteriology</i> , 2020, 202, .	2.2	11
11	Novel Divisome-Associated Protein Spatially Coupling the Z-Ring with the Chromosomal Replication Terminus in <i>Caulobacter crescentus</i> . <i>MBio</i> , 2020, 11, .	4.1	15
12	Hybrid histidine kinase activation by cyclic di-GMP α mediated domain liberation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1000-1008.	7.1	28
13	Intercepting second-messenger signaling by rationally designed peptides sequestering c-di-GMP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17211-17220.	7.1	20
14	Precise timing of transcription by c-di-GMP coordinates cell cycle and morphogenesis in <i>Caulobacter</i> . <i>Nature Communications</i> , 2020, 11, 816.	12.8	38
15	Untargeted metabolomics links glutathione to bacterial cell cycle progression. <i>Nature Metabolism</i> , 2020, 2, 153-166.	11.9	34
16	In situ structure of the <i>Caulobacter crescentus</i> flagellar motor and visualization of binding of a CheY homolog. <i>Molecular Microbiology</i> , 2020, 114, 443-453.	2.5	22
17	Tad Pili Play a Dynamic Role in <i>Caulobacter crescentus</i> Surface Colonization. <i>MBio</i> , 2019, 10, .	4.1	44
18	Definitions and guidelines for research on antibiotic persistence. <i>Nature Reviews Microbiology</i> , 2019, 17, 441-448.	28.6	748

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19	A Surface-Induced Asymmetric Program Promotes Tissue Colonization by <i>Pseudomonas aeruginosa</i> . <i>Cell Host and Microbe</i> , 2019, 25, 140-152.e6.	11.0	127
20	Functionalized Proline-Rich Peptides Bind the Bacterial Second Messenger c-di-GMP. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7729-7733.	13.8	23
21	Functionalized Proline-Rich Peptides Bind the Bacterial Second Messenger c-di-GMP. <i>Angewandte Chemie</i> , 2018, 130, 7855-7859.	2.0	3
22	A Single-Domain Response Regulator Functions as an Integrating Hub To Coordinate General Stress Response and Development in Alphaproteobacteria. <i>MBio</i> , 2018, 9, .	4.1	27
23	Cyclic di-GMP: second messenger extraordinaire. <i>Nature Reviews Microbiology</i> , 2017, 15, 271-284.	28.6	706
24	Cohesive Properties of the <i>Caulobacter crescentus</i> Holdfast Adhesin Are Regulated by a Novel c-di-GMP Effector Protein. <i>MBio</i> , 2017, 8, .	4.1	29
25	Second messenger-mediated tactile response by a bacterial rotary motor. <i>Science</i> , 2017, 358, 531-534.	12.6	129
26	Pull-Down with a c-di-GMP-Specific Capture Compound Coupled to Mass Spectrometry as a Powerful Tool to Identify Novel Effector Proteins. <i>Methods in Molecular Biology</i> , 2017, 1657, 361-376.	0.9	4
27	BoA Is Required for the Accurate Regulation of c-di-GMP, a Central Player in Biofilm Formation. <i>MBio</i> , 2017, 8, .	4.1	38
28	Quorum-Quenching Human Designer Cells for Closed-Loop Control of <i>Pseudomonas aeruginosa</i> Biofilms. <i>Nano Letters</i> , 2017, 17, 5043-5050.	9.1	26
29	LadS is a calcium-responsive kinase that induces acute-to-chronic virulence switch in <i>Pseudomonas aeruginosa</i> . <i>Nature Microbiology</i> , 2017, 2, 16184.	13.3	94
30	Cyclic di-GMP differentially tunes a bacterial flagellar motor through a novel class of CheY-like regulators. <i>ELife</i> , 2017, 6, .	6.0	62
31	High intracellular c-di-GMP levels antagonize quorum sensing and virulence gene expression in <i>Burkholderia cenocepacia</i> H111. <i>Microbiology (United Kingdom)</i> , 2017, 163, 754-764.	1.8	34
32	Cyclic di-GMP mediates a histidine kinase/phosphatase switch by noncovalent domain cross-linking. <i>Science Advances</i> , 2016, 2, e1600823.	10.3	69
33	Bacterial Signal Transduction by Cyclic Di-GMP and Other Nucleotide Second Messengers. <i>Journal of Bacteriology</i> , 2016, 198, 15-26.	2.2	127
34	Expression and Genetic Activation of Cyclic Di-GMP-Specific Phosphodiesterases in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2016, 198, 448-462.	2.2	48
35	An Extended Cyclic Di-GMP Network in the Predatory Bacterium <i>Bdellovibrio bacteriovorus</i> . <i>Journal of Bacteriology</i> , 2016, 198, 127-137.	2.2	25
36	Systematic Nomenclature for GGDEF and EAL Domain-Containing Cyclic Di-GMP Turnover Proteins of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2016, 198, 7-11.	2.2	96

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37	The Diguanylate Cyclase HsbD Intersects with the HptB Regulatory Cascade to Control <i>Pseudomonas aeruginosa</i> Biofilm and Motility. <i>PLoS Genetics</i> , 2016, 12, e1006354.	3.5	57
38	Capture Compound Mass Spectrometry - A Powerful Tool to Identify Novel c-di-GMP Effector Proteins. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	14
39	Bacteria in the CF Lung: Isolation Drives Diversity. <i>Cell Host and Microbe</i> , 2015, 18, 268-269.	11.0	4
40	The Diguanylate Cyclase SadC Is a Central Player in Gac/Rsm-Mediated Biofilm Formation in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2014, 196, 4081-4088.	2.2	88
41	Cell cycle transition from S-phase to G1 in <i>Caulobacter</i> is mediated by ancestral virulence regulators. <i>Nature Communications</i> , 2014, 5, 4081.	12.8	80
42	Activation and polar sequestration of <i>C</i> PopA, a c-di-GMP effector protein involved in <i>Caulobacter crescentus</i> cell cycle control. <i>Molecular Microbiology</i> , 2014, 94, 580-594.	2.5	52
43	Inherent Regulation of EAL Domain-catalyzed Hydrolysis of Second Messenger Cyclic di-GMP. <i>Journal of Biological Chemistry</i> , 2014, 289, 6978-6990.	3.4	60
44	Catalytic carbene transfer allows the direct customization of cyclic purine dinucleotides. <i>Chemical Communications</i> , 2014, 50, 8499.	4.1	8
45	Think globally, act locally: How bacteria integrate local decisions with their global cellular programme. <i>EMBO Journal</i> , 2013, 32, 1972-1974.	7.8	4
46	Structure and Signaling Mechanism of a Zinc-Sensory Diguanylate Cyclase. <i>Structure</i> , 2013, 21, 1149-1157.	3.3	95
47	Bi-modal Distribution of the Second Messenger c-di-GMP Controls Cell Fate and Asymmetry during the <i>Caulobacter</i> Cell Cycle. <i>PLoS Genetics</i> , 2013, 9, e1003744.	3.5	123
48	De- and repolarization mechanism of flagellar morphogenesis during a bacterial cell cycle. <i>Genes and Development</i> , 2013, 27, 2049-2062.	5.9	51
49	<i>C</i> PopAlexander <i>C</i> PopB (1971-2012). <i>Molecular Microbiology</i> , 2013, 88, 219-221.	2.5	2
50	The YfiBNR Signal Transduction Mechanism Reveals Novel Targets for the Evolution of Persistent <i>Pseudomonas aeruginosa</i> in Cystic Fibrosis Airways. <i>PLoS Pathogens</i> , 2012, 8, e1002760.	4.7	105
51	Allosteric activation of exopolysaccharide synthesis through cyclic di-GMP-stimulated protein-protein interaction. <i>EMBO Journal</i> , 2012, 32, 354-368.	7.8	123
52	A novel capture compound for the identification and analysis of cyclic di-GMP binding proteins. <i>Journal of Proteomics</i> , 2012, 75, 4874-4878.	2.4	48
53	The orphan histidine protein kinase SgmT is a c-di-GMP receptor and regulates composition of the extracellular matrix together with the orphan DNA binding response regulator DigR in <i>Myxococcus xanthus</i> . <i>Molecular Microbiology</i> , 2012, 84, 147-165.	2.5	52
54	Regulatory Cohesion of Cell Cycle and Cell Differentiation through Interlinked Phosphorylation and Second Messenger Networks. <i>Molecular Cell</i> , 2011, 43, 550-560.	9.7	169

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55	Solution Structure of the PilZ Domain Protein PA4608 Complex with Cyclic di-GMP Identifies Charge Clustering as Molecular Readout. <i>Journal of Biological Chemistry</i> , 2011, 286, 14304-14314.	3.4	76
56	Cyclic Diguanylate Signaling Proteins Control Intracellular Growth of <i>Legionella pneumophila</i> . <i>MBio</i> , 2011, 2, e00316-10.	4.1	46
57	YfiBNR Mediates Cyclic di-GMP Dependent Small Colony Variant Formation and Persistence in <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2010, 6, e1000804.	4.7	197
58	A liquid chromatography-coupled tandem mass spectrometry method for quantitation of cyclic di-guanosine monophosphate. <i>Journal of Microbiological Methods</i> , 2010, 81, 226-231.	1.6	191
59	Second Messenger-Mediated Adjustment of Bacterial Swimming Velocity. <i>Cell</i> , 2010, 141, 107-116.	28.9	412
60	Second messenger signalling governs <i>Escherichia coli</i> biofilm induction upon ribosomal stress. <i>Molecular Microbiology</i> , 2009, 72, 1500-1516.	2.5	183
61	Structural and mechanistic determinants of c-di-GMP signalling. <i>Nature Reviews Microbiology</i> , 2009, 7, 724-735.	28.6	413
62	Second messenger-mediated spatiotemporal control of protein degradation regulates bacterial cell cycle progression. <i>Genes and Development</i> , 2009, 23, 93-104.	5.9	272
63	The role of proteolysis in the <i>Caulobacter crescentus</i> cell cycle and development. <i>Research in Microbiology</i> , 2009, 160, 687-695.	2.1	41
64	Single domain response regulators: molecular switches with emerging roles in cell organization and dynamics. <i>Current Opinion in Microbiology</i> , 2009, 12, 152-160.	5.1	77
65	Small molecule signaling. <i>Current Opinion in Microbiology</i> , 2009, 12, 125-128.	5.1	10
66	Allosteric Regulation of Histidine Kinases by Their Cognate Response Regulator Determines Cell Fate. <i>Cell</i> , 2008, 133, 452-461.	28.9	141
67	Activation of the Diguanylate Cyclase PleD by Phosphorylation-mediated Dimerization. <i>Journal of Biological Chemistry</i> , 2007, 282, 29170-29177.	3.4	167
68	DgrA is a member of a new family of cyclic diguanosine monophosphate receptors and controls flagellar motor function in <i>Caulobacter crescentus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4112-4117.	7.1	185
69	Experimental evolution of aging in a bacterium. <i>BMC Evolutionary Biology</i> , 2007, 7, 126.	3.2	48
70	Structure of BeF3 ⁻ -Modified Response Regulator PleD: Implications for Diguanylate Cyclase Activation, Catalysis, and Feedback Inhibition. <i>Structure</i> , 2007, 15, 915-927.	3.3	209
71	Mechanisms of Cyclic-di-GMP Signaling in Bacteria. <i>Annual Review of Genetics</i> , 2006, 40, 385-407.	7.6	571
72	Allosteric Control of Cyclic di-GMP Signaling. <i>Journal of Biological Chemistry</i> , 2006, 281, 32015-32024.	3.4	260

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73	Holdfast Formation in Motile Swarmer Cells Optimizes Surface Attachment during <i>Caulobacter crescentus</i> Development. <i>Journal of Bacteriology</i> , 2006, 188, 5315-5318.	2.2	75
74	Allosteric Control of Cyclic di-GMP Signaling. <i>Journal of Biological Chemistry</i> , 2006, 281, 32015-32024.	3.4	100
75	“Neural Networks” in Bacteria: Making Connections. <i>Journal of Bacteriology</i> , 2005, 187, 26-36.	2.2	19
76	Identification and Characterization of a Cyclic di-GMP-specific Phosphodiesterase and Its Allosteric Control by GTP. <i>Journal of Biological Chemistry</i> , 2005, 280, 30829-30837.	3.4	452
77	Identification of the Protease and the Turnover Signal Responsible for Cell Cycle-Dependent Degradation of the <i>Caulobacter</i> FlhF Motor Protein. <i>Journal of Bacteriology</i> , 2004, 186, 4960-4971.	2.2	38
78	Cell cycle-dependent dynamic localization of a bacterial response regulator with a novel di-guanylate cyclase output domain. <i>Genes and Development</i> , 2004, 18, 715-727.	5.9	554
79	Structural basis of activity and allosteric control of diguanylate cyclase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17084-17089.	7.1	428
80	Cyclic di-guanosine-monophosphate comes of age: a novel secondary messenger involved in modulating cell surface structures in bacteria?. <i>Current Opinion in Microbiology</i> , 2004, 7, 185-191.	5.1	191
81	Role of the GGDEF regulator PleD in polar development of <i>Caulobacter crescentus</i> . <i>Molecular Microbiology</i> , 2003, 47, 1695-1708.	2.5	255
82	Regulation by proteolysis in bacterial cells. <i>Current Opinion in Microbiology</i> , 2003, 6, 163-172.	5.1	158
83	Role of the Cytoplasmic C Terminus of the FlhF Motor Protein in Flagellar Assembly and Rotation. <i>Journal of Bacteriology</i> , 2003, 185, 1624-1633.	2.2	40
84	Degradation of a <i>Caulobacter</i> Soluble Cytoplasmic Chemoreceptor Is ClpX Dependent. <i>Journal of Bacteriology</i> , 2002, 184, 6635-6641.	2.2	30
85	The <i>Caulobacter</i> cell cycle: timing, spatial organization and checkpoints. <i>Current Opinion in Microbiology</i> , 2002, 5, 558-563.	5.1	35
86	The FtsH protease is involved in development, stress response and heat shock control in <i>Caulobacter crescentus</i> . <i>Molecular Microbiology</i> , 2002, 44, 461-478.	2.5	74
87	Signal transduction mechanisms in <i>Caulobacter crescentus</i> development and cell cycle control. <i>FEMS Microbiology Reviews</i> , 2000, 24, 177-191.	8.6	48
88	Regulatory circuits in <i>Caulobacter</i> . <i>Current Opinion in Microbiology</i> , 2000, 3, 171-176.	5.1	23
89	Signal transduction mechanisms in <i>Caulobacter crescentus</i> development and cell cycle control. <i>FEMS Microbiology Reviews</i> , 2000, 24, 177-191.	8.6	36
90	Cell cycle-dependent degradation of a flagellar motor component requires a novel-type response regulator. <i>Molecular Microbiology</i> , 1999, 32, 379-391.	2.5	124

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91	Identification and Transcriptional Control of the Genes Encoding the <i>Caulobacter crescentus</i> ClpXP Protease. <i>Journal of Bacteriology</i> , 1999, 181, 3039-3050.	2.2	33
92	Expression of cell polarity during <i>Caulobacter</i> differentiation. <i>Seminars in Developmental Biology</i> , 1995, 6, 3-11.	1.3	5
93	Role of Cyclic Di-GMP in <i>Caulobacter crescentus</i> Development and Cell Cycle Control. , 0, , 120-136.		1
94	Photoaffinity Capture Compounds to Profile the Magic Spot Nucleotide Interactomes**. <i>Angewandte Chemie</i> , 0, , .	2.0	0