Fitnat H Yildiz

List of Publications by Year
in descending order

66 papers	6,491 citations	71102 41 h-index	114465 63 g-index
69 all docs	69 docs citations	69 times ranked	4508 citing authors

#	Article	IF	Citations
1	Vibrio biofilms: so much the same yet so different. Trends in Microbiology, 2009, 17, 109-118.	7.7	399
2	<i>Vibrio cholerae</i> VpsT Regulates Matrix Production and Motility by Directly Sensing Cyclic di-GMP. Science, 2010, 327, 866-868.	12.6	397
3	Living in the matrix: assembly and control of Vibrio cholerae biofilms. Nature Reviews Microbiology, 2015, 13, 255-268.	28.6	342
4	Molecular Architecture and Assembly Principles of <i>Vibrio cholerae</i> Biofilms. Science, 2012, 337, 236-239.	12.6	340
5	Biofilm formation and phenotypic variation enhance predation-driven persistence of Vibrio cholerae. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16819-16824.	7.1	288
6	Molecular analysis of rugosity in a Vibrio cholerae O1 El Tor phase variant. Molecular Microbiology, 2004, 53, 497-515.	2.5	247
7	VpsR, a Member of the Response Regulators of the Two-Component Regulatory Systems, Is Required for Expression of vps Biosynthesis Genes and EPS ETr -Associated Phenotypes in Vibrio cholerae O1 El Tor. Journal of Bacteriology, 2001, 183, 1716-1726.	2.2	215
8	Role of Vibrio polysaccharide (vps) genes in VPS production, biofilm formation and Vibrio cholerae pathogenesis. Microbiology (United Kingdom), 2010, 156, 2757-2769.	1.8	211
9	Biofilm Matrix Proteins. Microbiology Spectrum, 2015, 3, .	3.0	193
10	Transcriptome and Phenotypic Responses of Vibrio cholerae to Increased Cyclic di-GMP Level. Journal of Bacteriology, 2006, 188, 3600-3613.	2.2	189
11	Quantitative image analysis of microbial communities with BiofilmQ. Nature Microbiology, 2021, 6, 151-156.	13.3	181
12	Cyclic-diGMP signal transduction systems in Vibrio cholerae: modulation of rugosity and biofilm formation. Molecular Microbiology, 2006, 60, 331-348.	2.5	179
13	VpsT Is a Transcriptional Regulator Required for Expression of vps Biosynthesis Genes and the Development of Rugose Colonial Morphology in Vibrio cholerae O1 El Tor. Journal of Bacteriology, 2004, 186, 1574-1578.	2.2	175
14	Regulation of Rugosity and Biofilm Formation in Vibrio cholerae : Comparison of VpsT and VpsR Regulons and Epistasis Analysis of vpsT , vpsR , and hapR. Journal of Bacteriology, 2007, 189, 388-402.	2.2	170
15	The rbmBCDEF Gene Cluster Modulates Development of Rugose Colony Morphology and Biofilm Formation in Vibrio cholerae. Journal of Bacteriology, 2007, 189, 2319-2330.	2.2	166
16	Vibrio cholerae use pili and flagella synergistically to effect motility switching and conditional surface attachment. Nature Communications, 2014, 5, 4913.	12.8	165
17	Identification and Characterization of RbmA, a Novel Protein Required for the Development of Rugose Colony Morphology and Biofilm Structure in Vibrio cholerae. Journal of Bacteriology, 2006, 188, 1049-1059.	2.2	146
18	Nucleotide binding by the widespread high-affinity cyclic di-GMP receptor MshEN domain. Nature Communications, 2016, 7, 12481.	12.8	129

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19	The ins and outs of cyclic di-GMP signaling in Vibrio cholerae. Current Opinion in Microbiology, 2017, 36, 20-29.	5.1	119
20	Smooth to rugose phase variation in Vibrio cholerae can be mediated by a single nucleotide change that targets câ€diâ€GMP signalling pathway. Molecular Microbiology, 2007, 63, 995-1007.	2.5	115
21	Rules of Engagement: The Type VI Secretion System in Vibrio cholerae. Trends in Microbiology, 2017, 25, 267-279.	7.7	112
22	Identification and Characterization of Cyclic Diguanylate Signaling Systems Controlling Rugosity in <i>Vibrio cholerae</i>. Journal of Bacteriology, 2008, 190, 7392-7405.	2.2	108
23	C-di-GMP Regulates Motile to Sessile Transition by Modulating MshA Pili Biogenesis and Near-Surface Motility Behavior in Vibrio cholerae. PLoS Pathogens, 2015, 11, e1005068.	4.7	108
24	Systematic Identification of Cyclic-di-GMP Binding Proteins in Vibrio cholerae Reveals a Novel Class of Cyclic-di-GMP-Binding ATPases Associated with Type II Secretion Systems. PLoS Pathogens, 2015, 11, e1005232.	4.7	107
25	Staying Alive: <i>Vibrio cholerae</i> â€™s Cycle of Environmental Survival, Transmission, and Dissemination. Microbiology Spectrum, 2016, 4, .	3.0	107
26	Temperature affects câ€diâ€<scp>GMP</scp> signalling and biofilm formation in <scp><i>V</i></scp><i>ibrio cholerae</i>. Environmental Microbiology, 2015, 17, 4290-4305.	3.8	96
27	Structural Basis for Biofilm Formation via the Vibrio cholerae Matrix Protein RbmA. Journal of Bacteriology, 2013, 195, 3277-3286.	2.2	84
28	Identification and Characterization of a Phosphodiesterase That Inversely Regulates Motility and Biofilm Formation in <i>Vibrio cholerae</i>. Journal of Bacteriology, 2010, 192, 4541-4552.	2.2	76
29	c-di-GMP modulates type IV MSHA pilus retraction and surface attachment in Vibrio cholerae. Nature Communications, 2020, 11, 1549.	12.8	70
30	Vibrio cholerae Response Regulator VxrB Controls Colonization and Regulates the Type VI Secretion System. PLoS Pathogens, 2015, 11, e1004933.	4.7	69
31	Identification and Characterization of VpsR and VpsT Binding Sites in Vibrio cholerae. Journal of Bacteriology, 2015, 197, 1221-1235.	2.2	68
32	Overexpression of VpsS, a Hybrid Sensor Kinase, Enhances Biofilm Formation in <i>Vibrio cholerae</i>. Journal of Bacteriology, 2009, 191, 5147-5158.	2.2	66
33	Breakdown of Vibrio cholerae biofilm architecture induced by antibiotics disrupts community barrier function. Nature Microbiology, 2019, 4, 2136-2145.	13.3	64
34	The LonA Protease Regulates Biofilm Formation, Motility, Virulence, and the Type VI Secretion System in Vibrio cholerae. Journal of Bacteriology, 2016, 198, 973-985.	2.2	61
35	Polymyxin B Resistance and Biofilm Formation in Vibrio cholerae Are Controlled by the Response Regulator CarR. Infection and Immunity, 2015, 83, 1199-1209.	2.2	58
36	Structural dynamics of RbmA governs plasticity of Vibrio cholerae biofilms. ELife, 2017, 6, .	6.0	57

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37	<scp>CdiA</scp> promotes receptorâ€independent intercellular adhesion. Molecular Microbiology, 2015, 98, 175-192.	2.5	56
38	Response of Vibrio cholerae to Low-Temperature Shifts: CspV Regulation of Type VI Secretion, Biofilm Formation, and Association with Zooplankton. Applied and Environmental Microbiology, 2016, 82, 4441-4452.	3.1	56
39	Molecular Determinants of Mechanical Properties of V.Âcholerae Biofilms atÂthe Air-Liquid Interface. Biophysical Journal, 2014, 107, 2245-2252.	0.5	55
40	Cellular Levels and Binding of c-di-GMP Control Subcellular Localization and Activity of the Vibrio cholerae Transcriptional Regulator VpsT. PLoS Pathogens, 2012, 8, e1002719.	4.7	52
41	Functional Specialization in <i>Vibrio cholerae</i> Diguanylate Cyclases: Distinct Modes of Motility Suppression and c-di-GMP Production. MBio, 2019, 10, .	4.1	51
42	Phenotypic Analysis Reveals that the 2010 Haiti Cholera Epidemic Is Linked to a Hypervirulent Strain. Infection and Immunity, 2016, 84, 2473-2481.	2.2	48
43	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. Physical Biology, 2021, 18, 051501.	1.8	46
44	The Type II Secretion System Delivers Matrix Proteins for Biofilm Formation by Vibrio cholerae. Journal of Bacteriology, 2014, 196, 4245-4252.	2.2	45
45	Reciprocal c-di-GMP signaling: Incomplete flagellum biogenesis triggers c-di-GMP signaling pathways that promote biofilm formation. PLoS Genetics, 2020, 16, e1008703.	3.5	44
46	The Two-Component Signal Transduction System VxrAB Positively Regulates Vibrio cholerae Biofilm Formation. Journal of Bacteriology, 2017, 199, .	2.2	43
47	Synchronous termination of replication of the two chromosomes is an evolutionary selected feature in Vibrionaceae. PLoS Genetics, 2018, 14, e1007251.	3.5	36
48	Mechanisms Underlying <i>Vibrio cholerae</i> Biofilm Formation and Dispersion. Annual Review of Microbiology, 2022, 76, 503-532.	7.3	34
49	Biofilm Formation and Detachment in Gram-Negative Pathogens Is Modulated by Select Bile Acids. PLoS ONE, 2016, 11, e0149603.	2.5	31
50	A Conserved Regulatory Circuit Controls Large Adhesins in Vibrio cholerae. MBio, 2019, 10, .	4.1	29
51	Vibrio cholerae Utilizes Direct sRNA Regulation in Expression of a Biofilm Matrix Protein. PLoS ONE, 2014, 9, e101280.	2.5	24
52	Species-dependent hydrodynamics of flagellum-tethered bacteria in early biofilm development. Journal of the Royal Society Interface, 2016, 13, 20150966.	3.4	23
53	Development of Ratiometric Bioluminescent Sensors for <i>in Vivo</i> Detection of Bacterial Signaling. ACS Chemical Biology, 2020, 15, 904-914.	3.4	20
54	Effect of antimicrobial nanocomposites on Vibrio cholerae lifestyles: Pellicle biofilm, planktonic and surface-attached biofilm. PLoS ONE, 2019, 14, e0217869.	2.5	19

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55	c-di-GMP inhibits LonA-dependent proteolysis of TfoY in Vibrio cholerae. PLoS Genetics, 2020, 16, e1008897.	3.5	19
56	NtrC Adds a New Node to the Complex Regulatory Network of Biofilm Formation and <i>vps</i> Expression in Vibrio cholerae. Journal of Bacteriology, 2018, 200, .	2.2	18
57	Nitric oxide stimulates type IV MSHA pilus retraction in <i>Vibrio cholerae</i> via activation of the phosphodiesterase CdpA. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	13
58	Biofilm Matrix Proteins. , 0, , 201-222.		10
59	A tyrosine phosphoregulatory system controls exopolysaccharide biosynthesis and biofilm formation in Vibrio cholerae. PLoS Pathogens, 2020, 16, e1008745.	4.7	10
60	Staying Alive: Vibrio cholerae's Cycle of Environmental Survival, Transmission, and Dissemination. , 2016, , 593-633.		5
61	Strategies and Approaches for Discovery of Small Molecule Disruptors of Biofilm Physiology. Molecules, 2021, 26, 4582.	3.8	5
62	Utilizing imaging mass spectrometry to analyze microbial biofilm chemical responses to exogenous compounds. Methods in Enzymology, 2022, 665, 281-304.	1.0	5
63	Sensor Domain of Histidine Kinase VxrA of Vibrio cholerae: Hairpin-Swapped Dimer and Its Conformational Change. Journal of Bacteriology, 2021, 203, .	2.2	4
64	Cyclic Di-GMP Signaling in Vibrio cholerae. , 2014, , 253-269.		2
65	Correction for Zamorano-SÃ¡nchez et al., â€œFunctional Specialization in Vibrio cholerae Diguanylate Cyclases: Distinct Modes of Motility Suppression and c-di-GMP Productionâ€• MBio, 2020, 11, .	4.1	2
66	The bioactive lipid (<i>S</i>)-sebastenoic acid impacts motility and dispersion in <i>Vibrio cholerae</i>. Canadian Journal of Chemistry, 2018, 96, 196-203.	1.1	0