Bonnie L Bassler

List of Publications by Year
in descending order

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222 papers	42,310 citations	3933 88 h-index	3915 177 g-index
273 all docs	273 docs citations	273 times ranked	22074 citing authors

#	Article	IF	Citations
1	Quorum Sensing in Bacteria. Annual Review of Microbiology, 2001, 55, 165-199.	7.3	4,088
2	QUORUM SENSING: Cell-to-Cell Communication in Bacteria. Annual Review of Cell and Developmental Biology, 2005, 21, 319-346.	9.4	3,198
3	Quorum sensing signalâ€“response systems in Gram-negative bacteria. Nature Reviews Microbiology, 2016, 14, 576-588.	28.6	1,586
4	Bacterial Quorum Sensing: Its Role in Virulence and Possibilities for Its Control. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a012427-a012427.	6.2	1,460
5	Bacterial Quorum-Sensing Network Architectures. Annual Review of Genetics, 2009, 43, 197-222.	7.6	1,426
6	Structural identification of a bacterial quorum-sensing signal containing boron. Nature, 2002, 415, 545-549.	27.8	1,379
7	Bacterially Speaking. Cell, 2006, 125, 237-246.	28.9	963
8	The LuxS family of bacterial autoinducers: biosynthesis of a novel quorumâ€sensing signal molecule. Molecular Microbiology, 2001, 41, 463-476.	2.5	909
9	The Small RNA Chaperone Hfq and Multiple Small RNAs Control Quorum Sensing in Vibrio harveyi and Vibrio cholerae. Cell, 2004, 118, 69-82.	28.9	904
10	Bacterial Small-Molecule Signaling Pathways. Science, 2006, 311, 1113-1116.	12.6	868
11	How bacteria talk to each other: regulation of gene expression by quorum sensing. Current Opinion in Microbiology, 1999, 2, 582-587.	5.1	854
12	Quorum-sensing regulators control virulence gene expression in Vibrio cholerae. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3129-3134.	7.1	800
13	Quorum sensing controls biofilm formation in Vibrio cholerae. Molecular Microbiology, 2003, 50, 101-104.	2.5	760
14	Small Talk. Cell, 2002, 109, 421-424.	28.9	704
15	Intercellular signalling in Vibrio harveyi: sequence and function of genes regulating expression of luminescence. Molecular Microbiology, 1993, 9, 773-786.	2.5	690
16	Bacterial quorum sensing in complex and dynamically changing environments. Nature Reviews Microbiology, 2019, 17, 371-382.	28.6	683
17	A quorum-sensing inhibitor blocks Pseudomonas aeruginosa virulence and biofilm formation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17981-17986.	7.1	628
18	Multiple signalling systems controlling expression of luminescence in Vibrio harveyi: sequence and function of genes encoding a second sensory pathway. Molecular Microbiology, 1994, 13, 273-286.	2.5	624

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19	LuxS quorum sensing: more than just a numbers game. Current Opinion in Microbiology, 2003, 6, 191-197.	5.1	616
20	Parallel Quorum Sensing Systems Converge to Regulate Virulence in Vibrio cholerae. Cell, 2002, 110, 303-314.	28.9	598
21	Salmonella typhimurium Recognizes a Chemically Distinct Form of the Bacterial Quorum-Sensing Signal AI-2. Molecular Cell, 2004, 15, 677-687.	9.7	502
22	Three Parallel Quorum-Sensing Systems Regulate Gene Expression in Vibrio harveyi. Journal of Bacteriology, 2004, 186, 6902-6914.	2.2	487
23	Interspecies communication in bacteria. Journal of Clinical Investigation, 2003, 112, 1291-1299.	8.2	463
24	The Mechanical World of Bacteria. Cell, 2015, 161, 988-997.	28.9	422
25	The languages of bacteria. Genes and Development, 2001, 15, 1468-1480.	5.9	405
26	The major Vibrio cholerae autoinducer and its role in virulence factor production. Nature, 2007, 450, 883-886.	27.8	399
27	Chemical communication among bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14549-14554.	7.1	393
28	Surviving as a Community: Antibiotic Tolerance and Persistence in Bacterial Biofilms. Cell Host and Microbe, 2019, 26, 15-21.	11.0	380
29	Regulation of Uptake and Processing of the Quorum-Sensing Autoinducer AI-2 in Escherichia coli. Journal of Bacteriology, 2005, 187, 238-248.	2.2	379
30	Quorum Sensing Controls Biofilm Formation in Vibrio cholerae through Modulation of Cyclic Di-GMP Levels and Repression of vpsT. Journal of Bacteriology, 2008, 190, 2527-2536.	2.2	378
31	A genetic analysis of the function of LuxO, a two-component response regulator involved in quorum sensing in Vibrio harveyi. Molecular Microbiology, 1999, 31, 665-677.	2.5	327
32	Autoinducer 2: a concentration-dependent signal for mutualistic bacterial biofilm growth. Molecular Microbiology, 2006, 60, 1446-1456.	2.5	327
33	The LuxS-dependent autoinducer AI-2 controls the expression of an ABC transporter that functions in AI-2 uptake in Salmonella typhimurium. Molecular Microbiology, 2008, 42, 777-793.	2.5	319
34	Solutions to the Public Goods Dilemma in Bacterial Biofilms. Current Biology, 2014, 24, 50-55.	3.9	307
35	CsrA and three redundant small RNAs regulate quorum sensing in Vibrio cholerae. Molecular Microbiology, 2005, 58, 1186-1202.	2.5	304
36	Quorum Sensing Regulates Type III Secretion in Vibrio harveyi and Vibrio parahaemolyticus. Journal of Bacteriology, 2004, 186, 3794-3805.	2.2	296

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37	Bacterial social engagements. Trends in Cell Biology, 2004, 14, 648-656.	7.9	295
38	Regulation of quorum sensing in Vibrio harveyi by LuxO and Sigmaâ€54. Molecular Microbiology, 2000, 36, 940-954.	2.5	288
39	Biofilm streamers cause catastrophic disruption of flow with consequences for environmental and medical systems. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4345-4350.	7.1	283
40	Lsrâ€mediated transport and processing of AIâ€2 in Salmonella typhimurium. Molecular Microbiology, 2003, 50, 1411-1427.	2.5	278
41	Interference with AI-2-mediated bacterial cellâ€“cell communication. Nature, 2005, 437, 750-753.	27.8	268
42	AphA and LuxR/HapR reciprocally control quorum sensing in vibrios. Genes and Development, 2011, 25, 397-408.	5.9	266
43	Ligand-Induced Asymmetry in Histidine Sensor Kinase Complex Regulates Quorum Sensing. Cell, 2006, 126, 1095-1108.	28.9	258
44	Vibrio harveyi quorum sensing: a coincidence detector for two autoinducers controls gene expression. EMBO Journal, 2003, 22, 870-881.	7.8	253
45	Multiple small RNAs act additively to integrate sensory information and control quorum sensing in Vibrio harveyi. Genes and Development, 2007, 21, 221-233.	5.9	248
46	A Host-Produced Quorum-Sensing Autoinducer Controls a Phage Lysis-Lysogeny Decision. Cell, 2019, 176, 268-280.e13.	28.9	248
47	A Strategy for Antagonizing Quorum Sensing. Molecular Cell, 2011, 42, 199-209.	9.7	246
48	Quorum sensing controls the Pseudomonas aeruginosa CRISPR-Cas adaptive immune system. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 131-135.	7.1	227
49	Sequence and Function of LuxU: a Two-Component Phosphorelay Protein That Regulates Quorum Sensing in Vibrio harveyi. Journal of Bacteriology, 1999, 181, 899-906.	2.2	217
50	The Vibrio harveyi quorum-sensing system uses shared regulatory components to discriminate between multiple autoinducers. Genes and Development, 2006, 20, 2754-2767.	5.9	204
51	Flavonoids Suppress Pseudomonas aeruginosa Virulence through Allosteric Inhibition of Quorum-sensing Receptors. Journal of Biological Chemistry, 2017, 292, 4064-4076.	3.4	199
52	Regulation of LuxPQ Receptor Activity by the Quorum-Sensing Signal Autoinducer-2. Molecular Cell, 2005, 18, 507-518.	9.7	193
53	Differential RNA-seq of Vibrio cholerae identifies the VqmR small RNA as a regulator of biofilm formation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E766-75.	7.1	191
54	A Quorum-Sensing Antagonist Targets Both Membrane-Bound and Cytoplasmic Receptors and Controls Bacterial Pathogenicity. Molecular Cell, 2009, 35, 143-153.	9.7	186

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55	A fitness trade-off between local competition and dispersal in Vibrio cholerae biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14181-14185.	7.1	183
56	Regulation of autoinducer production in Salmonella typhimurium. Molecular Microbiology, 1999, 31, 585-595.	2.5	180
57	Regulatory small RNAs circumvent the conventional quorum sensing pathway in pandemic Vibrio cholerae. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11145-11149.	7.1	180
58	A Vibrio cholerae autoinducerâ€“receptor pair that controls biofilm formation. Nature Chemical Biology, 2017, 13, 551-557.	8.0	179
59	Architectural transitions in Vibrio cholerae biofilms at single-cell resolution. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2066-72.	7.1	178
60	Extracellular matrix structure governs invasion resistance in bacterial biofilms. ISME Journal, 2015, 9, 1700-1709.	9.8	172
61	Information processing and signal integration in bacterial quorum sensing. Molecular Systems Biology, 2009, 5, 325.	7.2	165
62	Vibrio cholerae biofilm growth program and architecture revealed by single-cell live imaging. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5337-43.	7.1	159
63	A genetic analysis of the functions of LuxN: a two-component hybrid sensor kinase that regulates quorum sensing in Vibrio harveyi. Molecular Microbiology, 2000, 35, 139-149.	2.5	157
64	Sequence and function of LuxO, a negative regulator of luminescence in Vibrio harveyi. Molecular Microbiology, 1994, 12, 403-412.	2.5	156
65	Adhesion as a weapon in microbial competition. ISME Journal, 2015, 9, 139-149.	9.8	156
66	Phosphorylation and Processing of the Quorum-Sensing Molecule Autoinducer-2 in Enteric Bacteria. ACS Chemical Biology, 2007, 2, 128-136.	3.4	153
67	The RhlR quorum-sensing receptor controls Pseudomonas aeruginosa pathogenesis and biofilm development independently of its canonical homoserine lactone autoinducer. PLoS Pathogens, 2017, 13, e1006504.	4.7	146
68	Quantifying the Integration of Quorum-Sensing Signals with Single-Cell Resolution. PLoS Biology, 2009, 7, e1000068.	5.6	145
69	Quorum Sensing in Chromobacterium violaceum: DNA Recognition and Gene Regulation by the CviR Receptor. Journal of Bacteriology, 2011, 193, 3871-3878.	2.2	138
70	A Qrr Noncoding RNA Deploys Four Different Regulatory Mechanisms to Optimize Quorum-Sensing Dynamics. Cell, 2015, 160, 228-240.	28.9	137
71	Local and global consequences of flow on bacterial quorum sensing. Nature Microbiology, 2016, 1, 15005.	13.3	137
72	A Host-Produced Autoinducer-2 Mimic Activates Bacterial Quorum Sensing. Cell Host and Microbe, 2016, 19, 470-480.	11.0	134

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73	The Vibrio harveyi master quorumâ€sensing regulator, LuxR, a TetRâ€type protein is both an activator and a repressor: DNA recognition and binding specificity at target promoters. Molecular Microbiology, 2008, 70, 76-88.	2.5	131
74	Signal production and detection specificity in Vibrio CqsA/CqsS quorumâ€sensing systems. Molecular Microbiology, 2011, 79, 1407-1417.	2.5	128
75	Mob Psychology. Journal of Bacteriology, 2002, 184, 873-883.	2.2	124
76	Negative Feedback Loops Involving Small Regulatory RNAs Precisely Control the Vibrio harveyi Quorum-Sensing Response. Molecular Cell, 2010, 37, 567-579.	9.7	123
77	An Expeditious Synthesis of DPD and Boron Binding Studies. Organic Letters, 2005, 7, 569-572.	4.6	121
78	Extracellular-matrix-mediated osmotic pressure drives Vibrio cholerae biofilm expansion and cheater exclusion. Nature Communications, 2017, 8, 327.	12.8	119
79	Individual and Combined Roles of the Master Regulators AphA and LuxR in Control of the Vibrio harveyi Quorum-Sensing Regulon. Journal of Bacteriology, 2013, 195, 436-443.	2.2	117
80	Cutting through the complexity of cell collectives. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122770.	2.6	111
81	A negative feedback loop involving small RNAs accelerates Vibrio choleraeâ€™s transition out of quorum-sensing mode. Genes and Development, 2008, 22, 226-238.	5.9	110
82	Cell position fates and collective fountain flow in bacterial biofilms revealed by light-sheet microscopy. Science, 2020, 369, 71-77.	12.6	106
83	Quorumâ€sensing nonâ€coding small RNAs use unique pairing regions to differentially control mRNA targets. Molecular Microbiology, 2012, 83, 599-611.	2.5	105
84	Mechanism of Vibrio cholerae Autoinducer-1 Biosynthesis. ACS Chemical Biology, 2011, 6, 356-365.	3.4	103
85	Deducing Receptor Signaling Parameters from In Vivo Analysis: LuxN/AI-1 Quorum Sensing in Vibrio harveyi. Cell, 2008, 134, 461-473.	28.9	101
86	The PqsE and RhlR proteins are an autoinducer synthaseâ€“receptor pair that control virulence and biofilm development in Pseudomonas aeruginosa. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9411-E9418.	7.1	101
87	Gene dosage compensation calibrates four regulatory RNAs to control Vibrio cholerae quorum sensing. EMBO Journal, 2009, 28, 429-439.	7.8	100
88	Evidence for a Signaling System inHelicobacter pylori: Detection of aluxS-Encoded Autoinducer. Journal of Bacteriology, 2000, 182, 3638-3643.	2.2	98
89	Distinct Sensory Pathways in Vibrio cholerae El Tor and Classical Biotypes Modulate Cyclic Dimeric GMP Levels To Control Biofilm Formation. Journal of Bacteriology, 2009, 191, 169-177.	2.2	98
90	The Vibrio cholerae quorum-sensing autoinducer CAI-1: analysis of the biosynthetic enzyme CqsA. Nature Chemical Biology, 2009, 5, 891-895.	8.0	98

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91	Surface-attached molecules control Staphylococcus aureus quorum sensing and biofilm development. Nature Microbiology, 2017, 2, 17080.	13.3	95
92	SnapShot: Bacterial Quorum Sensing. Cell, 2018, 174, 1328-1328.e1.	28.9	94
93	Verticalization of bacterial biofilms. Nature Physics, 2018, 14, 954-960.	16.7	92
94	The Quorum-Sensing Molecule Autoinducer 2 Regulates Motility and Flagellar Morphogenesis in Helicobacter pylori. Journal of Bacteriology, 2007, 189, 6109-6117.	2.2	84
95	Quorum regulatory small <scp>RNAs</scp> repress type <scp>VI</scp> secretion in <scp>V</scp>ibrio cholerae. Molecular Microbiology, 2014, 92, 921-930.	2.5	84
96	Nonuniform growth and surface friction determine bacterial biofilm morphology on soft substrates. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7622-7632.	7.1	82
97	Analysis of Activator and Repressor Functions Reveals the Requirements for Transcriptional Control by LuxR, the Master Regulator of Quorum Sensing in Vibrio harveyi. MBio, 2013, 4, .	4.1	81
98	The small nucleoid protein Fis is involved in Vibrio cholerae quorum sensing. Molecular Microbiology, 2007, 63, 859-71.	2.5	78
99	Broad Spectrum Pro-Quorum-Sensing Molecules as Inhibitors of Virulence in Vibrios. PLoS Pathogens, 2012, 8, e1002767.	4.7	76
100	A smallâ€RNAâ€mediated negative feedback loop controls quorumâ€sensing dynamics in Vibrio harveyi. Molecular Microbiology, 2008, 70, 896-907.	2.5	68
101	Active regulation of receptor ratios controls integration of quorumâ€sensing signals in Vibrio harveyi. Molecular Systems Biology, 2011, 7, 491.	7.2	68
102	Structural determinants driving homoserine lactone ligand selection in the Pseudomonas aeruginosa LasR quorum-sensing receptor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 245-254.	7.1	68
103	Mechanical instability and interfacial energy drive biofilm morphogenesis. ELife, 2019, 8, .	6.0	67
104	Social Evolution Selects for Redundancy in Bacterial Quorum Sensing. PLoS Biology, 2016, 14, e1002386.	5.6	67
105	Flow environment and matrix structure interact to determine spatial competition in Pseudomonas aeruginosa biofilms. ELife, 2017, 6, .	6.0	65
106	Functional determinants of the quorum-sensing non-coding RNAs and their roles in target regulation. EMBO Journal, 2013, 32, 2158-2171.	7.8	64
107	The intragenus and interspecies quorum-sensing autoinducers exert distinct control over Vibrio cholerae biofilm formation and dispersal. PLoS Biology, 2019, 17, e3000429.	5.6	64
108	Bacterial Biofilm Material Properties Enable Removal and Transfer by Capillary Peeling. Advanced Materials, 2018, 30, e1804153.	21.0	62

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109	Measurement of the Copy Number of the Master Quorum-Sensing Regulator of a Bacterial Cell. Biophysical Journal, 2010, 98, 2024-2031.	0.5	57
110	Probing bacterial transmembrane histidine kinase receptorâ€“ligand interactions with natural and synthetic molecules. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5575-5580.	7.1	56
111	Chemical synthesis of S-ribosyl-l-homocysteine and activity assay as a LuxS substrate. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 3897-3900.	2.2	52
112	Temperature, by Controlling Growth Rate, Regulates CRISPR-Cas Activity in Pseudomonas aeruginosa. MBio, 2018, 9, .	4.1	52
113	AI-1 Influences the Kinase Activity but Not the Phosphatase Activity of LuxN of Vibrio harveyi. Journal of Biological Chemistry, 2006, 281, 24398-24404.	3.4	51
114	Quorum sensing controls Vibrio cholerae multicellular aggregate formation. ELife, 2018, 7, .	6.0	51
115	Control of the Type 3 Secretion System in Vibrio harveyi by Quorum Sensing through Repression of ExsA. Applied and Environmental Microbiology, 2010, 76, 4996-5004.	3.1	50
116	Filaments in curved streamlines: rapid formation ofStaphylococcus aureusbiofilm streamers. New Journal of Physics, 2014, 16, 065024.	2.9	50
117	Development of Potent Inhibitors of Pyocyanin Production in Pseudomonas aeruginosa. Journal of Medicinal Chemistry, 2015, 58, 1298-1306.	6.4	50
118	Societal interactions in ovarian cancer metastasis: a quorum-sensing hypothesis. Clinical and Experimental Metastasis, 2009, 26, 67-76.	3.3	48
119	Modulating Vibrio cholerae Quorum-Sensing-Controlled Communication Using Autoinducer-Loaded Nanoparticles. Nano Letters, 2015, 15, 2235-2241.	9.1	47
120	Phage-Encoded LuxR-Type Receptors Responsive to Host-Produced Bacterial Quorum-Sensing Autoinducers. MBio, 2019, 10, .	4.1	46
121	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
122	Environmental fluctuation governs selection for plasticity in biofilm production. ISME Journal, 2017, 11, 1569-1577.	9.8	45
123	Quorum Sensing Regulates the Osmotic Stress Response in Vibrio harveyi. Journal of Bacteriology, 2015, 197, 73-80.	2.2	44
124	Ligand and antagonist driven regulation of the Vibrio cholerae quorumâ€sensing receptor CqsS. Molecular Microbiology, 2012, 83, 1095-1108.	2.5	43
125	Photosensing and quorum sensing are integrated to control Pseudomonas aeruginosa collective behaviors. PLoS Biology, 2019, 17, e3000579.	5.6	43
126	Asymmetric regulation of quorum-sensing receptors drives autoinducer-specific gene expression programs in Vibrio cholerae. PLoS Genetics, 2017, 13, e1006826.	3.5	41

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127	Boron Binding with the Quorum Sensing Signal AI-2 and Analogues. Organic Letters, 2004, 6, 2635-2637.	4.6	39
128	Observing bacteria through the lens of social evolution. Journal of Biology, 2008, 7, 27.	2.7	37
129	The PqsE-RhlR Interaction Regulates RhlR DNA Binding to Control Virulence Factor Production in Pseudomonas aeruginosa. Microbiology Spectrum, 2022, 10, e0210821.	3.0	36
130	Quorum sensing across bacterial and viral domains. PLoS Pathogens, 2021, 17, e1009074.	4.7	34
131	Determinants governing ligand specificity of the <scp>V</scp>ibrio harveyiâ€¦<scp>L</scp>ux<scp>N</scp> quorumâ€sensing receptor. Molecular Microbiology, 2015, 95, 127-142.	2.5	33
132	Structure, Regulation, and Inhibition of the Quorum-Sensing Signal Integrator LuxO. PLoS Biology, 2016, 14, e1002464.	5.6	32
133	Quorum Sensing Influences Vibrio harveyi Growth Rates in a Manner Not Fully Accounted For by the Marker Effect of Bioluminescence. PLoS ONE, 2008, 3, e1671.	2.5	31
134	Time-resolved proteomic analysis of quorum sensing in Vibrio harveyi. Chemical Science, 2016, 7, 1797-1806.	7.4	31
135	Separating Functions of the Phage-Encoded Quorum-Sensing-Activated Antirepressor Qtip. Cell Host and Microbe, 2020, 27, 629-641.e4.	11.0	31
136	Chemotaxis to chitin oligosaccharides by Vibriofurnissii, a chitinivorous marine bacterium. Biochemical and Biophysical Research Communications, 1989, 161, 1172-1176.	2.1	30
137	An autoinducer-independent RhlR quorum-sensing receptor enables analysis of RhlR regulation. PLoS Pathogens, 2019, 15, e1007820.	4.7	30
138	An Autoinducer Analogue Reveals an Alternative Mode of Ligand Binding for the LasR Quorum-Sensing Receptor. ACS Chemical Biology, 2019, 14, 378-389.	3.4	30
139	Mechanism underlying autoinducer recognition in the Vibrio cholerae DPO-VqmA quorum-sensing pathway. Journal of Biological Chemistry, 2020, 295, 2916-2931.	3.4	29
140	Caenorhabditis elegans Recognizes a Bacterial Quorum-sensing Signal Molecule through the AWCON Neuron. Journal of Biological Chemistry, 2014, 289, 26566-26573.	3.4	28
141	Inhibitor Mimetic Mutations in the Pseudomonas aeruginosa PqsE Enzyme Reveal a Proteinâ€“Protein Interaction with the Quorum-Sensing Receptor RhlR That Is Vital for Virulence Factor Production. ACS Chemical Biology, 2021, 16, 740-752.	3.4	27
142	Identification of signaling pathways, matrix-digestion enzymes, and motility components controlling Vibrio cholerae biofilm dispersal. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32639-32647.	7.1	26
143	Comprehensive analysis reveals how single nucleotides contribute to noncoding RNA function in bacterial quorum sensing. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6038-47.	7.1	25
144	Small molecule probes of the receptor binding site in the Vibrio cholerae CAI-1 quorum sensing circuit. Bioorganic and Medicinal Chemistry, 2011, 19, 6906-6918.	3.0	23

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145	Discovery of PqsE Thioesterase Inhibitors for Pseudomonas aeruginosa Using DNA-Encoded Small Molecule Library Screening. ACS Chemical Biology, 2020, 15, 446-456.	3.4	22
146	The Vibrio cholerae Quorum-Sensing Protein VqmA Integrates Cell Density, Environmental, and Host-Derived Cues into the Control of Virulence. MBio, 2020, 11, .	4.1	21
147	Vibrio fischeri siderophore production drives competitive exclusion during dualâ€species growth. Molecular Microbiology, 2020, 114, 244-261.	2.5	21
148	Inverse regulation of Vibrio cholerae biofilm dispersal by polyamine signals. ELife, 2021, 10, .	6.0	21
149	Solution Structure and Dynamics of LuxU from Vibrio harveyi, a Phosphotransferase Protein Involved in Bacterial Quorum Sensing. Journal of Molecular Biology, 2005, 347, 297-307.	4.2	20
150	Role of the CAI-1 Fatty Acid Tail in the Vibrio cholerae Quorum Sensing Response. Journal of Medicinal Chemistry, 2012, 55, 9669-9681.	6.4	19
151	Highly potent, chemically stable quorum sensing agonists for vibrio Cholerae. Chemical Science, 2014, 5, 151-155.	7.4	19
152	Quorum Sensing. , 2013, , 495-509.		18
153	Identification of a Molecular Latch that Regulates Staphylococcal Virulence. Cell Chemical Biology, 2019, 26, 548-558.e4.	5.2	18
154	Quorum Signaling and Symbiosis in the Marine Luminous Bacterium Vibrio fischeri. , 0, , 233-250.		18
155	Metabolites as Intercellular Signals for Regulation of Community-Level Traits. , 0, , 105-129.		18
156	Hierarchical transitions and fractal wrinkling drive bacterial pellicle morphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
157	Quorum Sensing in Rotifers. , 0, , 453-461.		16
158	LuxR-Type Proteins in Pseudomonas aeruginosa Quorum Sensing: Distinct Mechanisms with Global Implications. , 0, , 131-144.		15
159	Signal Transduction Network Principles Underlying Bacterial Collective Behaviors. Annual Review of Microbiology, 2022, 76, 235-257.	7.3	15
160	LuxT controls specific quorum-sensing-regulated behaviors in Vibrionaceae spp. via repression of qrr1, encoding a small regulatory RNA. PLoS Genetics, 2021, 17, e1009336.	3.5	13
161	<scp>CqsA</scp>â€“<scp>CqsS</scp> quorumâ€sensing signalâ€receptor specificity in <scp>P</scp>hotobacterium angustum. Molecular Microbiology, 2014, 91, 821-833.	2.5	12
162	Cooperative Regulation of Competence Development in Streptococcus pneumoniae: Cell-to-Cell Signaling via a Peptide Pheromone and an Alternative Sigma Factor. , 0, , 345-362.		12

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163	Evidence for biosurfactant-induced flow in corners and bacterial spreading in unsaturated porous media. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2111060118.	7.1	10
164	Intercellular Communication in Marine Vibrio Species: Density-Dependent Regulation of the Expression of Bioluminescence. , 0, , 431-445.		10
165	Acylated Homoserine Lactone Signaling in Marine Bacterial Systems. , 0, , 251-272.		9
166	Quantitative inputâ€“output dynamics of a c-di-GMP signal transduction cascade in Vibrio cholerae. PLoS Biology, 2022, 20, e3001585.	5.6	9
167	Quorum sensing controls biofilm formation in Vibrio cholerae. Molecular Microbiology, 2004, 51, 1521-1521.	2.5	8
168	Protein-Level Fluctuation Correlation at the Microcolony Level and Its Application to the Vibrio harveyi Quorum-Sensing Circuit. Biophysical Journal, 2011, 100, 3045-3053.	0.5	8
169	Microbes as Menaces, Mates & Marvels. Daedalus, 2012, 141, 67-76.	1.8	8
170	Saccharomyces cerevisiae Requires CFF1 To Produce 4-Hydroxy-5-Methylfuran-3(2H)-One, a Mimic of the Bacterial Quorum-Sensing Autoinducer AI-2. MBio, 2021, 12, .	4.1	8
171	Small Cellsâ€”Big Future. Molecular Biology of the Cell, 2010, 21, 3786-3787.	2.1	7
172	Bacterial regulatory mechanisms: the gene and beyond. Current Opinion in Microbiology, 2013, 16, 109-111.	5.1	7
173	Cell-to-Cell Communication in Rhizobia: Quorum Sensing and Plant Signaling. , 0, , 213-232.		7
174	Quorum-Sensing Inhibition. , 0, , 393-416.		7
175	Mechanism underlying the DNA-binding preferences of the Vibrio cholerae and vibriophage VP882 VqmA quorum-sensing receptors. PLoS Genetics, 2021, 17, e1009550.	3.5	6
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