

George A O toole

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159
papers

24,847
citations

67
h-index

157
g-index

187
ext. papers

28,782
ext. citations

5.9
avg, IF

7.42
L-index

#	Paper	IF	Citations
159	Mechanisms of biofilm resistance to antimicrobial agents. <i>Trends in Microbiology</i> , 2001 , 9, 34-9	12.4	2605
158	Biofilm formation as microbial development. <i>Annual Review of Microbiology</i> , 2000 , 54, 49-79	17.5	2344
157	Flagellar and twitching motility are necessary for <i>Pseudomonas aeruginosa</i> biofilm development. <i>Molecular Microbiology</i> , 1998 , 30, 295-304	4.1	2012
156	Microbial biofilms: from ecology to molecular genetics. <i>Microbiology and Molecular Biology Reviews</i> , 2000 , 64, 847-67	13.2	1983
155	Initiation of biofilm formation in <i>Pseudomonas fluorescens</i> WCS365 proceeds via multiple, convergent signalling pathways: a genetic analysis. <i>Molecular Microbiology</i> , 1998 , 28, 449-61	4.1	1911
154	A genetic basis for <i>Pseudomonas aeruginosa</i> biofilm antibiotic resistance. <i>Nature</i> , 2003 , 426, 306-10	50.4	851
153	Microtiter dish biofilm formation assay. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	803
152	Genetic approaches to study of biofilms. <i>Methods in Enzymology</i> , 1999 , 310, 91-109	1.7	613
151	Rhamnolipid surfactant production affects biofilm architecture in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2003 , 185, 1027-36	3.5	568
150	Growing and analyzing static biofilms. <i>Current Protocols in Microbiology</i> , 2005 , Chapter 1, Unit 1B.1	7.1	467
149	The developmental model of microbial biofilms: ten years of a paradigm up for review. <i>Trends in Microbiology</i> , 2009 , 17, 73-87	12.4	407
148	Long-distance delivery of bacterial virulence factors by <i>Pseudomonas aeruginosa</i> outer membrane vesicles. <i>PLoS Pathogens</i> , 2009 , 5, e1000382	7.6	365
147	Transition from reversible to irreversible attachment during biofilm formation by <i>Pseudomonas fluorescens</i> WCS365 requires an ABC transporter and a large secreted protein. <i>Molecular Microbiology</i> , 2003 , 49, 905-18	4.1	361
146	Alginate is not a significant component of the extracellular polysaccharide matrix of PA14 and PAO1 <i>Pseudomonas aeruginosa</i> biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 7907-12	11.5	337
145	<i>Saccharomyces cerevisiae</i> -based molecular tool kit for manipulation of genes from gram-negative bacteria. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5027-36	4.8	282
144	BifA, a cyclic-Di-GMP phosphodiesterase, inversely regulates biofilm formation and swarming motility by <i>Pseudomonas aeruginosa</i> PA14. <i>Journal of Bacteriology</i> , 2007 , 189, 8165-78	3.5	269
143	The global carbon metabolism regulator Crc is a component of a signal transduction pathway required for biofilm development by <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 425-31	3.5	245

142	LapD is a bis-(3Q)-cyclic dimeric GMP-binding protein that regulates surface attachment by <i>Pseudomonas fluorescens</i> Pf0-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3461-6	11.5	225
141	<i>Pseudomonas aeruginosa</i> biofilm formation in the cystic fibrosis airway. <i>Pulmonary Pharmacology and Therapeutics</i> , 2008 , 21, 595-9	3.5	220
140	Inverse regulation of biofilm formation and swarming motility by <i>Pseudomonas aeruginosa</i> PA14. <i>Journal of Bacteriology</i> , 2007 , 189, 3603-12	3.5	214
139	Interaction between bacteriophage DMS3 and host CRISPR region inhibits group behaviors of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2009 , 191, 210-9	3.5	201
138	SadC reciprocally influences biofilm formation and swarming motility via modulation of exopolysaccharide production and flagellar function. <i>Journal of Bacteriology</i> , 2007 , 189, 8154-64	3.5	201
137	The CRISPR/Cas adaptive immune system of <i>Pseudomonas aeruginosa</i> mediates resistance to naturally occurring and engineered phages. <i>Journal of Bacteriology</i> , 2012 , 194, 5728-38	3.5	181
136	Coculture of <i>Staphylococcus aureus</i> with <i>Pseudomonas aeruginosa</i> Drives <i>S. aureus</i> towards Fermentative Metabolism and Reduced Viability in a Cystic Fibrosis Model. <i>Journal of Bacteriology</i> , 2015 , 197, 2252-64	3.5	172
135	Phosphate-dependent modulation of c-di-GMP levels regulates <i>Pseudomonas fluorescens</i> Pf0-1 biofilm formation by controlling secretion of the adhesin LapA. <i>Molecular Microbiology</i> , 2007 , 63, 656-79 ^{4.1}	4.1	168
134	Second messenger regulation of biofilm formation: breakthroughs in understanding c-di-GMP effector systems. <i>Annual Review of Cell and Developmental Biology</i> , 2012 , 28, 439-62	12.6	167
133	Catheter lock solutions influence staphylococcal biofilm formation on abiotic surfaces. <i>Nephrology Dialysis Transplantation</i> , 2006 , 21, 2247-55	4.3	166
132	c-di-GMP and its Effects on Biofilm Formation and Dispersion: a <i>Pseudomonas Aeruginosa</i> Review. <i>Microbiology Spectrum</i> , 2015 , 3, MB-0003-2014	8.9	161
131	A c-di-GMP effector system controls cell adhesion by inside-out signaling and surface protein cleavage. <i>PLoS Biology</i> , 2011 , 9, e1000587	9.7	157
130	SadB is required for the transition from reversible to irreversible attachment during biofilm formation by <i>Pseudomonas aeruginosa</i> PA14. <i>Journal of Bacteriology</i> , 2004 , 186, 4476-85	3.5	157
129	A three-component regulatory system regulates biofilm maturation and type III secretion in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 1441-54	3.5	154
128	Susceptibility of biofilms to <i>Bdellovibrio bacteriovorus</i> attack. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 4044-51	4.8	143
127	Tobramycin and FDA-approved iron chelators eliminate <i>Pseudomonas aeruginosa</i> biofilms on cystic fibrosis cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009 , 41, 305-13	5.7	142
126	In vitro analysis of tobramycin-treated <i>Pseudomonas aeruginosa</i> biofilms on cystic fibrosis-derived airway epithelial cells. <i>Infection and Immunity</i> , 2008 , 76, 1423-33	3.7	135
125	Surface attachment induces <i>Pseudomonas aeruginosa</i> virulence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16860-5	11.5	133

124	Evidence for two flagellar stators and their role in the motility of <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2005 , 187, 771-7	3.5	133
123	Specific control of <i>Pseudomonas aeruginosa</i> surface-associated behaviors by two c-di-GMP diguanylate cyclases. <i>MBio</i> , 2010 , 1,	7.8	132
122	Structural basis for c-di-GMP-mediated inside-out signaling controlling periplasmic proteolysis. <i>PLoS Biology</i> , 2011 , 9, e1000588	9.7	131
121	The DeltaF508-CFTR mutation results in increased biofilm formation by <i>Pseudomonas aeruginosa</i> by increasing iron availability. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008 , 295, L25-37	5.8	130
120	Surface-induced and biofilm-induced changes in gene expression. <i>Current Opinion in Biotechnology</i> , 2000 , 11, 429-33	11.4	130
119	A hierarchical cascade of second messengers regulates <i>Pseudomonas aeruginosa</i> surface behaviors. <i>MBio</i> , 2015 , 6,	7.8	128
118	<i>Pseudomonas aeruginosa</i> rhamnolipids disperse <i>Bordetella bronchiseptica</i> biofilms. <i>FEMS Microbiology Letters</i> , 2005 , 250, 237-43	2.9	125
117	Growing and Analyzing Static Biofilms. <i>Current Protocols in Microbiology</i> , 2011 , 22, 1B.1.1	7.1	115
116	Non-identity-mediated CRISPR-bacteriophage interaction mediated via the Csy and Cas3 proteins. <i>Journal of Bacteriology</i> , 2011 , 193, 3433-45	3.5	112
115	Cyclic-di-GMP-mediated repression of swarming motility by <i>Pseudomonas aeruginosa</i> : the pilY1 gene and its impact on surface-associated behaviors. <i>Journal of Bacteriology</i> , 2010 , 192, 2950-64	3.5	111
114	Sensational biofilms: surface sensing in bacteria. <i>Current Opinion in Microbiology</i> , 2016 , 30, 139-146	7.9	109
113	Nanoscale adhesion forces of <i>Pseudomonas aeruginosa</i> type IV Pili. <i>ACS Nano</i> , 2014 , 8, 10723-33	16.7	106
112	Characterization and quantification of the fungal microbiome in serial samples from individuals with cystic fibrosis. <i>Microbiome</i> , 2014 , 2, 40	16.6	103
111	Unique microbial communities persist in individual cystic fibrosis patients throughout a clinical exacerbation. <i>Microbiome</i> , 2013 , 1, 27	16.6	102
110	Cystic Fibrosis Lung Infections: Polymicrobial, Complex, and Hard to Treat. <i>PLoS Pathogens</i> , 2015 , 11, e1005258	7.6	102
109	To build a biofilm. <i>Journal of Bacteriology</i> , 2003 , 185, 2687-9	3.5	98
108	<i>Pseudomonas aeruginosa</i> evasion of phagocytosis is mediated by loss of swimming motility and is independent of flagellum expression. <i>Infection and Immunity</i> , 2010 , 78, 2937-45	3.7	97
107	The <i>Pseudomonas aeruginosa</i> secreted protein PA2934 decreases apical membrane expression of the cystic fibrosis transmembrane conductance regulator. <i>Infection and Immunity</i> , 2007 , 75, 3902-12	3.7	95

106	Alters Staphylococcus Sensitivity to Vancomycin in a Biofilm Model of Cystic Fibrosis Infection. <i>MBio</i> , 2017 , 8,	7.8	94
105	Systematic analysis of diguanylate cyclases that promote biofilm formation by <i>Pseudomonas fluorescens</i> Pf0-1. <i>Journal of Bacteriology</i> , 2011 , 193, 4685-98	3.5	92
104	Conservation of the Pho regulon in <i>Pseudomonas fluorescens</i> Pf0-1. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 1910-24	4.8	92
103	Roles for flagellar stators in biofilm formation by <i>Pseudomonas aeruginosa</i> . <i>Research in Microbiology</i> , 2007 , 158, 471-7	4	92
102	<i>Candida albicans</i> ethanol stimulates <i>Pseudomonas aeruginosa</i> WspR-controlled biofilm formation as part of a cyclic relationship involving phenazines. <i>PLoS Pathogens</i> , 2014 , 10, e1004480	7.6	89
101	Biofilm formation by <i>Pseudomonas fluorescens</i> WCS365: a role for LapD. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 1375-1383	2.9	89
100	Associations between Gut Microbial Colonization in Early Life and Respiratory Outcomes in Cystic Fibrosis. <i>Journal of Pediatrics</i> , 2015 , 167, 138-47.e1-3	3.6	88
99	Modulation of <i>Pseudomonas aeruginosa</i> surface-associated group behaviors by individual amino acids through c-di-GMP signaling. <i>Research in Microbiology</i> , 2011 , 162, 680-8	4	86
98	Alginate Overproduction Promotes Coexistence with in a Model of Cystic Fibrosis Respiratory Infection. <i>MBio</i> , 2017 , 8,	7.8	78
97	Multigenerational memory and adaptive adhesion in early bacterial biofilm communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4471-4476	11.5	78
96	A <i>Pseudomonas aeruginosa</i> toxin that hijacks the host ubiquitin proteolytic system. <i>PLoS Pathogens</i> , 2011 , 7, e1001325	7.6	76
95	Cyclic di-GMP-mediated repression of swarming motility by <i>Pseudomonas aeruginosa</i> PA14 requires the MotAB stator. <i>Journal of Bacteriology</i> , 2015 , 197, 420-30	3.5	70
94	Aminoglycoside resistance of <i>Pseudomonas aeruginosa</i> biofilms modulated by extracellular polysaccharide. <i>International Microbiology</i> , 2010 , 13, 207-12	3	68
93	Isolation and characterization of a generalized transducing phage for <i>Pseudomonas aeruginosa</i> strains PAO1 and PA14. <i>Journal of Bacteriology</i> , 2004 , 186, 3270-3	3.5	67
92	PilZ Domain Protein FlgZ Mediates Cyclic Di-GMP-Dependent Swarming Motility Control in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2016 , 198, 1837-46	3.5	62
91	Structural features of the <i>Pseudomonas fluorescens</i> biofilm adhesin LapA required for LapG-dependent cleavage, biofilm formation, and cell surface localization. <i>Journal of Bacteriology</i> , 2014 , 196, 2775-88	3.5	61
90	Deletion mutant library for investigation of functional outputs of cyclic diguanylate metabolism in <i>Pseudomonas aeruginosa</i> PA14. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3384-93	4.8	56
89	"It Takes a Village": Mechanisms Underlying Antimicrobial Recalcitrance of Polymicrobial Biofilms. <i>Journal of Bacteriology</i> , 2019 , 202,	3.5	53

88	Plate-based assay for swimming motility in <i>Pseudomonas aeruginosa</i> . <i>Methods in Molecular Biology</i> , 2014 , 1149, 59-65	1.4	52
87	A Symphony of Cyclases: Specificity in Diguanylate Cyclase Signaling. <i>Annual Review of Microbiology</i> , 2017 , 71, 179-195	17.5	51
86	Sugar fatty acid esters inhibit biofilm formation by food-borne pathogenic bacteria. <i>International Journal of Food Microbiology</i> , 2010 , 138, 176-80	5.8	51
85	Genetic evidence for an alternative citrate-dependent biofilm formation pathway in <i>Staphylococcus aureus</i> that is dependent on fibronectin binding proteins and the GraRS two-component regulatory system. <i>Infection and Immunity</i> , 2008 , 76, 2469-77	3.7	51
84	Contribution of Physical Interactions to Signaling Specificity between a Diguanylate Cyclase and Its Effector. <i>MBio</i> , 2015 , 6, e01978-15	7.8	50
83	In vitro evaluation of tobramycin and aztreonam versus <i>Pseudomonas aeruginosa</i> biofilms on cystic fibrosis-derived human airway epithelial cells. <i>Journal of Antimicrobial Chemotherapy</i> , 2012 , 67, 2673-81	5.1	50
82	Plate-based assay for swarming motility in <i>Pseudomonas aeruginosa</i> . <i>Methods in Molecular Biology</i> , 2014 , 1149, 67-72	1.4	48
81	Single-cell and single-molecule analysis deciphers the localization, adhesion, and mechanics of the biofilm adhesin LapA. <i>ACS Chemical Biology</i> , 2014 , 9, 485-94	4.9	47
80	Lung function and microbiota diversity in cystic fibrosis. <i>Microbiome</i> , 2020 , 8, 45	16.6	44
79	Cystic Fibrosis Airway Microbiome: Overturning the Old, Opening the Way for the New. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	40
78	Di-adenosine tetraphosphate (Ap ₄ A) metabolism impacts biofilm formation by <i>Pseudomonas fluorescens</i> via modulation of c-di-GMP-dependent pathways. <i>Journal of Bacteriology</i> , 2010 , 192, 3011-23	3.5	40
77	LapG, required for modulating biofilm formation by <i>Pseudomonas fluorescens</i> Pf0-1, is a calcium-dependent protease. <i>Journal of Bacteriology</i> , 2012 , 194, 4406-14	3.5	40
76	Pouring salt on a wound: <i>Pseudomonas aeruginosa</i> virulence factors alter Na ⁺ and Cl ⁻ flux in the lung. <i>Journal of Bacteriology</i> , 2013 , 195, 4013-9	3.5	39
75	Clustered Regularly Interspaced Short Palindromic Repeat-Dependent, Biofilm-Specific Death of <i>Pseudomonas aeruginosa</i> Mediated by Increased Expression of Phage-Related Genes. <i>MBio</i> , 2015 , 6, e00129-15	7.8	38
74	<i>Pseudomonas aeruginosa</i> Increases the Sensitivity of Biofilm-Grown <i>Staphylococcus aureus</i> to Membrane-Targeting Antiseptics and Antibiotics. <i>MBio</i> , 2019 , 10,	7.8	38
73	Atomic force and super-resolution microscopy support a role for LapA as a cell-surface biofilm adhesin of <i>Pseudomonas fluorescens</i> . <i>Research in Microbiology</i> , 2012 , 163, 685-91	4	38
72	The microbiome in pediatric cystic fibrosis patients: the role of shared environment suggests a window of intervention. <i>Microbiome</i> , 2014 , 2, 14	16.6	37
71	Diphosphonium ionic liquids as broad-spectrum antimicrobial agents. <i>Cornea</i> , 2012 , 31, 810-6	3.1	37

70	Bacterial biofilms and ocular infections. <i>Ocular Surface</i> , 2005 , 3, 73-80	6.5	37
69	All together now: Integrating biofilm research across disciplines. <i>MRS Bulletin</i> , 2011 , 36, 339-342	3.2	36
68	Structural characterization of a conserved, calcium-dependent periplasmic protease from <i>Legionella pneumophila</i> . <i>Journal of Bacteriology</i> , 2012 , 194, 4415-25	3.5	36
67	Mechanistic insight into the conserved allosteric regulation of periplasmic proteolysis by the signaling molecule cyclic-di-GMP. <i>ELife</i> , 2014 , 3, e03650	8.9	34
66	Flagellar Stators Stimulate c-di-GMP Production by <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	34
65	Bacteria, Rev Your Engines: Stator Dynamics Regulate Flagellar Motility. <i>Journal of Bacteriology</i> , 2017 , 199,	3.5	31
64	Cif is negatively regulated by the TetR family repressor CifR. <i>Infection and Immunity</i> , 2008 , 76, 3197-206	3.7	31
63	Cyclic Di-GMP-Regulated Periplasmic Proteolysis of a <i>Pseudomonas aeruginosa</i> Type Vb Secretion System Substrate. <i>Journal of Bacteriology</i> , 2016 , 198, 66-76	3.5	30
62	A Multimodal Strategy Used by a Large c-di-GMP Network. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	29
61	The Inhibitory Site of a Diguanilate Cyclase Is a Necessary Element for Interaction and Signaling with an Effector Protein. <i>Journal of Bacteriology</i> , 2016 , 198, 1595-603	3.5	29
60	Single-molecule analysis of <i>Pseudomonas fluorescens</i> footprints. <i>ACS Nano</i> , 2014 , 8, 1690-8	16.7	28
59	Friendly Fire: Biological Functions and Consequences of Chromosomal Targeting by CRISPR-Cas Systems. <i>Journal of Bacteriology</i> , 2016 , 198, 1481-6	3.5	27
58	Type 1 Does the Two-Step: Type 1 Secretion Substrates with a Functional Periplasmic Intermediate. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	26
57	The microbiota regulates susceptibility to Fas-mediated acute hepatic injury. <i>Laboratory Investigation</i> , 2014 , 94, 938-49	5.9	26
56	Interspecies interactions induce exploratory motility in. <i>ELife</i> , 2019 , 8,	8.9	26
55	Altered Stool Microbiota of Infants with Cystic Fibrosis Shows a Reduction in Genera Associated with Immune Programming from Birth. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	25
54	An N-Terminal Retention Module Anchors the Giant Adhesin LapA of <i>Pseudomonas fluorescens</i> at the Cell Surface: a Novel Subfamily of Type I Secretion Systems. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	24
53	Iron homeostasis during cystic fibrosis pulmonary exacerbation. <i>Clinical and Translational Science</i> , 2012 , 5, 368-73	4.9	24

52	Ligand-Mediated Biofilm Formation via Enhanced Physical Interaction between a Diguanylate Cyclase and Its Receptor. <i>MBio</i> , 2018 , 9,	7.8	23
51	An Antipersister Strategy for Treatment of Chronic <i>Pseudomonas aeruginosa</i> Infections. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	23
50	Iron supplementation does not worsen respiratory health or alter the sputum microbiome in cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2014 , 13, 311-8	4.1	22
49	Flagellum-mediated biofilm defense mechanisms of <i>Pseudomonas aeruginosa</i> against host-derived lactoferrin. <i>Infection and Immunity</i> , 2009 , 77, 4559-66	3.7	22
48	Metabolic Modeling of Cystic Fibrosis Airway Communities Predicts Mechanisms of Pathogen Dominance. <i>MSystems</i> , 2019 , 4,	7.6	21
47	Tobramycin-Treated <i>Pseudomonas aeruginosa</i> PA14 Enhances <i>Streptococcus constellatus</i> 7155 Biofilm Formation in a Cystic Fibrosis Model System. <i>Journal of Bacteriology</i> , 2016 , 198, 237-47	3.5	20
46	Epoxide-mediated differential packaging of Cif and other virulence factors into outer membrane vesicles. <i>Journal of Bacteriology</i> , 2014 , 196, 3633-42	3.5	20
45	Role of Cyclic Di-GMP and Exopolysaccharide in Type IV Pilus Dynamics. <i>Journal of Bacteriology</i> , 2017 , 199,	3.5	19
44	Does the F508-CFTR mutation induce a proinflammatory response in human airway epithelial cells?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012 , 303, L509-18	5.8	19
43	Investigating the link between imipenem resistance and biofilm formation by <i>Pseudomonas aeruginosa</i> . <i>Microbial Ecology</i> , 2014 , 68, 111-20	4.4	18
42	Cyanide Toxicity to <i>Burkholderia cenocepacia</i> Is Modulated by Polymicrobial Communities and Environmental Factors. <i>Frontiers in Microbiology</i> , 2016 , 7, 725	5.7	18
41	Exogenous Alginate Protects <i>Staphylococcus aureus</i> from Killing by <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	17
40	Social Cooperativity of Bacteria during Reversible Surface Attachment in Young Biofilms: a Quantitative Comparison of <i>Pseudomonas aeruginosa</i> PA14 and PAO1. <i>MBio</i> , 2020 , 11,	7.8	16
39	Mannitol Does Not Enhance Tobramycin Killing of <i>Pseudomonas aeruginosa</i> in a Cystic Fibrosis Model System of Biofilm Formation. <i>PLoS ONE</i> , 2015 , 10, e0141192	3.7	16
38	From Input to Output: The Lap/c-di-GMP Biofilm Regulatory Circuit. <i>Annual Review of Microbiology</i> , 2020 , 74, 607-631	17.5	16
37	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
36	Ethanol Decreases <i>Pseudomonas aeruginosa</i> Flagellar Motility through the Regulation of Flagellar Stators. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	15
35	Requirements for <i>Pseudomonas aeruginosa</i> Type I-F CRISPR-Cas Adaptation Determined Using a Biofilm Enrichment Assay. <i>Journal of Bacteriology</i> , 2016 , 198, 3080-3090	3.5	15

34	Metabolites as Intercellular Signals for Regulation of Community-Level Traits105-129		15
33	Epoxide-mediated CifR repression of cif gene expression utilizes two binding sites in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2012 , 194, 5315-24	3.5	14
32	The Yin and Yang of Lung Infections in Cystic Fibrosis: a Model for Studying Polymicrobial Interactions. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	13
31	High-Speed "4D" Computational Microscopy of Bacterial Surface Motility. <i>ACS Nano</i> , 2017 , 11, 9340-9351	16.7	13
30	How <i>Pseudomonas aeruginosa</i> Regulates Surface Behaviors. <i>Microbe Magazine</i> , 2008 , 3, 65-71		12
29	Glycocluster Tetrahydroxamic Acids Exhibiting Unprecedented Inhibition of Biofilms. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 7722-7738	8.3	10
28	<i>Pseudomonas aeruginosa</i> Can Inhibit Growth of Streptococcal Species via Siderophore Production. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	10
27	Age and environmental exposures influence the fecal bacteriome of young children with cystic fibrosis. <i>Pediatric Pulmonology</i> , 2020 , 55, 1661-1670	3.5	10
26	MapA, a Second Large RTX Adhesin Conserved across the Pseudomonads, Contributes to Biofilm Formation by <i>Pseudomonas fluorescens</i> . <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	9
25	Uses c-di-GMP Phosphodiesterases RmCA and MorA To Regulate Biofilm Maintenance. <i>MBio</i> , 2021 , 12,	7.8	9
24	<i>Pseudomonas aeruginosa</i> PA14 Enhances the Efficacy of Norfloxacin against <i>Staphylococcus aureus</i> Newman Biofilms. <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	8
23	Interaction between the type 4 pili machinery and a diguanylate cyclase fine-tune c-di-GMP levels during early biofilm formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
22	Availability of Zinc Impacts Interactions between <i>Streptococcus sanguinis</i> and <i>Pseudomonas aeruginosa</i> in Coculture. <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	7
21	c-di-GMP and its Effects on Biofilm Formation and Dispersion: a <i>Pseudomonas Aeruginosa</i> Review 2015 , 301-317		7
20	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. <i>MBio</i> , 2021 , 12, e0176321	7.8	7
19	The Gut-Lung Axis in Cystic Fibrosis. <i>Journal of Bacteriology</i> , 2021 , 203, e0031121	3.5	7
18	Co-opting the Lap System of <i>Pseudomonas fluorescens</i> To Reversibly Customize Bacterial Cell Surfaces. <i>ACS Synthetic Biology</i> , 2018 , 7, 2612-2617	5.7	5
17	Lying in Wait: Modeling the Control of Bacterial Infections via Antibiotic-Induced Proviruses. <i>MSystems</i> , 2019 , 4,	7.6	4

16	Gross transcriptomic analysis of <i>Pseudomonas putida</i> for diagnosing environmental shifts. <i>Microbial Biotechnology</i> , 2020 , 13, 263-273	6.3	4
15	<i>Bordetella bronchiseptica</i> Diguanylate Cyclase BdcA Regulates Motility and Is Important for the Establishment of Respiratory Infection in Mice. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	3
14	One versus Many: Polymicrobial Communities and the Cystic Fibrosis Airway. <i>MBio</i> , 2021 , 12,	7.8	3
13	Architecture of cell-cell junctions in situ reveals a mechanism for bacterial biofilm inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
12	Force-Induced Changes of PiliY1 Drive Surface Sensing by <i>Pseudomonas aeruginosa</i> .. <i>MBio</i> , 2022 , e0375428	4.8	2
11	Mild Cystic Fibrosis Lung Disease Is Associated with Bacterial Community Stability. <i>Microbiology Spectrum</i> , 2021 , 9, e0002921	8.9	2
10	Rapid expansion and extinction of antibiotic resistance mutations during treatment of acute bacterial respiratory infections.. <i>Nature Communications</i> , 2022 , 13, 1231	17.4	2
9	Biofilm Maintenance as an Active Process: Evidence that Biofilms Work Hard to Stay Put.. <i>Journal of Bacteriology</i> , 2022 , e0058721	3.5	2
8	Environmental Control of Cyclic Di-GMP Signaling in <i>Pseudomonas fluorescens</i> : from Signal to Output 2014 , 282-290		1
7	The Diguanylate Cyclase YfiN of Regulates Biofilm Maintenance in Response to Peroxide. <i>Journal of Bacteriology</i> , 2021 , JB0039621	3.5	1
6	Metabolic Modeling to Interrogate Microbial Disease: A Tale for Experimentalists. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 634479	5.6	1
5	Differential Surface Competition and Biofilm Invasion Strategies of <i>Pseudomonas aeruginosa</i> PA14 and PAO1. <i>Journal of Bacteriology</i> , 2021 , 203, e0026521	3.5	0
4	Nonmotile Subpopulations of Repress Flagellar Motility in Motile Cells through a Type IV Pilus- and Pel-Dependent Mechanism.. <i>Journal of Bacteriology</i> , 2022 , e0052821	3.5	0
3	<i>Pseudomonas aeruginosa</i> toxin reduces MHC class I antigen presentation. <i>FASEB Journal</i> , 2008 , 22, 860.9.9	9.9	0
2	<i>Pseudomonas aeruginosa</i> toxin (Cif) induces lysosomal degradation of CFTR. <i>FASEB Journal</i> , 2009 , 23, 998.17	0.9	0
1	A <i>Pseudomonas aeruginosa</i> toxin (Cif) reduces plasma membrane CFTR by inactivating the deubiquitinating enzyme USP10. <i>FASEB Journal</i> , 2010 , 24, 610.14	0.9	0