Jeremy S Webb

List of Publications by Citations

74 papers	6,313 citations	35 h-index	79 g-index
79 ext. papers	7,168 ext. citations	5.1 avg, IF	5.43 L-index

#	Paper	IF	Citations
74	A characterization of DNA release in Pseudomonas aeruginosa cultures and biofilms. *Molecular Microbiology*, **2006**, 59, 1114-28	4.1	719
73	Involvement of nitric oxide in biofilm dispersal of Pseudomonas aeruginosa. *Journal of Bacteriology*, **2006**, 188, 7344-53	3.5	576
72	Enhanced biofilm formation and increased resistance to antimicrobial agents and bacterial invasion are caused by synergistic interactions in multispecies biofilms. *Applied and Environmental Microbiology*, **2006**, 72, 3916-23	4.8	470
71	Cell death in Pseudomonas aeruginosa biofilm development. *Journal of Bacteriology*, **2003**, 185, 4585-92	3.5	457
70	Nitric oxide signaling in Pseudomonas aeruginosa biofilms mediates phosphodiesterase activity, decreased cyclic di-GMP levels, and enhanced dispersal. *Journal of Bacteriology*, **2009**, 191, 7333-42	3.5	364
69	Bacterial biofilms: prokaryotic adventures in multicellularity. *Current Opinion in Microbiology*, **2003**, 6, 578-85	7.9	219
68	The biofilm life cycle and virulence of Pseudomonas aeruginosa are dependent on a filamentous prophage. *ISME Journal*, **2009**, 3, 271-82	11.9	216
67	Competitive interactions in mixed-species biofilms containing the marine bacterium Pseudoalteromonas tunicata. *Applied and Environmental Microbiology*, **2005**, 71, 1729-36	4.8	208
66	Bacteriophage and phenotypic variation in Pseudomonas aeruginosa biofilm development. *Journal of Bacteriology*, **2004**, 186, 8066-73	3.5	205
65	Nitric oxide-mediated dispersal in single- and multi-species biofilms of clinically and industrially relevant microorganisms. *Microbial Biotechnology*, **2009**, 2, 370-8	6.3	200
64	Marine biofilm bacteria evade eukaryotic predation by targeted chemical defense. *PLoS ONE*, **2008**, 3, e2744	3.7	149
63	Pseudomonas aeruginosa PAO1 preferentially grows as aggregates in liquid batch cultures and disperses upon starvation. *PLoS ONE*, **2009**, 4, e5513	3.7	135
62	Fungal colonization and biodeterioration of plasticized polyvinyl chloride. *Applied and Environmental Microbiology*, **2000**, 66, 3194-200	4.8	125
61	The role of polyhydroxyalkanoate biosynthesis by Pseudomonas aeruginosa in rhamnolipid and alginate production as well as stress tolerance and biofilm formation. *Microbiology (United Kingdom)*, **2004**, 150, 3405-13	2.9	122
60	Low densities of epiphytic bacteria from the marine alga Ulva australis inhibit settlement of fouling organisms. *Applied and Environmental Microbiology*, **2007**, 73, 7844-52	4.8	117
59	Cephalosporin-3¥diazeniumdiolates: targeted NO-donor prodrugs for dispersing bacterial biofilms. *Angewandte Chemie - International Edition*, **2012**, 51, 9057-60	16.4	116
58	Biofilm development and cell death in the marine bacterium Pseudoalteromonas tunicata. *Applied and Environmental Microbiology*, **2004**, 70, 3232-8	4.8	110

57	Low-Dose Nitric Oxide as Targeted Anti-biofilm Adjunctive Therapy to Treat Chronic Pseudomonas aeruginosa Infection in Cystic Fibrosis. *Molecular Therapy*, **2017**, 25, 2104-2116	11.7	106
56	Hydrogen peroxide linked to lysine oxidase activity facilitates biofilm differentiation and dispersal in several gram-negative bacteria. *Journal of Bacteriology*, **2008**, 190, 5493-501	3.5	105
55	Role of mutation in Pseudomonas aeruginosa biofilm development. *PLoS ONE*, **2009**, 4, e6289	3.7	88
54	Microbial colonization and competition on the marine alga Ulva australis. *Applied and Environmental Microbiology*, **2006**, 72, 5547-55	4.8	88
53	Biofilm differentiation and dispersal in mucoid Pseudomonas aeruginosa isolates from patients with cystic fibrosis. *Microbiology (United Kingdom)*, **2007**, 153, 3264-3274	2.9	85
52	Proteomic, microarray, and signature-tagged mutagenesis analyses of anaerobic Pseudomonas aeruginosa at pH 6.5, likely representing chronic, late-stage cystic fibrosis airway conditions. *Journal of Bacteriology*, **2008**, 190, 2739-58	3.5	79
51	Enhanced benzaldehyde tolerance in Zymomonas mobilis biofilms and the potential of biofilm applications in fine-chemical production. *Applied and Environmental Microbiology*, **2006**, 72, 1639-44	4.8	77
50	Pseudomonas aeruginosa infection in cystic fibrosis: pathophysiological mechanisms and therapeutic approaches. *Expert Review of Respiratory Medicine*, **2016**, 10, 685-97	3.8	74
49	Ecological advantages of autolysis during the development and dispersal of Pseudoalteromonas tunicata biofilms. *Applied and Environmental Microbiology*, **2006**, 72, 5414-20	4.8	69
48	The alternative sigma factor RpoN regulates the quorum sensing gene rhlI in Pseudomonas aeruginosa. *FEMS Microbiology Letters*, **2003**, 220, 187-95	2.9	69
47	Expression of the psl operon in Pseudomonas aeruginosa PAO1 biofilms: PslA performs an essential function in biofilm formation. *Applied and Environmental Microbiology*, **2005**, 71, 4407-13	4.8	67
46	Strain-specific parallel evolution drives short-term diversification during Pseudomonas aeruginosa biofilm formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E1419-27	11.5	61
45	Plasticizers increase adhesion of the deteriogenic fungus Aureobasidium pullulans to polyvinyl chloride. *Applied and Environmental Microbiology*, **1999**, 65, 3575-81	4.8	61
44	Current and future therapies for Pseudomonas aeruginosa infection in patients with cystic fibrosis. *FEMS Microbiology Letters*, **2017**, 364,	2.9	60
43	An improved bind-n-seq strategy to determine protein-DNA interactions validated using the bacterial transcriptional regulator YipR. *BMC Microbiology*, **2020**, 20, 1	4.5	46
42	Transcriptome analyses and biofilm-forming characteristics of a clonal Pseudomonas aeruginosa from the cystic fibrosis lung. *Journal of Medical Microbiology*, **2008**, 57, 1454-1465	3.2	43
41	Dynamic modelling of cell death during biofilm development. *Journal of Theoretical Biology*, **2012**, 295, 23-36	2.3	42
40	Gene expression characteristics of a cystic fibrosis epidemic strain of Pseudomonas aeruginosa during biofilm and planktonic growth. *FEMS Microbiology Letters*, **2009**, 292, 107-14	2.9	37

39	Ultrasound-mediated therapies for the treatment of biofilms in chronic wounds: a review of present knowledge. *Microbial Biotechnology*, **2020**, 13, 613-628	6.3	34
38	Green fluorescent protein as a novel indicator of antimicrobial susceptibility in Aureobasidium pullulans. *Applied and Environmental Microbiology*, **2001**, 67, 5614-20	4.8	33
37	Pronounced metabolic changes in adaptation to biofilm growth by Streptococcus pneumoniae. *PLoS ONE*, **2014**, 9, e107015	3.7	33
36	Removal of Dental Biofilms with an Ultrasonically Activated Water Stream. *Journal of Dental Research*, **2015**, 94, 1303-9	8.1	32
35	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. *Biofilm*, **2020**, 2, 100010	5.9	31
34	Intracellular residency of Staphylococcus aureus within mast cells in nasal polyps: A novel observation. *Journal of Allergy and Clinical Immunology*, **2015**, 135, 1648-51	11.5	28
33	A mannose-sensitive haemagglutinin (MSHA)-like pilus promotes attachment of Pseudoalteromonas tunicata cells to the surface of the green alga Ulva australis. *Microbiology (United Kingdom)*, **2006**, 152, 2875-2883	2.9	27
32	Biofilm dispersal cells of a cystic fibrosis Pseudomonas aeruginosa isolate exhibit variability in functional traits likely to contribute to persistent infection. *FEMS Immunology and Medical Microbiology*, **2012**, 66, 251-64		23
31	Risk of red queen dynamics in pneumococcal vaccine strategy. *Trends in Microbiology*, **2011**, 19, 377-81	12.4	23
30	Correlation of ultrasound bladder vibrometry assessment of bladder compliance with urodynamic study results. *PLoS ONE*, **2017**, 12, e0179598	3.7	20
29	Low Concentrations of Nitric Oxide Modulate Streptococcus pneumoniae Biofilm Metabolism and Antibiotic Tolerance. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 2456-66	5.9	20
28	Cephalosporin nitric oxide-donor prodrug DEA-C3D disperses biofilms formed by clinical cystic fibrosis isolates of Pseudomonas aeruginosa. *Journal of Antimicrobial Chemotherapy*, **2020**, 75, 117-125	5.1	20
27	Rhizosphere Bacterial Communities Differ According to Fertilizer Regimes and Cabbage (var. L.) Harvest Time, but Not Aphid Herbivory. *Frontiers in Microbiology*, **2018**, 9, 1620	5.7	19
26	Ability of Pseudoalteromonas tunicata to colonize natural biofilms and its effect on microbial community structure. *FEMS Microbiology Ecology*, **2010**, 73, 450-7	4.3	17
25	Can Simpson\¥ paradox explain co-operation in Pseudomonas aeruginosa biofilms?. *FEMS Immunology and Medical Microbiology*, **2012**, 65, 226-35		16
24	Optimization of nitric oxide donors for investigating biofilm dispersal response in Pseudomonas aeruginosa clinical isolates. *Applied Microbiology and Biotechnology*, **2020**, 104, 8859-8869	5.7	16
23	Cephalosporin-3¥Diazeniumdiolate NO Donor Prodrug PYRRO-C3D Enhances Azithromycin Susceptibility of Nontypeable Haemophilus influenzae Biofilms. *Antimicrobial Agents and Chemotherapy*, **2017**, 61,	5.9	14
22	Cephalosporin-NO-donor prodrug PYRRO-C3D shows ß-lactam-mediated activity against Streptococcus pneumoniae biofilms. *Nitric Oxide - Biology and Chemistry*, **2017**, 65, 43-49	5	14

21	Dimerisation induced formation of the active site and the identification of three metal sites in EAL-phosphodiesterases. *Scientific Reports*, **2017**, 7, 42166	4.9	14
20	Differential impact on motility and biofilm dispersal of closely related phosphodiesterases in Pseudomonas aeruginosa. *Scientific Reports*, **2020**, 10, 6232	4.9	12
19	An integrated model system to gain mechanistic insights into biofilm-associated antimicrobial resistance in Pseudomonas aeruginosa MPAO1. *Npj Biofilms and Microbiomes*, **2020**, 6, 46	8.2	11
18	Prevention of Propionibacterium acnes biofilm formation in prosthetic infections in vitro. *Journal of Shoulder and Elbow Surgery*, **2017**, 26, 553-563	4.3	10
17	Economic significance of biofilms: a multidisciplinary and cross-sectoral challenge. *Npj Biofilms and Microbiomes*, **2022**, 8,	8.2	10
16	Cephalosporin-3?-diazeniumdiolates: Targeted NO-Donor Prodrugs for Dispersing Bacterial Biofilms. *Angewandte Chemie*, **2012**, 124, 9191-9194	3.6	9
15	Pseudomonas aeruginosa: A Model for Biofilm Formation215-253		8
14	Influence of surfaces on sulphidogenic bacteria. *Biofouling*, **1996**, 10, 95-109	3.3	7
13	Discovery of Cephalosporin-3∀Diazeniumdiolates That Show Dual Antibacterial and Antibiofilm Effects against Clinical Cystic Fibrosis Isolates and Efficacy in a Murine Respiratory Infection Model. *ACS Infectious Diseases*, **2020**, 6, 1460-1479	5.5	6
12	Down-regulation of DNA mismatch repair enhances initiation and growth of neuroblastoma and brain tumour multicellular spheroids. *PLoS ONE*, **2011**, 6, e28123	3.7	6
11	Parallel Evolution in Streptococcus pneumoniae Biofilms. *Genome Biology and Evolution*, **2016**, 8, 1316-26	3.9	6
10	Comparative Genomics of Carriage and Disease Isolates of Streptococcus pneumoniae Serotype 22F Reveals Lineage-Specific Divergence and Niche Adaptation. *Genome Biology and Evolution*, **2016**, 8, 1243-51	3.9	5
9	Acoustoelasticity Analysis of Transient Waves for Non-Invasive In Vivo Assessment of Urinary Bladder. *Scientific Reports*, **2019**, 9, 2441	4.9	4
8	A novel application of Gini coefficient for the quantitative measurement of bacterial aggregation. *Scientific Reports*, **2019**, 9, 19002	4.9	4
7	Evaluation of a Bioengineered Honey and Its Synthetic Equivalent as Novel Biofilm-Targeted Topical Therapies in Chronic Rhinosinusitis. *American Journal of Rhinology and Allergy*, **2020**, 34, 80-86	2.4	4
6	Pulsed vibro-acoustic method for assessment of osteoporosis & osteopenia: A feasibility study on human subjects. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 97, 187-197	4.1	3
5	Microbial epidemiology and carriage studies for the evaluation of vaccines. *Journal of Medical Microbiology*, **2019**, 68, 1408-1418	3.2	3
4	An integrated model system to gain mechanistic insights into biofilm formation and antimicrobial resistance development in Pseudomonas aeruginosa MPAO1		3

3	Diagnosis and treatment of biofilm infections in children. *Current Opinion in Infectious Diseases*, **2019**, 32, 505-509	5.4	1
2	Phylogenetic Analysis with Prediction of Cofactor or Ligand Binding for Pseudomonas aeruginosa PAS and Cache Domains.. *Microbiology Spectrum*, **2021**, 9, e0102621	8.9	0
1	Structure and Regulation of EAL Domain Proteins **2020**, 27-48		