

Sebastian Molin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6211041/publications.pdf>

Version: 2024-02-01

174
papers

26,335
citations

7069

78
h-index

6630

156
g-index

188
all docs

188
docs citations

188
times ranked

19572
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of biofilm structures by the novel computer program comstat. Microbiology (United Tj ETQq1 1 0.784314 rgBT/Overlbc	0.7	1,899
2	Attenuation of <i>Pseudomonas aeruginosa</i> virulence by quorum sensing inhibitors. EMBO Journal, 2003, 22, 3803-3815.	3.5	1,205
3	Inhibition of quorum sensing in <i>Pseudomonas aeruginosa</i> biofilm bacteria by a halogenated furanone compound. Microbiology (United Kingdom), 2002, 148, 87-102.	0.7	919
4	New Unstable Variants of Green Fluorescent Protein for Studies of Transient Gene Expression in Bacteria. Applied and Environmental Microbiology, 1998, 64, 2240-2246.	1.4	883
5	Biofilm formation by <i>Pseudomonas aeruginosa</i> wild type, flagella and type IV pili mutants. Molecular Microbiology, 2003, 48, 1511-1524.	1.2	880
6	The clinical impact of bacterial biofilms. International Journal of Oral Science, 2011, 3, 55-65.	3.6	663
7	Adaptation of <i>Pseudomonas aeruginosa</i> to the cystic fibrosis airway: an evolutionary perspective. Nature Reviews Microbiology, 2012, 10, 841-851.	13.6	635
8	Alginate Overproduction Affects <i>Pseudomonas aeruginosa</i> Biofilm Structure and Function. Journal of Bacteriology, 2001, 183, 5395-5401.	1.0	584
9	Gene transfer occurs with enhanced efficiency in biofilms and induces enhanced stabilisation of the biofilm structure. Current Opinion in Biotechnology, 2003, 14, 255-261.	3.3	563
10	Convergent evolution and adaptation of <i>Pseudomonas aeruginosa</i> within patients with cystic fibrosis. Nature Genetics, 2015, 47, 57-64.	9.4	516
11	Involvement of bacterial migration in the development of complex multicellular structures in <i>Pseudomonas aeruginosa</i> biofilms. Molecular Microbiology, 2003, 50, 61-68.	1.2	463
12	<i>Pseudomonas aeruginosa</i> tolerance to tobramycin, hydrogen peroxide and polymorphonuclear leukocytes is quorum-sensing dependent. Microbiology (United Kingdom), 2005, 151, 373-383.	0.7	451
13	Applying insights from biofilm biology to drug development " can a new approach be developed?. Nature Reviews Drug Discovery, 2013, 12, 791-808.	21.5	421
14	Global impact of mature biofilm lifestyle on <i>Escherichia coli</i> K-12 gene expression. Molecular Microbiology, 2003, 51, 659-674.	1.2	420
15	The cep quorum-sensing system of <i>Burkholderia cepacia</i> H111 controls biofilm formation and swarming motility. Microbiology (United Kingdom), 2001, 147, 2517-2528.	0.7	414
16	Multiple sensors control reciprocal expression of <i>Pseudomonas aeruginosa</i> regulatory RNA and virulence genes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 171-176.	3.3	401
17	N-Acylhomoserine-lactone-mediated communication between <i>Pseudomonas aeruginosa</i> and <i>Burkholderia cepacia</i> in mixed biofilms. Microbiology (United Kingdom), 2001, 147, 3249-3262.	0.7	358
18	Involvement of N-acyl-homoserine lactone autoinducers in controlling the multicellular behaviour of <i>Serratia liquefaciens</i> . Molecular Microbiology, 1996, 20, 127-136.	1.2	344

#	ARTICLE	IF	CITATIONS
19	Evolutionary dynamics of bacteria in a human host environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7481-7486.	3.3	327
20	Stratified Growth in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6188-6196.	1.4	322
21	In Situ Gene Expression in Mixed-Culture Biofilms: Evidence of Metabolic Interactions between Community Members. <i>Applied and Environmental Microbiology</i> , 1998, 64, 721-732.	1.4	307
22	Development and maturation of <i>Escherichia coli</i> K-12 biofilms. <i>Molecular Microbiology</i> , 2003, 48, 933-946.	1.2	303
23	Development and Dynamics of <i>Pseudomonas</i> sp. Biofilms. <i>Journal of Bacteriology</i> , 2000, 182, 6482-6489.	1.0	288
24	Establishment of New Genetic Traits in a Microbial Biofilm Community. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2247-2255.	1.4	284
25	Distribution of Bacterial Growth Activity in Flow-Chamber Biofilms. <i>Applied and Environmental Microbiology</i> , 1999, 65, 4108-4117.	1.4	267
26	Methods for detecting acylated homoserine lactones produced by Gram-negative bacteria and their application in studies of AHL-production kinetics. <i>Journal of Microbiological Methods</i> , 2001, 44, 239-251.	0.7	266
27	Statistical Analysis of <i>Pseudomonas aeruginosa</i> Biofilm Development: Impact of Mutations in Genes Involved in Twitching Motility, Cell-to-Cell Signaling, and Stationary-Phase Sigma Factor Expression. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2008-2017.	1.4	259
28	[2] Molecular tools for study of biofilm physiology. <i>Methods in Enzymology</i> , 1999, 310, 20-42.	0.4	246
29	Characterization of starvation-induced dispersion in <i>Pseudomonas putida</i> biofilms. <i>Environmental Microbiology</i> , 2005, 7, 894-904.	1.8	233
30	Experimental reproducibility in flow-chamber biofilms. <i>Microbiology (United Kingdom)</i> , 2000, 146, 2409-2415.	0.7	224
31	Partitioning of plasmid R1 in <i>Escherichia coli</i> . <i>Plasmid</i> , 1980, 4, 215-227.	0.4	221
32	Identification of a Novel Group of Bacteria in Sludge from a Deteriorated Biological Phosphorus Removal Reactor. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1251-1258.	1.4	220
33	Molecular Epidemiology and Dynamics of <i>Pseudomonas aeruginosa</i> Populations in Lungs of Cystic Fibrosis Patients. <i>Infection and Immunity</i> , 2007, 75, 2214-2224.	1.0	220
34	<i>Pseudomonas aeruginosa</i> adaptation and evolution in patients with cystic fibrosis. <i>Nature Reviews Microbiology</i> , 2021, 19, 331-342.	13.6	213
35	Volatile Metabolites from Actinomycetes. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 2615-2621.	2.4	201
36	In Situ Growth Rates and Biofilm Development of <i>Pseudomonas aeruginosa</i> Populations in Chronic Lung Infections. <i>Journal of Bacteriology</i> , 2008, 190, 2767-2776.	1.0	201

#	ARTICLE	IF	CITATIONS
37	Low-copy-number plasmid-cloning vectors amplifiable by derepression of an inserted foreign promoter. <i>Gene</i> , 1984, 28, 45-54.	1.0	200
38	Long-Term Succession of Structure and Diversity of a Biofilm Formed in a Model Drinking Water Distribution System. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6899-6907.	1.4	199
39	Genome Analysis of a Transmissible Lineage of <i>Pseudomonas aeruginosa</i> Reveals Pathoadaptive Mutations and Distinct Evolutionary Paths of Hypermutators. <i>PLoS Genetics</i> , 2013, 9, e1003741.	1.5	191
40	Biased 16S rDNA PCR amplification caused by interference from DNA flanking the template region. <i>FEMS Microbiology Ecology</i> , 1998, 26, 141-149.	1.3	190
41	In situ identification of polyphosphate- and polyhydroxyalkanoate-accumulating traits for microbial populations in a biological phosphorus removal process. <i>Environmental Microbiology</i> , 2001, 3, 110-122.	1.8	190
42	Surface Motility of <i>Serratia liquefaciens</i> MG1. <i>Journal of Bacteriology</i> , 1999, 181, 1703-1712.	1.0	188
43	Within-Host Evolution of <i>Pseudomonas aeruginosa</i> Reveals Adaptation toward Iron Acquisition from Hemoglobin. <i>MBio</i> , 2014, 5, e00966-14.	1.8	186
44	Control of replication of bacterial plasmids: Genetics, molecular biology, and physiology of the plasmid R1 system. <i>Plasmid</i> , 1984, 12, 71-90.	0.4	185
45	Plasmids with temperature-dependent copy number for amplification of cloned genes and their products. <i>Gene</i> , 1979, 6, 91-106.	1.0	184
46	Evolution and diversification of <i>Pseudomonas aeruginosa</i> in the paranasal sinuses of cystic fibrosis children have implications for chronic lung infection. <i>ISME Journal</i> , 2012, 6, 31-45.	4.4	184
47	Assessment of GFP fluorescence in cells of <i>Streptococcus gordonii</i> under conditions of low pH and low oxygen concentration. <i>Microbiology (United Kingdom)</i> , 2001, 147, 1383-1391.	0.7	182
48	In Vitro Biofilm Formation of Commensal and Pathogenic <i>Escherichia coli</i> Strains: Impact of Environmental and Genetic Factors. <i>Journal of Bacteriology</i> , 2006, 188, 3572-3581.	1.0	182
49	Role of commensal relationships on the spatial structure of a surface-attached microbial consortium. <i>Environmental Microbiology</i> , 2000, 2, 59-68.	1.8	175
50	Bacterial Activity in the Rhizosphere Analyzed at the Single-Cell Level by Monitoring Ribosome Contents and Synthesis Rates. <i>Applied and Environmental Microbiology</i> , 2000, 66, 801-809.	1.4	174
51	Differentiation and Distribution of Colistin- and Sodium Dodecyl Sulfate-Tolerant Cells in <i>Pseudomonas aeruginosa</i> Biofilms. <i>Journal of Bacteriology</i> , 2007, 189, 28-37.	1.0	170
52	Effect of Bacterial Distribution and Activity on Conjugal Gene Transfer on the Phylloplane of the Bush Bean (<i>Phaseolus vulgaris</i>). <i>Applied and Environmental Microbiology</i> , 1998, 64, 1902-1909.	1.4	168
53	Novel Mouse Model of Chronic <i>Pseudomonas aeruginosa</i> Lung Infection Mimicking Cystic Fibrosis. <i>Infection and Immunity</i> , 2005, 73, 2504-2514.	1.0	158
54	Contribution of alginate and levan production to biofilm formation by <i>Pseudomonas syringae</i> . <i>Microbiology (United Kingdom)</i> , 2006, 152, 2909-2918.	0.7	158

#	ARTICLE	IF	CITATIONS
55	Detection of N-acylhomoserine lactones in lung tissues of mice infected with <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 2000, 146, 2481-2493.	0.7	156
56	Long-term social dynamics drive loss of function in pathogenic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10756-10761.	3.3	155
57	Alginate production affects <i>Pseudomonas aeruginosa</i> biofilm development and architecture, but is not essential for biofilm formation. <i>Journal of Medical Microbiology</i> , 2004, 53, 679-690.	0.7	154
58	Antibiotic resistance: turning evolutionary principles into clinical reality. <i>FEMS Microbiology Reviews</i> , 2020, 44, 171-188.	3.9	154
59	Environmental Heterogeneity Drives Within-Host Diversification and Evolution of <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2014, 5, e01592-14.	1.8	153
60	Plasmid transfer in the animal intestine and other dynamic bacterial populations: the role of community structure and environment. <i>Microbiology (United Kingdom)</i> , 1999, 145, 2615-2622.	0.7	149
61	Coexistence and Within-Host Evolution of Diversified Lineages of Hypermutable <i>Pseudomonas aeruginosa</i> in Long-term Cystic Fibrosis Infections. <i>PLoS Genetics</i> , 2014, 10, e1004651.	1.5	148
62	Identification of Bacteria in Biofilm and Bulk Water Samples from a Nonchlorinated Model Drinking Water Distribution System: Detection of a Large Nitrite-Oxidizing Population Associated with <i>Nitrospira</i> spp. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8611-8617.	1.4	145
63	Quorum-sensing-directed protein expression in <i>Serratia proteamaculans</i> B5a. <i>Microbiology (United Kingdom)</i> 143:143-145 (2007)	0.7	143
64	Antigen 43 facilitates formation of multispecies biofilms. <i>Environmental Microbiology</i> , 2000, 2, 695-702.	1.8	142
65	Genetic analysis of functions involved in the late stages of biofilm development in <i>Burkholderia cepacia</i> H111. <i>Molecular Microbiology</i> , 2002, 46, 411-426.	1.2	141
66	Surface motility in <i>Pseudomonas</i> sp. DSS73 is required for efficient biological containment of the root-pathogenic microfungi <i>Rhizoctonia solani</i> and <i>Pythium ultimum</i> . <i>Microbiology (United Kingdom)</i> , 2003, 149, 37-46.	0.7	124
67	Synergistic Effects in Mixed <i>Escherichia coli</i> Biofilms: Conjugative Plasmid Transfer Drives Biofilm Expansion. <i>Journal of Bacteriology</i> , 2006, 188, 3582-3588.	1.0	124
68	Early adaptive developments of <i>Pseudomonas aeruginosa</i> after the transition from life in the environment to persistent colonization in the airways of human cystic fibrosis hosts. <i>Environmental Microbiology</i> , 2010, 12, 1643-1658.	1.8	124
69	Partitioning of plasmid R1. <i>Journal of Molecular Biology</i> , 1986, 190, 269-279.	2.0	118
70	Control of Plasmid R1 Replication: Functions Involved in Replication, Copy Number Control, Incompatibility, and Switch-off of Replication. <i>Journal of Bacteriology</i> , 1980, 141, 111-120.	1.0	113
71	The evolution of antimicrobial peptide resistance in <i>Pseudomonas aeruginosa</i> is shaped by strong epistatic interactions. <i>Nature Communications</i> , 2016, 7, 13002.	5.8	106
72	Cloning, Sequencing, and Phenotypic Characterization of the <i>rpoS</i> Gene from <i>Pseudomonas putida</i> KT2440. <i>Journal of Bacteriology</i> , 1998, 180, 3421-3431.	1.0	101

#	ARTICLE	IF	CITATIONS
73	The sites of action of the two copy number control functions of plasmid R1. <i>Molecular Genetics and Genomics</i> , 1982, 187, 486-493.	2.4	99
74	Induction of phospholipase- and flagellar synthesis in <i>Serratia liquefaciens</i> is controlled by expression of the flagellar master operon <i>flhD</i> . <i>Molecular Microbiology</i> , 1995, 15, 445-454.	1.2	96
75	Production of Acylated Homoserine Lactones by Psychrotrophic Members of the <i>Enterobacteriaceae</i> Isolated from Foods. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3458-3463.	1.4	91
76	Two Separate Regulatory Systems Participate in Control of Swarming Motility of <i>Serratia liquefaciens</i> MG1. <i>Journal of Bacteriology</i> , 1998, 180, 742-745.	1.0	91
77	Lipopeptide Production in <i>Pseudomonas</i> sp. Strain DSS73 Is Regulated by Components of Sugar Beet Seed Exudate via the Gac Two-Component Regulatory System. <i>Applied and Environmental Microbiology</i> , 2002, 68, 4509-4516.	1.4	89
78	Use of green fluorescent protein as a marker for ecological studies of activated sludge communities. <i>FEMS Microbiology Letters</i> , 2006, 149, 77-83.	0.7	89
79	Evolutionary highways to persistent bacterial infection. <i>Nature Communications</i> , 2019, 10, 629.	5.8	89
80	Deletion and acquisition of genomic content during early stage adaptation of <i>Pseudomonas aeruginosa</i> to a human host environment. <i>Environmental Microbiology</i> , 2012, 14, 2200-2211.	1.8	88
81	High-resolution in situ transcriptomics of <i>Pseudomonas aeruginosa</i> unveils genotype independent patho-phenotypes in cystic fibrosis lungs. <i>Nature Communications</i> , 2018, 9, 3459.	5.8	88
82	Application of molecular tools for in situ monitoring of bacterial growth activity. <i>Environmental Microbiology</i> , 1999, 1, 383-391.	1.8	85
83	Isolation and characterization of new copy mutants of plasmid R1, and identification of a polypeptide involved in copy number control. <i>Molecular Genetics and Genomics</i> , 1981, 181, 123-130.	2.4	81
84	Filamentous bacteriophages are associated with chronic <i>Pseudomonas</i> lung infections and antibiotic resistance in cystic fibrosis. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	80
85	Vertical dye-buoyant density gradients for rapid analysis and preparation of plasmid DNA. <i>Analytical Biochemistry</i> , 1981, 118, 191-193.	1.1	77
86	Loss of Social Behaviours in Populations of <i>Pseudomonas aeruginosa</i> Infecting Lungs of Patients with Cystic Fibrosis. <i>PLoS ONE</i> , 2014, 9, e83124.	1.1	77
87	The Behavior of Bacteria Designed for Biodegradation. <i>Nature Biotechnology</i> , 1994, 12, 1349-1356.	9.4	76
88	Partitioning of plasmid R1 in <i>Escherichia coli</i> . <i>Plasmid</i> , 1980, 4, 332-349.	0.4	75
89	Antibiotic combination therapy can select for broad-spectrum multidrug resistance in <i>Pseudomonas aeruginosa</i> . <i>International Journal of Antimicrobial Agents</i> , 2016, 47, 48-55.	1.1	75
90	Replication control functions of plasmid R1 act as inhibitors of expression of a gene required for replication. <i>Molecular Genetics and Genomics</i> , 1981, 184, 56-61.	2.4	70

#	ARTICLE	IF	CITATIONS
91	Activity of toluene-degrading <i>Pseudomonas putida</i> in the early growth phase of a biofilm for waste gas treatment. , 1997, 54, 131-141.		68
92	Non-genetic population heterogeneity studied by in situ polymerase chain reaction. <i>Molecular Microbiology</i> , 1998, 27, 1099-1105.	1.2	68
93	Fast Selective Detection of Pyocyanin Using Cyclic Voltammetry. <i>Sensors</i> , 2016, 16, 408.	2.1	67
94	Control of Ribosome Synthesis in <i>Escherichia coli</i> : Analysis of an Energy Source Shift-Down. <i>Journal of Bacteriology</i> , 1977, 131, 7-17.	1.0	63
95	The nucleotide sequence of the replication control region of the resistance plasmid R1drd-19. <i>Molecular Genetics and Genomics</i> , 1981, 181, 116-122.	2.4	62
96	Within-host microevolution of <i>Pseudomonas aeruginosa</i> in Italian cystic fibrosis patients. <i>BMC Microbiology</i> , 2015, 15, 218.	1.3	62
97	Combined use of different Gfp reporters for monitoring single-cell activities of a genetically modified PCB degrader in the rhizosphere of alfalfa. <i>FEMS Microbiology Ecology</i> , 2004, 48, 139-148.	1.3	61
98	Changes in rRNA Levels during Stress Invalidates Results from mRNA Blotting: Fluorescence In Situ rRNA Hybridization Permits Renormalization for Estimation of Cellular mRNA Levels. <i>Journal of Bacteriology</i> , 2001, 183, 4747-4751.	1.0	59
99	Convergent Metabolic Specialization through Distinct Evolutionary Paths in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2018, 9, .	1.8	59
100	Control of Protein Synthesis in <i>Escherichia coli</i> : Analysis of an Energy Source Shift-Down. <i>Journal of Bacteriology</i> , 1977, 131, 18-29.	1.0	59
101	Copy mutants of plasmid R1: Effects of base pair substitutions in the <i>copA</i> gene on the replication control system. <i>Molecular Genetics and Genomics</i> , 1984, 194, 286-292.	2.4	58
102	Estimation of Growth Rates of <i>Escherichia coli</i> BJ4 in Streptomycin-Treated and Previously Germfree Mice by In Situ rRNA Hybridization. <i>Vaccine Journal</i> , 1999, 6, 434-436.	2.6	58
103	Mutations causing low level antibiotic resistance ensure bacterial survival in antibiotic-treated hosts. <i>Scientific Reports</i> , 2018, 8, 12512.	1.6	56
104	Electrochemical Detection of Pyocyanin as a Biomarker for <i>Pseudomonas aeruginosa</i> : A Focused Review. <i>Sensors</i> , 2020, 20, 5218.	2.1	54
105	Evolution and Adaptation in <i>Pseudomonas aeruginosa</i> Biofilms Driven by Mismatch Repair System-Deficient Mutators. <i>PLoS ONE</i> , 2011, 6, e27842.	1.1	53
106	Construction of an Efficient Biologically Contained <i>Pseudomonas putida</i> Strain and Its Survival in Outdoor Assays. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2072-2078.	1.4	53
107	Bacterial persisters in long-term infection: Emergence and fitness in a complex host environment. <i>PLoS Pathogens</i> , 2020, 16, e1009112.	2.1	53
108	Inhibition of <i>Escherichia coli</i> precursor-16S rRNA processing by mouse intestinal contents. <i>Environmental Microbiology</i> , 1999, 1, 23-32.	1.8	50

#	ARTICLE	IF	CITATIONS
109	Meningococcal biofilm formation: structure, development and phenotypes in a standardized continuous flow system. <i>Molecular Microbiology</i> , 2006, 62, 1292-1309.	1.2	49
110	Electrochemical sensing of biomarker for diagnostics of bacteria-specific infections. <i>Nanomedicine</i> , 2016, 11, 2185-2195.	1.7	49
111	Effects of stress treatments on the detection of <i>Salmonella typhimurium</i> by in situ hybridization. <i>International Journal of Food Microbiology</i> , 1997, 35, 251-258.	2.1	47
112	<i>Curvularia</i> Haloperoxidase: Antimicrobial Activity and Potential Application as a Surface Disinfectant. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4611-4617.	1.4	44
113	Paper-based sensors for rapid detection of virulence factor produced by <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2018, 13, e0194157.	1.1	43
114	Archetypal analysis of diverse <i>Pseudomonas aeruginosa</i> transcriptomes reveals adaptation in cystic fibrosis airways. <i>BMC Bioinformatics</i> , 2013, 14, 279.	1.2	42
115	Evolutionary insight from whole-genome sequencing of <i>Pseudomonas aeruginosa</i> from cystic fibrosis patients. <i>Future Microbiology</i> , 2015, 10, 599-611.	1.0	42
116	Expression of extracellular phospholipase from <i>Serratia liquefaciens</i> is growth-phase-dependent, catabolite-repressed and regulated by anaerobiosis. <i>Molecular Microbiology</i> , 1992, 6, 1363-1374.	1.2	38
117	Bacterial evolution in PCD and CF patients follows the same mutational steps. <i>Scientific Reports</i> , 2016, 6, 28732.	1.6	38
118	Physiological States of Individual <i>Salmonella typhimurium</i> Cells Monitored by In Situ Reverse Transcription-PCR. <i>Journal of Bacteriology</i> , 1999, 181, 1733-1738.	1.0	38
119	<i>Pseudomonas aeruginosa</i> Adaptation to Lungs of Cystic Fibrosis Patients Leads to Lowered Resistance to Phage and Protist Enemies. <i>PLoS ONE</i> , 2013, 8, e75380.	1.1	36
120	Convergent transcription interferes with expression of the copy number control gene, <i>copA</i> , from plasmid R1. <i>EMBO Journal</i> , 1982, 1, 323-328.	3.5	35
121	Characterization of Cell Lysis in <i>Pseudomonas putida</i> Induced upon Expression of Heterologous Killing Genes. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4904-4911.	1.4	35
122	Purification and characterization of the CopB replication control protein, and precise mapping of its target site in the R1 plasmid. <i>Plasmid</i> , 1986, 15, 163-171.	0.4	34
123	Secretion of <i>Serratia liquefaciens</i> phospholipase from <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1993, 8, 229-242.	1.2	34
124	Genetic analysis of the parB + locus of plasmid R1. <i>Molecular Genetics and Genomics</i> , 1987, 209, 122-128.	2.4	33
125	Analysis of an <i>Escherichia coli</i> mutant strain resistant to the cell-killing function encoded by the <i>gef</i> gene family. <i>Molecular Microbiology</i> , 1992, 6, 895-905.	1.2	33
126	Compensatory evolution of <i>Pseudomonas aeruginosa</i> 's slow growth phenotype suggests mechanisms of adaptation in cystic fibrosis. <i>Nature Communications</i> , 2021, 12, 3186.	5.8	33

#	ARTICLE	IF	CITATIONS
127	Expression of antisense small RNAs in response to stress in <i>Pseudomonas aeruginosa</i> . BMC Genomics, 2014, 15, 783.	1.2	31
128	Gene Loss and Acquisition in Lineages of <i>Pseudomonas aeruginosa</i> Evolving in Cystic Fibrosis Patient Airways. MBio, 2020, 11, .	1.8	31
129	Influence of food preservation parameters and associated microbiota on production rate, profile and stability of acylated homoserine lactones from food-derived Enterobacteriaceae. International Journal of Food Microbiology, 2003, 84, 145-156.	2.1	30
130	Development of Spatial Distribution Patterns by Biofilm Cells. Applied and Environmental Microbiology, 2015, 81, 6120-6128.	1.4	30
131	The size of transcriptional units for ribosomal proteins in <i>Escherichia coli</i> . Molecular Genetics and Genomics, 1974, 129, 11-26.	2.4	29
132	Transcription and its regulation in the basic replicon region of plasmid R1. Molecular Genetics and Genomics, 1985, 198, 503-508.	2.4	27
133	Recombinogenic engineering of conjugative plasmids with fluorescent marker cassettes. FEMS Microbiology Ecology, 2002, 42, 251-259.	1.3	27
134	Diversity of metabolic profiles of cystic fibrosis <i>Pseudomonas aeruginosa</i> during the early stages of lung infection. Microbiology (United Kingdom), 2015, 161, 1447-1462.	0.7	27
135	Suicide Microbes on the Loose. Nature Biotechnology, 1995, 13, 35-37.	9.4	22
136	Nanograss sensor for selective detection of <i>Pseudomonas aeruginosa</i> by pyocyanin identification in airway samples. Analytical Biochemistry, 2020, 593, 113586.	1.1	22
137	Detection of bioluminescence from individual bacterial cells: a comparison of two different low-light imaging systems. , 1997, 12, 7-13.		21
138	The size of transcriptional units for ribosomal proteins in <i>Escherichia coli</i> rates of synthesis of ribosomal proteins during a nutritional shift-up. Molecular Genetics and Genomics, 1974, 130, 271-274.	2.4	20
139	How the R1 replication control system responds to copy number deviations. Plasmid, 1984, 11, 264-267.	0.4	20
140	Bacterial adaptation during chronic infection revealed by independent component analysis of transcriptomic data. BMC Microbiology, 2011, 11, 184.	1.3	20
141	A Mig-14-like protein (PA5003) affects antimicrobial peptide recognition in <i>Pseudomonas aeruginosa</i> . Microbiology (United Kingdom), 2011, 157, 2647-2657.	0.7	20
142	Omics-based tracking of <i>Pseudomonas aeruginosa</i> persistence in "eradicating" cystic fibrosis patients. European Respiratory Journal, 2021, 57, 2000512.	3.1	20
143	Microbial Pathogenesis and Biofilm Development. , 2004, 12, 114-131.		17
144	A <i>Rhizobium leguminosarum</i> CHDL- (Cadherin-Like-) Lectin Participates in Assembly and Remodeling of the Biofilm Matrix. Frontiers in Microbiology, 2016, 7, 1608.	1.5	17

#	ARTICLE	IF	CITATIONS
145	Microcontainer Delivery of Antibiotic Improves Treatment of <i>Pseudomonas aeruginosa</i> Biofilms. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901779.	3.9	17
146	Is genotyping of single isolates sufficient for population structure analysis of <i>Pseudomonas aeruginosa</i> in cystic fibrosis airways?. <i>BMC Genomics</i> , 2016, 17, 589.	1.2	16
147	Identification and characterization of mutations responsible for a runaway replication phenotype of plasmid R1. <i>Gene</i> , 1987, 57, 203-211.	1.0	15
148	Assessment of <i>flhDC</i> mRNA Levels in <i>Serratia liquefaciens</i> Swarm Cells. <i>Journal of Bacteriology</i> , 2000, 182, 2680-2686.	1.0	15
149	High-throughput dilution-based growth method enables time-resolved exometabolomics of <i>Pseudomonas putida</i> and <i>Pseudomonas aeruginosa</i> . <i>Microbial Biotechnology</i> , 2021, 14, 2214-2226.	2.0	14
150	CASE: Complex Adaptive Systems Ecology. <i>Advances in Microbial Ecology</i> , 1997, , 27-79.	0.1	14
151	Antibiotic resistance in <i>Pseudomonas aeruginosa</i> and adaptation to complex dynamic environments. <i>Microbial Genomics</i> , 2020, 6, .	1.0	14
152	Plasmid R1 in <i>Salmonella typhimurium</i> : Molecular instability and gene dosage effects. <i>Plasmid</i> , 1979, 2, 589-597.	0.4	13
153	Elucidation of the Antibacterial Mechanism of the <i>Curvularia Haloperoxidase</i> System by DNA Microarray Profiling. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1749-1757.	1.4	13
154	Selection of hyperadherent mutants in <i>Pseudomonas putida</i> biofilms. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2257-2265.	0.7	13
155	Inactivation of <i>gltB</i> Abolishes Expression of the Assimilatory Nitrate Reductase Gene (<i>nasB</i>) in <i>Pseudomonas putida</i> KT2442. <i>Journal of Bacteriology</i> , 2000, 182, 3368-3376.	1.0	12
156	The Biofilm Lifestyle of <i>Pseudomonads</i> . , 2004, , 547-571.		12
157	Persistent Bacterial Infections, Antibiotic Treatment Failure, and Microbial Adaptive Evolution. <i>Antibiotics</i> , 2022, 11, 419.	1.5	11
158	Polymicrobial infections can select against <i>Pseudomonas aeruginosa</i> mutators because of quorum-sensing trade-offs. <i>Nature Ecology and Evolution</i> , 2022, 6, 979-988.	3.4	10
159	Bacterial Cell Cultures in a Lab-on-a-Disc: A Simple and Versatile Tool for Quantification of Antibiotic Treatment Efficacy. <i>Analytical Chemistry</i> , 2020, 92, 13871-13879.	3.2	9
160	Biased 16S rDNA PCR amplification caused by interference from DNA flanking the template region. , 0, .		9
161	Reevaluation of the Mode of Action of Streptolydigin in <i>Escherichia coli</i> : Induction of Transcription Termination In Vivo. <i>Antimicrobial Agents and Chemotherapy</i> , 1978, 13, 234-243.	1.4	8
162	Adaptive Interactions of <i>Achromobacter</i> spp. with <i>Pseudomonas aeruginosa</i> in Cystic Fibrosis Chronic Lung Co-Infection. <i>Pathogens</i> , 2021, 10, 978.	1.2	8

#	ARTICLE	IF	CITATIONS
163	Plasmid R1 Incompatibility. Contribution from the cop/rep and from the par Systems. , 1981, , 291-301.		6
164	Microbial communities: aggregates of individuals or co-ordinated systems. , 2000, , 199-214.		5
165	Complex Adaptive Systems Ecology. Advances in Microbial Ecology, 2000, , 233-275.	0.1	3
166	Enhanced Eradication of Mucinâ€Embedded Bacterial Biofilm by Locally Delivered Antibiotics in Functionalized Microcontainers. Macromolecular Bioscience, 2021, 21, 2100150.	2.1	3
167	Pseudomonas aeruginosa Biofilms in the Lungs of Cystic Fibrosis Patients. , 2011, , 167-184.		3
168	Monitoring the conjugal transfer of plasmid RP4 in activated sludge and in situ identification of the transconjugants. , 0, .		3
169	Temporal Segregation: Succession in Biofilms. , 0, , 192-213.		3
170	Use of bioluminescence for monitoring the viability of individual Pseudomonas putida KT2442 cells. , 0, .		2
171	Activity of toluene-degrading Pseudomonas putida in the early growth phase of a biofilm for waste gas treatment. , 1997, 54, 131.		1
172	Active Biological Containment for Bioremediation in the Rhizosphere. , 1999, , 151-156.		0
173	In Situ Monitoring of Bacterial Presence and Activity. , 0, , 49-58.		0
174	Biofilm Formation of Legionella pneumophila in Complex Medium under Static and Dynamic Flow Conditions. , 0, , 398-402.		0