# Sebastian Molin

List of Publications by Year
in descending order



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|---|---|---|---|
| 177 papers | 26,335 citations | 7096<br>78 h-index | 6654<br>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 /Overlo | 1.8 | 1,899 |
| 2 | Attenuation of Pseudomonas aeruginosa virulence by quorum sensing inhibitors. EMBO Journal, 2003, 22, 3803-3815. | 7.8 | 1,205 |
| 3 | Inhibition of quorum sensing in Pseudomonas aeruginosa biofilm bacteria by a halogenated furanone compound. Microbiology (United Kingdom), 2002, 148, 87-102. | 1.8 | 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. | 3.1 | 883 |
| 5 | Biofilm formation by <i>Pseudomonas aeruginosa</i> wild type, flagella and type IV pili mutants. Molecular Microbiology, 2003, 48, 1511-1524. | 2.5 | 880 |
| 6 | The clinical impact of bacterial biofilms. International Journal of Oral Science, 2011, 3, 55-65. | 8.6 | 663 |
| 7 | Adaptation of Pseudomonas aeruginosa to the cystic fibrosis airway: an evolutionary perspective. Nature Reviews Microbiology, 2012, 10, 841-851. | 28.6 | 635 |
| 8 | Alginate Overproduction Affects<i>Pseudomonas aeruginosa</i>Biofilm Structure and Function. Journal of Bacteriology, 2001, 183, 5395-5401. | 2.2 | 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. | 6.6 | 563 |
| 10 | Convergent evolution and adaptation of Pseudomonas aeruginosa within patients with cystic fibrosis. Nature Genetics, 2015, 47, 57-64. | 21.4 | 516 |
| 11 | Involvement of bacterial migration in the development of complex multicellular structures in Pseudomonas aeruginosa biofilms. Molecular Microbiology, 2003, 50, 61-68. | 2.5 | 463 |
| 12 | Pseudomonas aeruginosa tolerance to tobramycin, hydrogen peroxide and polymorphonuclear leukocytes is quorum-sensing dependent. Microbiology (United Kingdom), 2005, 151, 373-383. | 1.8 | 451 |
| 13 | Applying insights from biofilm biology to drug development â€" can a new approach be developed?. Nature Reviews Drug Discovery, 2013, 12, 791-808. | 46.4 | 421 |
| 14 | Global impact of mature biofilm lifestyle on Escherichia coli K-12 gene expression. Molecular Microbiology, 2003, 51, 659-674. | 2.5 | 420 |
| 15 | The cep quorum-sensing system of Burkholderia cepacia H111 controls biofilm formation and swarming motility. Microbiology (United Kingdom), 2001, 147, 2517-2528. | 1.8 | 414 |
| 16 | Multiple sensors control reciprocal expression of Pseudomonas aeruginosa regulatory RNA and virulence genes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 171-176. | 7.1 | 401 |
| 17 | N-Acylhomoserine-lactone-mediated communication between Pseudomonas aeruginosa and Burkholderia cepacia in mixed biofilms. Microbiology (United Kingdom), 2001, 147, 3249-3262. | 1.8 | 358 |
| 18 | Involvement of N-acyl-l-homoserine lactone autoinducers in controlling the multicellular behaviour of Serratia liquefaciens. Molecular Microbiology, 1996, 20, 127-136. | 2.5 | 344 |

| # | Article | IF | Citations |
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| 19 | Evolutionary dynamics of bacteria in a human host environment. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7481-7486. | 7.1 | 327 |
| 20 | Stratified Growth in Pseudomonas aeruginosa Biofilms. Applied and Environmental Microbiology, 2004, 70, 6188-6196. | 3.1 | 322 |
| 21 | In Situ Gene Expression in Mixed-Culture Biofilms: Evidence of Metabolic Interactions between Community Members. Applied and Environmental Microbiology, 1998, 64, 721-732. | 3.1 | 307 |
| 22 | Development and maturation of Escherichia coli K-12 biofilms. Molecular Microbiology, 2003, 48, 933-946. | 2.5 | 303 |
| 23 | Development and Dynamics of Pseudomonassp. Biofilms. Journal of Bacteriology, 2000, 182, 6482-6489. | 2.2 | 288 |
| 24 | Establishment of New Genetic Traits in a Microbial Biofilm Community. Applied and Environmental Microbiology, 1998, 64, 2247-2255. | 3.1 | 284 |
| 25 | Distribution of Bacterial Growth Activity in Flow-Chamber Biofilms. Applied and Environmental Microbiology, 1999, 65, 4108-4117. | 3.1 | 267 |
| 26 | Methods for detecting acylated homoserine lactones produced by Gram-negative bacteria and their application in studies of AHL-production kinetics. Journal of Microbiological Methods, 2001, 44, 239-251. | 1.6 | 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. Applied and Environmental Microbiology, 2002, 68, 2008-2017. | 3.1 | 259 |
| 28 | [2] Molecular tools for study of biofilm physiology. Methods in Enzymology, 1999, 310, 20-42. | 1.0 | 246 |
| 29 | Characterization of starvation-induced dispersion in Pseudomonas putida biofilms. Environmental Microbiology, 2005, 7, 894-904. | 3.8 | 233 |
| 30 | Experimental reproducibility in flow-chamber biofilms. Microbiology (United Kingdom), 2000, 146, 2409-2415. | 1.8 | 224 |
| 31 | Partitioning of plasmid R1 in Escherichia coli,. Plasmid, 1980, 4, 215-227. | 1.4 | 221 |
| 32 | Identification of a Novel Group of Bacteria in Sludge from a Deteriorated Biological Phosphorus Removal Reactor. Applied and Environmental Microbiology, 1999, 65, 1251-1258. | 3.1 | 220 |
| 33 | Molecular Epidemiology and Dynamics of Pseudomonas aeruginosa Populations in Lungs of Cystic Fibrosis Patients. Infection and Immunity, 2007, 75, 2214-2224. | 2.2 | 220 |
| 34 | Pseudomonas aeruginosa adaptation and evolution in patients with cystic fibrosis. Nature Reviews Microbiology, 2021, 19, 331-342. | 28.6 | 213 |
| 35 | Volatile Metabolites from Actinomycetes. Journal of Agricultural and Food Chemistry, 2002, 50, 2615-2621. | 5.2 | 201 |
| 36 | In Situ Growth Rates and Biofilm Development of <i>Pseudomonas aeruginosa</i> Populations in Chronic Lung Infections. Journal of Bacteriology, 2008, 190, 2767-2776. | 2.2 | 201 |

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| 37 | Low-copy-number plasmid-cloning vectors amplifiable by derepression of an inserted foreign promoter. Gene, 1984, 28, 45-54. | 2.2 | 200 |
| 38 | Long-Term Succession of Structure and Diversity of a Biofilm Formed in a Model Drinking Water Distribution System. Applied and Environmental Microbiology, 2003, 69, 6899-6907. | 3.1 | 199 |
| 39 | Genome Analysis of a Transmissible Lineage of Pseudomonas aeruginosa Reveals Pathoadaptive Mutations and Distinct Evolutionary Paths of Hypermutators. PLoS Genetics, 2013, 9, e1003741. | 3.5 | 191 |
| 40 | Biased 16S rDNA PCR amplification caused by interference from DNA flanking the template region. FEMS Microbiology Ecology, 1998, 26, 141-149. | 2.7 | 190 |
| 41 | In situ identification of polyphosphate- and polyhydroxyalkanoate-accumulating traits for microbial populations in a biological phosphorus removal process. Environmental Microbiology, 2001, 3, 110-122. | 3.8 | 190 |
| 42 | Surface Motility of <i>Serratia liquefaciens</i> MG1. Journal of Bacteriology, 1999, 181, 1703-1712. | 2.2 | 188 |
| 43 | Within-Host Evolution of Pseudomonas aeruginosa Reveals Adaptation toward Iron Acquisition from Hemoglobin. MBio, 2014, 5, e00966-14. | 4.1 | 186 |
| 44 | Control of replication of bacterial plasmids: Genetics, molecular biology, and physiology of the plasmid R1 system. Plasmid, 1984, 12, 71-90. | 1.4 | 185 |
| 45 | Plasmids with temperature-dependent copy number for amplification of cloned genes and their products. Gene, 1979, 6, 91-106. | 2.2 | 184 |
| 46 | Evolution and diversification of <i>Pseudomonas aeruginosa</i> in the paranasal sinuses of cystic fibrosis children have implications for chronic lung infection. ISME Journal, 2012, 6, 31-45. | 9.8 | 184 |
| 47 | Assessment of GFP fluorescence in cells of Streptococcus gordonii under conditions of low pH and low oxygen concentration. Microbiology (United Kingdom), 2001, 147, 1383-1391. | 1.8 | 182 |
| 48 | In Vitro Biofilm Formation of Commensal and Pathogenic Escherichia coli Strains: Impact of Environmental and Genetic Factors. Journal of Bacteriology, 2006, 188, 3572-3581. | 2.2 | 182 |
| 49 | Role of commensal relationships on the spatial structure of a surface-attached microbial consortium. Environmental Microbiology, 2000, 2, 59-68. | 3.8 | 175 |
| 50 | Bacterial Activity in the Rhizosphere Analyzed at the Single-Cell Level by Monitoring Ribosome Contents and Synthesis Rates. Applied and Environmental Microbiology, 2000, 66, 801-809. | 3.1 | 174 |
| 51 | Differentiation and Distribution of Colistin- and Sodium Dodecyl Sulfate-Tolerant Cells in Pseudomonas aeruginosa Biofilms. Journal of Bacteriology, 2007, 189, 28-37. | 2.2 | 170 |
| 52 | Effect of Bacterial Distribution and Activity on Conjugal Gene Transfer on the Phylloplane of the Bush Bean ( <i>Phaseolus vulgaris</i> ). Applied and Environmental Microbiology, 1998, 64, 1902-1909. | 3.1 | 168 |
| 53 | Novel Mouse Model of Chronic Pseudomonas aeruginosa Lung Infection Mimicking Cystic Fibrosis. Infection and Immunity, 2005, 73, 2504-2514. | 2.2 | 158 |
| 54 | Contribution of alginate and levan production to biofilm formation by Pseudomonas syringae. Microbiology (United Kingdom), 2006, 152, 2909-2918. | 1.8 | 158 |

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| 55 | Detection of N-acylhomoserine lactones in lung tissues of mice infected with Pseudomonas aeruginosa. Microbiology (United Kingdom), 2000, 146, 2481-2493. | 1.8 | 156 |
| 56 | Long-term social dynamics drive loss of function in pathogenic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10756-10761. | 7.1 | 155 |
| 57 | Alginate production affects Pseudomonas aeruginosa biofilm development and architecture, but is not essential for biofilm formation. Journal of Medical Microbiology, 2004, 53, 679-690. | 1.8 | 154 |
| 58 | Antibiotic resistance: turning evolutionary principles into clinical reality. FEMS Microbiology Reviews, 2020, 44, 171-188. | 8.6 | 154 |
| 59 | Environmental Heterogeneity Drives Within-Host Diversification and Evolution of Pseudomonas aeruginosa. MBio, 2014, 5, e01592-14. | 4.1 | 153 |
| 60 | Plasmid transfer in the animal intestine and other dynamic bacterial populations: the role of community structure and environment. Microbiology (United Kingdom), 1999, 145, 2615-2622. | 1.8 | 149 |
| 61 | Coexistence and Within-Host Evolution of Diversified Lineages of Hypermutable Pseudomonas aeruginosa in Long-term Cystic Fibrosis Infections. PLoS Genetics, 2014, 10, e1004651. | 3.5 | 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 Nitrospira spp. Applied and Environmental Microbiology, 2005, 71, 8611-8617. | 3.1 | 145 |
| 63 | Quorum-sensing-directed protein expression in Serratia proteamaculans B5a. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overl | 1.8 | 143 |
| 64 | Antigen 43 facilitates formation of multispecies biofilms. Environmental Microbiology, 2000, 2, 695-702. | 3.8 | 142 |
| 65 | Genetic analysis of functions involved in the late stages of biofilm development inBurkholderia cepaciaH111. Molecular Microbiology, 2002, 46, 411-426. | 2.5 | 141 |
| 66 | Surface motility in Pseudomonas sp. DSS73 is required for efficient biological containment of the root-pathogenic microfungi Rhizoctonia solani and Pythium ultimum. Microbiology (United Kingdom), 2003, 149, 37-46. | 1.8 | 124 |
| 67 | Synergistic Effects in Mixed Escherichia coli Biofilms: Conjugative Plasmid Transfer Drives Biofilm Expansion. Journal of Bacteriology, 2006, 188, 3582-3588. | 2.2 | 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. Environmental Microbiology, 2010, 12, 1643-1658. | 3.8 | 124 |
| 69 | Partitioning of plasmid R1. Journal of Molecular Biology, 1986, 190, 269-279. | 4.2 | 118 |
| 70 | Control of Plasmid R1 Replication: Functions Involved in Replication, Copy Number Control, Incompatibility, and Switch-off of Replication. Journal of Bacteriology, 1980, 141, 111-120. | 2.2 | 113 |
| 71 | The evolution of antimicrobial peptide resistance in Pseudomonas aeruginosa is shaped by strong epistatic interactions. Nature Communications, 2016, 7, 13002. | 12.8 | 106 |
| 72 | Cloning, Sequencing, and Phenotypic Characterization of the <i>rpoS</i> Gene from <i>Pseudomonas putida</i> KT2440. Journal of Bacteriology, 1998, 180, 3421-3431. | 2.2 | 101 |

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| 73 | The sites of action of the two copy number control functions of plasmid R1. Molecular Genetics and Genomics, 1982, 187, 486-493. | 2.4 | 99 |
| 74 | Induction of phospholipase- and flagellar synthesis in Serratia liquefaciens is controlled by expression of the flagellar master operon flhD. Molecular Microbiology, 1995, 15, 445-454. | 2.5 | 96 |
| 75 | Production of Acylated Homoserine Lactones by Psychrotrophic Members of the <i>Enterobacteriaceae</i> Isolated from Foods. Applied and Environmental Microbiology, 1999, 65, 3458-3463. | 3.1 | 91 |
| 76 | Two Separate Regulatory Systems Participate in Control of Swarming Motility of <i>Serratia liquefaciens</i> MG1. Journal of Bacteriology, 1998, 180, 742-745. | 2.2 | 91 |
| 77 | Lipopeptide Production in Pseudomonas sp. Strain DSS73 Is Regulated by Components of Sugar Beet Seed Exudate via the Gac Two-Component Regulatory System. Applied and Environmental Microbiology, 2002, 68, 4509-4516. | 3.1 | 89 |
| 78 | Use of green fluorescent protein as a marker for ecological studies of activated sludge communities. FEMS Microbiology Letters, 2006, 149, 77-83. | 1.8 | 89 |
| 79 | Evolutionary highways to persistent bacterial infection. Nature Communications, 2019, 10, 629. | 12.8 | 89 |
| 80 | Deletion and acquisition of genomic content during early stage adaptation of <i>Pseudomonas aeruginosa</i> to a human host environment. Environmental Microbiology, 2012, 14, 2200-2211. | 3.8 | 88 |
| 81 | High-resolution in situ transcriptomics of Pseudomonas aeruginosa unveils genotype independent patho-phenotypes in cystic fibrosis lungs. Nature Communications, 2018, 9, 3459. | 12.8 | 88 |
| 82 | Application of molecular tools for in situ monitoring of bacterial growth activity. Environmental Microbiology, 1999, 1, 383-391. | 3.8 | 85 |
| 83 | Isolation and characterization of new copy mutants of plasmid R1, and identification of a polypeptide involved in copy number control. Molecular Genetics and Genomics, 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. Science Translational Medicine, 2019, 11, . | 12.4 | 80 |
| 85 | Vertical dye-buoyant density gradients for rapid analysis and preparation of plasmid DNA. Analytical Biochemistry, 1981, 118, 191-193. | 2.4 | 77 |
| 86 | Loss of Social Behaviours in Populations of Pseudomonas aeruginosa Infecting Lungs of Patients with Cystic Fibrosis. PLoS ONE, 2014, 9, e83124. | 2.5 | 77 |
| 87 | The Behavior of Bacteria Designed for Biodegradation. Nature Biotechnology, 1994, 12, 1349-1356. | 17.5 | 76 |
| 88 | Partitioning of plasmid R1 in Escherichia coli. Plasmid, 1980, 4, 332-349. | 1.4 | 75 |
| 89 | Antibiotic combination therapy can select for broad-spectrum multidrug resistance in Pseudomonas aeruginosa. International Journal of Antimicrobial Agents, 2016, 47, 48-55. | 2.5 | 75 |
| 90 | Replication control functions of plasmid R1 act as inhibitors of expression of a gene required for replication. Molecular Genetics and Genomics, 1981, 184, 56-61. | 2.4 | 70 |

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| 91 | Activity of toluene-degrading Pseudomonas putida in the early growth phase of a biofilm for waste gas treatment. , 1997, 54, 131-141. | | 68 |
| 92 | Non-genetic population heterogeneity studied byin situpolymerase chain reaction. Molecular Microbiology, 1998, 27, 1099-1105. | 2.5 | 68 |
| 93 | Fast Selective Detection of Pyocyanin Using Cyclic Voltammetry. Sensors, 2016, 16, 408. | 3.8 | 67 |
| 94 | Control of Ribosome Synthesis in <i>Escherichia coli</i> : Analysis of an Energy Source Shift-Down. Journal of Bacteriology, 1977, 131, 7-17. | 2.2 | 63 |
| 95 | The nucleotide sequence of the replication control region of the resistance plasmid R1drd-19. Molecular Genetics and Genomics, 1981, 181, 116-122. | 2.4 | 62 |
| 96 | Within-host microevolution of Pseudomonas aeruginosa in Italian cystic fibrosis patients. BMC Microbiology, 2015, 15, 218. | 3.3 | 62 |
| 97 | Combined use of different Gfp reporters for monitoring single-cell activities of a genetically modified PCB degrader in the rhizosphere of alfalfa. FEMS Microbiology Ecology, 2004, 48, 139-148. | 2.7 | 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. Journal of Bacteriology, 2001, 183, 4747-4751. | 2.2 | 59 |
| 99 | Convergent Metabolic Specialization through Distinct Evolutionary Paths in Pseudomonas aeruginosa. MBio, 2018, 9, . | 4.1 | 59 |
| 100 | Control of Protein Synthesis in <i>Escherichia coli</i> : Analysis of an Energy Source Shift-Down. Journal of Bacteriology, 1977, 131, 18-29. | 2.2 | 59 |
| 101 | Copy mutants of plasmid R1: Effects of base pair substitutions in the copA gene on the replication control system. Molecular Genetics and Genomics, 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. Vaccine Journal, 1999, 6, 434-436. | 2.6 | 58 |
| 103 | Mutations causing low level antibiotic resistance ensure bacterial survival in antibiotic-treated hosts. Scientific Reports, 2018, 8, 12512. | 3.3 | 56 |
| 104 | Electrochemical Detection of Pyocyanin as a Biomarker for Pseudomonas aeruginosa: A Focused Review. Sensors, 2020, 20, 5218. | 3.8 | 54 |
| 105 | Evolution and Adaptation in Pseudomonas aeruginosa Biofilms Driven by Mismatch Repair System-Deficient Mutators. PLoS ONE, 2011, 6, e27842. | 2.5 | 53 |
| 106 | Construction of an Efficient Biologically Contained <i>Pseudomonas putida</i> Strain and Its Survival in Outdoor Assays. Applied and Environmental Microbiology, 1998, 64, 2072-2078. | 3.1 | 53 |
| 107 | Bacterial persisters in long-term infection: Emergence and fitness in a complex host environment. PLoS Pathogens, 2020, 16, e1009112. | 4.7 | 53 |
| 108 | Inhibition of Escherichia coli precursor-16S rRNA processing by mouse intestinal contents. Environmental Microbiology, 1999, 1, 23-32. | 3.8 | 50 |

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| 109 | Meningococcal biofilm formation: structure, development and phenotypes in a standardized continuous flow system. Molecular Microbiology, 2006, 62, 1292-1309. | 2.5 | 49 |
| 110 | Electrochemical sensing of biomarker for diagnostics of bacteria-specific infections. Nanomedicine, 2016, 11, 2185-2195. | 3.3 | 49 |
| 111 | Effects of stress treatments on the detection of Salmonella typhimurium by in situ hybridization. International Journal of Food Microbiology, 1997, 35, 251-258. | 4.7 | 47 |
| 112 | <i>Curvularia</i> Haloperoxidase: Antimicrobial Activity and Potential Application as a Surface Disinfectant. Applied and Environmental Microbiology, 2003, 69, 4611-4617. | 3.1 | 44 |
| 113 | Paper-based sensors for rapid detection of virulence factor produced by Pseudomonas aeruginosa. PLoS ONE, 2018, 13, e0194157. | 2.5 | 43 |
| 114 | Archetypal analysis of diverse Pseudomonas aeruginosatranscriptomes reveals adaptation in cystic fibrosis airways. BMC Bioinformatics, 2013, 14, 279. | 2.6 | 42 |
| 115 | Evolutionary insight from whole-genome sequencing ofPseudomonas aeruginosafrom cystic fibrosis patients. Future Microbiology, 2015, 10, 599-611. | 2.0 | 42 |
| 116 | Expression of extracellular phospholipase from <i>Serratia liquefaciens</i> is growthâ€phaseâ€dependent, cataboliteâ€repressed and regulated by anaerobiosis. Molecular Microbiology, 1992, 6, 1363-1374. | 2.5 | 38 |
| 117 | Bacterial evolution in PCD and CF patients follows the same mutational steps. Scientific Reports, 2016, 6, 28732. | 3.3 | 38 |
| 118 | Physiological States of Individual Salmonella typhimurium Cells Monitored by In Situ Reverse Transcription-PCR. Journal of Bacteriology, 1999, 181, 1733-1738. | 2.2 | 38 |
| 119 | Pseudomonas aeruginosa Adaptation to Lungs of Cystic Fibrosis Patients Leads to Lowered Resistance to Phage and Protist Enemies. PLoS ONE, 2013, 8, e75380. | 2.5 | 36 |
| 120 | Convergent transcription interferes with expression of the copy number control gene, <i>copA</i> , from plasmid R1. EMBO Journal, 1982, 1, 323-328. | 7.8 | 35 |
| 121 | Characterization of Cell Lysis in <i>Pseudomonas putida</i> Induced upon Expression of Heterologous Killing Genes. Applied and Environmental Microbiology, 1998, 64, 4904-4911. | 3.1 | 35 |
| 122 | Purification and characterization of the CopB replication control protein, and precise mapping of its target site in the R1 plasmid. Plasmid, 1986, 15, 163-171. | 1.4 | 34 |
| 123 | Secretion of Serratia liquefaciens phospholipase from Escherichia coli. Molecular Microbiology, 1993, 8, 229-242. | 2.5 | 34 |
| 124 | Genetic analysis of the parB + locus of plasmid R1. Molecular Genetics and Genomics, 1987, 209, 122-128. | 2.4 | 33 |
| 125 | Analysis of an Escherichia coli mutant strain resistant to the cell-killing function encoded by the gef gene family. Molecular Microbiology, 1992, 6, 895-905. | 2.5 | 33 |
| 126 | Compensatory evolution of Pseudomonas aeruginosaâ€™s slow growth phenotype suggests mechanisms of adaptation in cystic fibrosis. Nature Communications, 2021, 12, 3186. | 12.8 | 33 |

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| 127 | Expression of antisense small RNAs in response to stress in Pseudomonas aeruginosa. BMC Genomics, 2014, 15, 783. | 2.8 | 31 |
| 128 | Gene Loss and Acquisition in Lineages of Pseudomonas aeruginosa Evolving in Cystic Fibrosis Patient Airways. MBio, 2020, 11, . | 4.1 | 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. | 4.7 | 30 |
| 130 | Development of Spatial Distribution Patterns by Biofilm Cells. Applied and Environmental Microbiology, 2015, 81, 6120-6128. | 3.1 | 30 |
| 131 | The size of transcriptional units for ribosomal proteins in Escherichia coli. 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. | 2.7 | 27 |
| 134 | Diversity of metabolic profiles of cystic fibrosis Pseudomonas aeruginosa during the early stages of lung infection. Microbiology (United Kingdom), 2015, 161, 1447-1462. | 1.8 | 27 |
| 135 | Suicide Microbes on the Loose. Nature Biotechnology, 1995, 13, 35-37. | 17.5 | 22 |
| 136 | Nanograss sensor for selective detection of Pseudomonas aeruginosa by pyocyanin identification in airway samples. Analytical Biochemistry, 2020, 593, 113586. | 2.4 | 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 Escherichia coli 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. | 1.4 | 20 |
| 140 | Bacterial adaptation during chronic infection revealed by independent component analysis of transcriptomic data. BMC Microbiology, 2011, 11, 184. | 3.3 | 20 |
| 141 | A Mig-14-like protein (PA5003) affects antimicrobial peptide recognition in Pseudomonas aeruginosa. Microbiology (United Kingdom), 2011, 157, 2647-2657. | 1.8 | 20 |
| 142 | Omics-based tracking of<i>Pseudomonas aeruginosa</i>persistence in â€œeradicatedâ€•cystic fibrosis patients. European Respiratory Journal, 2021, 57, 2000512. | 6.7 | 20 |
| 143 | Microbial Pathogenesis and Biofilm Development. , 2004, 12, 114-131. | | 17 |
| 144 | A Rhizobium leguminosarum CHDL- (Cadherin-Like-) Lectin Participates in Assembly and Remodeling of the Biofilm Matrix. Frontiers in Microbiology, 2016, 7, 1608. | 3.5 | 17 |

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| 145 | Microcontainer Delivery of Antibiotic Improves Treatment of <i>Pseudomonas aeruginosa</i> Biofilms. Advanced Healthcare Materials, 2020, 9, e1901779. | 7.6 | 17 |
| 146 | Is genotyping of single isolates sufficient for population structure analysis of Pseudomonas aeruginosa in cystic fibrosis airways?. BMC Genomics, 2016, 17, 589. | 2.8 | 16 |
| 147 | Identification and characterization of mutations responsible for a runaway replication phenotype of plasmid R1. Gene, 1987, 57, 203-211. | 2.2 | 15 |
| 148 | Assessment of flhDC mRNA Levels inSerratia liquefaciens Swarm Cells. Journal of Bacteriology, 2000, 182, 2680-2686. | 2.2 | 15 |
| 149 | Highâ€throughput dilutionâ€based growth method enables timeâ€resolved exoâ€metabolomics of <i>Pseudomonas putida</i> and <i>Pseudomonas aeruginosa</i>. Microbial Biotechnology, 2021, 14, 2214-2226. | 4.2 | 14 |
| 150 | CASE: Complex Adaptive Systems Ecology. Advances in Microbial Ecology, 1997, , 27-79. | 0.1 | 14 |
| 151 | Antibiotic resistance in Pseudomonas aeruginosa and adaptation to complex dynamic environments. Microbial Genomics, 2020, 6, . | 2.0 | 14 |
| 152 | Plasmid R1 in Salmonella typhimurium: Molecular instability and gene dosage effects. Plasmid, 1979, 2, 589-597. | 1.4 | 13 |
| 153 | Elucidation of the Antibacterial Mechanism of the Curvularia Haloperoxidase System by DNA Microarray Profiling. Applied and Environmental Microbiology, 2004, 70, 1749-1757. | 3.1 | 13 |
| 154 | Selection of hyperadherent mutants in Pseudomonas putida biofilms. Microbiology (United Kingdom), 2011, 157, 2257-2265. | 1.8 | 13 |
| 155 | Inactivation of gltB Abolishes Expression of the Assimilatory Nitrate Reductase Gene (nasB) in Pseudomonas putida KT2442. Journal of Bacteriology, 2000, 182, 3368-3376. | 2.2 | 12 |
| 156 | The Biofilm Lifestyle of Pseudomonads. , 2004, , 547-571. |  | 12 |
| 157 | Persistent Bacterial Infections, Antibiotic Treatment Failure, and Microbial Adaptive Evolution. Antibiotics, 2022, 11, 419. | 3.7 | 11 |
| 158 | Polymicrobial infections can select against Pseudomonas aeruginosa mutators because of quorum-sensing trade-offs. Nature Ecology and Evolution, 2022, 6, 979-988. | 7.8 | 10 |
| 159 | Bacterial Cell Cultures in a Lab-on-a-Disc: A Simple and Versatile Tool for Quantification of Antibiotic Treatment Efficacy. Analytical Chemistry, 2020, 92, 13871-13879. | 6.5 | 9 |
| 160 | Biased 16S rDNA PCR amplification caused by interference from DNA flanking the template region. FEMS Microbiology Ecology, 1998, 26, 141-149. | 2.7 | 9 |
| 161 | Reevaluation of the Mode of Action of Streptolydigin in <i>Escherichia coli:</i> Induction of Transcription Termination In Vivo. Antimicrobial Agents and Chemotherapy, 1978, 13, 234-243. | 3.2 | 8 |
| 162 | Adaptive Interactions of Achromobacter spp. with Pseudomonas aeruginosa in Cystic Fibrosis Chronic Lung Co-Infection. Pathogens, 2021, 10, 978. | 2.8 | 8 |

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| 163 | Role of ribosome degradation in the death of heat-stressed Salmonella typhimurium. FEMS Microbiology Letters, 1996, 142, 155-160. | 1.8 | 7 |
| 164 | Plasmid R1 Incompatibility. Contribution from the cop/rep and from the par Systems. , 1981, , 291-301. | | 6 |
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