

Stephan Heeb

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

6,090
citations

136885

32
h-index

143943

57
g-index

62
all docs

62
docs citations

62
times ranked

5644
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Mushroom-shaped structures formed in <i>Acinetobacter baumannii</i> biofilms grown in a roller bioreactor are associated with quorum sensing-dependent Csu pilus assembly. <i>Environmental Microbiology</i> , 2022, 24, 4329-4339. | 1.8 | 12 |
| 2 | Genome-Wide Analysis of Targets for Post-Transcriptional Regulation by Rsm Proteins in <i>Pseudomonas putida</i> . <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 624061. | 1.6 | 8 |
| 3 | Combining Inducible Lectin Expression and Magnetic Glyconanoparticles for the Selective Isolation of Bacteria from Mixed Populations. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19230-19243. | 4.0 | 4 |
| 4 | Disruption of the <i>Pseudomonas aeruginosa</i> Tat system perturbs PQS-dependent quorum sensing and biofilm maturation through lack of the Rieske cytochrome bc1 sub-unit. <i>PLoS Pathogens</i> , 2021, 17, e1009425. | 2.1 | 8 |
| 5 | Design and Evaluation of New Quinazolin-4(3H)-one Derived PqsR Antagonists as Quorum Sensing Quenchers in <i>Pseudomonas aeruginosa</i> . <i>ACS Infectious Diseases</i> , 2021, 7, 2666-2685. | 1.8 | 22 |
| 6 | Engineering <i>Cupriavidus necator</i> H16 for the autotrophic production of (R)-1,3-butanediol. <i>Metabolic Engineering</i> , 2021, 67, 262-276. | 3.6 | 36 |
| 7 | <i>Actinomadura graeca</i> sp. nov.: A novel producer of the macrocyclic antibiotic zelkovamycin. <i>PLoS ONE</i> , 2021, 16, e0260413. | 1.1 | 7 |
| 8 | Hit Identification of New Potent PqsR Antagonists as Inhibitors of Quorum Sensing in Planktonic and Biofilm Grown <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Chemistry</i> , 2020, 8, 204. | 1.8 | 29 |
| 9 | Functional identification of the prnABCD operon and its regulation in <i>Serratia plymuthica</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3711-3721. | 1.7 | 11 |
| 10 | 2-Tridecanone impacts surface-associated bacterial behaviours and hinders plant-bacteria interactions. <i>Environmental Microbiology</i> , 2018, 20, 2049-2065. | 1.8 | 18 |
| 11 | Genome-wide mapping of the RNA targets of the <i>Pseudomonas aeruginosa</i> riboregulatory protein RsmN. <i>Nucleic Acids Research</i> , 2018, 46, 6823-6840. | 6.5 | 58 |
| 12 | Differential Regulation of the Phenazine Biosynthetic Operons by Quorum Sensing in <i>Pseudomonas aeruginosa</i> PAO1-N. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 252. | 1.8 | 79 |
| 13 | In Silico and in Vitro-Guided Identification of Inhibitors of Alkylquinolone-Dependent Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>Molecules</i> , 2018, 23, 257. | 1.7 | 47 |
| 14 | Identification of a <i>Pseudomonas aeruginosa</i> PAO1 DNA Methyltransferase, Its Targets, and Physiological Roles. <i>MBio</i> , 2017, 8, . | 1.8 | 32 |
| 15 | The <i>Pseudomonas putida</i> CsrA/RsmA homologues negatively affect c-di-GMP pools and biofilm formation through the GGDEF/EAL response regulator CfcR. <i>Environmental Microbiology</i> , 2017, 19, 3551-3566. | 1.8 | 22 |
| 16 | Optimised chronic infection models demonstrate that siderophore "cheating" in <i>Pseudomonas aeruginosa</i> is context specific. <i>ISME Journal</i> , 2017, 11, 2492-2509. | 4.4 | 28 |
| 17 | Professor Dieter Haas (1945-2017). <i>FEMS Microbiology Reviews</i> , 2017, 41, 597-598. | 3.9 | 1 |
| 18 | When Genome-Based Approach Meets the "Old but Good": Revealing Genes Involved in the Antibacterial Activity of <i>Pseudomonas</i> sp. P482 against Soft Rot Pathogens. <i>Frontiers in Microbiology</i> , 2016, 7, 782. | 1.5 | 27 |

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|----|---|-----|-----------|
| 19 | RsmW, <i>Pseudomonas aeruginosa</i> small non-coding RsmA-binding RNA upregulated in biofilm versus planktonic growth conditions. <i>BMC Microbiology</i> , 2016, 16, 155. | 1.3 | 76 |
| 20 | Synthesis and cell-free cloning of DNA libraries using programmable microfluidics. <i>Nucleic Acids Research</i> , 2016, 44, e35-e35. | 6.5 | 23 |
| 21 | Unravelling the Genome-Wide Contributions of Specific 2-Alkyl-4-Quinolones and PqsE to Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>PLoS Pathogens</i> , 2016, 12, e1006029. | 2.1 | 140 |
| 22 | Clinical utilization of genomics data produced by the international <i>Pseudomonas aeruginosa</i> consortium. <i>Frontiers in Microbiology</i> , 2015, 6, 1036. | 1.5 | 144 |
| 23 | Biotic inactivation of the <i>Pseudomonas aeruginosa</i> quinolone signal molecule. <i>Environmental Microbiology</i> , 2015, 17, 4352-4365. | 1.8 | 20 |
| 24 | Granulocyte-Macrophage Colony Stimulatory Factor Enhances the Pro-Inflammatory Response of Interferon- β -Treated Macrophages to <i>Pseudomonas aeruginosa</i> Infection. <i>PLoS ONE</i> , 2015, 10, e0117447. | 1.1 | 14 |
| 25 | A sequence-based approach for prediction of CsrA/RsmA targets in bacteria with experimental validation in <i>Pseudomonas aeruginosa</i> . <i>Nucleic Acids Research</i> , 2014, 42, 6811-6825. | 6.5 | 54 |
| 26 | The <i>GacR</i> and cyclic-di-GMP signalling networks coordinately regulate iron uptake in <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , 2014, 16, 676-688. | 1.8 | 76 |
| 27 | Structural Rearrangement in an RsmA/CsrA Ortholog of <i>Pseudomonas aeruginosa</i> Creates a Dimeric RNA-Binding Protein, RsmN. <i>Structure</i> , 2013, 21, 1659-1671. | 1.6 | 88 |
| 28 | Structural Basis for Native Agonist and Synthetic Inhibitor Recognition by the <i>Pseudomonas aeruginosa</i> Quorum Sensing Regulator PqsR (MvfR). <i>PLoS Pathogens</i> , 2013, 9, e1003508. | 2.1 | 185 |
| 29 | A Novel Virulence Strategy for <i>Pseudomonas aeruginosa</i> Mediated by an Autotransporter with Arginine-Specific Aminopeptidase Activity. <i>PLoS Pathogens</i> , 2012, 8, e1002854. | 2.1 | 45 |
| 30 | Effect of Overexpressing <i>rsmA</i> from <i>Pseudomonas aeruginosa</i> on Virulence of Select Phytotoxin-Producing Strains of <i>P. syringae</i> . <i>Phytopathology</i> , 2012, 102, 575-587. | 1.1 | 25 |
| 31 | Fatty acid-mediated signalling between two <i>Pseudomonas</i> species. <i>Environmental Microbiology Reports</i> , 2012, 4, 417-423. | 1.0 | 20 |
| 32 | The <i>Pseudomonas aeruginosa</i> sensor RetS switches Type III and Type VI secretion via cyclic-di-GMP signalling. <i>Environmental Microbiology</i> , 2012, 14, 1088-1089. | 1.8 | 1 |
| 33 | PpoR, an orphan LuxR-family protein of <i>Pseudomonas putida</i> KT2440, modulates competitive fitness and surface motility independently of <i>N-acylhomoserine lactones</i> . <i>Environmental Microbiology Reports</i> , 2011, 3, 79-85. | 1.0 | 15 |
| 34 | The <i>Pseudomonas aeruginosa</i> sensor RetS switches Type III and Type VI secretion via cyclic-di-GMP signalling. <i>Environmental Microbiology</i> , 2011, 13, 3128-3138. | 1.8 | 245 |
| 35 | The small RNA PhrS stimulates synthesis of the <i>Pseudomonas aeruginosa</i> quinolone signal. <i>Molecular Microbiology</i> , 2011, 80, 868-885. | 1.2 | 145 |
| 36 | Quinolones: from antibiotics to autoinducers. <i>FEMS Microbiology Reviews</i> , 2011, 35, 247-274. | 3.9 | 477 |

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| 37 | Evolving cell models for systems and synthetic biology. <i>Systems and Synthetic Biology</i> , 2010, 4, 55-84. | 1.0 | 40 |
| 38 | Transcriptomic analysis reveals a global alkyl-quinolone-independent regulatory role for PqsE in facilitating the environmental adaptation of <i>Pseudomonas aeruginosa</i> to plant and animal hosts. <i>Environmental Microbiology</i> , 2010, 12, 1659-1673. | 1.8 | 122 |
| 39 | Genome Diversity of <i>Pseudomonas aeruginosa</i> PAO1 Laboratory Strains. <i>Journal of Bacteriology</i> , 2010, 192, 1113-1121. | 1.0 | 242 |
| 40 | The acylase PvdQ has a conserved function among fluorescent <i>Pseudomonas</i> spp.. <i>Environmental Microbiology Reports</i> , 2010, 2, 433-439. | 1.0 | 13 |
| 41 | 2-Alkyl-4(1H)-Quinolone Signalling in <i>Pseudomonas aeruginosa</i> . , 2010, , 29-57. | | 2 |
| 42 | A LuxR-family regulatory system controls excision and transfer of the <i>Mesorhizobium loti</i> strain R7A symbiosis island by activating expression of two conserved hypothetical genes. <i>Molecular Microbiology</i> , 2009, 73, 1141-1155. | 1.2 | 57 |
| 43 | Quorum quenching activity in <i>Anabaena</i> sp. PCC 7120: identification of AiiC, a novel AHL-acylase. <i>FEMS Microbiology Letters</i> , 2008, 280, 73-80. | 0.7 | 139 |
| 44 | Genome-wide search reveals a novel GacA-regulated small RNA in <i>Pseudomonas</i> species. <i>BMC Genomics</i> , 2008, 9, 167. | 1.2 | 73 |
| 45 | Emergence of Secretion-Defective Sublines of <i>Pseudomonas aeruginosa</i> PAO1 Resulting from Spontaneous Mutations in the <i>vfr</i> Global Regulatory Gene. <i>Applied and Environmental Microbiology</i> , 2008, 74, 1902-1908. | 1.4 | 22 |
| 46 | Functional Analysis of the Post-transcriptional Regulator RsmA Reveals a Novel RNA-binding Site. <i>Journal of Molecular Biology</i> , 2006, 355, 1026-1036. | 2.0 | 87 |
| 47 | Cell-cell signaling in <i>Xanthomonas campestris</i> involves an HD-GYP domain protein that functions in cyclic di-GMP turnover. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6712-6717. | 3.3 | 499 |
| 48 | Role of the stress sigma factor RpoS in GacA/RsmA-controlled secondary metabolism and resistance to oxidative stress in <i>Pseudomonas fluorescens</i> CHA0. <i>FEMS Microbiology Letters</i> , 2005, 243, 251-258. | 0.7 | 93 |
| 49 | Extracellular Protease of <i>Pseudomonas fluorescens</i> CHA0, a Biocontrol Factor with Activity against the Root-Knot Nematode <i>Meloidogyne incognita</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 5646-5649. | 1.4 | 169 |
| 50 | Post-Transcriptional Regulation in <i>Pseudomonas</i> SPP. Via the Gac/Rsm Regulatory Network. , 2004, , 239-255. | | 6 |
| 51 | Positive Control of Swarming, Rhamnolipid Synthesis, and Lipase Production by the Posttranscriptional RsmA/RsmZ System in <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Bacteriology</i> , 2004, 186, 2936-2945. | 1.0 | 275 |
| 52 | RsmY, a small regulatory RNA, is required in concert with RsmZ for GacA-dependent expression of biocontrol traits in <i>Pseudomonas fluorescens</i> CHA0. <i>Molecular Microbiology</i> , 2003, 50, 1361-1379. | 1.2 | 199 |
| 53 | GacS Sensor Domains Pertinent to the Regulation of Exoproduct Formation and to the Biocontrol Potential of <i>Pseudomonas fluorescens</i> CHA0. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 634-644. | 1.4 | 139 |
| 54 | Regulatory RNA as Mediator in GacA/RsmA-Dependent Global Control of Exoproduct Formation in <i>Pseudomonas fluorescens</i> CHA0. <i>Journal of Bacteriology</i> , 2002, 184, 1046-1056. | 1.0 | 341 |

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|----|---|-----|-----------|
| 55 | Regulatory Roles of the GacS/GacA Two-Component System in Plant-Associated and Other Gram-Negative Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 1351-1363. | 1.4 | 412 |
| 56 | Small, Stable Shuttle Vectors Based on the Minimal pVS1 Replicon for Use in Gram-Negative, Plant-Associated Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 232-237. | 1.4 | 356 |
| 57 | Global GacA-steered control of cyanide and exoprotease production in <i>Pseudomonas fluorescens</i> involves specific ribosome binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 14073-14078. | 3.3 | 249 |
| 58 | Salicylic Acid Biosynthetic Genes Expressed in <i>Pseudomonas fluorescens</i> Strain P3 Improve the Induction of Systemic Resistance in Tobacco Against Tobacco Necrosis Virus. <i>Phytopathology</i> , 1998, 88, 678-684. | 1.1 | 310 |