## **Regine Hengge**

List of Publications by Year in descending order

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**PECINE HENCOE** 

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Principles of c-di-GMP signalling in bacteria. Nature Reviews Microbiology, 2009, 7, 263-273.   | 28.6 | 1,320     |
| 2  | Genome-Wide Analysis of the General Stress Response Network in <i>Escherichia coli</i> :<br>σ <sup>S</sup> -Dependent Genes, Promoters, and Sigma Factor Selectivity. Journal of Bacteriology,<br>2005, 187, 1591-1603. | 2.2  | 743       |
| 3  | Inverse regulatory coordination of motility and curli-mediated adhesion in <i>Escherichia coli</i> .<br>Genes and Development, 2008, 22, 2434-2446.   | 5.9  | 299       |
| 4  | Cellulose as an Architectural Element in Spatially Structured Escherichia coli Biofilms. Journal of<br>Bacteriology, 2013, 195, 5540-5554.  | 2.2  | 291       |
| 5  | Microanatomy at Cellular Resolution and Spatial Order of Physiological Differentiation in a Bacterial<br>Biofilm. MBio, 2013, 4, e00103-13.   | 4.1  | 286       |
| 6  | Cyclic-di-GMP-mediated signalling within the ?Snetwork of Escherichia coli. Molecular Microbiology, 2006, 62, 1014-1034.  | 2.5  | 250       |
| 7  | The enemy within us: lessons from the 2011 European <i>Escherichia coli</i> O104:H4 outbreak. EMBO<br>Molecular Medicine, 2012, 4, 841-848.   | 6.9  | 215       |
| 8  | Phosphoethanolamine cellulose: A naturally produced chemically modified cellulose. Science, 2018, 359, 334-338.   | 12.6 | 208       |
| 9  | A two-component phosphotransfer network involving ArcB, ArcA, and RssB coordinates synthesis and proteolysis of Ïf <sup> S </sup> (RpoS) in <i>E. coli </i> . Genes and Development, 2005, 19, 2770-2781.               | 5.9  | 169       |
| 10 | The BLUF-EAL protein YcgF acts as a direct anti-repressor in a blue-light response of <i>Escherichia coli</i> . Genes and Development, 2009, 23, 522-534.   | 5.9  | 165       |
| 11 | Bacterial nucleotide-based second messengers. Current Opinion in Microbiology, 2009, 12, 170-176.   | 5.1  | 158       |
| 12 | Proteolysis of σS (RpoS) and the general stress response in Escherichia coli. Research in Microbiology,<br>2009, 160, 667-676.  | 2.1  | 157       |
| 13 | The EAL domain protein YciR acts as a trigger enzyme in a c-di-GMP signalling cascade in E. coli biofilm control. EMBO Journal, 2013, 32, 2001-2014.  | 7.8  | 157       |
| 14 | Stress responses go three dimensional – the spatial order of physiological differentiation in bacterial macrocolony biofilms. Environmental Microbiology, 2014, 16, 1455-1471.  | 3.8  | 153       |
| 15 | Gene expression patterns and differential input into curli fimbriae regulation of all GCDEF/EAL domain proteins in Escherichia coli. Microbiology (United Kingdom), 2009, 155, 1318-1331.                               | 1.8  | 150       |
| 16 | The molecular basis of selective promoter activation by the ?Ssubunit of RNA polymerase. Molecular Microbiology, 2007, 63, 1296-1306.   | 2.5  | 147       |
| 17 | Small RNAs in the control of RpoS, CsgD, and biofilm architecture of <i>Escherichia coli</i> . RNA Biology, 2014, 11, 494-507.  | 3.1  | 146       |
| 18 | Small Regulatory RNAs in the Control of Motility and Biofilm Formation in E. coli and Salmonella.<br>International Journal of Molecular Sciences, 2013, 14, 4560-4579.  | 4.1  | 142       |

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|----|--|-----|-----------|
| 19 | More than Enzymes That Make or Break Cyclic Di-GMP—Local Signaling in the Interactome of<br>GGDEF/EAL Domain Proteins of <i>Escherichia coli</i> . MBio, 2017, 8, .  | 4.1 | 136       |
| 20 | Bacterial Signal Transduction by Cyclic Di-GMP and Other Nucleotide Second Messengers. Journal of<br>Bacteriology, 2016, 198, 15-26.   | 2.2 | 127       |
| 21 | Targeting of <i>csgD</i> by the small regulatory RNA RprA links stationary phase, biofilm formation and cell envelope stress in <i>Escherichia coli</i> . Molecular Microbiology, 2012, 84, 51-65.   | 2.5 | 111       |
| 22 | Stationary phase reorganisation of the Escherichia coli transcription machinery by Crl protein, a fine-tuner of σs activity and levels. EMBO Journal, 2007, 26, 1569-1578.   | 7.8 | 107       |
| 23 | The green tea polyphenol EGCG inhibits <scp> <i>E</i> </scp> <i>. coli</i> biofilm formation by impairing amyloid curli fibre assembly and downregulating the biofilm regulator CsgD via the<br>Ïf <sup>E</sup> â€dependent sRNA RybB. Molecular Microbiology, 2016, 101, 136-151. | 2.5 | 107       |
| 24 | Systematic Nomenclature for GGDEF and EAL Domain-Containing Cyclic Di-GMP Turnover Proteins of Escherichia coli. Journal of Bacteriology, 2016, 198, 7-11.   | 2.2 | 96        |
| 25 | â€~Life-style' control networks in Escherichia coli: Signaling by the second messenger c-di-GMP. Journal<br>of Biotechnology, 2012, 160, 10-16.  | 3.8 | 94        |
| 26 | Sequential recognition of two distinct sites in ÂS by the proteolytic targeting factor RssB and ClpX.<br>EMBO Journal, 2003, 22, 4111-4120.  | 7.8 | 91        |
| 27 | Cellular levels and activity of the flagellar sigma factor FliA ofEscherichia coliare controlled by<br>FlgM-modulated proteolysis. Molecular Microbiology, 2007, 65, 76-89.  | 2.5 | 75        |
| 28 | High-specificity local and global c-di-GMP signaling. Trends in Microbiology, 2021, 29, 993-1003.  | 7.7 | 74        |
| 29 | Role of the spacer between the -35 and -10 regions in sigmas promoter selectivity in Escherichia coli.<br>Molecular Microbiology, 2006, 59, 1037-1051.   | 2.5 | 73        |
| 30 | Trigger phosphodiesterases as a novel class of c-di-GMP effector proteins. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150498.  | 4.0 | 71        |
| 31 | Dynamic control of Dps protein levels by ClpXP and ClpAP proteases in Escherichia coli. Molecular<br>Microbiology, 2003, 49, 1605-1614.  | 2.5 | 70        |
| 32 | The ÏfS subunit of RNA polymerase as a signal integrator and network master regulator in the general stress response in Escherichia coli. Science Progress, 2007, 90, 103-127.   | 1.9 | 65        |
| 33 | Multiple stress signal integration in the regulation of the complex σS-dependent csiD-ygaF-gabDTP operon in Escherichia coli. Molecular Microbiology, 2003, 51, 799-811.   | 2.5 | 62        |
| 34 | Spatial organization of different sigma factor activities and c-di-GMP signalling within the three-dimensional landscape of a bacterial biofilm. Open Biology, 2018, 8, .  | 3.6 | 61        |
| 35 | Cyclicâ€diâ€ <scp>GMP</scp> signalling and biofilmâ€related properties of the Shiga toxinâ€producing 2011<br>German outbreak <i><scp>E</scp>scherichia coli</i> O104:H4. EMBO Molecular Medicine, 2014, 6,<br>1622-1637.   | 6.9 | 60        |
| 36 | Targeting Bacterial Biofilms by the Green Tea Polyphenol EGCG. Molecules, 2019, 24, 2403.  | 3.8 | 60        |

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|----|---|------|-----------|
| 37 | Genome-Based Comparison of Cyclic Di-GMP Signaling in Pathogenic and Commensal Escherichia coli<br>Strains. Journal of Bacteriology, 2016, 198, 111-126.  | 2.2  | 59        |
| 38 | Non-lethal exposure to H2O2 boosts bacterial survival and evolvability against oxidative stress. PLoS<br>Genetics, 2020, 16, e1008649.  | 3.5  | 59        |
| 39 | Linking bacterial growth, survival, and multicellularity – small signaling molecules as triggers and drivers. Current Opinion in Microbiology, 2020, 55, 57-66.   | 5.1  | 59        |
| 40 | Escherichia coli σ 70 senses sequence and conformation of the promoter spacer region. Nucleic Acids<br>Research, 2011, 39, 5109-5118.   | 14.5 | 58        |
| 41 | Local c-di-GMP Signaling in the Control of Synthesis of the E. coli Biofilm Exopolysaccharide pEtN-Cellulose. Journal of Molecular Biology, 2020, 432, 4576-4595.   | 4.2  | 53        |
| 42 | Stationary-Phase Gene Regulation in <i>Escherichia coli</i> §. EcoSal Plus, 2011, 4, .  | 5.4  | 48        |
| 43 | Molecular function and potential evolution of the biofilmâ€modulating blue lightâ€signalling pathway<br>of <i>Escherichia coli</i> . Molecular Microbiology, 2012, 85, 893-906.   | 2.5  | 46        |
| 44 | Vertical stratification of matrix production is essential for physical integrity and architecture of macrocolony biofilms of <scp><i>E</i></scp> <i>scherichia coli</i> . Environmental Microbiology, 2015, 17, 5073-5088.                  | 3.8  | 44        |
| 45 | The General Stress Response in Gram-Negative Bacteria. , 0, , 251-289.  |      | 41        |
| 46 | The Intestinal Roundworm Ascaris suum Releases Antimicrobial Factors Which Interfere With<br>Bacterial Growth and Biofilm Formation. Frontiers in Cellular and Infection Microbiology, 2018, 8,<br>271.                                     | 3.9  | 41        |
| 47 | Recent Advances and Current Trends in Nucleotide Second Messenger Signaling in Bacteria. Journal of<br>Molecular Biology, 2019, 431, 908-927.   | 4.2  | 41        |
| 48 | A c-di-GMP-Based Switch Controls Local Heterogeneity of Extracellular Matrix Synthesis which Is<br>Crucial for Integrity and Morphogenesis of Escherichia coli Macrocolony Biofilms. Journal of<br>Molecular Biology, 2019, 431, 4775-4793. | 4.2  | 41        |
| 49 | The global repressor FliZ antagonizes gene expression by σ S -containing RNA polymerase due to overlapping DNA binding specificity. Nucleic Acids Research, 2012, 40, 4783-4793.  | 14.5 | 38        |
| 50 | Differential ability of σs and σ70 of Escherichia coli to utilize promoters containing half or full<br>UP-element sites. Molecular Microbiology, 2004, 55, 250-260.   | 2.5  | 37        |
| 51 | Transmembrane redox control and proteolysis of PdeC, a novel type of câ€di― <scp>GMP</scp><br>phosphodiesterase. EMBO Journal, 2018, 37, .  | 7.8  | 37        |
| 52 | Bacterial Multicellularity: The Biology of <i>Escherichia coli</i> Building Large-Scale Biofilm<br>Communities. Annual Review of Microbiology, 2021, 75, 269-290.   | 7.3  | 36        |
| 53 | A role for Lon protease in the control of the acid resistance genes of <i>Escherichia coli</i> .<br>Molecular Microbiology, 2008, 69, 534-547.  | 2.5  | 35        |
| 54 | Cyclic-di-GMP Reaches Out into the Bacterial RNA World. Science Signaling, 2010, 3, pe44.   | 3.6  | 35        |

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|----|--|------|-----------|
| 55 | The influence of Hfq and ribonucleases on the stability of the small non-coding RNA OxyS and its<br>target <i>rpoS</i> in <i>E. coli</i> is growth phase dependent. RNA Biology, 2009, 6, 584-594.     | 3.1  | 34        |
| 56 | The ?35 sequence location and the Fis?sigma factor interface determine ?Sselectivity of the proP (P2) promoter in Escherichia coli. Molecular Microbiology, 2007, 63, 780-96.                          | 2.5  | 28        |
| 57 | Genetic dissection of Escherichia coli's master diguanylate cyclase DgcE: Role of the N-terminal MASE1 domain and direct signal input from a GTPase partner system. PLoS Genetics, 2019, 15, e1008059. | 3.5  | 28        |
| 58 | Common plant flavonoids prevent the assembly of amyloid curli fibres and can interfere with bacterial biofilm formation. Environmental Microbiology, 2020, 22, 5280-5299.                              | 3.8  | 28        |
| 59 | Rare codons play a positive role in the expression of the stationary phase sigma factor RpoS (σS)<br>in <i>Escherichia coli</i> . RNA Biology, 2011, 8, 913-921.                                       | 3.1  | 25        |
| 60 | Poly(A)â€polymerase I links transcription with mRNA degradation via σ S proteolysis. Molecular<br>Microbiology, 2006, 60, 177-188.   | 2.5  | 24        |
| 61 | General Stress Response in <i>Bacillus subtilis</i> and Related Gram-Positive Bacteria. , 0, , 301-318.  |      | 23        |
| 62 | Experimental Detection and Visualization of the Extracellular Matrix in Macrocolony Biofilms.<br>Methods in Molecular Biology, 2017, 1657, 133-145.  | 0.9  | 19        |
| 63 | Cellulose in Bacterial Biofilms. Biologically-inspired Systems, 2019, , 355-392.   | 0.2  | 17        |
| 64 | The <i>Escherichia coli</i> MarA protein regulates the <i>ycgZ</i> â€ <i>ymgABC</i> operon to inhibit<br>biofilm formation. Molecular Microbiology, 2019, 112, 1609-1625.                              | 2.5  | 17        |
| 65 | Adaptation of <i>Escherichia coli</i> Biofilm Growth, Morphology, and Mechanical Properties to Substrate Water Content. ACS Biomaterials Science and Engineering, 2021, 7, 5315-5325.                  | 5.2  | 14        |
| 66 | A Novel Locally c-di-GMP-Controlled Exopolysaccharide Synthase Required for Bacteriophage N4<br>Infection of <i>Escherichia coli</i> . MBio, 2021, 12, e0324921.                                       | 4.1  | 14        |
| 67 | Logical-continuous modelling of post-translationally regulated bistability of curli fiber expression in Escherichia coli. BMC Systems Biology, 2015, 9, 39.  | 3.0  | 11        |
| 68 | Novel tricks played by the second messenger c-di-GMP in bacterial biofilm formation. EMBO Journal, 2013, 32, 322-323.  | 7.8  | 10        |
| 69 | Role of Cyclic Di-GMP in the Regulatory Networks of <i>Escherichia coli</i> ., 0, , 230-252.   |      | 9         |
| 70 | Proteolysis in prokaryotes – from molecular machines to a systems perspective. Research in<br>Microbiology, 2009, 160, 615-617.  | 2.1  | 4         |
| 71 | Crosstalking second messengers. Nature Microbiology, 2021, 6, 9-10.  | 13.3 | 3         |
| 72 | Reply to "Precedence for the Structural Role of Flagella in Biofilms― MBio, 2013, 4, e00245-13.  | 4.1  | 1         |

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|----|---|-----|-----------|
| 73 | Discovery of Phosphoethanolamine Cellulose and the Genetic Basis for its Biosynthesis in E. coli<br>Biofilms. Biophysical Journal, 2018, 114, 158a. | 0.5 | 0         |