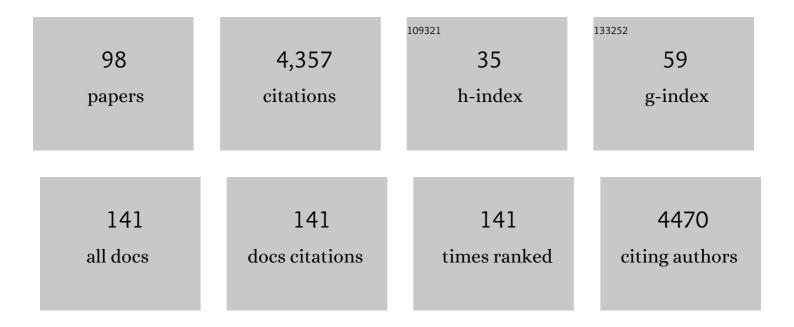
List of Publications by Year in descending order

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KIDSTEN LUNC

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Translation Elongation Factor EF-P Alleviates Ribosome Stalling at Polyproline Stretches. Science, 2013, 339, 82-85. | 12.6 | 393 |
| 2 | Histidine kinases and response regulators in networks. Current Opinion in Microbiology, 2012, 15, 118-124. | 5.1 | 204 |
| 3 | Distinct XPPX sequence motifs induce ribosome stalling, which is rescued by the translation elongation factor EF-P. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15265-15270. | 7.1 | 167 |
| 4 | The bacterial translation stress response. FEMS Microbiology Reviews, 2014, 38, 1172-1201. | 8.6 | 165 |
| 5 | Heterogeneity in quorum sensingâ€regulated bioluminescence of <i>Vibrio harveyi</i> . Molecular Microbiology, 2009, 73, 267-277. | 2.5 | 141 |
| 6 | Arginine-rhamnosylation as new strategy to activate translation elongation factor P. Nature Chemical Biology, 2015, 11, 266-270. | 8.0 | 116 |
| 7 | The membraneâ€integrated transcriptional activator CadC of <i>Escherichia coli</i> senses lysine indirectly via the interaction with the lysine permease LysP. Molecular Microbiology, 2008, 67, 570-583. | 2.5 | 105 |
| 8 | Stimulation of the potassium sensor KdpD kinase activity by interaction with the phosphotransferase protein IIA ^{Ntr} in <i>Escherichia coli</i> . Molecular Microbiology, 2009, 72, 978-994. | 2.5 | 98 |
| 9 | Binding of Cyclic Di-AMP to the Staphylococcus aureus Sensor Kinase KdpD Occurs via the Universal Stress Protein Domain and Downregulates the Expression of the Kdp Potassium Transporter. Journal of Bacteriology, 2016, 198, 98-110. | 2.2 | 97 |
| 10 | Purification, Reconstitution, and Characterization of KdpD, the Turgor Sensor of Escherichia coli. Journal of Biological Chemistry, 1997, 272, 10847-10852. | 3.4 | 90 |
| 11 | Translational stalling at polyproline stretches is modulated by the sequence context upstream of the stall site. Nucleic Acids Research, 2014, 42, 10711-10719. | 14.5 | 88 |
| 12 | Phage-mediated Dispersal of Biofilm and Distribution of Bacterial Virulence Genes Is Induced by Quorum Sensing. PLoS Pathogens, 2015, 11, e1004653. | 4.7 | 77 |
| 13 | CadC-Mediated Activation of the <i>cadBA</i> Promoter in <i>Escherichia coli</i> . Journal of Molecular Microbiology and Biotechnology, 2005, 10, 26-39. | 1.0 | 76 |
| 14 | A Sensory Complex Consisting of an ATP-binding Cassette Transporter and a Two-component Regulatory System Controls Bacitracin Resistance in Bacillus subtilis. Journal of Biological Chemistry, 2014, 289, 27899-27910. | 3.4 | 73 |
| 15 | Outer Membrane Vesicles Facilitate Trafficking of the Hydrophobic Signaling Molecule CAI-1 between Vibrio harveyi Cells. Journal of Bacteriology, 2018, 200, . | 2.2 | 73 |
| 16 | The complexity of the â€~̃simple' two-component system KdpD/KdpE in <i>Escherichia coli</i> . FEMS Microbiology Letters, 2010, 304, 97-106. | 1.8 | 71 |
| 17 | Stall no more at polyproline stretches with the translation elongation factors EFâ€₽ and IFâ€5A. Molecular Microbiology, 2016, 99, 219-235. | 2.5 | 70 |
| 18 | The Universal Stress Protein UspC Scaffolds the KdpD/KdpE Signaling Cascade of Escherichia coli under Salt Stress. Journal of Molecular Biology, 2009, 386, 134-148. | 4.2 | 69 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | The regulatory interplay between membraneâ€integrated sensors and transport proteins in bacteria. Molecular Microbiology, 2009, 73, 982-991. | 2.5 | 67 |
| 20 | In vitro interaction network of a synthetic gut bacterial community. ISME Journal, 2022, 16, 1095-1109. | 9.8 | 66 |
| 21 | Simple generation of site-directed point mutations in the Escherichia coli chromosome using Red®/ET® Recombination. Microbial Cell Factories, 2008, 7, 14. | 4.0 | 63 |
| 22 | Induction Kinetics of a Conditional pH Stress Response System in Escherichia coli. Journal of Molecular Biology, 2009, 393, 272-286. | 4.2 | 62 |
| 23 | K+ and Ionic Strength Directly Influence the Autophosphorylation Activity of the Putative Turgor Sensor KdpD ofEscherichia coli. Journal of Biological Chemistry, 2000, 275, 40142-40147. | 3.4 | 61 |
| 24 | Autoinducers Act as Biological Timers in Vibrio harveyi. PLoS ONE, 2012, 7, e48310. | 2.5 | 57 |
| 25 | New Insights into the Signaling Mechanism of the pH-responsive, Membrane-integrated Transcriptional Activator CadC of Escherichia coli. Journal of Biological Chemistry, 2011, 286, 10681-10689. | 3.4 | 56 |
| 26 | Photorhabdus luminescens genes induced upon insect infection. BMC Genomics, 2008, 9, 229. | 2.8 | 48 |
| 27 | Single Cell Kinetics of Phenotypic Switching in the Arabinose Utilization System of E. coli. PLoS ONE, 2014, 9, e89532. | 2.5 | 48 |
| 28 | The Phosphorylation Flow of the Vibrio harveyi Quorum-Sensing Cascade Determines Levels of Phenotypic Heterogeneity in the Population. Journal of Bacteriology, 2015, 197, 1747-1756. | 2.2 | 46 |
| 29 | Structure-function analysis of the DNA-binding domain of a transmembrane transcriptional activator. Scientific Reports, 2017, 7, 1051. | 3.3 | 46 |
| 30 | Truncation of Amino Acids 12–128 Causes Deregulation of the Phosphatase Activity of the Sensor Kinase KdpD of Escherichia coli. Journal of Biological Chemistry, 1998, 273, 17406-17410. | 3.4 | 43 |
| 31 | Bacterial transmembrane signalling systems and their engineering for biosensing. Open Biology, 2018, 8, 180023. | 3.6 | 43 |
| 32 | First Insights into the Unexplored Two-Component System YehU/YehT in Escherichia coli. Journal of Bacteriology, 2012, 194, 4272-4284. | 2.2 | 41 |
| 33 | A Conserved Proline Triplet in Val-tRNA Synthetase and the Origin of Elongation Factor P. Cell Reports, 2014, 9, 476-483. | 6.4 | 41 |
| 34 | Identification of a Target Gene and Activating Stimulus for the YpdA/YpdB Histidine Kinase/Response Regulator System in Escherichia coli. Journal of Bacteriology, 2013, 195, 807-815. | 2.2 | 40 |
| 35 | Production of Siderophores Increases Resistance to Fusaric Acid in Pseudomonas protegens Pf-5. PLoS ONE, 2015, 10, e0117040. | 2.5 | 40 |
| 36 | Cs + Induces the kdp Operon of Escherichia coli by Lowering the Intracellular K + Concentration. Journal of Bacteriology, 2001, 183, 3800-3803. | 2.2 | 39 |

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|----|---|-----|-----------|
| 37 | Importance of Pyruvate Sensing and Transport for the Resuscitation of Viable but Nonculturable <i>Escherichia coli</i> K-12. Journal of Bacteriology, 2019, 201, . | 2.2 | 39 |
| 38 | Identification of a Novel Nutrient-Sensing Histidine Kinase/Response Regulator Network in Escherichia coli. Journal of Bacteriology, 2014, 196, 2023-2029. | 2.2 | 38 |
| 39 | Deactivation of the E. coli pH Stress Sensor CadC by Cadaverine. Journal of Molecular Biology, 2012, 424, 15-27. | 4.2 | 37 |
| 40 | K+ Stimulates Specifically the Autokinase Activity of Purified and Reconstituted EnvZ of Escherichia coli. Journal of Biological Chemistry, 2001, 276, 40896-40902. | 3.4 | 36 |
| 41 | Identification of a High-Affinity Pyruvate Receptor in Escherichia coli. Scientific Reports, 2017, 7, 1388. | 3.3 | 36 |
| 42 | BtsT, a Novel and Specific Pyruvate/H ⁺ Symporter in Escherichia coli. Journal of Bacteriology, 2018, 200, . | 2.2 | 36 |
| 43 | Structural and Functional Analysis of the Signal-Transducing Linker in the pH-Responsive One-Component System CadC of Escherichia coli. Journal of Molecular Biology, 2015, 427, 2548-2561. | 4.2 | 35 |
| 44 | Novel volatiles of skin-borne bacteria inhibit the growth of Gram-positive bacteria and affect quorum-sensing controlled phenotypes of Gram-negative bacteria. Systematic and Applied Microbiology, 2016, 39, 503-515. | 2.8 | 35 |
| 45 | New Insights into the Interplay Between the Lysine Transporter LysP and the pH Sensor CadC in Escherichia Coli. Journal of Molecular Biology, 2014, 426, 215-229. | 4.2 | 34 |
| 46 | The N-terminal Input Domain of the Sensor Kinase KdpD of Escherichia coli Stabilizes the Interaction between the Cognate Response Regulator KdpE and the Corresponding DNA-binding Site. Journal of Biological Chemistry, 2003, 278, 51277-51284. | 3.4 | 33 |
| 47 | A Dual-Sensing Receptor Confers Robust Cellular Homeostasis. Cell Reports, 2016, 16, 213-221. | 6.4 | 32 |
| 48 | The Hydrophilic N-terminal Domain Complements the Membrane-anchored C-terminal Domain of the Sensor Kinase KdpD ofEscherichia coli. Journal of Biological Chemistry, 2000, 275, 17080-17085. | 3.4 | 31 |
| 49 | A comprehensive toolbox for the rapid construction of lacZ fusion reporters. Journal of Microbiological Methods, 2012, 91, 537-543. | 1.6 | 31 |
| 50 | Evolutionary analysis of polyproline motifs in Escherichia coli reveals their regulatory role in translation. PLoS Computational Biology, 2018, 14, e1005987. | 3.2 | 31 |
| 51 | Resolving the α-glycosidic linkage of arginine-rhamnosylated translation elongation factor P triggers generation of the first Arg ^{Rha} specific antibody. Chemical Science, 2016, 7, 6995-7001. | 7.4 | 30 |
| 52 | The turgor sensor KdpD of Escherichia coli is a homodimer. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1415, 114-124. | 2.6 | 29 |
| 53 | Individual Substitutions of Clustered Arginine Residues of the Sensor Kinase KdpD of Escherichia coli Modulate the Ratio of Kinase to Phosphatase Activity. Journal of Biological Chemistry, 1998, 273, 26415-26420. | 3.4 | 29 |
| 54 | Quantification of Interaction Strengths between Chaperones and Tetratricopeptide Repeat Domain-containing Membrane Proteins. Journal of Biological Chemistry, 2013, 288, 30614-30625. | 3.4 | 28 |

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|----|---|------|-----------|
| 55 | CipA and CipB as Scaffolds To Organize Proteins into Crystalline Inclusions. ACS Synthetic Biology, 2017, 6, 826-836. | 3.8 | 28 |
| 56 | Crystal structure of the sensory domain of <i>Escherichia coli</i> CadC, a member of the ToxRâ€like protein family. Protein Science, 2011, 20, 656-669. | 7.6 | 26 |
| 57 | Identification and Initial Characterization of Prophages in Vibrio campbellii. PLoS ONE, 2016, 11, e0156010. | 2.5 | 26 |
| 58 | Non anonical activation of histidine kinase KdpD by phosphotransferase protein PtsN through interaction with the transmitter domain. Molecular Microbiology, 2017, 106, 54-73. | 2.5 | 26 |
| 59 | A Single-Cell View of the BtsSR/YpdAB Pyruvate Sensing Network in Escherichia coli and Its Biological Relevance. Journal of Bacteriology, 2018, 200, . | 2.2 | 25 |
| 60 | Revisiting regulation of potassium homeostasis in <i>Escherichia coli</i> : the connection to phosphate limitation. MicrobiologyOpen, 2017, 6, e00438. | 3.0 | 24 |
| 61 | Structural Basis for EarP-Mediated Arginine Glycosylation of Translation Elongation Factor EF-P. MBio, 2017, 8, . | 4.1 | 24 |
| 62 | A Modular View of the Diversity of Cell-Density-Encoding Schemes in Bacterial Quorum-Sensing Systems. Biophysical Journal, 2014, 107, 266-277. | 0.5 | 22 |
| 63 | A Versatile Toolbox for the Control of Protein Levels Using <i>N</i> ^ε -Acetyl- <scp>I</scp> -lysine Dependent Amber Suppression. ACS Synthetic Biology, 2017, 6, 1892-1902. | 3.8 | 21 |
| 64 | Coming in and Finding Out: Blending Receptorâ€Targeted Delivery and Efficient Endosomal Escape in a Novel Bioâ€Responsive siRNA Delivery System for Gene Knockdown in Pulmonary T Cells. Advanced Therapeutics, 2019, 2, 1900047. | 3.2 | 21 |
| 65 | DNA-binding directs the localization of a membrane-integrated receptor of the ToxR family. Communications Biology, 2019, 2, 4. | 4.4 | 21 |
| 66 | Activity, Abundance, and Localization of Quorum Sensing Receptors in Vibrio harveyi. Frontiers in Microbiology, 2017, 8, 634. | 3.5 | 19 |
| 67 | Comparative analysis of LytS/LytTR-type histidine kinase/response regulator systems in Î ³ -proteobacteria. PLoS ONE, 2017, 12, e0182993. | 2.5 | 18 |
| 68 | Phenotypic heterogeneity of microbial populations under nutrient limitation. Current Opinion in Biotechnology, 2020, 62, 160-167. | 6.6 | 18 |
| 69 | The Extension of the Fourth Transmembrane Helix of the Sensor Kinase KdpD of <i>Escherichia coli</i> Is Involved in Sensing. Journal of Bacteriology, 2007, 189, 7326-7334. | 2.2 | 17 |
| 70 | Fimbrolide Natural Products Disrupt Bioluminescence of <i>Vibrio</i> By Targeting Autoinducer Biosynthesis and Luciferase Activity. Angewandte Chemie - International Edition, 2016, 55, 1187-1191. | 13.8 | 16 |
| 71 | Switching the Post-translational Modification of Translation Elongation Factor EF-P. Frontiers in Microbiology, 2019, 10, 1148. | 3.5 | 16 |
| 72 | Function and Regulation of the Pyruvate Transporter CstA in Escherichia coli. International Journal of Molecular Sciences, 2020, 21, 9068. | 4.1 | 16 |

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| 73 | Deciphering the role of the type II glyoxalase isoenzyme YcbL (GlxII-2) in Escherichia coli. FEMS Microbiology Letters, 2015, 362, 1-7. | 1.8 | 15 |
| 74 | Interaction Analysis of a Two-Component System Using Nanodiscs. PLoS ONE, 2016, 11, e0149187. | 2.5 | 15 |
| 75 | Phosphorylation of the outer membrane mitochondrial protein OM64 influences protein import into mitochondria. Mitochondrion, 2019, 44, 93-102. | 3.4 | 15 |
| 76 | Domain swapping reveals that the N-terminal domain of the sensor kinase KdpD in Escherichia coli is important for signaling. BMC Microbiology, 2009, 9, 133. | 3.3 | 14 |
| 77 | Insights into the DNA-binding mechanism of a LytTR-type transcription regulator. Bioscience Reports, 2016, 36, . | 2.4 | 14 |
| 78 | Molecular Design of a Signaling System Influences Noise in Protein Abundance under Acid Stress in Different Gammaproteobacteria. Journal of Bacteriology, 2020, 202, . | 2.2 | 14 |
| 79 | Division of labor and collective functionality in Escherichia coli under acid stress. Communications Biology, 2022, 5, 327. | 4.4 | 14 |
| 80 | Evidence of Cross-Regulation in Two Closely Related Pyruvate-Sensing Systems in Uropathogenic Escherichia coli. Journal of Membrane Biology, 2018, 251, 65-74. | 2.1 | 13 |
| 81 | Optimization of sample preparation and green color imaging using the mNeonGreen fluorescent protein in bacterial cells for photoactivated localization microscopy. Scientific Reports, 2018, 8, 10137. | 3.3 | 13 |
| 82 | Proline codon pair selection determines ribosome pausing strength and translation efficiency in bacteria. Communications Biology, 2021, 4, 589. | 4.4 | 13 |
| 83 | Dynamics of an Interactive Network Composed of a Bacterial Two-Component System, a Transporter and K+ as Mediator. PLoS ONE, 2014, 9, e89671. | 2.5 | 12 |
| 84 | LACTATEing Salmonella: A Host-Derived Fermentation Product Fuels Pathogen Growth. Cell Host and Microbe, 2018, 23, 3-4. | 11.0 | 11 |
| 85 | Structure and Function of an Elongation Factor P Subfamily in Actinobacteria. Cell Reports, 2020, 30, 4332-4342.e5. | 6.4 | 11 |
| 86 | Transcriptional regulation of the <i>N</i> _ε â€fructoselysine metabolism in <i>Escherichia coli</i> by global and substrateâ€specific cues. Molecular Microbiology, 2021, 115, 175-190. | 2.5 | 10 |
| 87 | The role of polyproline motifs in the histidine kinase EnvZ. PLoS ONE, 2018, 13, e0199782. | 2.5 | 9 |
| 88 | Phenotypic Heterogeneity Generated by Histidine Kinase-Based Signaling Networks. Journal of Molecular Biology, 2019, 431, 4547-4558. | 4.2 | 8 |
| 89 | MS-Based <i>in Situ</i> Proteomics Reveals AMPylation of Host Proteins during Bacterial Infection. ACS Infectious Diseases, 2020, 6, 3277-3289. | 3.8 | 7 |
| 90 | Direct binding of benzoate derivatives to two chemoreceptors with Cache sensor domains in Halomonas titanicae KHS3. Molecular Microbiology, 2021, 115, 672-683. | 2.5 | 7 |

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| 91 | Dynamics of chromosomal target search by a membrane-integrated one-component receptor. PLoS Computational Biology, 2021, 17, e1008680. | 3.2 | 7 |
| 92 | A New Mechanism of Phosphoregulation in Signal Transduction Pathways. Science Signaling, 2009, 2, pe71. | 3.6 | 6 |
| 93 | Eukaryotic catecholamine hormones influence the chemotactic control of <i>Vibrio campbellii</i> by binding to the coupling protein CheW. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118227119. | 7.1 | 6 |
| 94 | Synthetic postâ€ŧranslational modifications of elongation factor P using the ligase EpmA. FEBS Journal, 2021, 288, 663-677. | 4.7 | 5 |
| 95 | Tuning communication fidelity. Nature Chemical Biology, 2011, 7, 502-503. | 8.0 | 4 |
| 96 | Elongation factor P is required for EII Glc translation in Corynebacterium glutamicum due to an essential polyproline motif. Molecular Microbiology, 2021, 115, 320-331. | 2.5 | 4 |
| 97 | Insights into a Pyruvate Sensing and Uptake System in Vibrio campbellii and Its Importance for Virulence. Journal of Bacteriology, 2021, 203, e0029621. | 2.2 | 4 |
| 98 | Mechanistic analysis of aliphatic β-lactones in Vibrio harveyi reveals a quorum sensing independent mode of action. Chemical Communications, 2016, 52, 11971-11974. | 4.1 | 2 |