<i>Modus operandi</i> of the bacterial RNA polymerase promoterâ€specificity factor

Molecular Microbiology 68, 538-546 DOI: 10.1111/j.1365-2958.2008.06181.x

Citation Report

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Water balance of small lactating rodents ?III. Estimates of milk production and water recycling in lactating Mus musculus under various water regimes. Journal of Mathematical Biology, 1981, 13, 1-22. | 1.9 | 6 |
| 2 | Milk production and consumption and growth of young of wild mice after ten generations in a cold environment Journal of Physiology, 1984, 346, 409-417. | 2.9 | 23 |
| 3 | Changes in milk composition during lactation in three species of insectivorous bats. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1995, 164, 543-51. | 1.5 | 46 |
| 4 | A smallâ€RNAâ€mediated negative feedback loop controls quorumâ€sensing dynamics in <i>Vibrio harveyi</i> . Molecular Microbiology, 2008, 70, 896-907. | 2.5 | 68 |
| 5 | σ54-Promoter Discrimination and Regulation by ppGpp and DksA*. Journal of Biological Chemistry, 2009, 284, 828-838. | 3.4 | 30 |
| 6 | NtrC-Dependent Regulatory Network for Nitrogen Assimilation in <i>Pseudomonas putida</i> . Journal of Bacteriology, 2009, 191, 6123-6135. | 2.2 | 70 |
| 7 | DNA melting by RNA polymerase at the T7A1 promoter precedes the rate-limiting step at 37ŰC and results in the accumulation of an off-pathway intermediate. Nucleic Acids Research, 2009, 37, 5390-5404. | 14.5 | 31 |
| 8 | Functional roles of the preâ€sensor I insertion sequence in an AAA+ bacterial enhancer binding protein. Molecular Microbiology, 2009, 73, 519-533. | 2.5 | 13 |
| 9 | Activation and repression of a σ ^N â€dependent promoter naturally lacking upstream activation sequences. Molecular Microbiology, 2009, 73, 419-433. | 2.5 | 20 |
| 10 | Physical, functional and conditional interactions between ArcAB and phage shock proteins upon secretinâ€induced stress in <i>Escherichia coli</i> . Molecular Microbiology, 2009, 74, 16-28. | 2.5 | 36 |
| 11 | Dual control by perfectly overlapping Ïf ⁵⁴ ―and Ïf ⁷⁰ â€promoters adjusts small RNA GlmY expression to different environmental signals. Molecular Microbiology, 2009, 74, 1054-1070. | 2.5 | 54 |
| 12 | Involvement of MmoR and MmoG in the transcriptional activation of soluble methane monooxygenase genes in <i>Methylosinus trichosporium</i> OB3b. FEMS Microbiology Letters, 2009, 301, 181-187. | 1.8 | 22 |
| 13 | Role of conserved cysteine residues in Herbaspirillum seropedicae NifA activity. Research in Microbiology, 2009, 160, 389-395. | 2.1 | 13 |
| 14 | RNA polymerase: A nexus of gene regulation. Methods, 2009, 47, 1-5. | 3.8 | 22 |
| 15 | Coupling Ïf Factor Conformation to RNA Polymerase Reorganisation for DNA Melting. Journal of Molecular Biology, 2009, 387, 306-319. | 4.2 | 15 |
| 16 | Mechanisms for activating bacterial RNA polymerase. FEMS Microbiology Reviews, 2010, 34, 611-627. | 8.6 | 66 |
| 17 | Regulation of glutamate dehydrogenase expression in <i>Pseudomonas putida</i> results from its direct repression by NtrC under nitrogenâ€imiting conditions. Molecular Microbiology, 2010, 78, 305-319. | 2.5 | 33 |
| 18 | Properties of the phage-shock-protein (Psp) regulatory complex that govern signal transduction and induction of the Psp response in Escherichia coli. Microbiology (United Kingdom), 2010, 156, 2920-2932. | 1.8 | 35 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Control of Flagellar Gene Regulation in <i>Legionella pneumophila</i> and Its Relation to Growth Phase. Journal of Bacteriology, 2010, 192, 446-455. | 2.2 | 80 |
| 20 | Nooks and Crannies in Type VI Secretion Regulation. Journal of Bacteriology, 2010, 192, 3850-3860. | 2.2 | 146 |
| 21 | Transcriptional Control of the TOL Plasmid Pathways. , 2010, , 1127-1140. | | 1 |
| 22 | Gene Expression, Bacteria Viability and Survivability Following Spray Drying of Mycobacterium smegmatis. Materials, 2010, 3, 2684-2724. | 2.9 | 4 |
| 23 | Novel plasmid-based genetic tools for the study of promoters and terminators in Streptococcus pneumoniae and Enterococcus faecalis. Journal of Microbiological Methods, 2010, 83, 156-163. | 1.6 | 43 |
| 24 | Genome-wide survey for PilR recognition sites of the metal-reducing prokaryote Geobacter sulfurreducens. Gene, 2010, 469, 31-44. | 2.2 | 23 |
| 25 | Transcriptional Regulation by Nucleoid-Associated Proteins at Complex Promoters in Escherichia coli. , 2010, , 419-443. | | 1 |
| 26 | T7 phage protein Gp2 inhibits the <i>Escherichia coli</i> RNA polymerase by antagonizing stable DNA strand separation near the transcription start site. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2247-2252. | 7.1 | 61 |
| 27 | Gene Regulation in <i>Borrelia burgdorferi</i> . Annual Review of Microbiology, 2011, 65, 479-499. | 7.3 | 194 |
| 28 | Mechanism of Bacterial Transcription Initiation: RNA Polymerase - Promoter Binding, Isomerization to Initiation-Competent Open Complexes, and Initiation of RNA Synthesis. Journal of Molecular Biology, 2011, 412, 754-771. | 4.2 | 284 |
| 29 | Inhibition of Escherichia coli RNAp by T7 Gp2 Protein: Role of Negatively Charged Strip of Amino Acid Residues in Gp2. Journal of Molecular Biology, 2011, 407, 623-632. | 4.2 | 10 |
| 30 | Reprint of: Inhibition of Escherichia coli RNAp by T7 Gp2 protein: Role of Negatively Charged Strip of Amino Acid Residues in Gp2. Journal of Molecular Biology, 2011, 412, 832-841. | 4.2 | 3 |
| 31 | Signal sensory systems that impact σ ⁵⁴ -dependent transcription. FEMS Microbiology Reviews, 2011, 35, 425-440. | 8.6 | 75 |
| 32 | Evolution of multisubunit RNA polymerases in the three domains of life. Nature Reviews Microbiology, 2011, 9, 85-98. | 28.6 | 375 |
| 33 | Dissipation of Proton Motive Force is not Sufficient to Induce the Phage Shock Protein Response in Escherichia coli. Current Microbiology, 2011, 62, 1374-1385. | 2.2 | 33 |
| 34 | Comparative analyses imply that the enigmatic sigma factor 54 is a central controller of the bacterial exterior. BMC Genomics, 2011, 12, 385. | 2.8 | 93 |
| 35 | Common and divergent features in transcriptional control of the homologous small RNAs GlmY and GlmZ in Enterobacteriaceae. Nucleic Acids Research, 2011, 39, 1294-1309. | 14.5 | 51 |
| 36 | Regulation of Type VI Secretion Gene Clusters by $I_f < sup > 54 < /sup > and Cognate Enhancer Binding Proteins. Journal of Bacteriology, 2011, 193, 2158-2167.$ | 2.2 | 75 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | BosR (BB0647) Controls the RpoN-RpoS Regulatory Pathway and Virulence Expression in Borrelia burgdorferi by a Novel DNA-Binding Mechanism. PLoS Pathogens, 2011, 7, e1001272. | 4.7 | 102 |
| 38 | The Evolution of the Phage Shock Protein Response System: Interplay between Protein Function, Genomic Organization, and System Function. Molecular Biology and Evolution, 2011, 28, 1141-1155. | 8.9 | 56 |
| 39 | Autoregulation of the Synthesis of the MobM Relaxase Encoded by the Promiscuous Plasmid pMV158. Journal of Bacteriology, 2012, 194, 1789-1799. | 2.2 | 13 |
| 40 | A dual switch controls bacterial enhancer-dependent transcription. Nucleic Acids Research, 2012, 40, 10878-10892. | 14.5 | 6 |
| 41 | Insights from the architecture of the bacterial transcription apparatus. Journal of Structural Biology, 2012, 179, 299-319. | 2.8 | 46 |
| 42 | Phenotypic and transcriptomic analyses of Sigma L-dependent characteristics in Listeria monocytogenes EGD-e. Food Microbiology, 2012, 32, 152-164. | 4.2 | 43 |
| 43 | The Role of Bacterial Enhancer Binding Proteins as Specialized Activators of σ ⁵⁴ -Dependent Transcription. Microbiology and Molecular Biology Reviews, 2012, 76, 497-529. | 6.6 | 277 |
| 44 | Mechanism of Transcription Initiation at an Activator-Dependent Promoter Defined by Single-Molecule Observation. Cell, 2012, 148, 679-689. | 28.9 | 128 |
| 45 | CoSMoS Unravels Mysteries of Transcription Initiation. Cell, 2012, 148, 635-637. | 28.9 | 9 |
| 46 | Identification of Multicomponent Histidine-Aspartate Phosphorelay System Controlling Flagellar and Motility Gene Expression in Geobacter Species. Journal of Biological Chemistry, 2012, 287, 10958-10966. | 3.4 | 20 |
| 47 | Nitrogen fixation control in Herbaspirillum seropedicae. Plant and Soil, 2012, 356, 197-207. | 3.7 | 44 |
| 48 | Quorum sensing and alternative sigma factor RpoN regulate type VI secretion system I (T6SSVA1) in fish pathogen Vibrio alginolyticus. Archives of Microbiology, 2012, 194, 379-390. | 2.2 | 37 |
| 49 | Coupling AAA protein function to regulated gene expression. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 108-116. | 4.1 | 32 |
| 50 | Prokaryotic Redox Switches. , 2013, , 233-276. | | 2 |
| 51 | Expanding the Boolean Logic of the Prokaryotic Transcription Factor XylR by Functionalization of Permissive Sites with a Protease-Target Sequence. ACS Synthetic Biology, 2013, 2, 594-603. | 3.8 | 16 |
| 52 | Use of a promiscuous, constitutively-active bacterial enhancer-binding protein to define the σ54 (RpoN) regulon of Salmonella Typhimurium LT2. BMC Genomics, 2013, 14, 602. | 2.8 | 33 |
| 53 | Sigma Factors. , 2013, , 232-235. | | 0 |
| 54 | Structure, function, and tethering of DNAâ€binding domains in Ïf ⁵⁴ transcriptional activators. Biopolymers, 2013, 99, 1082-1096. | 2.4 | 21 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Evidence for selfâ€association of the alternative sigma factor σ ⁵⁴ . FEBS Journal, 2013, 280, 1371-1378. | 4.7 | 0 |
| 56 | Nitrogen and Carbon Status Are Integrated at the Transcriptional Level by the Nitrogen Regulator NtrC <i>In Vivo</i> . MBio, 2013, 4, e00881-13. | 4.1 | 66 |
| 57 | The syp Enhancer Sequence Plays a Key Role in Transcriptional Activation by the Â54-Dependent Response Regulator SypG and in Biofilm Formation and Host Colonization by Vibrio fischeri. Journal of Bacteriology, 2013, 195, 5402-5412. | 2.2 | 24 |
| 58 | Manganese and Zinc Regulate Virulence Determinants in Borrelia burgdorferi. Infection and Immunity, 2013, 81, 2743-2752. | 2.2 | 39 |
| 59 | Transcriptional activation of the <scp>CrcZ</scp> and <scp>CrcY</scp> regulatory <scp>RNAs</scp> by the <scp>CbrB</scp> response regulator in <i><scp>P</scp>seudomonas putida</i> . Molecular Microbiology, 2013, 89, 189-205. | 2.5 | 40 |
| 60 | RNA polymerase approaches its promoter without long-range sliding along DNA. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9740-9745. | 7.1 | 60 |
| 61 | Synthesis of RpoS Is Dependent on a Putative Enhancer Binding Protein Rrp2 in Borrelia burgdorferi. PLoS ONE, 2014, 9, e96917. | 2.5 | 19 |
| 62 | Regulation by Alternative Sigma Factors. , 0, , 31-43. | | 7 |
| 63 | Transcription of the Lysine-2,3-Aminomutase Gene in the <i>kam</i> Locus of Bacillus thuringiensis subsp. kurstaki HD73 Is Controlled by Both Ïf ⁵⁴ and Ïf ^K Factors. Journal of Bacteriology, 2014, 196, 2934-2943. | 2.2 | 12 |
| 64 | iPro54-PseKNC: a sequence-based predictor for identifying sigma-54 promoters in prokaryote with pseudo k-tuple nucleotide composition. Nucleic Acids Research, 2014, 42, 12961-12972. | 14.5 | 467 |
| 66 | DNA Recognition by a σ54 Transcriptional Activator from Aquifex aeolicus. Journal of Molecular Biology, 2014, 426, 3553-3568. | 4.2 | 13 |
| 67 | An ArsR/SmtB Family Member Is Involved in the Regulation by Arsenic of the Arsenite Oxidase Operon in Thiomonas arsenitoxydans. Applied and Environmental Microbiology, 2014, 80, 6413-6426. | 3.1 | 24 |
| 68 | Engineering Bacterial Transcription Regulation To Create a Synthetic <i>in Vitro</i> Two-Hybrid System for Protein Interaction Assays. Journal of the American Chemical Society, 2014, 136, 14031-14038. | 13.7 | 16 |
| 69 | Determination of the Self-Association Residues within a Homomeric and a Heteromeric AAA+ Enhancer Binding Protein. Journal of Molecular Biology, 2014, 426, 1692-1710. | 4.2 | 6 |
| 70 | Genome-Scale Mapping of Escherichia coli σ54 Reveals Widespread, Conserved Intragenic Binding. PLoS Genetics, 2015, 11, e1005552. | 3.5 | 52 |
| 71 | Rifampicin-resistance, rpoB polymorphism and RNA polymerase genetic engineering. Journal of Biotechnology, 2015, 202, 60-77. | 3.8 | 82 |
| 72 | Genome wide interactions of wild-type and activator bypass forms of σ54. Nucleic Acids Research, 2015, 43, 7280-7291. | 14.5 | 20 |
| 73 | The RNA ligase RtcB reverses MazF-induced ribosome heterogeneity in <i>Escherichia coli</i> . Nucleic Acids Research, 2017, 45, gkw1018. | 14.5 | 44 |

- ARTICLE IF CITATIONS # Prokaryotic Transcription., 2016,, 468-480. 0 74 Kinetics of transcription initiation directed by multiplecis-regulatory elements on thegInAp2promoter. Nucleic Acids Research, 2016, 44, 10530-10538. 14.5 Mechanism of Antiactivation at the Pseudomonas sp. Strain ADP If < sup > N < /sup > -Dependent P76 3.1 4 <i>atzT</i> Promoter. Applied and Environmental Microbiology, 2016, 82, 4350-4362. The Xp10 Bacteriophage Protein P7 Inhibits Transcription by the Major and Major Variant Forms of the Host RNA Polymerase via a Common Mechanism. Journal of Molecular Biology, 2016, 428, 3911-3919. Pro54DB: a database for experimentally verified sigma-54 promoters. Bioinformatics, 2017, 33, 467-469. 78 4.1 91 Local and global regulation of transcription initiation in bacteria. Nature Reviews Microbiology, 2016, 14, 638-650. 79 28.6 Inflammasome Recognition and Regulation of the Legionella Flagellum. Current Topics in 80 1.1 11 Microbiology and Immunology, 2016, 397, 161-181. Sox transcription in sarcosine utilization is controlled by Sigma54 and SoxR in Bacillus thuringiensis 3.3 HD73. Scientific Reports, 2016, 6, 29141. <scp>PTS</scp> regulation domainâ€containing transcriptional activator Cel<scp>R</scp> and sigma 82 factor If < sup > 54 < / sup > control cellobiose utilization in < scp > <i > C < /i > </ scp > <i > lostridium 2.5 24 acetobutylicum </i>. Molecular Microbiology, 2016, 100, 289-302. Insight into the Dual Functions of Bacterial Enhancer-Binding Protein Rrp2 of Borrelia burgdorferi. 2.2 Journal of Bacteriology, 2016, 198, 1543-1552. Negative Autogenous Control of the Master Type III Secretion System Regulator HrpL in 84 4.1 24 <i>Pseudomonas syringae</i>. MBio, 2017, 8, . Structure and Function of RNA Polymerases and the Transcription Machineries. Sub-Cellular 2.4 Biochemistry, 2017, 83, 225-270. Macromolecular Protein Complexes. Sub-Cellular Biochemistry, 2017, , . 86 2.4 5 Regulation of <i>Escherichia coli</i> Pathogenesis by Alternative Sigma Factor N. EcoSal Plus, 2017, 7, . 87 5.4 24 Novel DNA Binding and Regulatory Activities for if < sup > 54 < /sup > (RpoN) in Salmonella enterica Serovar 88 2.2 16 Typhimurium 14028s. Journal of Bacteriology, 2017, 199, . The EbpA-RpoN Regulatory Pathway of the Pathogen Leptospira interrogans Is Essential for Survival in 3.1 the Environment. Applied and Environmental Microbiology, 2017, 83, . The putative Walker A and Walker <scp>B</scp> motifs of <scp>R</scp>rp2 are required for the 90 2.57 growth of <scp><i>B</i></scp><i>orrelia burgdorferi</i>. Molecular Microbiology, 2017, 103, 86-98. NtrC-dependent control of exopolysaccharide synthesis and motility in Burkholderia cenocepacia
 - H111. PLoS ONE, 2017, 12, e0180362.

| # | Article | IF | Citations |
|-----|---|------|-----------|
| 92 | Engineered CRISPRa enables programmable eukaryote-like gene activation in bacteria. Nature Communications, 2019, 10, 3693. | 12.8 | 90 |
| 93 | Structural analysis of the recognition of the -35 promoter element by SigW from Bacillus subtilis. PLoS ONE, 2019, 14, e0221666. | 2.5 | 5 |
| 94 | Plasmids as Genetic Tools and Their Applications in Ecology and Evolution. , 0, , . | | 6 |
| 95 | Current View of the Mechanisms Controlling the Transcription of the TOL Plasmid Aromatic Degradation Pathways. , 2019, , 573-594. | | 0 |
| 96 | Noise in bacterial gene expression. Biochemical Society Transactions, 2019, 47, 209-217. | 3.4 | 26 |
| 97 | Nitrogen Starvation Induces Persister Cell Formation in Escherichia coli. Journal of Bacteriology, 2019, 201, . | 2.2 | 39 |
| 98 | Redefining fundamental concepts of transcription initiation in bacteria. Nature Reviews Genetics, 2020, 21, 699-714. | 16.3 | 100 |
| 99 | Evolution of Regulated Transcription. Cells, 2020, 9, 1675. | 4.1 | 19 |
| 100 | Bacterial Enhancer Binding Proteins—AAA+ Proteins in Transcription Activation. Biomolecules, 2020, 10, 351. | 4.0 | 27 |
| 101 | A Novel Eukaryoteâ€Like CRISPR Activation Tool in Bacteria: Features and Capabilities. BioEssays, 2020, 42, e1900252. | 2.5 | 6 |
| 102 | Gene Regulation and Transcriptomics. Current Issues in Molecular Biology, 2022, 42, 223-266. | 2.4 | 22 |
| 103 | Transcription Sigma Factors. , 2021, , 379-382. | | 0 |
| 104 | Current View of The Mechanisms Controlling The Transcription of The TOL Plasmid Aromatic Degradation Pathways. , 2017, , 1-22. | | 1 |
| 105 | Current View of The Mechanisms Controlling The Transcription of The TOL Plasmid Aromatic Degradation Pathways. , 2017, , 1-22. | | 1 |
| 108 | Identification and Cross-Characterisation of Artificial Promoters and 5′ Untranslated Regions in Vibrio natriegens. Frontiers in Bioengineering and Biotechnology, 2022, 10, 826142. | 4.1 | 5 |
| 110 | A Role for the RNA Polymerase Gene Specificity Factor Ïf ⁵⁴ in the Uniform Colony Growth of Uropathogenic Escherichia coli. Journal of Bacteriology, 2022, , e0003122. | 2.2 | 0 |
| 112 | Genome-wide promoter assembly in <i>E. coli</i> measured at single-base resolution. Genome Research, 2022, , . | 5.5 | 1 |
| 113 | Prokaryotic Transcription. , 2016, , 592-605. | | 0 |

| # | Article | IF | CITATIONS |
|-----|---|------|-----------|
| 114 | The acetoin assimilation pathway of <scp> <i>Pseudomonas putida</i> KT2440 </scp> is regulated by overlapping global regulatory elements that respond to nutritional cues. Environmental Microbiology, 0, , . | 3.8 | 2 |
| 115 | iProm-Sigma54: A CNN Base Prediction Tool for Ï f 54 Promoters. Cells, 2023, 12, 829. | 4.1 | о |
| 116 | Transcriptional Regulators Controlling Virulence in Pseudomonas aeruginosa. International Journal of Molecular Sciences, 2023, 24, 11895. | 4.1 | 1 |
| 117 | Transcriptional regulation of soluble methane monooxygenase via enhancer-binding protein derived from <i>Methylosinus sporium</i> 5. Applied and Environmental Microbiology, 2023, 89, . | 3.1 | Ο |
| 118 | A Fur family protein BosR is a novel RNA-binding protein that controls <i>rpoS</i> RNA stability in the Lyme disease pathogen. Nucleic Acids Research, 0, , . | 14.5 | 0 |