

A Two-Way Street: Regulatory Interplay between RNA Structure

Trends in Biochemical Sciences

41, 293-310

DOI: [10.1016/j.tibs.2015.12.009](https://doi.org/10.1016/j.tibs.2015.12.009)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Trying on tRNA for Size: RNase P and the T-box Riboswitch as Molecular Rulers. <i>Biomolecules</i> , 2016, 6, 18.	1.8	17
2	Applicability of a computational design approach for synthetic riboswitches. <i>Nucleic Acids Research</i> , 2017, 45, gkw1267.	6.5	52
3	Ribosomal frameshifting and transcriptional slippage: From genetic steganography and cryptography to adventitious use. <i>Nucleic Acids Research</i> , 2016, 44, gkw530.	6.5	238
4	Local and global regulation of transcription initiation in bacteria. <i>Nature Reviews Microbiology</i> , 2016, 14, 638-650.	13.6	401
5	Regulation of transcriptional pausing through the secondary channel of RNA polymerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8699-8704.	3.3	18
6	Non-canonical transcription initiation: the expanding universe of transcription initiating substrates. <i>FEMS Microbiology Reviews</i> , 2016, 41, fuw041.	3.9	20
7	Single-gene dual-color reporter cell line to analyze RNA synthesis in vivo. <i>Methods</i> , 2016, 103, 77-85.	1.9	12
8	RNA modifications and structures cooperate to guide RNA-protein interactions. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 202-210.	16.1	225
9	A link between transcription fidelity and pausing <i>in vivo</i> . <i>Transcription</i> , 2017, 8, 99-105.	1.7	13
10	Gfh factors and NusA cooperate to stimulate transcriptional pausing and termination. <i>FEBS Letters</i> , 2017, 591, 946-953.	1.3	8
11	Conserved functions of the trigger loop and Gre factors in RNA cleavage by bacterial RNA polymerases. <i>Journal of Biological Chemistry</i> , 2017, 292, 6744-6752.	1.6	12
12	Structural basis for λ -N-dependent processive transcription antitermination. <i>Nature Microbiology</i> , 2017, 2, 17062.	5.9	58
13	Molecular envelope and atomic model of an anti-terminated glyQS T-box regulator in complex with tRNAGly. <i>Nucleic Acids Research</i> , 2017, 45, 8079-8090.	6.5	10
14	Modular Organization of the NusA- and NusG-Stimulated RNA Polymerase Pause Signal That Participates in the <i>Bacillus subtilis</i> trp Operon Attenuation Mechanism. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	14
15	Pause & go: from the discovery of RNA polymerase pausing to its functional implications. <i>Current Opinion in Cell Biology</i> , 2017, 46, 72-80.	2.6	113
16	Model-based genome-wide determination of RNA chain elongation rates in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2017, 7, 17213.	1.6	6
17	Direct modulation of T-box riboswitch-controlled transcription by protein synthesis inhibitors. <i>Nucleic Acids Research</i> , 2017, 45, 10242-10258.	6.5	21
18	Distributed biotin-streptavidin transcription roadblocks for mapping cotranscriptional RNA folding. <i>Nucleic Acids Research</i> , 2017, 45, e109-e109.	6.5	38

#	ARTICLE	IF	CITATIONS
19	RNA Polymerase Accommodates a Pause RNA Hairpin by Global Conformational Rearrangements that Prolong Pausing. <i>Molecular Cell</i> , 2018, 69, 802-815.e5.	4.5	152
20	Uneven Braking Spins RNA Polymerase into a Pause. <i>Molecular Cell</i> , 2018, 69, 723-725.	4.5	4
21	Missing the Mark: PRDM9-Dependent Methylation Is Required for Meiotic DSB Targeting. <i>Molecular Cell</i> , 2018, 69, 725-727.	4.5	2
22	The transcription-repair coupling factor Mfd associates with RNA polymerase in the absence of exogenous damage. <i>Nature Communications</i> , 2018, 9, 1570.	5.8	55
23	Cooperative RNA Recognition by a Viral Transcription Antiterminator. <i>Journal of Molecular Biology</i> , 2018, 430, 777-792.	2.0	10
24	Alternative mRNA processing sites decrease genetic variability while increasing functional diversity. <i>Transcription</i> , 2018, 9, 75-87.	1.7	11
25	Locking the nontemplate DNA to control transcription. <i>Molecular Microbiology</i> , 2018, 109, 445-457.	1.2	16
26	Ligand Modulates Cross-Coupling between Riboswitch Folding and Transcriptional Pausing. <i>Molecular Cell</i> , 2018, 72, 541-552.e6.	4.5	48
27	Reading of the non-template DNA by transcription elongation factors. <i>Molecular Microbiology</i> , 2018, 109, 417-421.	1.2	2
28	Pause sequences facilitate entry into long-lived paused states by reducing RNA polymerase transcription rates. <i>Nature Communications</i> , 2018, 9, 2930.	5.8	42
29	RNA-binding proteins in bacteria. <i>Nature Reviews Microbiology</i> , 2018, 16, 601-615.	13.6	200
30	Systems NMR: single-sample quantification of RNA, proteins and metabolites for biomolecular network analysis. <i>Nature Methods</i> , 2019, 16, 743-749.	9.0	17
31	Mechanisms of Transcriptional Pausing in Bacteria. <i>Journal of Molecular Biology</i> , 2019, 431, 4007-4029.	2.0	70
32	Transcription of Bacterial Chromatin. <i>Journal of Molecular Biology</i> , 2019, 431, 4040-4066.	2.0	51
33	How RNA structure dictates the usage of a critical exon of spinal muscular atrophy gene. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2019, 1862, 194403.	0.9	27
34	Full-length RNA profiling reveals pervasive bidirectional transcription terminators in bacteria. <i>Nature Microbiology</i> , 2019, 4, 1907-1918.	5.9	87
35	mTERF5 Acts as a Transcriptional Pausing Factor to Positively Regulate Transcription of Chloroplast psbEFLJ. <i>Molecular Plant</i> , 2019, 12, 1259-1277.	3.9	53
36	Key Concepts and Challenges in Archaeal Transcription. <i>Journal of Molecular Biology</i> , 2019, 431, 4184-4201.	2.0	35

#	ARTICLE	IF	CITATIONS
37	Exploiting phage strategies to modulate bacterial transcription. <i>Transcription</i> , 2019, 10, 222-230.	1.7	6
38	Human <i>Survival Motor Neuron</i> genes generate a vast repertoire of circular RNAs. <i>Nucleic Acids Research</i> , 2019, 47, 2884-2905.	6.5	61
39	Effects of Refolding on Large-Scale RNA Structure. <i>Biochemistry</i> , 2019, 58, 3069-3077.	1.2	10
40	Satellite DNA-containing gigantic introns in a unique gene expression program during <i>Drosophila</i> spermatogenesis. <i>PLoS Genetics</i> , 2019, 15, e1008028.	1.5	43
41	Role of a hairpin-stabilized pause in the <i>Escherichia coli</i> thiC riboswitch function. <i>RNA Biology</i> , 2019, 16, 1066-1073.	1.5	14
42	P-TEFb Regulates Transcriptional Activation in Non-coding RNA Genes. <i>Frontiers in Genetics</i> , 2019, 10, 342.	1.1	12
43	Structural basis for the function of SuhB as a transcription factor in ribosomal RNA synthesis. <i>Nucleic Acids Research</i> , 2019, 47, 6488-6503.	6.5	15
44	RNA structure maps across mammalian cellular compartments. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 322-330.	3.6	183
45	RNA polymerase pausing at a protein roadblock can enhance transcriptional interference by promoter occlusion. <i>FEBS Letters</i> , 2019, 593, 903-917.	1.3	5
46	Tracking RNA structures as RNAs transit through the cell. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 256-257.	3.6	3
47	Structural Basis for the Action of an All-Purpose Transcription Anti-termination Factor. <i>Molecular Cell</i> , 2019, 74, 143-157.e5.	4.5	86
48	Transcription Increases the Cooperativity of Ribonucleoprotein Assembly. <i>Cell</i> , 2019, 179, 1370-1381.e12.	13.5	56
49	A ligand-gated strand displacement mechanism for ZTP riboswitch transcription control. <i>Nature Chemical Biology</i> , 2019, 15, 1067-1076.	3.9	47
50	Kinetics coming into focus: single-molecule microscopy of riboswitch dynamics. <i>RNA Biology</i> , 2019, 16, 1077-1085.	1.5	25
51	The Biogenesis of SRP RNA Is Modulated by an RNA Folding Intermediate Attained during Transcription. <i>Molecular Cell</i> , 2020, 77, 241-250.e8.	4.5	19
52	Antitermination protein P7 of bacteriophage Xp10 distinguishes different types of transcriptional pausing by bacterial RNA polymerase. <i>Biochimie</i> , 2020, 170, 57-64.	1.3	0
53	NusG-dependent RNA polymerase pausing is a frequent function of this universally conserved transcription elongation factor. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2020, 55, 716-728.	2.3	18
54	Unboxing the T-box riboswitches: A glimpse into multivalent and multimodal RNA-RNA interactions. <i>Wiley Interdisciplinary Reviews RNA</i> , 2020, 11, e1600.	3.2	23

#	ARTICLE	IF	CITATIONS
55	Nanomolar Responsiveness of an Anaerobic Degradation Specialist to Alkylphenol Pollutants. <i>Journal of Bacteriology</i> , 2020, 202, .	1.0	10
56	Causes and consequences of RNA polymerase II stalling during transcript elongation. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 3-21.	16.1	119
58	Nascent RNA sequencing identifies a widespread sigma70-dependent pausing regulated by Gre factors in bacteria. <i>Nature Communications</i> , 2021, 12, 906.	5.8	11
60	Alternative RNA structures formed during transcription depend on elongation rate and modify RNA processing. <i>Molecular Cell</i> , 2021, 81, 1789-1801.e5.	4.5	54
61	A roadmap for rRNA folding and assembly during transcription. <i>Trends in Biochemical Sciences</i> , 2021, 46, 889-901.	3.7	32
62	A NusG Specialized Paralog That Exhibits Specific, High-Affinity RNA-Binding Activity. <i>Journal of Molecular Biology</i> , 2021, 433, 167100.	2.0	1
63	Preparation of E.Âcoli RNA polymerase transcription elongation complexes by selective photoelution from magnetic beads. <i>Journal of Biological Chemistry</i> , 2021, 297, 100812.	1.6	12
64	Transcriptional Pausing as a Mediator of Bacterial Gene Regulation. <i>Annual Review of Microbiology</i> , 2021, 75, 291-314.	2.9	34
65	Obligate movements of an active siteâ€linked surface domain control RNA polymerase elongation and pausing via a Phe pocket anchor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
66	Nucleoid-associated proteins shape chromatin structure and transcriptional regulation across the bacterial kingdom. <i>Transcription</i> , 2021, 12, 182-218.	1.7	30
67	Transcription RNA Polymerase Structure, Bacterial. , 2021, , 365-378.		0
68	Specific structural elements of the T-box riboswitch drive the two-step binding of the tRNA ligand. <i>ELife</i> , 2018, 7, .	2.8	24
69	The elemental mechanism of transcriptional pausing. <i>ELife</i> , 2019, 8, .	2.8	58
71	Molecular Mechanisms of an All-Purpose Transcription Anti-Termination Factor. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
80	Transcription complexes as RNA chaperones. <i>Transcription</i> , 2021, 12, 126-155.	1.7	4
81	Monitoring RNA dynamics in native transcriptional complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
83	Dynamic competition between a ligand and transcription factor NusA governs riboswitch-mediated transcription regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	20
85	Transcriptome-Wide Effects of NusA on RNA Polymerase Pausing in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2022, 204, e0053421.	1.0	9

#	ARTICLE	IF	CITATIONS
86	Roles of zinc-binding domain of bacterial RNA polymerase in transcription. Trends in Biochemical Sciences, 2022, 47, 710-724.	3.7	9
87	Purification of synchronized Escherichia coli transcription elongation complexes by reversible immobilization on magnetic beads. Journal of Biological Chemistry, 2022, 298, 101789.	1.6	3
88	Relationship between the Chromosome Structural Dynamics and Gene Expressionâ€”A Chicken and Egg Dilemma?. Microorganisms, 2022, 10, 846.	1.6	7
91	Site-specific photolabile roadblocks for the study of transcription elongation in biologically complex systems. Communications Biology, 2022, 5, 457.	2.0	4
92	Lineage-specific insertions in T-box riboswitches modulate antibiotic binding and action. Nucleic Acids Research, 2022, , .	6.5	2
93	Secondary structures in RNA synthesis, splicing and translation. Computational and Structural Biotechnology Journal, 2022, 20, 2871-2884.	1.9	13
94	How does RNA fold dynamically?. Journal of Molecular Biology, 2022, 434, 167665.	2.0	23
95	Cotranscriptional RNA Chemical Probing. Methods in Molecular Biology, 2022, , 291-330.	0.4	2
96	Investigating the role of RNA structures in transcriptional pausing using in vitro assays and in silico analyses. RNA Biology, 2022, 19, 916-927.	1.5	0
97	Fluorogenic RNA aptamers to probe transcription initiation and co-transcriptional RNA folding by multi-subunit RNA polymerases. Methods in Enzymology, 2022, , .	0.4	4
98	Isolation of synchronized E. coli elongation complexes for solid-phase and solution-based in vitro transcription assays. Methods in Enzymology, 2022, , 159-192.	0.4	2
99	Cotranscriptional Assembly and Native Purification of Large RNAâ€”RNA Complexes for Structural Analyses. Methods in Molecular Biology, 2023, , 1-12.	0.4	1
101	Isolation of E. coli RNA polymerase transcription elongation complexes by selective solid-phase photoreversible immobilization. Methods in Enzymology, 2023, , 223-250.	0.4	1