Tina M Henkin

List of Publications by Year
in descending order

87 papers	5,716 citations	71004 43 h-index	90395 73 g-index
89 all docs	89 docs citations	89 times ranked	3294 citing authors

#	Article	IF	Citations
1	Special Sections for the Inaugural Small Proteins, Big Questions Virtual Conference. Journal of Bacteriology, 2022, 204, e0052421.	1.0	0
2	Catherine L. Squires, 1941â€“2021: Scientist, Academic Leader, Mentor. Journal of Bacteriology, 2021, 203, e0047221.	1.0	0
3	Transcriptional and translational S-box riboswitches differ in ligand-binding properties. Journal of Biological Chemistry, 2020, 295, 6849-6860.	1.6	4
4	Determinants of target prioritization and regulatory hierarchy for the bacterial small RNA SgrS. Molecular Microbiology, 2019, 112, 1199-1218.	1.2	26
5	New tRNA contacts facilitate ligand binding in a Mycobacterium smegmatis T box riboswitch. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3894-3899.	3.3	20
6	The T-Box Riboswitch: tRNA as an Effector to Modulate Gene Regulation. Microbiology Spectrum, 2018, 6, .	1.2	29
7	Classic Spotlight: Selected Highlights from the First 100 Years of the <i>Journal of Bacteriology</i>. Journal of Bacteriology, 2017, 199, .	1.0	0
8	Classic Spotlight: Bacteria versus Phageâ€”the Battle Rages!. Journal of Bacteriology, 2016, 198, 1007-1007.	1.0	0
9	Classic Spotlight: Bacterial Endospore Resistance, Structure, and Genetics. Journal of Bacteriology, 2016, 198, 1904-1904.	1.0	1
10	Riboswitch-Mediated Gene Regulation: Novel RNA Architectures Dictate Gene Expression Responses. Annual Review of Microbiology, 2016, 70, 361-374.	2.9	198
11	Classic Spotlight: Regulatory Function of Leader RNAs. Journal of Bacteriology, 2016, 198, 743-743.	1.0	1
12	Non-Conserved Residues in Clostridium acetobutylicum tRNAAla Contribute to tRNA Tuning for Efficient Antitermination of the alaS T Box Riboswitch. Life, 2015, 5, 1567-1582.	1.1	8
13	T box riboswitches in Actinobacteria: Translational regulation via novel tRNA interactions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1113-1118.	3.3	40
14	The Bacillus subtilis tyrZ Gene Encodes a Highly Selective Tyrosyl-tRNA Synthetase and Is Regulated by a MarR Regulator and T Box Riboswitch. Journal of Bacteriology, 2015, 197, 1624-1631.	1.0	23
15	Codon-Anticodon Recognition in the Bacillus subtilis glyQS T Box Riboswitch. Journal of Biological Chemistry, 2015, 290, 23336-23347.	1.6	19
16	The T box riboswitch: A novel regulatory RNA that utilizes tRNA as its ligand. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 959-963.	0.9	41
17	Preface â€” Riboswitches. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2014, 1839, 899.	0.9	4
18	T box RNA decodes both the information content and geometry of tRNA to affect gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7240-7245.	3.3	65

#	ARTICLE	IF	CITATIONS
19	Analysis of lysine recognition and specificity of the Bacillus subtilis L box riboswitch. Nucleic Acids Research, 2012, 40, 5706-5717.	6.5	14
20	<i>In Vivo</i> and <i>In Vitro</i> Analyses of Regulation of the Pheromone-Responsive <i>prgQ</i> Promoter by the PrgX Pheromone Receptor Protein. Journal of Bacteriology, 2012, 194, 3386-3394.	1.0	16
21	Regulation at multiple levels: themes and variations. Current Opinion in Microbiology, 2011, 14, 115-117.	2.3	0
22	Tuning Riboswitch Regulation through Conformational Selection. Journal of Molecular Biology, 2011, 405, 926-938.	2.0	48
23	Variable Sequences outside the Sam-Binding Core Critically Influence the Conformational Dynamics of the SAM-III/SMK Box Riboswitch. Journal of Molecular Biology, 2011, 409, 786-799.	2.0	34
24	The T box mechanism: tRNA as a regulatory molecule. FEBS Letters, 2010, 584, 318-324.	1.3	127
25	The SAMâ€responsive S_{MK} box is a reversible riboswitch. Molecular Microbiology, 2010, 78, 1393-1402.	1.2	47
26	Riboswitches. , 2010, , 743-759.		0
27	Direct Evidence for Control of the Pheromone-Inducible<i>prgQ</i>Operon of<i>Enterococcus faecalis</i>Plasmid pCF10 by a Countertranscript-Driven Attenuation Mechanism. Journal of Bacteriology, 2010, 192, 1634-1642.	1.0	32
28	NMR structure and dynamics of the Specifier Loop domain from the Bacillus subtilis tyrS T box leader RNA. Nucleic Acids Research, 2010, 38, 3388-3398.	6.5	28
29	Riboswitch RNAs: Regulation of gene expression by direct monitoring of a physiological signal. RNA Biology, 2010, 7, 104-110.	1.5	89
30	SAM Recognition and Conformational Switching Mechanism in the Bacillus subtilis yitJ S Box/SAM-I Riboswitch. Journal of Molecular Biology, 2010, 404, 803-818.	2.0	78
31	Biochemical Features and Functional Implications of the RNA-Based T-Box Regulatory Mechanism. Microbiology and Molecular Biology Reviews, 2009, 73, 36-61.	2.9	138
32	In vitro approaches to analysis of transcription termination. Methods, 2009, 47, 37-43.	1.9	42
33	RNA-Dependent RNA Switches in Bacteria. Methods in Molecular Biology, 2009, 540, 207-214.	0.4	9
34	Analysis of tRNA-Directed Transcription Antitermination in the T Box System In Vivo. Methods in Molecular Biology, 2009, 540, 281-290.	0.4	4
35	Molecular basis of gene regulation by the THIâ€box riboswitch. Molecular Microbiology, 2008, 67, 793-803.	1.2	48
36	4,5-Disubstituted oxazolidinones: High affinity molecular effectors of RNA function. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3541-3544.	1.0	43

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37	Crystal structures of the SAM-III/SMK riboswitch reveal the SAM-dependent translation inhibition mechanism. Nature Structural and Molecular Biology, 2008, 15, 1076-1083.	3.6	145
38	Riboswitch RNAs: using RNA to sense cellular metabolism. Genes and Development, 2008, 22, 3383-3390.	2.7	250
39	Natural Variability in <i>S</i> -Adenosylmethionine (SAM)-Dependent Riboswitches: S-Box Elements in <i>Bacillus subtilis</i> Exhibit Differential Sensitivity to SAM In Vivo and In Vitro. Journal of Bacteriology, 2008, 190, 823-833.	1.0	94
40	S-adenosylmethionine directly inhibits binding of 30S ribosomal subunits to the SMK box translational riboswitch RNA. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4876-4880.	3.3	61
41	Mechanisms of Resistance to an Amino Acid Antibiotic That Targets Translation. ACS Chemical Biology, 2007, 2, 819-827.	1.6	42
42	Control of Acetyl-Coenzyme A Synthetase (AcsA) Activity by Acetylation/Deacetylation without NAD + Involvement in Bacillus subtilis. Journal of Bacteriology, 2006, 188, 5460-5468.	1.0	129
43	From Ribosome to Riboswitch: Control of Gene Expression in Bacteria by RNA Structural Rearrangements. Critical Reviews in Biochemistry and Molecular Biology, 2006, 41, 329-338.	2.3	117
44	The SMK box is a new SAM-binding RNA for translational regulation of SAM synthetase. Nature Structural and Molecular Biology, 2006, 13, 226-233.	3.6	186
45	An Intergenic Stem-Loop Mutation in the Bacillus subtilis ccpA-motPS Operon Increases motPS Transcription and the MotPS Contribution to Motility. Journal of Bacteriology, 2006, 188, 2701-2705.	1.0	28
46	tRNA regulation of gene expression: Interactions of an mRNA 5'-UTR with a regulatory tRNA. Rna, 2006, 12, 1254-1261.	1.6	29
47	Identification of a Mutation in the Bacillus subtilis S -Adenosylmethionine Synthetase Gene That Results in Derepression of S-Box Gene Expression. Journal of Bacteriology, 2006, 188, 3674-3681.	1.0	25
48	A tertiary structural element in S box leader RNAs is required for S-adenosylmethionine-directed transcription termination. Molecular Microbiology, 2005, 57, 1008-1021.	1.2	65
49	Monitoring Uncharged tRNA During Transcription of the Bacillus subtilis glyQS Gene. Journal of Molecular Biology, 2005, 346, 73-81.	2.0	47
50	Structural Transitions Induced by the Interaction between tRNAGly and the Bacillus subtilis glyQS T Box Leader RNA. Journal of Molecular Biology, 2005, 349, 273-287.	2.0	61
51	Kinetic Analysis of tRNA-Directed Transcription Antitermination of the Bacillus subtilis glyQS Gene In Vitro. Journal of Bacteriology, 2004, 186, 5392-5399.	1.0	47
52	MotPS is the stator-force generator for motility of alkaliphilic Bacillus, and its homologue is a second functional Mot in Bacillus subtilis. Molecular Microbiology, 2004, 53, 1035-1049.	1.2	100
53	Regulation of gene expression by effectors that bind to RNA. Current Opinion in Microbiology, 2004, 7, 126-131.	2.3	83
54	Solution Structure of the Bacillus subtilis T-box Antiterminator RNA: Seven Nucleotide Bulge Characterized by Stacking and Flexibility. Journal of Molecular Biology, 2003, 326, 189-201.	2.0	55

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55	tRNA requirements for glyQS antitermination: A new twist on tRNA. Rna, 2003, 9, 1148-1156.	1.6	45
56	Transcription termination control of the S box system: Direct measurement of S-adenosylmethionine by the leader RNA. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3083-3088.	3.3	242
57	The L box regulon: Lysine sensing by leader RNAs of bacterial lysine biosynthesis genes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12057-12062.	3.3	177
58	The T box and S box transcription termination control systems. Frontiers in Bioscience - Landmark, 2003, 8, d20-31.	3.0	86
59	Prediction of Gene Function in Methylthioadenosine Recycling from Regulatory Signals. Journal of Bacteriology, 2002, 184, 2314-2318.	1.0	42
60	tRNA-mediated transcription antitermination in vitro: Codon-anticodon pairing independent of the ribosome. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11121-11126.	3.3	108
61	Sequence requirements for terminators and antiterminators in the T box transcription antitermination system: disparity between conservation and functional requirements. Nucleic Acids Research, 2002, 30, 1646-1655.	6.5	67
62	In vitro structure-function studies of the Bacillus subtilis tyrS mRNA antiterminator: evidence for factor-independent tRNA acceptor stem binding specificity. Nucleic Acids Research, 2002, 30, 1065-1072.	6.5	44
63	Regulation by transcription attenuation in bacteria: how RNA provides instructions for transcription termination/antitermination decisions. BioEssays, 2002, 24, 700-707.	1.2	230
64	The GA motif: An RNA element common to bacterial antitermination systems, rRNA, and eukaryotic RNAs. Rna, 2001, 7, 1165-1172.	1.6	100
65	Transcriptional Activation of the Bacillus subtilis ackA Promoter Requires Sequences Upstream of the CcpA Binding Site. Journal of Bacteriology, 2001, 183, 2389-2393.	1.0	36
66	tRNA determinants for transcription antitermination of the Bacillus subtilis tyrS gene. Rna, 2000, 6, 1131-1141.	1.6	32
67	Bacillus subtilis ccpA Gene Mutants Specifically Defective in Activation of Acetoin Biosynthesis. Journal of Bacteriology, 2000, 182, 5611-5614.	1.0	39
68	Transcription termination control in bacteria. Current Opinion in Microbiology, 2000, 3, 149-153.	2.3	86
69	A regulatory system hitherto found only in Gram-positive bacteria in a Gram-negative bacterium that grows only in co-culture with a Bacillus strain. Molecular Microbiology, 1999, 33, 667-668.	1.2	5
70	Metabolic Imbalance and Sporulation in an Isocitrate Dehydrogenase Mutant of Bacillus subtilis. Journal of Bacteriology, 1999, 181, 3382-3391.	1.0	35
71	The S box regulon: a new global transcription termination control system for methionine and cysteine biosynthesis genes in Gram-positive bacteria. Molecular Microbiology, 1998, 30, 737-749.	1.2	266
72	Transcriptional Activation of the Bacillus subtilis ackA Gene Requires Sequences Upstream of the Promoter. Journal of Bacteriology, 1998, 180, 5961-5967.	1.0	66

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73	Analysis ofcis-acting sequence and structural elements required for antitermination of theBacillus subtilis tyrSgene. Molecular Microbiology, 1997, 25, 411-421.	1.2	67
74	CONTROL OF TRANSCRIPTION TERMINATION IN PROKARYOTES. Annual Review of Genetics, 1996, 30, 35-57.	3.2	103
75	The role of the CcpA transcriptional regulator in carbon metabolism inBacillus subtilis. FEMS Microbiology Letters, 1996, 135, 9-15.	0.7	185
76	Micro Review tRNA-dircted transcription antitermination. Molecular Microbiology, 1994, 13, 381-387.	1.2	97
77	Conservation of a Transcription Antitermination Mechanism in Aminoacyl-tRNA Synthetase and Amino Acid Biosynthesis Genes in Gram-positive Bacteria. Journal of Molecular Biology, 1994, 235, 798-804.	2.0	88
78	Identification of genes involved in utilization of acetate and acetoin inBacillus subtilis. Molecular Microbiology, 1993, 10, 259-271.	1.2	144
79	tRNA as a positive regulator of transcription antitermination in B. subtilis. Cell, 1993, 74, 475-482.	13.5	264
80	Catabolite repression-resistant mutations of the Bacillus subtilis alpha-amylase promoter affect transcription levels and are in an operator-like sequence. Journal of Molecular Biology, 1987, 198, 609-618.	2.0	95
81	Genetic mapping of a mutation causing an alteration in Bacillus subtilis ribosomal protein S4. Molecular Genetics and Genomics, 1984, 193, 364-369.	2.4	45
82	[37] Bacterial in Vitro protein-synthesizing systems. Methods in Enzymology, 1983, 101, 598-605.	0.4	26
83	Revertants of a streptomycin-resistant, oligosporogenous mutant ofBacillus subtilis. Molecular Genetics and Genomics, 1982, 186, 347-354.	2.4	8
84	Synthesis of Serine, Glycine, Cysteine, and Methionine. , 0, , 245-254.		26
85	Ribosomes, Protein Synthesis Factors, and tRNA Synthetases. , 0, , 313-322.		8
86	Ribosomal Structure and Genetics. , 0, , 669-682.		3
87	The T-Box Riboswitch: tRNA as an Effector to Modulate Gene Regulation. , 0, , 89-100.		2