Susan Gottesman

List of Publications by Year
in descending order

91 papers	15,692 citations	30070 54 h-index	54911 84 g-index
96 all docs	96 docs citations	96 times ranked	8994 citing authors

#	Article	IF	Citations
1	A small RNA regulates the expression of genes involved in iron metabolism in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4620-4625.	7.1	1,037
2	Posttranslational Quality Control: Folding, Refolding, and Degrading Proteins. Science, 1999, 286, 1888-1893.	12.6	997
3	The RpoS-Mediated General Stress Response inEscherichia coli. Annual Review of Microbiology, 2011, 65, 189-213.	7.3	775
4	PROTEASES AND THEIR TARGETS INESCHERICHIA COLI. Annual Review of Genetics, 1996, 30, 465-506.	7.6	689
5	Bacterial Small RNA Regulators: Versatile Roles and Rapidly Evolving Variations. Cold Spring Harbor Perspectives in Biology, 2011, 3, a003798-a003798.	5.5	643
6	Identification of novel small RNAs using comparative genomics and microarrays. Genes and Development, 2001, 15, 1637-1651.	5.9	627
7	Coupled degradation of a small regulatory RNA and its mRNA targets in Escherichia coli. Genes and Development, 2003, 17, 2374-2383.	5.9	626
8	The Small RNA Regulators ofEscherichia coli: Roles and Mechanisms. Annual Review of Microbiology, 2004, 58, 303-328.	7.3	536
9	Effect of RyhB Small RNA on Global Iron Use in Escherichia coli. Journal of Bacteriology, 2005, 187, 6962-6971.	2.2	501
10	Global analysis of small RNA and mRNA targets of Hfq. Molecular Microbiology, 2003, 50, 1111-1124.	2.5	494
11	THE RCS PHOSPHORELAY: A Complex Signal Transduction System. Annual Review of Microbiology, 2005, 59, 379-405.	7.3	486
12	Micros for microbes: non-coding regulatory RNAs in bacteria. Trends in Genetics, 2005, 21, 399-404.	6.7	440
13	Proteolysis in Bacterial Regulatory Circuits. Annual Review of Cell and Developmental Biology, 2003, 19, 565-587.	9.4	395
14	Regulation and mode of action of the second small RNA activator of RpoS translation, RprA. Molecular Microbiology, 2002, 46, 813-826.	2.5	324
15	Remodelling of the Escherichia coli outer membrane by two small regulatory RNAs. Molecular Microbiology, 2006, 59, 231-247.	2.5	269
16	Integrating anaerobic/aerobic sensing and the general stress response through the ArcZ small RNA. EMBO Journal, 2010, 29, 3094-3107.	7.8	262
17	The RssB response regulator directly targets sigmaS for degradation by ClpXP. Genes and Development, 2001, 15, 627-637.	5.9	261
18	Regulation of RpoS by a novel small RNA: the characterization of RprA. Molecular Microbiology, 2004, 39, 1382-1394.	2.5	260

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19	Bacterial Regulation: Global Regulatory Networks. Annual Review of Genetics, 1984, 18, 415-441.	7.6	258
20	Positive regulation by small RNAs and the role of Hfq. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9602-9607.	7.1	253
21	Bacterial Small RNA-based Negative Regulation: Hfq and Its Accomplices. Journal of Biological Chemistry, 2013, 288, 7996-8003.	3.4	249
22	Modulating the outer membrane with small RNAs. Genes and Development, 2006, 20, 2338-2348.	5.9	196
23	Regulation of Proteolysis of the Stationary-Phase Sigma Factor RpoS. Journal of Bacteriology, 1998, 180, 1154-1158.	2.2	191
24	The Crp-Activated Small Noncoding Regulatory RNA CyaR (RyeE) Links Nutritional Status to Group Behavior. Journal of Bacteriology, 2009, 191, 461-476.	2.2	184
25	New aspects of RNA-based regulation by Hfq and its partner sRNAs. Current Opinion in Microbiology, 2018, 42, 53-61.	5.1	184
26	Trouble is coming: Signaling pathways that regulate general stress responses in bacteria. Journal of Biological Chemistry, 2019, 294, 11685-11700.	3.4	180
27	sRNA-Mediated Control of Transcription Termination in E.Âcoli. Cell, 2016, 167, 111-121.e13.	28.9	173
28	Alternative Hfqâ€‹<scp>sRNA</scp> interaction modes dictate alternative <scp>mRNA</scp> recognition. EMBO Journal, 2015, 34, 2557-2573.	7.8	172
29	A complex network of small nonâ€‹coding <scp>RNAs</scp> regulate motility in <scp>E</scp>scherichia coli. Molecular Microbiology, 2012, 86, 524-538.	2.5	170
30	The Complex Rcs Regulatory Cascade. Annual Review of Microbiology, 2018, 72, 111-139.	7.3	169
31	Trans-Acting Small RNAs and Their Effects on Gene Expression in Escherichia coli and Salmonella enterica. EcoSal Plus, 2020, 9, .	5.4	161
32	Modulating RssB activity: IraP, a novel regulator of ÂS stability in Escherichia coli. Genes and Development, 2006, 20, 884-897.	5.9	160
33	A PhoQ/Pâ€‹regulated small RNA regulates sensitivity of Escherichia coli to antimicrobial peptides. Molecular Microbiology, 2009, 74, 1314-1330.	2.5	152
34	Multiple pathways for regulation of Ïƒ^S (RpoS) stability in Escherichia coli via the action of multiple antiâ€‹adaptors. Molecular Microbiology, 2008, 68, 298-313.	2.5	150
35	Competition among Hfqâ€‹binding small RNAs in Escherichia coli. Molecular Microbiology, 2011, 82, 1545-1562.	2.5	147
36	The 5â€² end of two redundant sRNAs is involved in the regulation of multiple targets, including their own regulator. Nucleic Acids Research, 2008, 36, 6781-6794.	14.5	145

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37	Role of RcsF in Signaling to the Rcs Phosphorelay Pathway in Escherichia coli. Journal of Bacteriology, 2005, 187, 6770-6778.	2.2	133
38	Ïƒ E Regulates and Is Regulated by a Small RNA in Escherichia coli. Journal of Bacteriology, 2007, 189, 4243-4256.	2.2	131
39	Mutations in Interaction Surfaces Differentially Impact E. coli Hfq Association with Small RNAs and Their mRNA Targets. Journal of Molecular Biology, 2013, 425, 3678-3697.	4.2	127
40	Mechanism of Positive Regulation by DsrA and RprA Small Noncoding RNAs: Pairing Increases Translation and Protects rpoS mRNA from Degradation. Journal of Bacteriology, 2010, 192, 5559-5571.	2.2	125
41	ppGpp regulation of RpoS degradation via anti-adaptor protein IraP. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12896-12901.	7.1	124
42	A genetic approach for finding small RNAs regulators of genes of interest identifies RybC as regulating the DpiA/DpiB twoâ€component system. Molecular Microbiology, 2009, 72, 551-565.	2.5	124
43	The PhoP/PhoQ two-component system stabilizes the alternative sigma factor RpoS in Salmonella enterica. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13503-13508.	7.1	110
44	Stealth regulation: biological circuits with small RNA switches. Genes and Development, 2002, 16, 2829-2842.	5.9	109
45	Six-fold rotational symmetry of ClpQ, theE. colihomolog of the 20S proteasome, and its ATP-dependent activator, ClpY. FEBS Letters, 1996, 398, 274-278.	2.8	105
46	MicA sRNA links the PhoP regulon to cell envelope stress. Molecular Microbiology, 2010, 76, 467-479.	2.5	99
47	Role of polynucleotide phosphorylase in sRNA function in Escherichia coli. Rna, 2011, 17, 1172-1189.	3.5	99
48	C-terminal domain of the RNA chaperone Hfq drives sRNA competition and release of target RNA. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6089-E6096.	7.1	92
49	Hfq links translation repression to stress-induced mutagenesis in E. coli. Genes and Development, 2017, 31, 1382-1395.	5.9	84
50	Regulation of RpoS by a novel small RNA: the characterization of RprA. Molecular Microbiology, 2001, 39, 1382-1394.	2.5	83
51	Phage Resistance in Multidrug-Resistant Klebsiella pneumoniae ST258 Evolves via Diverse Mutations That Culminate in Impaired Adsorption. MBio, 2020, 11, .	4.1	82
52	Roles of adaptor proteins in regulation of bacterial proteolysis. Current Opinion in Microbiology, 2013, 16, 140-147.	5.1	81
53	Stress sigma factor RpoS degradation and translation are sensitive to the state of central metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5159-5164.	7.1	63
54	sRNA roles in regulating transcriptional regulators: Lrp and SoxS regulation by sRNAs. Nucleic Acids Research, 2016, 44, 6907-6923.	14.5	63

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55	Alternative pathways for Escherichia coli biofilm formation revealed by sRNA overproduction. Molecular Microbiology, 2017, 105, 309-325.	2.5	61
56	Regulation of Transcription Termination of Small RNAs and by Small RNAs: Molecular Mechanisms and Biological Functions. Frontiers in Cellular and Infection Microbiology, 2019, 9, 201.	3.9	61
57	Anti-adaptors provide multiple modes for regulation of the RssB adaptor protein. Genes and Development, 2013, 27, 2722-2735.	5.9	59
58	Regulation of acetate metabolism and coordination with the TCA cycle via a processed small RNA. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1043-1052.	7.1	55
59	Small RNA Regulation of TolC, the Outer Membrane Component of Bacterial Multidrug Transporters. Journal of Bacteriology, 2016, 198, 1101-1113.	2.2	50
60	Regulation of Capsule Synthesis: Modification of the Two-Component Paradigm by an Accessory Unstable Regulator. , 0, , 253-262.		49
61	Small Regulatory RNAs in the Enterobacterial Response to Envelope Damage and Oxidative Stress. Microbiology Spectrum, 2018, 6, .	3.0	48
62	Complex transcriptional and postâ€transcriptional regulation of an enzyme for lipopolysaccharide modification. Molecular Microbiology, 2013, 89, 52-64.	2.5	45
63	RNA reflections: converging on Hfq. Rna, 2015, 21, 511-512.	3.5	42
64	Translational Regulation of the Escherichia coli Stress Factor RpoS: a Role for SsrA and Lon. Journal of Bacteriology, 2007, 189, 4872-4879.	2.2	41
65	A rhlI 5â€² UTR-Derived sRNA Regulates RhlR-Dependent Quorum Sensing in Pseudomonas aeruginosa. MBio, 2019, 10, .	4.1	40
66	The MiaA tRNA Modification Enzyme Is Necessary for Robust RpoS Expression in Escherichia coli. Journal of Bacteriology, 2014, 196, 754-761.	2.2	34
67	Analysis of the Escherichia coli Alp Phenotype: Heat Shock Induction in ssrA Mutants. Journal of Bacteriology, 2005, 187, 4739-4751.	2.2	33
68	Unexpected properties of sRNA promoters allow feedback control via regulation of a two-component system. Nucleic Acids Research, 2016, 44, gkw642.	14.5	32
69	Acidic Residues in the Hfq Chaperone Increase the Selectivity of sRNA Binding and Annealing. Journal of Molecular Biology, 2015, 427, 3491-3500.	4.2	28
70	IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein. PLoS Genetics, 2020, 16, e1008610.	3.5	28
71	Small RNAs Shed Some Light. Cell, 2004, 118, 1-2.	28.9	25
72	Structural basis for inhibition of a response regulator of Ïƒ^S stability by a ClpXP antiadaptor. Genes and Development, 2019, 33, 718-732.	5.9	23

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73	A fluorescence-based genetic screen reveals diverse mechanisms silencing small RNA signaling in E. coli. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
74	CELL BIOLOGY: Enhanced: Surviving Starvation. Science, 2001, 293, 614-615.	12.6	21
75	Multiple in vivo roles for the C-terminal domain of the RNA chaperone Hfq. Nucleic Acids Research, 2022, 50, 1718-1733.	14.5	20
76	Experimental Evolution of Escherichia coli K-12 at High pH and with RpoS Induction. Applied and Environmental Microbiology, 2018, 84, .	3.1	19
77	Chilled in Translation: Adapting to Bacterial Climate Change. Molecular Cell, 2018, 70, 193-194.	9.7	18
78	Riboswitch regulates RNA. Science, 2014, 345, 876-877.	12.6	15
79	Hfqs in <scp>B</scp>acillus anthracis: Role of protein sequence variation in the structure and function of proteins in the <scp>H</scp>fq family. Protein Science, 2015, 24, 1808-1819.	7.6	14
80	Stress Reduction, Bacterial Style. Journal of Bacteriology, 2017, 199, .	2.2	14
81	In vivo characterization of an Hfq protein encoded by the Bacillus anthracis virulence plasmid pXO1. BMC Microbiology, 2017, 17, 63.	3.3	9
82	Spot 42 Small RNA Regulates Arabinose-Inducible araBAD Promoter Activity by Repressing Synthesis of the High-Affinity Low-Capacity Arabinose Transporter. Journal of Bacteriology, 2017, 199, e00691-16.	2.2	9
83	How Does the Alarmone ppGpp Change Bacterial Cell Metabolism? From Genome-wide Approaches to Structure to Physiology. Molecular Cell, 2020, 80, 1-2.	9.7	7
84	Phosphate on, rubbish out. Nature, 2016, 539, 38-39.	27.8	6
85	Small Regulatory RNAs in the Enterobacterial Response to Envelope Damage and Oxidative Stress. , 0, , 211-228.		5
86	Roles of mRNA Stability, Translational Regulation, and Small RNAs in Stress Response Regulation. , 0, , 59-73.		4
87	A reversed approach for finding small RNAs regulating genes of interest. FASEB Journal, 2009, 23, 846.3.	0.5	0
88	IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein. , 2020, 16, e1008610.		0
89	IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein. , 2020, 16, e1008610.		0
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91	IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein. , 2020, 16, e1008610.		0