

# Susan Gottesman

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

12,792  
citations

50  
h-index

96  
g-index

96  
ext. papers

14,500  
ext. citations

11  
avg, IF

7.04  
L-index

#	Paper	IF	Citations
92	Posttranslational quality control: folding, refolding, and degrading proteins. <i>Science</i> , <b>1999</b> , 286, 1888-93	33.3	930
91	A small RNA regulates the expression of genes involved in iron metabolism in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 4620-5	11.5	894
90	Proteases and their targets in Escherichia coli. <i>Annual Review of Genetics</i> , <b>1996</b> , 30, 465-506	14.5	611
89	The RpoS-mediated general stress response in Escherichia coli. <i>Annual Review of Microbiology</i> , <b>2011</b> , 65, 189-213	17.5	596
88	Coupled degradation of a small regulatory RNA and its mRNA targets in Escherichia coli. <i>Genes and Development</i> , <b>2003</b> , 17, 2374-83	12.6	572
87	Identification of novel small RNAs using comparative genomics and microarrays. <i>Genes and Development</i> , <b>2001</b> , 15, 1637-51	12.6	548
86	Bacterial small RNA regulators: versatile roles and rapidly evolving variations. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3,	10.2	530
85	The small RNA regulators of Escherichia coli: roles and mechanisms*. <i>Annual Review of Microbiology</i> , <b>2004</b> , 58, 303-28	17.5	478
84	Global analysis of small RNA and mRNA targets of Hfq. <i>Molecular Microbiology</i> , <b>2003</b> , 50, 1111-24	4.1	449
83	The Rcs phosphorelay: a complex signal transduction system. <i>Annual Review of Microbiology</i> , <b>2005</b> , 59, 379-405	17.5	423
82	Effect of RyhB small RNA on global iron use in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 6962-7	15	421
81	Micros for microbes: non-coding regulatory RNAs in bacteria. <i>Trends in Genetics</i> , <b>2005</b> , 21, 399-404	8.5	388
80	Proteolysis in bacterial regulatory circuits. <i>Annual Review of Cell and Developmental Biology</i> , <b>2003</b> , 19, 565-87	12.6	341
79	Regulation and mode of action of the second small RNA activator of RpoS translation, RprA. <i>Molecular Microbiology</i> , <b>2002</b> , 46, 813-26	4.1	281
78	Regulation of RpoS by a novel small RNA: the characterization of RprA. <i>Molecular Microbiology</i> , <b>2001</b> , 39, 1382-94	4.1	233
77	The RssB response regulator directly targets sigma(S) for degradation by ClpXP. <i>Genes and Development</i> , <b>2001</b> , 15, 627-37	12.6	230
76	Bacterial regulation: global regulatory networks. <i>Annual Review of Genetics</i> , <b>1984</b> , 18, 415-41	14.5	221

75	Positive regulation by small RNAs and the role of Hfq. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 9602-7	11.5	216
74	Integrating anaerobic/aerobic sensing and the general stress response through the ArcZ small RNA. <i>EMBO Journal</i> , <b>2010</b> , 29, 3094-107	13	210
73	Remodelling of the Escherichia coli outer membrane by two small regulatory RNAs. <i>Molecular Microbiology</i> , <b>2006</b> , 59, 231-47	4.1	203
72	Bacterial small RNA-based negative regulation: Hfq and its accomplices. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 7996-8003	5.4	195
71	Modulating the outer membrane with small RNAs. <i>Genes and Development</i> , <b>2006</b> , 20, 2338-48	12.6	165
70	Regulation of proteolysis of the stationary-phase sigma factor RpoS. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 1154-8	3.5	153
69	The Crp-activated small noncoding regulatory RNA CyaR (RyeE) links nutritional status to group behavior. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 461-76	3.5	146
68	Competition among Hfq-binding small RNAs in Escherichia coli. <i>Molecular Microbiology</i> , <b>2011</b> , 82, 1545-62	4.1	127
67	Modulating RssB activity: IraP, a novel regulator of sigma(S) stability in Escherichia coli. <i>Genes and Development</i> , <b>2006</b> , 20, 884-97	12.6	124
66	sRNA-Mediated Control of Transcription Termination in E. coli. <i>Cell</i> , <b>2016</b> , 167, 111-121.e13	56.2	123
65	The 5' end of two redundant sRNAs is involved in the regulation of multiple targets, including their own regulator. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 6781-94	20.1	123
64	A complex network of small non-coding RNAs regulate motility in Escherichia coli. <i>Molecular Microbiology</i> , <b>2012</b> , 86, 524-38	4.1	122
63	Multiple pathways for regulation of sigmaS (RpoS) stability in Escherichia coli via the action of multiple anti-adaptors. <i>Molecular Microbiology</i> , <b>2008</b> , 68, 298-313	4.1	122
62	A PhoQ/P-regulated small RNA regulates sensitivity of Escherichia coli to antimicrobial peptides. <i>Molecular Microbiology</i> , <b>2009</b> , 74, 1314-30	4.1	121
61	Alternative Hfq-sRNA interaction modes dictate alternative mRNA recognition. <i>EMBO Journal</i> , <b>2015</b> , 34, 2557-73	13	115
60	SigmaE regulates and is regulated by a small RNA in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 4243-56	3.5	113
59	Role of RcsF in signaling to the Rcs phosphorelay pathway in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 6770-8	3.5	113
58	New aspects of RNA-based regulation by Hfq and its partner sRNAs. <i>Current Opinion in Microbiology</i> , <b>2018</b> , 42, 53-61	7.9	113

57	The PhoP/PhoQ two-component system stabilizes the alternative sigma factor RpoS in <i>Salmonella enterica</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 13503-8	11.5	104
56	ppGpp regulation of RpoS degradation via anti-adaptor protein IraP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 12896-901	11.5	102
55	Mutations in interaction surfaces differentially impact <i>E. coli</i> Hfq association with small RNAs and their mRNA targets. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 3678-97	6.5	100
54	Mechanism of positive regulation by DsrA and RprA small noncoding RNAs: pairing increases translation and protects rpoS mRNA from degradation. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 5559-71	3.5	100
53	A genetic approach for finding small RNAs regulators of genes of interest identifies RybC as regulating the DpiA/DpiB two-component system. <i>Molecular Microbiology</i> , <b>2009</b> , 72, 551-65	4.1	99
52	Six-fold rotational symmetry of ClpQ, the <i>E. coli</i> homolog of the 20S proteasome, and its ATP-dependent activator, ClpY. <i>FEBS Letters</i> , <b>1996</b> , 398, 274-8	3.8	95
51	The Complex Rcs Regulatory Cascade. <i>Annual Review of Microbiology</i> , <b>2018</b> , 72, 111-139	17.5	94
50	Stealth regulation: biological circuits with small RNA switches. <i>Genes and Development</i> , <b>2002</b> , 16, 2829-42	2.6	92
49	Role of polynucleotide phosphorylase in sRNA function in <i>Escherichia coli</i> . <i>Rna</i> , <b>2011</b> , 17, 1172-89	5.8	84
48	MicA sRNA links the PhoP regulon to cell envelope stress. <i>Molecular Microbiology</i> , <b>2010</b> , 76, 467-79	4.1	82
47	Trouble is coming: Signaling pathways that regulate general stress responses in bacteria. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 11685-11700	5.4	74
46	Roles of adaptor proteins in regulation of bacterial proteolysis. <i>Current Opinion in Microbiology</i> , <b>2013</b> , 16, 140-7	7.9	67
45	C-terminal domain of the RNA chaperone Hfq drives sRNA competition and release of target RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E6089-E6096	11.5	67
44	Trans-Acting Small RNAs and Their Effects on Gene Expression in and. <i>EcoSal Plus</i> , <b>2020</b> , 9,	7.7	62
43	Hfq links translation repression to stress-induced mutagenesis in. <i>Genes and Development</i> , <b>2017</b> , 31, 1382-1395	5.8	58
42	Stress sigma factor RpoS degradation and translation are sensitive to the state of central metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5159-64	11.5	49
41	Regulation of Capsule Synthesis: Modification of the Two-Component Paradigm by an Accessory Unstable Regulator	253-262	45
40	Alternative pathways for <i>Escherichia coli</i> biofilm formation revealed by sRNA overproduction. <i>Molecular Microbiology</i> , <b>2017</b> , 105, 309-325	4.1	43

39	Anti-adaptors provide multiple modes for regulation of the RssB adaptor protein. <i>Genes and Development</i> , <b>2013</b> , 27, 2722-35	12.6	41
38	sRNA roles in regulating transcriptional regulators: Lrp and SoxS regulation by sRNAs. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 6907-23	20.1	40
37	Small RNA Regulation of TolC, the Outer Membrane Component of Bacterial Multidrug Transporters. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 1101-13	3.5	39
36	Complex transcriptional and post-transcriptional regulation of an enzyme for lipopolysaccharide modification. <i>Molecular Microbiology</i> , <b>2013</b> , 89, 52-64	4.1	37
35	Translational regulation of the Escherichia coli stress factor RpoS: a role for SsrA and Lon. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 4872-9	3.5	37
34	Phage Resistance in Multidrug-Resistant Klebsiella pneumoniae ST258 Evolves via Diverse Mutations That Culminate in Impaired Adsorption. <i>MBio</i> , <b>2020</b> , 11,	7.8	36
33	Regulation of Transcription Termination of Small RNAs and by Small RNAs: Molecular Mechanisms and Biological Functions. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 201	5.9	35
32	Regulation of acetate metabolism and coordination with the TCA cycle via a processed small RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 1043-1052	11.5	34
31	Analysis of the Escherichia coli Alp phenotype: heat shock induction in ssrA mutants. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 4739-51	3.5	29
30	Small Regulatory RNAs in the Enterobacterial Response to Envelope Damage and Oxidative Stress. <i>Microbiology Spectrum</i> , <b>2018</b> , 6,	8.9	28
29	RNA reflections: converging on Hfq. <i>Rna</i> , <b>2015</b> , 21, 511-2	5.8	28
28	Acidic Residues in the Hfq Chaperone Increase the Selectivity of sRNA Binding and Annealing. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 3491-3500	6.5	23
27	Small RNAs shed some light. <i>Cell</i> , <b>2004</b> , 118, 1-2	56.2	21
26	The MiaA tRNA modification enzyme is necessary for robust RpoS expression in Escherichia coli. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 754-61	3.5	20
25	Cell biology. Surviving starvation. <i>Science</i> , <b>2001</b> , 293, 614-5	33.3	20
24	Unexpected properties of sRNA promoters allow feedback control via regulation of a two-component system. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 9650-9666	20.1	20
23	A 5SUTR-Derived sRNA Regulates RhlR-Dependent Quorum Sensing in Pseudomonas aeruginosa. <i>MBio</i> , <b>2019</b> , 10,	7.8	20
22	RNA. Riboswitch regulates RNA. <i>Science</i> , <b>2014</b> , 345, 876-7	33.3	14

21	Hfq's in Bacillus anthracis: Role of protein sequence variation in the structure and function of proteins in the Hfq family. <i>Protein Science</i> , <b>2015</b> , 24, 1808-19	6.3	13
20	Structural basis for inhibition of a response regulator of $\beta$ stability by a ClpXP antiadaptor. <i>Genes and Development</i> , <b>2019</b> , 33, 718-732	12.6	12
19	Chilled in Translation: Adapting to Bacterial Climate Change. <i>Molecular Cell</i> , <b>2018</b> , 70, 193-194	17.6	12
18	IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008610	6	10
17	Stress Reduction, Bacterial Style. <i>Journal of Bacteriology</i> , <b>2017</b> , 199,	3.5	9
16	Experimental Evolution of Escherichia coli K-12 at High pH and with RpoS Induction. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	9
15	In vivo characterization of an Hfq protein encoded by the Bacillus anthracis virulence plasmid pXO1. <i>BMC Microbiology</i> , <b>2017</b> , 17, 63	4.5	8
14	Spot 42 sRNA regulates arabinose-inducible araBAD promoter activity by repressing synthesis of the high-affinity low-capacity arabinose transporter. <i>Journal of Bacteriology</i> , <b>2017</b> , 199, e00691-16	3.5	6
13	Cell biology: Phosphate on, rubbish out. <i>Nature</i> , <b>2016</b> , 539, 38-39	50.4	5
12	Roles of mRNA Stability, Translational Regulation, and Small RNAs in Stress Response Regulation	59-73	4
11	How Does the Alarmone ppGpp Change Bacterial Cell Metabolism? From Genome-wide Approaches to Structure to Physiology. <i>Molecular Cell</i> , <b>2020</b> , 80, 1-2	17.6	4
10	Regulation of RpoS by a novel small RNA: the characterization of RprA	2001, 39, 1382	3
9	Multiple in vivo roles for the C-terminal domain of the RNA chaperone Hfq.. <i>Nucleic Acids Research</i> , <b>2022</b> ,	20.1	2
8	A fluorescence-based genetic screen reveals diverse mechanisms silencing small RNA signaling in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	2
7	Negative regulation of the Rcs phosphorelay via IgaA contact with the RcsD phosphotransfer protein		1
6	Small Regulatory RNAs in the Enterobacterial Response to Envelope Damage and Oxidative Stress	2018, 211-228	0
5	A reversed approach for finding small RNAs regulating genes of interest. <i>FASEB Journal</i> , <b>2009</b> , 23, 846.3	0.9	
4	IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein	2020, 16, e1008610	

- 3 IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein  
**2020, 16, e1008610**
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- 1 IgaA negatively regulates the Rcs Phosphorelay via contact with the RcsD Phosphotransfer Protein  
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