Eliane Hajnsdorf

List of Publications by Year
in descending order

48 papers	1,729 citations	279798 23 h-index	289244 40 g-index
50 all docs	50 docs citations	50 times ranked	1180 citing authors

#	Article	IF	Citations
1	The poly(A) binding protein Hfq protects RNA from RNase E and exoribonucleolytic degradation. Nucleic Acids Research, 2003, 31, 7302-7310.	14.5	152
2	Decay of mRNA encoding ribosomal protein S15 of Escherichia coli is initiated by an RNase E-dependent endonucleolytic cleavage that removes the 3â€² stabilizing stem and loop structure. Journal of Molecular Biology, 1991, 217, 283-292.	4.2	131
3	The small RNA GlmY acts upstream of the sRNA GlmZ in the activation of glmS expression and is subject to regulation by polyadenylation in Escherichia coli. Nucleic Acids Research, 2008, 36, 2570-2580.	14.5	107
4	Multiple activities of RNA-binding proteins S1 and Hfq. Biochimie, 2012, 94, 1544-1553.	2.6	74
5	RNase II removes the oligo(A) tails that destabilize the rpsO mRNA of Escherichia coli. Rna, 2000, 6, 1185-1193.	3.5	73
6	Mutagenesis and growth delay induced in Escherichia coli by near-ultraviolet radiations. Biochimie, 1985, 67, 335-342.	2.6	72
7	Hfq affects the length and the frequency of short oligo(A) tails at the 3' end of Escherichia coli rpsO mRNAs. Nucleic Acids Research, 2003, 31, 4017-4023.	14.5	66
8	Type I toxin-antitoxin systems contribute to the maintenance of mobile genetic elements in Clostridioides difficile. Communications Biology, 2020, 3, 718.	4.4	65
9	The C-terminal domain of Escherichia coli Hfq increases the stability of the hexamer. FEBS Journal, 2004, 271, 1258-1265.	0.2	62
10	Discovery of new type I toxinâ€"antitoxin systems adjacent to CRISPR arrays in Clostridium difficile. Nucleic Acids Research, 2018, 46, 4733-4751.	14.5	56
11	Nucleolytic Inactivation and Degradation of the RNase III Processed pnp Message Encoding Polynucleotide Phosphorylase of Escherichia coli. Journal of Molecular Biology, 1994, 239, 439-454.	4.2	55
12	Structural Modelling of the Sm-like Protein Hfq from Escherichia coli. Journal of Molecular Biology, 2002, 320, 705-712.	4.2	52
13	Polyadenylation of a functional mRNA controls gene expression in Escherichia coli. Nucleic Acids Research, 2007, 35, 2494-2502.	14.5	52
14	Chapter 4 Poly(A)â€Assisted RNA Decay and Modulators of RNA Stability. Progress in Molecular Biology and Translational Science, 2009, 85, 137-185.	1.7	52
15	Hfq affects mRNA levels independently of degradation. BMC Molecular Biology, 2010, 11, 17.	3.0	50
16	Polynucleotide phosphorylase is required for the rapid degradation of the RNase Eâ€processed rpsO mRNA of Escherichia coli devoid of its 3â€² hairpin. Molecular Microbiology, 1996, 19, 997-1005.	2.5	48
17	Stimulation of poly(A) synthesis by Escherichia coli poly(A)polymeraseâ€ƒI is correlated with Hfq binding to poly(A) tails. FEBS Journal, 2005, 272, 454-463.	4.7	46
18	E. coli rpsO mRNA decay: RNase E processing at the beginning of the coding sequence stimulates Poly(A)-dependent degradation of the mRNA 1 1Edited by M. Yaniv. Journal of Molecular Biology, 1999, 286, 1033-1043.	4.2	43

#	Article	IF	Citations
19	The poly(A)-dependent degradation pathway of <i>rps</i>O mRNA is primarily mediated by RNase R. Rna, 2009, 15, 316-326.	3.5	38
20	Hfq variant with altered RNA binding functions. Nucleic Acids Research, 2006, 34, 709-720.	14.5	34
21	RNA polyadenylation and its consequences in prokaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20180166.	4.0	32
22	Substitution of uridine in vivo by the intrinsic photoactivable probe 4-thiouridine in Escherichia coli RNA. Its use for E. coli ribosome structural analysis. FEBS Journal, 1986, 160, 441-449.	0.2	31
23	The interplay of Hfq, poly(A) polymerase I and exoribonucleases at the 3â€² ends of RNAs resulting from Rho-independent termination. RNA Biology, 2013, 10, 602-609.	3.1	26
24	Search for poly(A) polymerase targets in <i>E.â€ƒcoli</i> reveals its implication in surveillance of Glu tRNA processing and degradation of stable RNAs. Molecular Microbiology, 2012, 83, 436-451.	2.5	23
25	<i>Clostridium difficile</i> Hfq can replace <i>Escherichia coli</i> Hfq for most of its function. Rna, 2014, 20, 1567-1578.	3.5	23
26	Characterization of the molecular mechanisms involved in the differential production of erythrose-4-phosphate dehydrogenase, 3-phosphoglycerate kinase and class II fructose-1,6-bisphosphate aldolase inEscherichia coli. Molecular Microbiology, 2005, 57, 1265-1287.	2.5	22
27	Hfq stimulates the activity of the CCA-adding enzyme. BMC Molecular Biology, 2007, 8, 92.	3.0	22
28	Landscape of RNA polyadenylation in<i>E. coli</i>. Nucleic Acids Research, 2017, 45, gkw894.	14.5	22
29	Escherichia coli RNase II: characterization of the promoters involved in the transcription of rnb. Microbiology (United Kingdom), 1996, 142, 367-375.	1.8	19
30	Identification of protein-protein and ribonucleoprotein complexes containing Hfq. Scientific Reports, 2019, 9, 14054.	3.3	19
31	Physiological roles of antisense RNAs in prokaryotes. Biochimie, 2019, 164, 3-16.	2.6	19
32	RNase E and Polyadenyl Polymerase I are Involved in Maturation of CI RNA, the P4 Phage Immunity Factor. Journal of Molecular Biology, 2002, 318, 321-331.	4.2	16
33	Fate of mRNA extremities generated by intrinsic termination: detailed analysis of reactions catalyzed by ribonuclease II and poly(A) polymerase. Biochimie, 2005, 87, 819-826.	2.6	15
34	Metabolism of tRNA in near-ultraviolet-illuminated Escherichia coli The tRNA repair hypothesis. FEBS Journal, 1984, 139, 547-552.	0.2	14
35	The small RNA SraG participates in PNPase homeostasis. Rna, 2016, 22, 1560-1573.	3.5	14
36	Identification of RNAs bound by Hfq reveals widespread RNA partners and a sporulation regulator in the human pathogen <i>Clostridioides difficile</i>. RNA Biology, 2021, 18, 1931-1952.	3.1	13

#	ARTICLE	IF	CITATIONS
37	Role of polyadenylation in regulation of the flagella cascade and motility in Escherichia coli. Biochimie, 2013, 95, 410-418.	2.6	12
38	METABOLISM OF tRNAs IN GROWING CELLS OF Escherichia coli ILLUMINATED WITH NEAR-ULTRAVIOLET LIGHT. Photochemistry and Photobiology, 1986, 43, 157-164.	2.5	11
39	The world of asRNAs in Gram-negative and Gram-positive bacteria. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2020, 1863, 194489.	1.9	9
40	RNA PROTEIN CROSSLINKS INTRODUCED INTO E. coli RIBOSOMES BY USE OF THE INTRINSIC PROBE 4-THIOURIDINE. Photochemistry and Photobiology, 1987, 45, 445-451.	2.5	7
41	Is the secondary putative RNAâ€“RNA interaction site relevant to GcvB mediated regulation of oppA mRNA in Escherichia coli?. Biochimie, 2010, 92, 1458-1461.	2.6	6
42	A new custom microarray for sRNA profiling in<i>Escherichia coli</i>. FEMS Microbiology Letters, 2016, 363, fnw131.	1.8	6
43	The essential role of mRNA degradation in understanding and engineering E. coli metabolism. Biotechnology Advances, 2022, 54, 107805.	11.7	6
44	Identification of form III conformers in tRNAPhe from Escherichia coli by intramolecular photo-cross-linking. Biochemistry, 1986, 25, 5726-5734.	2.5	5
45	Chapter 9 The Role of RNA Chaperone Hfq in Poly(A) Metabolism. Methods in Enzymology, 2008, 447, 161-181.	1.0	3
46	RNase III Participates in the Adaptation to Temperature Shock and Oxidative Stress in Escherichia coli. Microorganisms, 2022, 10, 699.	3.6	3
47	RNase III, Ribosome Biogenesis and Beyond. Microorganisms, 2021, 9, 2608.	3.6	3
48	An electrophoretic method for the purification of RNA regions involved in protein crosslinking. Analytical Biochemistry, 1990, 185, 103-107.	2.4	0