

Agamemnon J Carpousis

List of Publications by Year in descending order

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48
papers

4,768
citations

101543

36
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206112

48
g-index

52
all docs

52
docs citations

52
times ranked

2301
citing authors

#	ARTICLE	IF	CITATIONS
1	A DEAD-box RNA helicase in the Escherichia coli RNA degradosome. Nature, 1996, 381, 169-172.	27.8	546
2	Copurification of E. coli RNAase E and PNPase: Evidence for a specific association between two enzymes important in RNA processing and degradation. Cell, 1994, 76, 889-900.	28.9	434
3	The RNA Degradosome of <i>Escherichia coli</i> : An mRNA-Degrading Machine Assembled on RNase E. Annual Review of Microbiology, 2007, 61, 71-87.	7.3	398
4	Cycling of ribonucleic acid polymerase to produce oligonucleotides during initiation in vitro at the lac UV5 promoter. Biochemistry, 1980, 19, 3245-3253.	2.5	299
5	Interaction of RNA polymerase with lacUV5 promoter DNA during mRNA initiation and elongation. Journal of Molecular Biology, 1985, 183, 165-177.	4.2	214
6	mRNA degradation: a tale of poly(A) and multiprotein machines. Trends in Genetics, 1999, 15, 24-28.	6.7	210
7	The RNase E of <i>Escherichia coli</i> is a membrane-binding protein. Molecular Microbiology, 2008, 70, 799-813.	2.5	180
8	Running rings around RNA: a superfamily of phosphate-dependent RNases. Trends in Biochemical Sciences, 2002, 27, 11-18.	7.5	145
9	The RNA degradosome and poly(A) polymerase of Escherichia coli are required in vivo for the degradation of small mRNA decay intermediates containing REP-stabilizers. Molecular Microbiology, 2003, 51, 777-790.	2.5	137
10	Chapter 3 Endonucleolytic Initiation of mRNA Decay in Escherichia coli. Progress in Molecular Biology and Translational Science, 2009, 85, 91-135.	1.7	137
11	Polyphosphate kinase is a component of the Escherichia coli RNA degradosome. Molecular Microbiology, 1997, 26, 387-398.	2.5	125
12	RNA degradosomes in bacteria and chloroplasts: classification, distribution and evolution of RNase E homologs. Molecular Microbiology, 2015, 97, 1021-1135.	2.5	112
13	The RNase E of Escherichia coli has at least two binding sites for DEAD-box RNA helicases: functional replacement of RhlB by RhlE. Molecular Microbiology, 2004, 54, 1422-1430.	2.5	105
14	The RNA degradosome: life in the fast lane of adaptive molecular evolution. Trends in Biochemical Sciences, 2006, 31, 359-365.	7.5	104
15	Polyadenylation Promotes Degradation of 3'-Structured RNA by the Escherichia coli mRNA Degradosome in Vitro. Journal of Biological Chemistry, 1999, 274, 4009-4016.	3.4	97
16	Function in Escherichia coli of the non-catalytic part of RNase E: role in the degradation of ribosome-free mRNA. Molecular Microbiology, 2002, 45, 1231-1243.	2.5	95
17	Membrane Recognition and Dynamics of the RNA Degradosome. PLoS Genetics, 2015, 11, e1004961.	3.5	93
18	Poly(A) polymerase I of Escherichia coli: characterization of the catalytic domain, an RNA binding site and regions for the interaction with proteins involved in mRNA degradation. Molecular Microbiology, 1999, 32, 765-775.	2.5	87

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19	5â€² Nucleotide heterogeneity and altered initiation of transcription at mutant lac promoters. <i>Journal of Molecular Biology</i> , 1982, 157, 619-633.	4.2	83
20	The social fabric of the RNA degradosome. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013, 1829, 514-522.	1.9	76
21	The K-loop, a general feature of the <i>Pyrococcus</i> C/D guide RNAs, is an RNA structural motif related to the K-turn. <i>Nucleic Acids Research</i> , 2005, 33, 6507-6514.	14.5	74
22	Productive and abortive initiation of transcription in vitro at the lac UV5 promoter. <i>Biochemistry</i> , 1980, 19, 5864-5869.	2.5	72
23	From conformational chaos to robust regulation: the structure and function of the multi-enzyme RNA degradosome. <i>Quarterly Reviews of Biophysics</i> , 2012, 45, 105-145.	5.7	71
24	Dual role of transcription and transcript stability in the regulation of gene expression in <i>Escherichia coli</i> cells cultured on glucose at different growth rates. <i>Nucleic Acids Research</i> , 2014, 42, 2460-2472.	14.5	71
25	Recognition and Cooperation Between the ATP-dependent RNA Helicase RhlB and Ribonuclease RNase E. <i>Journal of Molecular Biology</i> , 2007, 367, 113-132.	4.2	66
26	Evidence <i>in vivo</i> that the DEAD-box RNA helicase RhlB facilitates the degradation of ribosome-free mRNA by RNase E. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6913-6918.	7.1	65
27	Nucleolytic Inactivation and Degradation of the RNase III Processed pnp Message Encoding Polynucleotide Phosphorylase of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1994, 239, 439-454.	4.2	55
28	RNase II levels change according to the growth conditions: characterization of gmr, a new <i>Escherichia coli</i> gene involved in the modulation of RNase II. <i>Molecular Microbiology</i> , 2001, 39, 1550-1561.	2.5	51
29	Emergence of the Î²-CASP ribonucleases: Highly conserved and ubiquitous metallo-enzymes involved in messenger RNA maturation and degradation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013, 1829, 532-551.	1.9	48
30	Transcription and messenger RNA processing upstream of bacteriophage T4 gene 32. <i>Molecular Genetics and Genomics</i> , 1989, 219, 39-48.	2.4	45
31	Euryarchaeal Î²-CASP Proteins with Homology to Bacterial RNase J Have 5â€²- to 3â€²-Exoribonuclease Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 17574-17583.	3.4	45
32	The <i>Bacillus subtilis</i> Nucleotidyltransferase Is a tRNA CCA-Adding Enzyme. <i>Journal of Bacteriology</i> , 1998, 180, 6276-6282.	2.2	45
33	A tale of two mRNA degradation pathways mediated by RNase E. <i>Molecular Microbiology</i> , 2011, 82, 1305-1310.	2.5	44
34	RNase E in the Î³-Proteobacteria: conservation of intrinsically disordered noncatalytic region and molecular evolution of microdomains. <i>Molecular Genetics and Genomics</i> , 2015, 290, 847-862.	2.1	43
35	Archaeal Î²-CASP ribonucleases of the aCPSF1 family are orthologs of the eukaryal CPSF-73 factor. <i>Nucleic Acids Research</i> , 2013, 41, 1091-1103.	14.5	42
36	The Csr system regulates genome-wide mRNA stability and transcription and thus gene expression in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2016, 6, 25057.	3.3	42

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37	Characterization of the RNA Degradosome of <i>Pseudoalteromonas haloplanktis</i> : Conservation of the RNase E-RhlB Interaction in the Gammaproteobacteria. <i>Journal of Bacteriology</i> , 2010, 192, 5413-5423.	2.2	34
38	Detachment of the RNA degradosome from the inner membrane of <i>Escherichia coli</i> results in a global slowdown of mRNA degradation, proteolysis of RNase E and increased turnover of ribosome-free transcripts. <i>Molecular Microbiology</i> , 2019, 111, 1715-1731.	2.5	34
39	Identification of CRISPR and riboswitch related RNAs among novel noncoding RNAs of the euryarchaeon <i>Pyrococcus abyssi</i> . <i>BMC Genomics</i> , 2011, 12, 312.	2.8	30
40	<i>Escherichia coli</i> RNA Degradosome. <i>Methods in Enzymology</i> , 2001, 342, 333-345.	1.0	23
41	Degradation of targeted mRNAs in <i>Escherichia coli</i> : regulation by a small antisense RNA. <i>Genes and Development</i> , 2003, 17, 2351-2355.	5.9	21
42	Ribosomal RNA degradation induced by the bacterial RNA polymerase inhibitor rifampicin. <i>Rna</i> , 2021, 27, 946-958.	3.5	16
43	The association between Hfq and RNase E in long-term nitrogen-starved <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2022, 117, 54-66.	2.5	14
44	Chapter 4 Co-immunopurification of Multiprotein Complexes Containing RNA-Degrading Enzymes. <i>Methods in Enzymology</i> , 2008, 447, 65-82.	1.0	13
45	Polyribosome-Dependent Clustering of Membrane-Anchored RNA Degradosomes To Form Sites of mRNA Degradation in <i>Escherichia coli</i> . <i>MBio</i> , 2021, 12, e0193221.	4.1	8
46	Large-Scale Measurement of mRNA Degradation in <i>Escherichia coli</i> : To Delay or Not to Delay. <i>Methods in Enzymology</i> , 2018, 612, 47-66.	1.0	7
47	Chapter 10 Assaying DEAD-box RNA Helicases and Their Role in mRNA Degradation in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , 2008, 447, 183-197.	1.0	5
48	mRNA Decay and RNA-Degrading Machines in Prokaryotes and Eukaryotes. , 2006, , 185-206.		0