

Elena Evguenieva-Hackenberg

List of Publications by Year in descending order

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55
papers

1,718
citations

304743

22
h-index

289244

40
g-index

58
all docs

58
docs citations

58
times ranked

1429
citing authors

#	ARTICLE	IF	CITATIONS
1	The archaeal exosome core is a hexameric ring structure with three catalytic subunits. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 575-581.	8.2	198
2	An exosome-like complex in <i>Sulfolobus solfataricus</i> . <i>EMBO Reports</i> , 2003, 4, 889-893.	4.5	128
3	Exoribonuclease R Interacts with Endoribonuclease E and an RNA Helicase in the Psychrotrophic Bacterium <i>Pseudomonas syringae</i> Lz4W. <i>Journal of Biological Chemistry</i> , 2005, 280, 14572-14578.	3.4	114
4	A genome-wide survey of sRNAs in the symbiotic nitrogen-fixing alpha-proteobacterium <i>Sinorhizobium meliloti</i> . <i>BMC Genomics</i> , 2010, 11, 245.	2.8	104
5	RNA polyadenylation in Archaea: not observed in <i>Haloferax</i> while the exosome polynucleotidylates RNA in <i>Sulfolobus</i> . <i>EMBO Reports</i> , 2005, 6, 1188-1193.	4.5	82
6	Homoserine Lactones Influence the Reaction of Plants to Rhizobia. <i>International Journal of Molecular Sciences</i> , 2013, 14, 17122-17146.	4.1	77
7	Genome-wide transcription start site mapping of <i>Bradyrhizobium japonicum</i> grown free-living or in symbiosis – a rich resource to identify new transcripts, proteins and to study gene regulation. <i>BMC Genomics</i> , 2016, 17, 302.	2.8	70
8	Bacterial ribosomal RNA in pieces. <i>Molecular Microbiology</i> , 2005, 57, 318-325.	2.5	62
9	Characterization of native and reconstituted exosome complexes from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Molecular Microbiology</i> , 2006, 62, 1076-1089.	2.5	51
10	New aspects of RNA processing in prokaryotes. <i>Current Opinion in Microbiology</i> , 2011, 14, 587-592.	5.1	49
11	RNase III Processing of Intervening Sequences Found in Helix 9 of 23S rRNA in the Alpha Subclass of <i>Proteobacteria</i> . <i>Journal of Bacteriology</i> , 2000, 182, 4719-4729.	2.2	43
12	Dehydrogenases from All Three Domains of Life Cleave RNA. <i>Journal of Biological Chemistry</i> , 2002, 277, 46145-46150.	3.4	43
13	Riboregulation in plant-associated α -proteobacteria. <i>RNA Biology</i> , 2014, 11, 550-562.	3.1	43
14	Chapter 7 RNA Degradation in Archaea and Gram-Negative Bacteria Different from <i>Escherichia coli</i> . <i>Progress in Molecular Biology and Translational Science</i> , 2009, 85, 275-317.	1.7	41
15	Small RNAs of the <i>Bradyrhizobium/Rhodospseudomonas</i> lineage and their analysis. <i>RNA Biology</i> , 2012, 9, 47-58.	3.1	41
16	RNase J is involved in the 5' end maturation of 16S rRNA and 23S rRNA in <i>Sinorhizobium meliloti</i> . <i>FEBS Letters</i> , 2009, 583, 2339-2342.	2.8	39
17	Expression of small RNAs in Rhizobiales and protection of a small RNA and its degradation products by Hfq in <i>Sinorhizobium meliloti</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 331-336.	2.1	35
18	The stress-related, rhizobial small RNA RcsR1 destabilizes the autoinducer synthase encoding mRNA in <i>Sinorhizobium meliloti</i> . <i>RNA Biology</i> , 2016, 13, 486-499.	3.1	35

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19	RNase E Affects the Expression of the Acyl-Homoserine Lactone Synthase Gene <i>sinI</i> in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1435-1447.	2.2	34
20	Rrp4 and Csl4 Are Needed for Efficient Degradation but Not for Polyadenylation of Synthetic and Natural RNA by the Archaeal Exosome. <i>Biochemistry</i> , 2008, 47, 13158-13168.	2.5	29
21	Structure and function of the archaeal exosome. <i>Wiley Interdisciplinary Reviews RNA</i> , 2014, 5, 623-635.	6.4	29
22	The evolutionarily conserved subunits Rrp4 and Csl4 confer different substrate specificities to the archaeal exosome. <i>FEBS Letters</i> , 2010, 584, 2931-2936.	2.8	24
23	Heterogeneous complexes of the RNA exosome in <i>Sulfolobus solfataricus</i> . <i>Biochimie</i> , 2012, 94, 1578-1587.	2.6	24
24	The SmAP1/2 proteins of the crenarchaeon <i>Sulfolobus solfataricus</i> interact with the exosome and stimulate A-rich tailing of transcripts. <i>Nucleic Acids Research</i> , 2017, 45, 7938-7949.	14.5	24
25	Transcription attenuation-derived small RNA <i>rTrpL</i> regulates tryptophan biosynthesis gene expression in <i>trans</i> . <i>Nucleic Acids Research</i> , 2019, 47, 6396-6410.	14.5	24
26	Rapid Biophysical Characterization and NMR Spectroscopy Structural Analysis of Small Proteins from Bacteria and Archaea. <i>ChemBioChem</i> , 2020, 21, 1178-1187.	2.6	24
27	Subcellular localization of RNA degrading proteins and protein complexes in prokaryotes. <i>RNA Biology</i> , 2011, 8, 49-54.	3.1	21
28	Random and Repetitive Primer Amplified Polymorphic DNA Analysis of Five Soil and Two Clinical Isolates of <i>Rahnella aquatilis</i> . <i>Systematic and Applied Microbiology</i> , 1995, 18, 425-438.	2.8	19
29	The archaeal exosome localizes to the membrane. <i>FEBS Letters</i> , 2010, 584, 2791-2795.	2.8	18
30	One functional subunit is sufficient for catalytic activity and substrate specificity of <i>Escherichia coli</i> endoribonuclease III artificial heterodimers. <i>FEBS Letters</i> , 2002, 518, 93-96.	2.8	17
31	Archaeal DnaG contains a conserved N-terminal RNA-binding domain and enables tailing of rRNA by the exosome. <i>Nucleic Acids Research</i> , 2014, 42, 12691-12706.	14.5	16
32	The archaeal DnaG protein needs Csl4 for binding to the exosome and enhances its interaction with adenine-rich RNAs. <i>RNA Biology</i> , 2013, 10, 415-424.	3.1	13
33	Attack from both ends: mRNA degradation in the crenarchaeon <i>Sulfolobus solfataricus</i> . <i>Biochemical Society Transactions</i> , 2013, 41, 379-383.	3.4	11
34	RNase E and RNase J are needed for S-adenosylmethionine homeostasis in <i>Sinorhizobium meliloti</i> . <i>Microbiology (United Kingdom)</i> , 2017, 163, 570-583.	1.8	11
35	Both N-terminal catalytic and C-terminal RNA binding domain contribute to substrate specificity and cleavage site selection of RNase III. <i>FEBS Letters</i> , 2001, 509, 53-58.	2.8	10
36	The Archaeal Exosome. <i>Advances in Experimental Medicine and Biology</i> , 2010, 702, 29-38.	1.6	10

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37	The Leader Peptide peTrpL Forms Antibiotic-Containing Ribonucleoprotein Complexes for Posttranscriptional Regulation of Multiresistance Genes. <i>MBio</i> , 2020, 11, .	4.1	10
38	RNase E is involved in 5' end 23S rRNA processing in $\hat{\pm}$ -Proteobacteria. <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 780-786.	2.1	9
39	Small Open Reading Frames, Non-Coding RNAs and Repetitive Elements in <i>Bradyrhizobium japonicum</i> USDA 110. <i>PLoS ONE</i> , 2016, 11, e0165429.	2.5	9
40	Reprogramming of sRNA target specificity by the leader peptide peTrpL in response to antibiotic exposure. <i>Nucleic Acids Research</i> , 2021, 49, 2894-2915.	14.5	9
41	RNase E Enzymes from <i>Rhodobacter capsulatus</i> and <i>Escherichia coli</i> Differ in Context- and Sequence-Dependent In Vivo Cleavage within the Polycistronic puf mRNA. <i>Journal of Bacteriology</i> , 1999, 181, 7621-7625.	2.2	9
42	Temperature-dependent processing of the cspA mRNA in <i>Rhodobacter capsulatus</i> . <i>Microbiology (United Kingdom)</i> 188 Pt 8, 1477-1486.	1.8	8
43	Chapter 19 In Vivo and In Vitro Studies of RNA Degrading Activities in Archaea. <i>Methods in Enzymology</i> , 2008, 447, 381-416.	1.0	8
44	Bioinformatic prediction reveals posttranscriptional regulation of the chromosomal replication initiator gene <i>dnaA</i> by the attenuator sRNA rTrpL in <i>Escherichia coli</i> . <i>RNA Biology</i> , 2021, 18, 1-15.	3.1	6
45	Riboregulation in bacteria: From general principles to novel mechanisms of the <i>trp</i> attenuator and its sRNA and peptide products. <i>Wiley Interdisciplinary Reviews RNA</i> , 2022, 13, e1696.	6.4	6
46	Atypical Processing in Domain III of 23S rRNA of <i>Rhizobium leguminosarum</i> ATCC 10004 T at a Position Homologous to an rRNA Fragmentation Site in Protozoa. <i>Journal of Bacteriology</i> , 2002, 184, 3176-3185.	2.2	5
47	Nop5 interacts with the archaeal sRNA exosome. <i>FEBS Letters</i> , 2017, 591, 4039-4048.	2.8	5
48	Similarities and differences between 6S RNAs from <i>Bradyrhizobium japonicum</i> and <i>Sinorhizobium meliloti</i> . <i>Journal of Microbiology</i> , 2020, 58, 945-956.	2.8	5
49	Conserved small mRNA with an unique, extended Shine-Dalgarno sequence. <i>RNA Biology</i> , 2017, 14, 1353-1363.	3.1	3
50	RNA Processing. , 0, , 158-174.		3
51	The archaeal exosome. <i>Advances in Experimental Medicine and Biology</i> , 2010, 702, 29-38.	1.6	3
52	iCLIP analysis of RNA substrates of the archaeal exosome. <i>BMC Genomics</i> , 2020, 21, 797.	2.8	2
53	The Archaeal Exosome: Degradation and Tailing at the 3' End of RNA. <i>Nucleic Acids and Molecular Biology</i> , 2017, , 115-128.	0.2	1
54	Enzymatic Analysis of Reconstituted Archaeal Exosomes. <i>Methods in Molecular Biology</i> , 2020, 2062, 63-79.	0.9	0

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55	Editorial: RNA-Protein Interactions in mRNA Translation and Decay. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 803063.	3.5	0