

Joel G Belasco

List of Publications by Year in descending order

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48
papers

4,342
citations

201674

27
h-index

223800

46
g-index

50
all docs

50
docs citations

50
times ranked

3632
citing authors

#	ARTICLE	IF	CITATIONS
1	MicroRNAs direct rapid deadenylation of mRNA. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4034-4039.	7.1	1,009
2	The bacterial enzyme RppH triggers messenger RNA degradation by 5' pyrophosphate removal. Nature, 2008, 451, 355-358.	27.8	367
3	Mechanisms of mRNA decay in bacteria: a perspective. Gene, 1988, 72, 15-23.	2.2	312
4	Lost in translation: the influence of ribosomes on bacterial mRNA decay. Genes and Development, 2005, 19, 2526-2533.	5.9	260
5	Control of RNase E-mediated RNA degradation by 5'-terminal base pairing in E. coli. Nature, 1992, 360, 488-491.	27.8	222
6	Initiation of RNA Decay in Escherichia coli by 5' Pyrophosphate Removal. Molecular Cell, 2007, 27, 79-90.	9.7	218
7	Messenger RNA Degradation in Bacterial Cells. Annual Review of Genetics, 2014, 48, 537-559.	7.6	200
8	The stability of E. coli gene transcripts is dependent on determinants localized to specific mRNA segments. Cell, 1986, 46, 245-251.	28.9	192
9	All things must pass: contrasts and commonalities in eukaryotic and bacterial mRNA decay. Nature Reviews Molecular Cell Biology, 2010, 11, 467-478.	37.0	147
10	Catalytic activation of multimeric RNase E and RNase G by 5'-monophosphorylated RNA. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9211-9216.	7.1	115
11	Regions of RNase E Important for 5'-End-Dependent RNA Cleavage and Autoregulated Synthesis. Journal of Bacteriology, 2000, 182, 2468-2475.	2.2	100
12	An RNA Pyrophosphohydrolase Triggers 5'-Exonucleolytic Degradation of mRNA in Bacillus subtilis. Molecular Cell, 2011, 43, 940-949.	9.7	100
13	An evolutionarily conserved RNA stem-loop functions as a sensor that directs feedback regulation of RNase E gene expression. Genes and Development, 2000, 14, 1249-1260.	5.9	93
14	Identification of SMG6 cleavage sites and a preferred RNA cleavage motif by global analysis of endogenous NMD targets in human cells. Nucleic Acids Research, 2015, 43, 309-323.	14.5	90
15	A Novel RNA Phosphorylation State Enables 5' End-Dependent Degradation in Escherichia coli. Molecular Cell, 2017, 67, 44-54.e6.	9.7	75
16	Importance of Translation and Nonnucleolytic Ago Proteins for On-Target RNA Interference. Current Biology, 2008, 18, 1327-1332.	3.9	72
17	Consequences of RNase E scarcity in Escherichia coli. Molecular Microbiology, 2002, 43, 1053-1064.	2.5	59
18	RNase E autoregulates its synthesis in Escherichia coli by binding directly to a stem-loop in the 5' untranslated region. Molecular Microbiology, 2009, 72, 470-478.	2.5	53

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19	Specificity of RppH-dependent RNA degradation in <i>Bacillus subtilis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8864-8869.	7.1	47
20	The function of RNase G in Escherichia coli is constrained by its amino and carboxyl termini. Molecular Microbiology, 2004, 51, 1205-1217.	2.5	46
21	Importance of a 5' Stem-Loop for Longevity of papA mRNA in Escherichia coli. Journal of Bacteriology, 1999, 181, 3587-3590.	2.2	46
22	Stresses that Raise Np4A Levels Induce Protective Nucleoside Tetraphosphate Capping of Bacterial RNA. Molecular Cell, 2019, 75, 957-966.e8.	9.7	45
23	Structure and Biological Function of the RNA Pyrophosphohydrolase BdRppH from Bdellovibrio bacteriovorus. Structure, 2009, 17, 472-481.	3.3	40
24	Specificity and Evolutionary Conservation of the Escherichia coli RNA Pyrophosphohydrolase RppH. Journal of Biological Chemistry, 2015, 290, 9478-9486.	3.4	38
25	Obstacles to Scanning by RNase E Govern Bacterial mRNA Lifetimes by Hindering Access to Distal Cleavage Sites. Molecular Cell, 2019, 74, 284-295.e5.	9.7	38
26	Influence of translation on RppH-dependent mRNA degradation in Escherichia coli. Molecular Microbiology, 2012, 86, 1063-1072.	2.5	35
27	Np ₄ A alarmones function in bacteria as precursors to RNA caps. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3560-3567.	7.1	30
28	Chapter 5 PABLO Analysis of RNA. Methods in Enzymology, 2008, 447, 83-98.	1.0	29
29	Differential Control of the Rate of 5'-End-Dependent mRNA Degradation in Escherichia coli. Journal of Bacteriology, 2012, 194, 6233-6239.	2.2	26
30	Target discrimination by RNA-binding proteins: Role of the ancillary protein U2A and a critical leucine residue in differentiating the RNA-binding specificity of spliceosomal proteins U1A and U2B. Rna, 1998, 4, 1386-1396.	3.5	24
31	Two distinct regions on the surface of an RNA-binding domain are crucial for RNase E function. Molecular Microbiology, 2002, 46, 959-969.	2.5	24
32	Riboswitch control of bacterial RNA stability. Molecular Microbiology, 2021, 116, 361-365.	2.5	22
33	The ribosome binding site of a mini-ORF protects a T3SS mRNA from degradation by RNase E. Molecular Microbiology, 2012, 86, 1167-1182.	2.5	21
34	Distinct Requirements for 5'-Monophosphate-assisted RNA Cleavage by Escherichia coli RNase E and RNase G. Journal of Biological Chemistry, 2016, 291, 5038-5048.	3.4	19
35	Identification of the RNA Pyrophosphohydrolase RppH of Helicobacter pylori and Global Analysis of Its RNA Targets. Journal of Biological Chemistry, 2017, 292, 1934-1950.	3.4	16
36	Widespread Protection of RNA Cleavage Sites by a Riboswitch Aptamer that Folds as a Compact Obstacle to Scanning by RNase E. Molecular Cell, 2021, 81, 127-138.e4.	9.7	16

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37	NAD in RNA: unconventional headgear. Trends in Biochemical Sciences, 2015, 40, 245-247.	7.5	15
38	Structural and kinetic insights into stimulation of RppH-dependent RNA degradation by the metabolic enzyme DapF. Nucleic Acids Research, 2018, 46, 6841-6856.	14.5	15
39	Critical Features of a Conserved RNA Stem-loop Important for Feedback Regulation of RNase E Synthesis. Journal of Biological Chemistry, 2002, 277, 20415-20422.	3.4	13
40	Ribonuclease E: Chopping Knife and Sculpting Tool. Molecular Cell, 2017, 65, 3-4.	9.7	13
41	Importance of a diphosphorylated intermediate for RppH-dependent RNA degradation. RNA Biology, 2018, 15, 1-4.	3.1	13
42	Analysis of RNA 5' ends: Phosphate enumeration and cap characterization. Methods, 2019, 155, 3-9.	3.8	12
43	Effect of RNase E deficiency on translocon protein synthesis in an RNase E-inducible strain of enterohemorrhagic Escherichia coli O157:H7. FEMS Microbiology Letters, 2017, 364, .	1.8	7
44	A distinct RNA recognition mechanism governs Np ₄ decapping by RppH. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	2
45	Death by translation: ribosome-assisted degradation of mRNA by endonuclease toxins. FEBS Letters, 2017, 591, 1851-1852.	2.8	1
46	Way to go, RNA. Rna, 2015, 21, 565-566.	3.5	0
47	Multifaceted impact of a nucleoside monophosphate kinase on 5'-end-dependent mRNA degradation in bacteria. Nucleic Acids Research, 2021, 49, 11038-11049.	14.5	0
48	PABLO-QA: A sensitive assay for quantifying monophosphorylated RNA 5' ends. STAR Protocols, 2022, 3, 101190.	1.2	0