

Lynne E Maquat

List of Publications by Year in descending order

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108
papers

15,839
citations

19657

61
h-index

28297

105
g-index

173
all docs

173
docs citations

173
times ranked

16275
citing authors

#	ARTICLE	IF	CITATIONS
1	lncRNAs transactivate STAU1-mediated mRNA decay by duplexing with 3' UTRs via Alu elements. <i>Nature</i> , 2011, 470, 284-288.	27.8	1,122
2	Nonsense-mediated mRNA decay: splicing, translation and mRNP dynamics. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 89-99.	37.0	1,070
3	A rule for termination-codon position within intron-containing genes: when nonsense affects RNA abundance. <i>Trends in Biochemical Sciences</i> , 1998, 23, 198-199.	7.5	999
4	Regulation of cytoplasmic mRNA decay. <i>Nature Reviews Genetics</i> , 2012, 13, 246-259.	16.3	542
5	Evidence for a Pioneer Round of mRNA Translation. <i>Cell</i> , 2001, 106, 607-617.	28.9	502
6	Quality control of eukaryotic mRNA: safeguarding cells from abnormal mRNA function. <i>Genes and Development</i> , 2007, 21, 1833-3856.	5.9	501
7	Quality and quantity control of gene expression by nonsense-mediated mRNA decay. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 406-420.	37.0	501
8	Mammalian Staufen1 Recruits Upf1 to Specific mRNA 3' UTRs so as to Elicit mRNA Decay. <i>Cell</i> , 2005, 120, 195-208.	28.9	438
9	Organizing Principles of Mammalian Nonsense-Mediated mRNA Decay. <i>Annual Review of Genetics</i> , 2013, 47, 139-165.	7.6	369
10	Mechanistic links between nonsense-mediated mRNA decay and pre-mRNA splicing in mammalian cells. <i>Current Opinion in Cell Biology</i> , 2005, 17, 309-315.	5.4	358
11	Nonsense-Mediated mRNA Decay in Mammalian Cells Involves Decapping, Deadenylating, and Exonucleolytic Activities. <i>Molecular Cell</i> , 2003, 12, 675-687.	9.7	322
12	Retrotransposons as regulators of gene expression. <i>Science</i> , 2016, 351, aac7247.	12.6	321
13	Quality Control of mRNA Function. <i>Cell</i> , 2001, 104, 173-176.	28.9	301
14	Intron function in the nonsense-mediated decay of β -globin mRNA: Indications that pre-mRNA splicing in the nucleus can influence mRNA translation in the cytoplasm. <i>Rna</i> , 1998, 4, 801-815.	3.5	279
15	Unstable β -globin mRNA in mRNA-deficient β^0 thalassemia. <i>Cell</i> , 1981, 27, 543-553.	28.9	273
16	Nonsense-mediated mRNA decay in humans at a glance. <i>Journal of Cell Science</i> , 2016, 129, 461-7.	2.0	272
17	The multiple lives of NMD factors: balancing roles in gene and genome regulation. <i>Nature Reviews Genetics</i> , 2008, 9, 699-712.	16.3	261
18	At Least One Intron Is Required for the Nonsense-Mediated Decay of Triosephosphate Isomerase mRNA: a Possible Link between Nuclear Splicing and Cytoplasmic Translation. <i>Molecular and Cellular Biology</i> , 1998, 18, 5272-5283.	2.3	255

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19	Upf1 Phosphorylation Triggers Translational Repression during Nonsense-Mediated mRNA Decay. <i>Cell</i> , 2008, 133, 314-327.	28.9	251
20	Nonsense-mediated mRNA decay in mammals. <i>Journal of Cell Science</i> , 2005, 118, 1773-1776.	2.0	248
21	Leveraging Rules of Nonsense-Mediated mRNA Decay for Genome Engineering and Personalized Medicine. <i>Cell</i> , 2016, 165, 1319-1322.	28.9	243
22	The exon junction complex is detected on CBP80-bound but not eIF4E-bound mRNA in mammalian cells: dynamics of mRNP remodeling. <i>EMBO Journal</i> , 2002, 21, 3536-3545.	7.8	228
23	Identification and Characterization of Human Orthologues to <i>Saccharomyces cerevisiae</i> Upf2 Protein and Upf3 Protein (<i>Caenorhabditis elegans</i> SMG-4). <i>Molecular and Cellular Biology</i> , 2001, 21, 209-223.	2.3	226
24	Applying nonsense-mediated mRNA decay research to the clinic: progress and challenges. <i>Trends in Molecular Medicine</i> , 2006, 12, 306-316.	6.7	211
25	Selenium Deficiency Reduces the Abundance of mRNA for Se-Dependent Glutathione Peroxidase 1 by a UGA-Dependent Mechanism Likely To Be Nonsense Codon-Mediated Decay of Cytoplasmic mRNA. <i>Molecular and Cellular Biology</i> , 1998, 18, 2932-2939.	2.3	207
26	The mRNA Surveillance Protein hSMG-1 Functions in Genotoxic Stress Response Pathways in Mammalian Cells. <i>Molecular Cell</i> , 2004, 14, 585-598.	9.7	202
27	Quantitative microarray profiling provides evidence against widespread coupling of alternative splicing with nonsense-mediated mRNA decay to control gene expression. <i>Genes and Development</i> , 2006, 20, 153-158.	5.9	192
28	The Pioneer Round of Translation: Features and Functions. <i>Cell</i> , 2010, 142, 368-374.	28.9	192
29	A Yeast Model of FUS/TLS-Dependent Cytotoxicity. <i>PLoS Biology</i> , 2011, 9, e1001052.	5.6	191
30	Regulation of Multiple Core Spliceosomal Proteins by Alternative Splicing-Coupled Nonsense-Mediated mRNA Decay. <i>Molecular and Cellular Biology</i> , 2008, 28, 4320-4330.	2.3	183
31	Staufen-mediated mRNA decay. <i>Wiley Interdisciplinary Reviews RNA</i> , 2013, 4, 423-435.	6.4	175
32	Staufen1 regulates diverse classes of mammalian transcripts. <i>EMBO Journal</i> , 2007, 26, 2670-2681.	7.8	174
33	SMD and NMD are competitive pathways that contribute to myogenesis: effects on PAX3 and myogenin mRNAs. <i>Genes and Development</i> , 2009, 23, 54-66.	5.9	160
34	UPFront and center in RNA decay: UPF1 in nonsense-mediated mRNA decay and beyond. <i>Rna</i> , 2019, 25, 407-422.	3.5	152
35	A post-translational regulatory switch on UPF1 controls targeted mRNA degradation. <i>Genes and Development</i> , 2014, 28, 1900-1916.	5.9	148
36	Characterization of human Smg5/7a: A protein with similarities to <i>Caenorhabditis elegans</i> SMG5 and SMG7 that functions in the dephosphorylation of Upf1. <i>Rna</i> , 2003, 9, 77-87.	3.5	144

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37	Cloning of a Novel Phosphatidylinositol Kinase-related Kinase. <i>Journal of Biological Chemistry</i> , 2001, 276, 22709-22714.	3.4	138
38	CBP80 promotes interaction of Upf1 with Upf2 during nonsense-mediated mRNA decay in mammalian cells. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 893-901.	8.2	130
39	In vitro analysis of the Escherichia coli RNA polymerase interaction with wild-type and mutant lactose promoters. <i>Journal of Molecular Biology</i> , 1978, 125, 467-490.	4.2	127
40	Nonsense-mediated mRNA decay (NMD) in animal embryogenesis: to die or not to die, that is the question. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 422-430.	3.3	125
41	The pioneer translation initiation complex is functionally distinct from but structurally overlaps with the steady-state translation initiation complex. <i>Genes and Development</i> , 2004, 18, 745-754.	5.9	121
42	Nonsense-mediated mRNA Decay and Cancer. <i>Current Opinion in Genetics and Development</i> , 2018, 48, 44-50.	3.3	120
43	Evidence that phosphorylation of human Upf1 protein varies with intracellular location and is mediated by a wortmannin-sensitive and rapamycin-sensitive PI 3-kinase-related kinase signaling pathway. <i>Rna</i> , 2001, 7, 5-15.	3.5	120
44	Temporal and spatial characterization of nonsense-mediated mRNA decay. <i>Genes and Development</i> , 2013, 27, 541-551.	5.9	116
45	mRNA-deficient β -thalassemia results from a single nucleotide deletion. <i>Nucleic Acids Research</i> , 1982, 10, 5421-5427.	14.5	111
46	Rules that govern UPF1 binding to mRNA 3' UTRs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3357-3362.	7.1	110
47	STAU1 binding 3' UTR IR<math>\langle i \rangle</i></math>Alu</i>s complements nuclear retention to protect cells from PKR-mediated translational shutdown. <i>Genes and Development</i> , 2013, 27, 1495-1510.	5.9	109
48	Control of myogenesis by rodent SINE-containing lncRNAs. <i>Genes and Development</i> , 2013, 27, 793-804.	5.9	109
49	Nonsense-mediated mRNA decay. <i>Current Biology</i> , 2002, 12, R196-R197.	3.9	107
50	UPF1 Association with the Cap-Binding Protein, CBP80, Promotes Nonsense-Mediated mRNA Decay at Two Distinct Steps. <i>Molecular Cell</i> , 2010, 39, 396-409.	9.7	106
51	Mammalian heat shock p70 and histone H4 transcripts, which derive from naturally intronless genes, are immune to nonsense-mediated decay. <i>Rna</i> , 2001, 7, 445-456.	3.5	100
52	Cellular RNA surveillance in health and disease. <i>Science</i> , 2019, 366, 822-827.	12.6	95
53	Evidence that Poly(A) Binding Protein C1 Binds Nuclear Pre-mRNA Poly(A) Tails. <i>Molecular and Cellular Biology</i> , 2006, 26, 3085-3097.	2.3	92
54	Re-capping the message. <i>Trends in Biochemical Sciences</i> , 2009, 34, 435-442.	7.5	87

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55	Remodeling of the pioneer translation initiation complex involves translation and the karyopherin importin β^2 . <i>Genes and Development</i> , 2009, 23, 2537-2550.	5.9	85
56	eIF4G is required for the pioneer round of translation in mammalian cells. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 992-1000.	8.2	84
57	Tudor-SN α -mediated endonucleolytic decay of human cell microRNAs promotes G ₁ /S phase transition. <i>Science</i> , 2017, 356, 859-862.	12.6	77
58	Staufen2 functions in Staufen1-mediated mRNA decay by binding to itself and its paralog and promoting UPF1 helicase but not ATPase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 405-412.	7.1	71
59	Attenuation of nonsense-mediated mRNA decay facilitates the response to chemotherapeutics. <i>Nature Communications</i> , 2015, 6, 6632.	12.8	67
60	Efficiency of the Pioneer Round of Translation Affects the Cellular Site of Nonsense-Mediated mRNA Decay. <i>Molecular Cell</i> , 2008, 29, 255-262.	9.7	66
61	lac Promoter mutations located downstream from the transcription start site. <i>Journal of Molecular Biology</i> , 1980, 139, 537-549.	4.2	64
62	mRNA α -mRNA duplexes that autoelicit Staufen1-mediated mRNA decay. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1214-1220.	8.2	58
63	The Dharma of Nonsense-Mediated mRNA Decay in Mammalian Cells. <i>Molecules and Cells</i> , 2014, 37, 1-8.	2.6	55
64	NASTy effects on fibrillin pre-mRNA splicing: another case of ESE does it, but proposals for translation-dependent splice site choice live on. <i>Genes and Development</i> , 2002, 16, 1743-1753.	5.9	53
65	$\hat{\alpha}$ -Globin mRNA decay in erythroid cells: UG site-preferred endonucleolytic cleavage that is augmented by a premature termination codon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12741-12746.	7.1	53
66	Failsafe nonsense-mediated mRNA decay does not detectably target eIF4E-bound mRNA. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 974-979.	8.2	53
67	Staufen1 dimerizes through a conserved motif and a degenerate dsRNA-binding domain to promote mRNA decay. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 515-524.	8.2	51
68	Beyond Transcription: Roles of Transcription Factors in Pre-mRNA Splicing. <i>Chemical Reviews</i> , 2018, 118, 4339-4364.	47.7	50
69	Cap-binding protein 1-mediated and eukaryotic translation initiation factor 4E-mediated pioneer rounds of translation in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4258-4263.	7.1	47
70	mRNA surveillance in mammalian cells: The relationship between introns and translation termination. <i>Rna</i> , 2000, 6, 1-8.	3.5	43
71	The nuclear cap-binding complex as choreographer of gene transcription and pre-mRNA processing. <i>Genes and Development</i> , 2020, 34, 1113-1127.	5.9	41
72	MOLECULAR BIOLOGY: Skiing Toward Nonstop mRNA Decay. <i>Science</i> , 2002, 295, 2221-2222.	12.6	38

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73	Evidence for convergent evolution of SINE-directed Staufen-mediated mRNA decay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 968-973.	7.1	37
74	Gene expression networks: competing mRNA decay pathways in mammalian cells. <i>Biochemical Society Transactions</i> , 2009, 37, 1287-1292.	3.4	36
75	Biochemical analysis of long non-coding RNA-containing ribonucleoprotein complexes. <i>Methods</i> , 2012, 58, 88-93.	3.8	36
76	UPF1 helicase promotes TSN-mediated miRNA decay. <i>Genes and Development</i> , 2017, 31, 1483-1493.	5.9	34
77	NMD-degradome sequencing reveals ribosome-bound intermediates with 3' end non-templated nucleotides. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 940-950.	8.2	32
78	A β -thalassemic β -globin RNA that is labile in bone marrow cells is relatively stable in HeLa cells. <i>Nucleic Acids Research</i> , 1985, 13, 2855-2867.	14.5	28
79	Alu retrotransposons and their roles in shortening mRNA half-lives. <i>Cell Cycle</i> , 2011, 10, 1882-1883.	2.6	27
80	Evidence that selenium deficiency results in the cytoplasmic decay of GPx1 mRNA dependent on pre-mRNA splicing proteins bound to the mRNA exon-exon junction. <i>BioFactors</i> , 2001, 14, 37-42.	5.4	25
81	Viral subversion of nonsense-mediated mRNA decay. <i>Rna</i> , 2020, 26, 1509-1518.	3.5	24
82	Loss of the fragile X syndrome protein FMRP results in misregulation of nonsense-mediated mRNA decay. <i>Nature Cell Biology</i> , 2021, 23, 40-48.	10.3	23
83	lac Promoter mutation Pr115 generates a new transcription initiation point. <i>Journal of Molecular Biology</i> , 1980, 139, 551-556.	4.2	20
84	NMD resulting from encephalomyocarditis virus IRES-directed translation initiation seems to be restricted to CBP80/20-bound mRNA. <i>EMBO Reports</i> , 2008, 9, 446-451.	4.5	19
85	Transcriptional coactivator PGC-1 β contains a novel CBP80-binding motif that orchestrates efficient target gene expression. <i>Genes and Development</i> , 2018, 32, 555-567.	5.9	18
86	Short interspersed nuclear element (SINE)-mediated post-transcriptional effects on human and mouse gene expression: SINE-LIP for active duty. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190344.	4.0	18
87	Studying Nonsense-Mediated mRNA Decay in Mammalian Cells. <i>Methods in Enzymology</i> , 2008, 449, 177-201.	1.0	14
88	Noncoding RNAs: biology and applications—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 118-141.	3.8	13
89	CARMing down the SINEs of anarchy: two paths to freedom from paraspeckle detention. <i>Genes and Development</i> , 2015, 29, 687-689.	5.9	10
90	Identifying Cellular Nonsense-Mediated mRNA Decay (NMD) Targets: Immunoprecipitation of Phosphorylated UPF1 Followed by RNA Sequencing (p-UPF1 RIP-seq). <i>Methods in Molecular Biology</i> , 2018, 1720, 175-186.	0.9	10

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91	NMD abnormalities during brain development in the Fmr1-knockout mouse model of fragile X syndrome. <i>Genome Biology</i> , 2021, 22, 317.	8.8	9
92	UPF1 Learns to Relax and Unwind. <i>Molecular Cell</i> , 2011, 41, 621-623.	9.7	8
93	3'UTR READS + RIP defines differential Staufen1 binding to alternative 3'UTR isoforms and reveals structures and sequence motifs influencing binding and polysome association. <i>Rna</i> , 2020, 26, 1621-1636.	3.5	8
94	An enemy within: fly reconnaissance deploys an endonuclease to destroy nonsense-containing mRNA. <i>Trends in Cell Biology</i> , 2004, 14, 594-597.	7.9	7
95	A TRICK'n way to see the pioneer round of translation. <i>Science</i> , 2015, 347, 1316-1317.	12.6	7
96	NCBP3: A Multifaceted Adaptive Regulator of Gene Expression. <i>Trends in Biochemical Sciences</i> , 2021, 46, 87-96.	7.5	7
97	Distinct mechanisms obviate the potentially toxic effects of inverted-repeat Alu elements on cellular RNA metabolism. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 496-498.	8.2	7
98	Defining nonsense-mediated mRNA decay intermediates in human cells. <i>Methods</i> , 2019, 155, 68-76.	3.8	5
99	Dodging two bullets with one dsRNA-binding protein. <i>Cell Cycle</i> , 2014, 13, 345-346.	2.6	4
100	Transcriptional Coactivator PGC-1 β Binding to Newly Synthesized RNA via CBP80: A Nexus for Co- and Posttranscriptional Gene Regulation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2019, 84, 47-54.	1.1	4
101	Telomeric RNAs as a novel player in telomeric integrity. <i>F1000 Biology Reports</i> , 2009, 1, 90.	4.0	4
102	Molecular autopsy provides evidence for widespread ribosome-phased mRNA fragmentation. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 299-301.	8.2	3
103	Defective secretory-protein mRNAs take the RAPP. <i>Trends in Biochemical Sciences</i> , 2014, 39, 154-156.	7.5	2
104	Evaluating the susceptibility of AGO2-loaded microRNAs to degradation by nucleases in vitro. <i>Methods</i> , 2019, 152, 18-22.	3.8	1
105	Lessons from the functional characterization of lncRNAs: introduction to mammalian genome special issue. <i>Mammalian Genome</i> , 2022, , .	2.2	1
106	Mobile DNA: an evolving field. <i>Mobile DNA</i> , 2014, 5, 16.	3.6	0
107	mRNA decay in mammals. <i>FASEB Journal</i> , 2012, 26, 353.1.	0.5	0
108	Nonsense-mediated mRNA decay and human disease: Genome guardian and executor. <i>FASEB Journal</i> , 2018, 32, 99.1.	0.5	0