

# Lynne E Maquat

## List of Publications by Year in descending order

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108  
papers

15,839  
citations

22548

61  
h-index

32181

105  
g-index

173  
all docs

173  
docs citations

173  
times ranked

17913  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lessons from the functional characterization of lncRNAs: introduction to mammalian genome special issue. <i>Mammalian Genome</i> , 2022, , .	1.0	1
2	NCBP3: A Multifaceted Adaptive Regulator of Gene Expression. <i>Trends in Biochemical Sciences</i> , 2021, 46, 87-96.	3.7	7
3	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.	4.6	23
4	Noncoding RNAs: biology and applications—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 118-141.	1.8	13
5	NMD abnormalities during brain development in the Fmr1-knockout mouse model of fragile X syndrome. <i>Genome Biology</i> , 2021, 22, 317.	3.8	9
6	Viral subversion of nonsense-mediated mRNA decay. <i>Rna</i> , 2020, 26, 1509-1518.	1.6	24
7	The nuclear cap-binding complex as choreographer of gene transcription and pre-mRNA processing. <i>Genes and Development</i> , 2020, 34, 1113-1127.	2.7	41
8	3â€²READS + RIP defines differential Staufen1 binding to alternative 3â€²UTR isoforms and reveals structures and sequence motifs influencing binding and polysome association. <i>Rna</i> , 2020, 26, 1621-1636.	1.6	8
9	Short interspersed nuclear element (SINE)-mediated post-transcriptional effects on human and mouse gene expression: SINE-UP for active duty. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190344.	1.8	18
10	Evaluating the susceptibility of AGO2-loaded microRNAs to degradation by nucleases in vitro. <i>Methods</i> , 2019, 152, 18-22.	1.9	1
11	Cellular RNA surveillance in health and disease. <i>Science</i> , 2019, 366, 822-827.	6.0	95
12	UPF1 front and center in RNA decay: UPF1 in nonsense-mediated mRNA decay and beyond. <i>Rna</i> , 2019, 25, 407-422.	1.6	152
13	Quality and quantity control of gene expression by nonsense-mediated mRNA decay. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 406-420.	16.1	501
14	Defining nonsense-mediated mRNA decay intermediates in human cells. <i>Methods</i> , 2019, 155, 68-76.	1.9	5
15	Transcriptional Coactivator PGC-1 $\beta$ 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.	2.0	4
16	Transcriptional coactivator PGC-1 $\beta$ contains a novel CBP80-binding motif that orchestrates efficient target gene expression. <i>Genes and Development</i> , 2018, 32, 555-567.	2.7	18
17	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.	3.3	37
18	Beyond Transcription: Roles of Transcription Factors in Pre-mRNA Splicing. <i>Chemical Reviews</i> , 2018, 118, 4339-4364.	23.0	50

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19	Molecular autopsy provides evidence for widespread ribosome-phased mRNA fragmentation. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 299-301.	3.6	3
20	Identifying Cellular Nonsense-Mediated mRNA Decay (NMD) Targets: Immunoprecipitation of Phosphorylated UPF1 Followed by RNA Sequencing (p-UPF1 RIP <sup>+</sup> Seq). <i>Methods in Molecular Biology</i> , 2018, 1720, 175-186.	0.4	10
21	Nonsense-mediated mRNA Decay and Cancer. <i>Current Opinion in Genetics and Development</i> , 2018, 48, 44-50.	1.5	120
22	NMD-degradome sequencing reveals ribosome-bound intermediates with 3' end non-templated nucleotides. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 940-950.	3.6	32
23	Nonsense-mediated mRNA decay and human disease: Genome guardian and executor. <i>FASEB Journal</i> , 2018, 32, 99.1.	0.2	0
24	Tudor-SN-mediated endonucleolytic decay of human cell microRNAs promotes G <sub>1</sub> /S phase transition. <i>Science</i> , 2017, 356, 859-862.	6.0	77
25	UPF1 helicase promotes TSN-mediated miRNA decay. <i>Genes and Development</i> , 2017, 31, 1483-1493.	2.7	34
26	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.	3.6	7
27	Leveraging Rules of Nonsense-Mediated mRNA Decay for Genome Engineering and Personalized Medicine. <i>Cell</i> , 2016, 165, 1319-1322.	13.5	243
28	Nonsense-mediated mRNA decay in humans at a glance. <i>Journal of Cell Science</i> , 2016, 129, 461-7.	1.2	272
29	Retrotransposons as regulators of gene expression. <i>Science</i> , 2016, 351, aac7247.	6.0	321
30	A TRICK'n way to see the pioneer round of translation. <i>Science</i> , 2015, 347, 1316-1317.	6.0	7
31	Attenuation of nonsense-mediated mRNA decay facilitates the response to chemotherapeutics. <i>Nature Communications</i> , 2015, 6, 6632.	5.8	67
32	CARMing down the SINEs of anarchy: two paths to freedom from paraspeckle detention. <i>Genes and Development</i> , 2015, 29, 687-689.	2.7	10
33	The Dharma of Nonsense-Mediated mRNA Decay in Mammalian Cells. <i>Molecules and Cells</i> , 2014, 37, 1-8.	1.0	55
34	Dodging two bullets with one dsRNA-binding protein. <i>Cell Cycle</i> , 2014, 13, 345-346.	1.3	4
35	Defective secretory-protein mRNAs take the RAPP. <i>Trends in Biochemical Sciences</i> , 2014, 39, 154-156.	3.7	2
36	A post-translational regulatory switch on UPF1 controls targeted mRNA degradation. <i>Genes and Development</i> , 2014, 28, 1900-1916.	2.7	148

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37	Mobile DNA: an evolving field. <i>Mobile DNA</i> , 2014, 5, 16.	1.3	0
38	Staufen-mediated mRNA decay. <i>Wiley Interdisciplinary Reviews RNA</i> , 2013, 4, 423-435.	3.2	175
39	Organizing Principles of Mammalian Nonsense-Mediated mRNA Decay. <i>Annual Review of Genetics</i> , 2013, 47, 139-165.	3.2	369
40	STAU1 binding 3' UTR IRAlu complements nuclear retention to protect cells from PKR-mediated translational shutdown. <i>Genes and Development</i> , 2013, 27, 1495-1510.	2.7	109
41	mRNA-mRNA duplexes that autoelicit Staufen1-mediated mRNA decay. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1214-1220.	3.6	58
42	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.	3.3	71
43	Temporal and spatial characterization of nonsense-mediated mRNA decay. <i>Genes and Development</i> , 2013, 27, 541-551.	2.7	116
44	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.	3.6	51
45	Control of myogenesis by rodent SINE-containing lncRNAs. <i>Genes and Development</i> , 2013, 27, 793-804.	2.7	109
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.	3.3	110
47	Biochemical analysis of long non-coding RNA-containing ribonucleoprotein complexes. <i>Methods</i> , 2012, 58, 88-93.	1.9	36
48	Regulation of cytoplasmic mRNA decay. <i>Nature Reviews Genetics</i> , 2012, 13, 246-259.	7.7	542
49	mRNA decay in mammals. <i>FASEB Journal</i> , 2012, 26, 353.1.	0.2	0
50	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.	1.5	125
51	UPF1 Learns to Relax and Unwind. <i>Molecular Cell</i> , 2011, 41, 621-623.	4.5	8
52	lncRNAs transactivate STAU1-mediated mRNA decay by duplexing with 3' UTRs via Alu elements. <i>Nature</i> , 2011, 470, 284-288.	18.7	1,122
53	Alu-rich long ncRNAs and their roles in shortening mRNA half-lives. <i>Cell Cycle</i> , 2011, 10, 1882-1883.	1.3	27
54	A Yeast Model of FUS/TLS-Dependent Cytotoxicity. <i>PLoS Biology</i> , 2011, 9, e1001052.	2.6	191

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55	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.	4.5	106
56	The Pioneer Round of Translation: Features and Functions. <i>Cell</i> , 2010, 142, 368-374.	13.5	192
57	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.	2.7	160
58	Remodeling of the pioneer translation initiation complex involves translation and the karyopherin importin $\beta$ . <i>Genes and Development</i> , 2009, 23, 2537-2550.	2.7	85
59	Re-capping the message. <i>Trends in Biochemical Sciences</i> , 2009, 34, 435-442.	3.7	87
60	Gene expression networks: competing mRNA decay pathways in mammalian cells. <i>Biochemical Society Transactions</i> , 2009, 37, 1287-1292.	1.6	36
61	Telomeric RNAs as a novel player in telomeric integrity. <i>F1000 Biology Reports</i> , 2009, 1, 90.	4.0	4
62	NMD resulting from encephalomyocarditis virus IRES-directed translation initiation seems to be restricted to CBP80/20S-bound mRNA. <i>EMBO Reports</i> , 2008, 9, 446-451.	2.0	19
63	The multiple lives of NMD factors: balancing roles in gene and genome regulation. <i>Nature Reviews Genetics</i> , 2008, 9, 699-712.	7.7	261
64	Efficiency of the Pioneer Round of Translation Affects the Cellular Site of Nonsense-Mediated mRNA Decay. <i>Molecular Cell</i> , 2008, 29, 255-262.	4.5	66
65	Upf1 Phosphorylation Triggers Translational Repression during Nonsense-Mediated mRNA Decay. <i>Cell</i> , 2008, 133, 314-327.	13.5	251
66	Regulation of Multiple Core Spliceosomal Proteins by Alternative Splicing-Coupled Nonsense-Mediated mRNA Decay. <i>Molecular and Cellular Biology</i> , 2008, 28, 4320-4330.	1.1	183
67	Studying Nonsense-Mediated mRNA Decay in Mammalian Cells. <i>Methods in Enzymology</i> , 2008, 449, 177-201.	0.4	14
68	Quality control of eukaryotic mRNA: safeguarding cells from abnormal mRNA function. <i>Genes and Development</i> , 2007, 21, 1833-3856.	2.7	501
69	Staufen1 regulates diverse classes of mammalian transcripts. <i>EMBO Journal</i> , 2007, 26, 2670-2681.	3.5	174
70	Failsafe nonsense-mediated mRNA decay does not detectably target eIF4E-bound mRNA. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 974-979.	3.6	53
71	Applying nonsense-mediated mRNA decay research to the clinic: progress and challenges. <i>Trends in Molecular Medicine</i> , 2006, 12, 306-316.	3.5	211
72	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.	2.7	192

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73	Evidence that Poly(A) Binding Protein C1 Binds Nuclear Pre-mRNA Poly(A) Tails. <i>Molecular and Cellular Biology</i> , 2006, 26, 3085-3097.	1.1	92
74	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.	3.6	130
75	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.	2.6	358
76	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.	3.3	47
77	Nonsense-mediated mRNA decay in mammals. <i>Journal of Cell Science</i> , 2005, 118, 1773-1776.	1.2	248
78	Mammalian Staufen1 Recruits Upf1 to Specific mRNA 3'UTRs so as to Elicit mRNA Decay. <i>Cell</i> , 2005, 120, 195-208.	13.5	438
79	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.	2.7	121
80	Nonsense-mediated mRNA decay: splicing, translation and mRNP dynamics. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 89-99.	16.1	1,070
81	eIF4G is required for the pioneer round of translation in mammalian cells. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 992-1000.	3.6	84
82	An enemy within: fly reconnaissance deploys an endonuclease to destroy nonsense-containing mRNA. <i>Trends in Cell Biology</i> , 2004, 14, 594-597.	3.6	7
83	The mRNA Surveillance Protein hSMG-1 Functions in Genotoxic Stress Response Pathways in Mammalian Cells. <i>Molecular Cell</i> , 2004, 14, 585-598.	4.5	202
84	Nonsense-Mediated mRNA Decay in Mammalian Cells Involves Decapping, Deadenylation, and Exonucleolytic Activities. <i>Molecular Cell</i> , 2003, 12, 675-687.	4.5	322
85	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.	1.6	144
86	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.	2.7	53
87	MOLECULAR BIOLOGY: Skiing Toward Nonstop mRNA Decay. <i>Science</i> , 2002, 295, 2221-2222.	6.0	38
88	Î-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.	3.3	53
89	Nonsense-mediated mRNA decay. <i>Current Biology</i> , 2002, 12, R196-R197.	1.8	107
90	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.	3.5	228

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91	Quality Control of mRNA Function. <i>Cell</i> , 2001, 104, 173-176.	13.5	301
92	Evidence for a Pioneer Round of mRNA Translation. <i>Cell</i> , 2001, 106, 607-617.	13.5	502
93	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.	1.6	100
94	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.	2.6	25
95	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.	1.1	226
96	Cloning of a Novel Phosphatidylinositol Kinase-related Kinase. <i>Journal of Biological Chemistry</i> , 2001, 276, 22709-22714.	1.6	138
97	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.	1.6	120
98	mRNA surveillance in mammalian cells: The relationship between introns and translation termination. <i>Rna</i> , 2000, 6, 1-8.	1.6	43
99	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.	3.7	999
100	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.	1.1	255
101	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.	1.1	207
102	Intron function in the nonsense-mediated decay of $\beta$ -globin mRNA: Indications that pre-mRNA splicing in the nucleus can influence mRNA translation in the cytoplasm. <i>Rna</i> , 1998, 4, 801-815.	1.6	279
103	A $\beta$ -thalassemic $\beta$ -globin RNA that is labile in bone marrow cells is relatively stable in HeLa cells. <i>Nucleic Acids Research</i> , 1985, 13, 2855-2867.	6.5	28
104	mRNA-deficient $\beta$ -thalassemia results from a single nucleotide deletion. <i>Nucleic Acids Research</i> , 1982, 10, 5421-5427.	6.5	111
105	Unstable $\beta$ -globin mRNA in mRNA-deficient $\beta^0$ thalassemia. <i>Cell</i> , 1981, 27, 543-553.	13.5	273
106	lac Promoter mutations located downstream from the transcription start site. <i>Journal of Molecular Biology</i> , 1980, 139, 537-549.	2.0	64
107	lac Promoter mutation Pr115 generates a new transcription initiation point. <i>Journal of Molecular Biology</i> , 1980, 139, 551-556.	2.0	20
108	In vitro analysis of the <i>Escherichia coli</i> RNA polymerase interaction with wild-type and mutant lactose promoters. <i>Journal of Molecular Biology</i> , 1978, 125, 467-490.	2.0	127