Keita Miyoshi

List of Publications by Year
in descending order

60 papers	6,457 citations	126907 33 h-index	144013 57 g-index
62 all docs	62 docs citations	62 times ranked	8436 citing authors

#	Article	IF	Citations
1	Nonsense-mediated mRNA decay: splicing, translation and mRNP dynamics. Nature Reviews Molecular Cell Biology, 2004, 5, 89-99.	37.0	1,070
2	Quality and quantity control of gene expression by nonsense-mediated mRNA decay. Nature Reviews Molecular Cell Biology, 2019, 20, 406-420.	37.0	501
3	Mammalian Staufen1 Recruits Upf1 to Specific mRNA 3â€²UTRs so as to Elicit mRNA Decay. Cell, 2005, 120, 195-208.	28.9	438
4	Nonsense-Mediated mRNA Decay in Mammalian Cells Involves Decapping, Deadenylating, and Exonucleolytic Activities. Molecular Cell, 2003, 12, 675-687.	9.7	322
5	Retrotransposons as regulators of gene expression. Science, 2016, 351, aac7247.	12.6	321
6	Nonsense-mediated mRNA decay in humans at a glance. Journal of Cell Science, 2016, 129, 461-7.	2.0	272
7	Upf1 Phosphorylation Triggers Translational Repression during Nonsense-Mediated mRNA Decay. Cell, 2008, 133, 314-327.	28.9	251
8	Nonsense-mediated mRNA decay in mammals. Journal of Cell Science, 2005, 118, 1773-1776.	2.0	248
9	Leveraging Rules of Nonsense-Mediated mRNA Decay for Genome Engineering and Personalized Medicine. Cell, 2016, 165, 1319-1322.	28.9	243
10	Identification and Characterization of Human Orthologues to Saccharomyces cerevisiae Upf2 Protein and Upf3 Protein (Caenorhabditis elegans SMG-4). Molecular and Cellular Biology, 2001, 21, 209-223.	2.3	226
11	The Pioneer Round of Translation: Features and Functions. Cell, 2010, 142, 368-374.	28.9	192
12	Staufenâ€mediated <scp>mRNA</scp> decay. Wiley Interdisciplinary Reviews RNA, 2013, 4, 423-435.	6.4	175
13	SMD and NMD are competitive pathways that contribute to myogenesis: effects on PAX3 and myogenin mRNAs. Genes and Development, 2009, 23, 54-66.	5.9	160
14	UPFront and center in RNA decay: UPF1 in nonsense-mediated mRNA decay and beyond. Rna, 2019, 25, 407-422.	3.5	152
15	A post-translational regulatory switch on UPF1 controls targeted mRNA degradation. Genes and Development, 2014, 28, 1900-1916.	5.9	148
16	CBP80 promotes interaction of Upf1 with Upf2 during nonsense-mediated mRNA decay in mammalian cells. Nature Structural and Molecular Biology, 2005, 12, 893-901.	8.2	130
17	Nonsense-mediated mRNA Decay and Cancer. Current Opinion in Genetics and Development, 2018, 48, 44-50.	3.3	120
18	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. Rna, 2001, 7, 5-15.	3.5	120

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19	Temporal and spatial characterization of nonsense-mediated mRNA decay. Genes and Development, 2013, 27, 541-551.	5.9	116
20	Rules that govern UPF1 binding to mRNA 3â€² UTRs. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3357-3362.	7.1	110
21	Nonsense-mediated mRNA decay. Current Biology, 2002, 12, R196-R197.	3.9	107
22	Mammalian heat shock p70 and histone H4 transcripts, which derive from naturally intronless genes, are immune to nonsense-mediated decay. Rna, 2001, 7, 445-456.	3.5	100
23	Cellular RNA surveillance in health and disease. Science, 2019, 366, 822-827.	12.6	95
24	Tudor-SNâ€"mediated endonucleolytic decay of human cell microRNAs promotes G ₁ /S phase transition. Science, 2017, 356, 859-862.	12.6	77
25	Staufen2 functions in Staufen1-mediated mRNA decay by binding to itself and its paralog and promoting UPF1 helicase but not ATPase activity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 405-412.	7.1	71
26	Attenuation of nonsense-mediated mRNA decay facilitates the response to chemotherapeutics. Nature Communications, 2015, 6, 6632.	12.8	67
27	NASty effects on fibrillin pre-mRNA splicing: another case of ESE does it, but proposals for translation-dependent splice site choice live on. Genes and Development, 2002, 16, 1743-1753.	5.9	53
28	Staufen1 dimerizes through a conserved motif and a degenerate dsRNA-binding domain to promote mRNA decay. Nature Structural and Molecular Biology, 2013, 20, 515-524.	8.2	51
29	â€˜Black sheepâ€™ that donâ€™t leave the double-stranded RNA-binding domain fold. Trends in Biochemical Sciences, 2014, 39, 328-340.	7.5	48
30	The power of point mutations. Nature Genetics, 2001, 27, 5-6.	21.4	43
31	The nuclear cap-binding complex as choreographer of gene transcription and pre-mRNA processing. Genes and Development, 2020, 34, 1113-1127.	5.9	41
32	MOLECULAR BIOLOGY: Skiing Toward Nonstop mRNA Decay. Science, 2002, 295, 2221-2222.	12.6	38
33	Evidence for convergent evolution of SINE-directed Staufen-mediated mRNA decay. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 968-973.	7.1	37
34	Gene expression networks: competing mRNA decay pathways in mammalian cells. Biochemical Society Transactions, 2009, 37, 1287-1292.	3.4	36
35	UPF1 helicase promotes TSN-mediated miRNA decay. Genes and Development, 2017, 31, 1483-1493.	5.9	34
36	NMD-degradome sequencing reveals ribosome-bound intermediates with 3â€²-end non-templated nucleotides. Nature Structural and Molecular Biology, 2018, 25, 940-950.	8.2	32

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37	Evidence that selenium deficiency results in the cytoplasmic decay of GPx1 mRNA dependent on preâ€mRNA splicing proteins bound to the mRNA exonâ€exon junction. BioFactors, 2001, 14, 37-42.	5.4	25
38	Crystal structure of a poly(rA) staggered zipper at acidic pH: evidence that adenine N1 protonation mediates parallel double helix formation. Nucleic Acids Research, 2016, 44, 8417-8424.	14.5	24
39	Viral subversion of nonsense-mediated mRNA decay. Rna, 2020, 26, 1509-1518.	3.5	24
40	Loss of the fragile X syndrome protein FMRP results in misregulation of nonsense-mediated mRNA decay. Nature Cell Biology, 2021, 23, 40-48.	10.3	23
41	Transcriptional coactivator PGC-1Î± contains a novel CBP80-binding motif that orchestrates efficient target gene expression. Genes and Development, 2018, 32, 555-567.	5.9	18
42	Noncoding RNAs: biology and applicationsâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 118-141.	3.8	13
43	CARMing down the SINEs of anarchy: two paths to freedom from paraspeckle detention. Genes and Development, 2015, 29, 687-689.	5.9	10
44	Identifying Cellular Nonsense-Mediated mRNA Decay (NMD) Targets: Immunoprecipitation of Phosphorylated UPF1 Followed by RNA Sequencing (p-UPF1 RIPâ^'Seq). Methods in Molecular Biology, 2018, 1720, 175-186.	0.9	10
45	NMD abnormalities during brain development in the Fmr1-knockout mouse model of fragile X syndrome. Genome Biology, 2021, 22, 317.	8.8	9
46	3â€²READS + RIP defines differential Staufen1 binding to alternative 3â€²UTR isoforms and reveals structures and sequence motifs influencing binding and polysome association. Rna, 2020, 26, 1621-1636.	3.5	8
47	A TRICK'n way to see the pioneer round of translation. Science, 2015, 347, 1316-1317.	12.6	7
48	NCBP3: A Multifaceted Adaptive Regulator of Gene Expression. Trends in Biochemical Sciences, 2021, 46, 87-96.	7.5	7
49	Distinct mechanisms obviate the potentially toxic effects of inverted-repeat Alu elements on cellular RNA metabolism. Nature Structural and Molecular Biology, 2017, 24, 496-498.	8.2	7
50	Coupling pre-mRNA splicing and 3â€² end formation to mRNA export: alternative ways to punch the nuclear export clock. Genes and Development, 2016, 30, 487-488.	5.9	6
51	Defining nonsense-mediated mRNA decay intermediates in human cells. Methods, 2019, 155, 68-76.	3.8	5
52	Dodging two bullets with one dsRNA-binding protein. Cell Cycle, 2014, 13, 345-346.	2.6	4
53	The amazing web of post-transcriptional gene control: The sum of small changes can make for significant consequences. Rna, 2015, 21, 488-489.	3.5	3
54	Molecular autopsy provides evidence for widespread ribosome-phased mRNA fragmentation. Nature Structural and Molecular Biology, 2018, 25, 299-301.	8.2	3

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55	Defective secretory-protein mRNAs take the RAPP. Trends in Biochemical Sciences, 2014, 39, 154-156.	7.5	2
56	Evaluating the susceptibility of AGO2-loaded microRNAs to degradation by nucleases in vitro. Methods, 2019, 152, 18-22.	3.8	1
57	Eukaryotic antisense ahead of its time. Nature Reviews Molecular Cell Biology, 2016, 17, 204-204.	37.0	0
58	Mammalian pioneer translation initiation complex and mRNA decay. FASEB Journal, 2008, 22, 527.2.	0.5	0
59	mRNA decay in mammals. FASEB Journal, 2012, 26, 353.1.	0.5	0
60	Nonsenseâ€mediated mRNA decay and human disease: Genome guardian and executor. FASEB Journal, 2018, 32, 99.1.	0.5	0