Keita Miyoshi

List of Publications by Year
in descending order

60 papers	6,457 citations	145106 33 h-index	162838 57 g-index
62 all docs	62 docs citations	62 times ranked	9278 citing authors

#	Article	IF	Citations
1	NCBP3: A Multifaceted Adaptive Regulator of Gene Expression. Trends in Biochemical Sciences, 2021, 46, 87-96.	3.7	7
2	Loss of the fragile X syndrome protein FMRP results in misregulation of nonsense-mediated mRNA decay. Nature Cell Biology, 2021, 23, 40-48.	4.6	23
3	Noncoding RNAs: biology and applicationsâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 118-141.	1.8	13
4	NMD abnormalities during brain development in the Fmr1-knockout mouse model of fragile X syndrome. Genome Biology, 2021, 22, 317.	3.8	9
5	Viral subversion of nonsense-mediated mRNA decay. Rna, 2020, 26, 1509-1518.	1.6	24
6	The nuclear cap-binding complex as choreographer of gene transcription and pre-mRNA processing. Genes and Development, 2020, 34, 1113-1127.	2.7	41
7	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.	1.6	8
8	Evaluating the susceptibility of AGO2-loaded microRNAs to degradation by nucleases in vitro. Methods, 2019, 152, 18-22.	1.9	1
9	Cellular RNA surveillance in health and disease. Science, 2019, 366, 822-827.	6.0	95
10	UPFront and center in RNA decay: UPF1 in nonsense-mediated mRNA decay and beyond. Rna, 2019, 25, 407-422.	1.6	152
11	Quality and quantity control of gene expression by nonsense-mediated mRNA decay. Nature Reviews Molecular Cell Biology, 2019, 20, 406-420.	16.1	501
12	Defining nonsense-mediated mRNA decay intermediates in human cells. Methods, 2019, 155, 68-76.	1.9	5
13	Transcriptional coactivator PGC-1Î± contains a novel CBP80-binding motif that orchestrates efficient target gene expression. Genes and Development, 2018, 32, 555-567.	2.7	18
14	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.	3.3	37
15	Molecular autopsy provides evidence for widespread ribosome-phased mRNA fragmentation. Nature Structural and Molecular Biology, 2018, 25, 299-301.	3.6	3
16	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.	0.4	10
17	Nonsense-mediated mRNA Decay and Cancer. Current Opinion in Genetics and Development, 2018, 48, 44-50.	1.5	120
18	NMD-degradome sequencing reveals ribosome-bound intermediates with 3â€²-end non-templated nucleotides. Nature Structural and Molecular Biology, 2018, 25, 940-950.	3.6	32

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19	Nonsenseâ€mediated mRNA decay and human disease: Genome guardian and executor. FASEB Journal, 2018, 32, 99.1.	0.2	0
20	Tudor-SNâ€"mediated endonucleolytic decay of human cell microRNAs promotes G ₁ /S phase transition. Science, 2017, 356, 859-862.	6.0	77
21	UPF1 helicase promotes TSN-mediated miRNA decay. Genes and Development, 2017, 31, 1483-1493.	2.7	34
22	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.	3.6	7
23	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.	6.5	24
24	Leveraging Rules of Nonsense-Mediated mRNA Decay for Genome Engineering and Personalized Medicine. Cell, 2016, 165, 1319-1322.	13.5	243
25	Nonsense-mediated mRNA decay in humans at a glance. Journal of Cell Science, 2016, 129, 461-7.	1.2	272
26	Retrotransposons as regulators of gene expression. Science, 2016, 351, aac7247.	6.0	321
27	Eukaryotic antisense ahead of its time. Nature Reviews Molecular Cell Biology, 2016, 17, 204-204.	16.1	0
28	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.	2.7	6
29	A TRICK'n way to see the pioneer round of translation. Science, 2015, 347, 1316-1317.	6.0	7
30	The amazing web of post-transcriptional gene control: The sum of small changes can make for significant consequences. Rna, 2015, 21, 488-489.	1.6	3
31	Attenuation of nonsense-mediated mRNA decay facilitates the response to chemotherapeutics. Nature Communications, 2015, 6, 6632.	5.8	67
32	CARMing down the SINEs of anarchy: two paths to freedom from paraspeckle detention. Genes and Development, 2015, 29, 687-689.	2.7	10
33	Dodging two bullets with one dsRNA-binding protein. Cell Cycle, 2014, 13, 345-346.	1.3	4
34	Defective secretory-protein mRNAs take the RAPP. Trends in Biochemical Sciences, 2014, 39, 154-156.	3.7	2
35	A post-translational regulatory switch on UPF1 controls targeted mRNA degradation. Genes and Development, 2014, 28, 1900-1916.	2.7	148
36	â€˜Black sheepâ€™ that donâ€™t leave the double-stranded RNA-binding domain fold. Trends in Biochemical Sciences, 2014, 39, 328-340.	3.7	48

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37	Staufenâ€mediated <scp>mRNA</scp> decay. Wiley Interdisciplinary Reviews RNA, 2013, 4, 423-435.	3.2	175
38	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.	3.3	71
39	Temporal and spatial characterization of nonsense-mediated mRNA decay. Genes and Development, 2013, 27, 541-551.	2.7	116
40	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.	3.6	51
41	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.	3.3	110
42	mRNA decay in mammals. FASEB Journal, 2012, 26, 353.1.	0.2	0
43	The Pioneer Round of Translation: Features and Functions. Cell, 2010, 142, 368-374.	13.5	192
44	SMD and NMD are competitive pathways that contribute to myogenesis: effects on PAX3 and myogenin mRNAs. Genes and Development, 2009, 23, 54-66.	2.7	160
45	Gene expression networks: competing mRNA decay pathways in mammalian cells. Biochemical Society Transactions, 2009, 37, 1287-1292.	1.6	36
46	Upf1 Phosphorylation Triggers Translational Repression during Nonsense-Mediated mRNA Decay. Cell, 2008, 133, 314-327.	13.5	251
47	Mammalian pioneer translation initiation complex and mRNA decay. FASEB Journal, 2008, 22, 527.2.	0.2	0
48	CBP80 promotes interaction of Upf1 with Upf2 during nonsense-mediated mRNA decay in mammalian cells. Nature Structural and Molecular Biology, 2005, 12, 893-901.	3.6	130
49	Nonsense-mediated mRNA decay in mammals. Journal of Cell Science, 2005, 118, 1773-1776.	1.2	248
50	Mammalian Staufen1 Recruits Upf1 to Specific mRNA 3â€²UTRs so as to Elicit mRNA Decay. Cell, 2005, 120, 195-208.	13.5	438
51	Nonsense-mediated mRNA decay: splicing, translation and mRNP dynamics. Nature Reviews Molecular Cell Biology, 2004, 5, 89-99.	16.1	1,070
52	Nonsense-Mediated mRNA Decay in Mammalian Cells Involves Decapping, Deadenylating, and Exonucleolytic Activities. Molecular Cell, 2003, 12, 675-687.	4.5	322
53	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.	2.7	53
54	MOLECULAR BIOLOGY: Skiing Toward Nonstop mRNA Decay. Science, 2002, 295, 2221-2222.	6.0	38

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55	Nonsense-mediated mRNA decay. Current Biology, 2002, 12, R196-R197.	1.8	107
56	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.	1.6	100
57	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.	2.6	25
58	The power of point mutations. Nature Genetics, 2001, 27, 5-6.	9.4	43
59	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.	1.1	226
60	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.	1.6	120