

Oliver Mhlemann

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

4,398

citations

34

h-index

66

g-index

79

ext. papers

5,295

ext. citations

11.8

avg, IF

5.86

L-index

#	Paper	IF	Citations
68	SMG6 promotes endonucleolytic cleavage of nonsense mRNA in human cells. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 49-55	17.6	292
67	Nonsense-mediated mRNA decay in human cells: mechanistic insights, functions beyond quality control and the double-life of NMD factors. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 677-700	10.3	246
66	Nonsense-mediated mRNA decay - mechanisms of substrate mRNA recognition and degradation in mammalian cells. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013 , 1829, 612-23	6	238
65	Posttranscriptional gene regulation by spatial rearrangement of the 3' untranslated region. <i>PLoS Biology</i> , 2008 , 6, e92	9.7	226
64	Inhibition by SR proteins of splicing of a regulated adenovirus pre-mRNA. <i>Nature</i> , 1996 , 381, 535-8	50.4	218
63	SARS-CoV-2 Nsp1 binds the ribosomal mRNA channel to inhibit translation. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 959-966	17.6	207
62	EJC-independent degradation of nonsense immunoglobulin-mu mRNA depends on 3' UTR length. <i>Nature Structural and Molecular Biology</i> , 2006 , 13, 462-4	17.6	193
61	Autoregulation of the nonsense-mediated mRNA decay pathway in human cells. <i>Rna</i> , 2011 , 17, 2108-18	5.8	182
60	Regulation of adenovirus alternative RNA splicing by dephosphorylation of SR proteins. <i>Nature</i> , 1998 , 393, 185-7	50.4	166
59	A GFP-based reporter system to monitor nonsense-mediated mRNA decay. <i>Nucleic Acids Research</i> , 2005 , 33, e54	20.1	160
58	The meaning of nonsense. <i>Trends in Cell Biology</i> , 2008 , 18, 315-21	18.3	123
57	Nonsense-mediated mRNA decay: novel mechanistic insights and biological impact. <i>Wiley Interdisciplinary Reviews RNA</i> , 2016 , 7, 661-82	9.3	121
56	Translation-dependent displacement of UPF1 from coding sequences causes its enrichment in 3' UTRs. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 936-43	17.6	112
55	The host nonsense-mediated mRNA decay pathway restricts Mammalian RNA virus replication. <i>Cell Host and Microbe</i> , 2014 , 16, 403-11	23.4	106
54	Precursor RNAs harboring nonsense codons accumulate near the site of transcription. <i>Molecular Cell</i> , 2001 , 8, 33-43	17.6	106
53	Recognition and elimination of nonsense mRNA. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2008 , 1779, 538-49	6	102
52	Transcriptome-wide identification of NMD-targeted human mRNAs reveals extensive redundancy between SMG6- and SMG7-mediated degradation pathways. <i>Rna</i> , 2017 , 23, 189-201	5.8	95

51	Cutting the nonsense: the degradation of PTC-containing mRNAs. <i>Biochemical Society Transactions</i> , 2010 , 38, 1615-20	5.1	90
50	Nonsense-Mediated mRNA Decay Begins Where Translation Ends. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019 , 11,	10.2	84
49	Beyond quality control: The role of nonsense-mediated mRNA decay (NMD) in regulating gene expression. <i>Seminars in Cell and Developmental Biology</i> , 2018 , 75, 78-87	7.5	82
48	Comparison of EJC-enhanced and EJC-independent NMD in human cells reveals two partially redundant degradation pathways. <i>Rna</i> , 2013 , 19, 1432-48	5.8	80
47	eIF4E-bound mRNPs are substrates for nonsense-mediated mRNA decay in mammalian cells. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 710-7	17.6	70
46	The Solution Structure of FUS Bound to RNA Reveals a Bipartite Mode of RNA Recognition with Both Sequence and Shape Specificity. <i>Molecular Cell</i> , 2019 , 73, 490-504.e6	17.6	70
45	Minor intron splicing is regulated by FUS and affected by ALS-associated FUS mutants. <i>EMBO Journal</i> , 2016 , 35, 1504-21	13	69
44	Efficient downregulation of immunoglobulin mu mRNA with premature translation-termination codons requires the 5'half of the VDJ exon. <i>Nucleic Acids Research</i> , 2004 , 32, 3304-15	20.1	63
43	Transcriptional silencing of nonsense codon-containing immunoglobulin minigenes. <i>Molecular Cell</i> , 2005 , 18, 307-17	17.6	62
42	How and where are nonsense mRNAs degraded in mammalian cells?. <i>RNA Biology</i> , 2010 , 7, 28-32	4.8	61
41	Processing bodies are not required for mammalian nonsense-mediated mRNA decay. <i>Rna</i> , 2009 , 15, 1265-83	5.83	61
40	A novel phosphorylation-independent interaction between SMG6 and UPF1 is essential for human NMD. <i>Nucleic Acids Research</i> , 2014 , 42, 9217-35	20.1	55
39	Intranuclear degradation of nonsense codon-containing mRNA. <i>EMBO Reports</i> , 2002 , 3, 646-51	6.5	53
38	Recognition of nonsense mRNA: towards a unified model. <i>Biochemical Society Transactions</i> , 2008 , 36, 497-501	5.1	41
37	Cotranscriptional effect of a premature termination codon revealed by live-cell imaging. <i>Rna</i> , 2011 , 17, 2094-107	5.8	39
36	mRNP quality control goes regulatory. <i>Trends in Genetics</i> , 2012 , 28, 70-7	8.5	38
35	Virus Escape and Manipulation of Cellular Nonsense-Mediated mRNA Decay. <i>Viruses</i> , 2017 , 9,	6.2	37
34	Eukaryotic initiation factor 4G suppresses nonsense-mediated mRNA decay by two genetically separable mechanisms. <i>PLoS ONE</i> , 2014 , 9, e104391	3.7	30

33	Dissecting the functions of SMG5, SMG7, and PNRC2 in nonsense-mediated mRNA decay of human cells. <i>Rna</i> , 2018 , 24, 557-573	5.8	26
32	FUS ALS-causative mutations impair FUS autoregulation and splicing factor networks through intron retention. <i>Nucleic Acids Research</i> , 2020 , 48, 6889-6905	20.1	24
31	Identification of Interactions in the NMD Complex Using Proximity-Dependent Biotinylation (BioID). <i>PLoS ONE</i> , 2016 , 11, e0150239	3.7	23
30	Characterization of phosphorylation- and RNA-dependent UPF1 interactors by quantitative proteomics. <i>Journal of Proteome Research</i> , 2014 , 13, 3038-53	5.6	20
29	FUS-dependent liquid-liquid phase separation is important for DNA repair initiation. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	20
28	tRNA ^{Sec} is transcribed by RNA polymerase II in <i>Trypanosoma brucei</i> but not in humans. <i>Nucleic Acids Research</i> , 2010 , 38, 5833-43	20.1	19
27	Analysis of nonsense-mediated mRNA decay in mammalian cells. <i>Current Protocols in Cell Biology</i> , 2012 , Chapter 27, Unit27.4	2.3	18
26	Paraquat modulates alternative pre-mRNA splicing by modifying the intracellular distribution of SRPK2. <i>PLoS ONE</i> , 2013 , 8, e61980	3.7	18
25	Alternative splicing induced by nonsense mutations in the immunoglobulin mu VDJ exon is independent of truncation of the open reading frame. <i>Rna</i> , 2005 , 11, 139-46	5.8	18
24	Nonsense-associated alternative splicing of T-cell receptor beta genes: no evidence for frame dependence. <i>Rna</i> , 2005 , 11, 147-56	5.8	18
23	Equal transcription rates of productively and nonproductively rearranged immunoglobulin mu heavy chain alleles in a pro-B cell line. <i>Rna</i> , 2009 , 15, 1021-8	5.8	16
22	The phase separation-dependent FUS interactome reveals nuclear and cytoplasmic function of liquid-liquid phase separation. <i>Nucleic Acids Research</i> , 2021 , 49, 7713-7731	20.1	14
21	Human NMD ensues independently of stable ribosome stalling. <i>Nature Communications</i> , 2020 , 11, 4134	17.4	13
20	miR-129-5p: A key factor and therapeutic target in amyotrophic lateral sclerosis. <i>Progress in Neurobiology</i> , 2020 , 190, 101803	10.9	11
19	Transcriptional silencing of nonsense codon-containing immunoglobulin micro genes requires translation of its mRNA. <i>Journal of Biological Chemistry</i> , 2007 , 282, 16079-85	5.4	10
18	Characterisation of the Semliki Forest Virus-host cell interactome reveals the viral capsid protein as an inhibitor of nonsense-mediated mRNA decay. <i>PLoS Pathogens</i> , 2021 , 17, e1009603	7.6	10
17	Spermatogenesis Studies Reveal a Distinct Nonsense-Mediated mRNA Decay (NMD) Mechanism for mRNAs with Long 3'UTRs. <i>PLoS Genetics</i> , 2016 , 12, e1005979	6	9
16	Readthrough of stop codons under limiting ABCE1 concentration involves frameshifting and inhibits nonsense-mediated mRNA decay. <i>Nucleic Acids Research</i> , 2020 , 48, 10259-10279	20.1	9

15	Recent transcriptome-wide mapping of UPF1 binding sites reveals evidence for its recruitment to mRNA before translation. <i>Translation</i> , 2013 , 1, e26977		8
14	SARS-CoV-2 Nsp1 binds ribosomal mRNA channel to inhibit translation		8
13	The Role of Stress Granules and the Nonsense-mediated mRNA Decay Pathway in Antiviral Defence. <i>Chimia</i> , 2019 , 73, 374-379	1.3	7
12	Synthesis and characterization of photoaffinity probes that target the 5-HT3 receptor. <i>Chimia</i> , 2014 , 68, 239-42	1.3	6
11	Nanopore sequencing reveals endogenous NMD-targeted isoforms in human cells. <i>Genome Biology</i> , 2021 , 22, 223	18.3	6
10	New functions in translation termination uncovered for NMD factor UPF3B. <i>EMBO Journal</i> , 2017 , 36, 2928-2930	13	5
9	Translation mediated by the nuclear cap-binding complex is confined to the perinuclear region via a CTIF-DDX19B interaction. <i>Nucleic Acids Research</i> , 2021 , 49, 8261-8276	20.1	4
8	FUS-dependent liquid-liquid phase separation is an early event in double-strand break repair		3
7	The phase separation-dependent FUS interactome reveals nuclear and cytoplasmic function of liquid-liquid phase separation		3
6	Ribosome recycling factor ABCE1 depletion inhibits nonsense-mediated mRNA decay by promoting stop codon readthrough		3
5	Human NMD ensues independently of stable ribosome stalling		2
4	FUS ALS-causative mutations impact FUS autoregulation and the processing of RNA-binding proteins through intron retention		1
3	Nanopore sequencing reveals endogenous NMD-targeted isoforms in human cells		1
2	A comprehensive coverage insurance for cells: revealing links between ribosome collisions, stress responses and mRNA surveillance.. <i>RNA Biology</i> , 2022 , 19, 609-621	4.8	0
1	Production of human translation-competent lysates using dual centrifugation.. <i>RNA Biology</i> , 2021 , 1-12	4.8	