

# Oliver Mhlemann

## List of Publications by Year in Descending Order

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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	A comprehensive coverage insurance for cells: revealing links between ribosome collisions, stress responses and mRNA surveillance.. <i>RNA Biology</i> , <b>2022</b> , 19, 609-621	4.8	0
67	FUS-dependent liquid-liquid phase separation is important for DNA repair initiation. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	20
66	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> , <b>2021</b> , 17, e1009603	7.6	10
65	Translation mediated by the nuclear cap-binding complex is confined to the perinuclear region via a CTIF-DDX19B interaction. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 8261-8276	20.1	4
64	The phase separation-dependent FUS interactome reveals nuclear and cytoplasmic function of liquid-liquid phase separation. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 7713-7731	20.1	14
63	Nanopore sequencing reveals endogenous NMD-targeted isoforms in human cells. <i>Genome Biology</i> , <b>2021</b> , 22, 223	18.3	6
62	Production of human translation-competent lysates using dual centrifugation.. <i>RNA Biology</i> , <b>2021</b> , 1-12	4.8	
61	FUS ALS-causative mutations impair FUS autoregulation and splicing factor networks through intron retention. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 6889-6905	20.1	24
60	miR-129-5p: A key factor and therapeutic target in amyotrophic lateral sclerosis. <i>Progress in Neurobiology</i> , <b>2020</b> , 190, 101803	10.9	11
59	Readthrough of stop codons under limiting ABCE1 concentration involves frameshifting and inhibits nonsense-mediated mRNA decay. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 10259-10279	20.1	9
58	SARS-CoV-2 Nsp1 binds the ribosomal mRNA channel to inhibit translation. <i>Nature Structural and Molecular Biology</i> , <b>2020</b> , 27, 959-966	17.6	207
57	Human NMD ensues independently of stable ribosome stalling. <i>Nature Communications</i> , <b>2020</b> , 11, 4134	17.4	13
56	Nonsense-Mediated mRNA Decay Begins Where Translation Ends. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2019</b> , 11,	10.2	84
55	The Role of Stress Granules and the Nonsense-mediated mRNA Decay Pathway in Antiviral Defence. <i>Chimia</i> , <b>2019</b> , 73, 374-379	1.3	7
54	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> , <b>2019</b> , 73, 490-504.e6	17.6	70
53	Dissecting the functions of SMG5, SMG7, and PNC2 in nonsense-mediated mRNA decay of human cells. <i>Rna</i> , <b>2018</b> , 24, 557-573	5.8	26
52	Beyond quality control: The role of nonsense-mediated mRNA decay (NMD) in regulating gene expression. <i>Seminars in Cell and Developmental Biology</i> , <b>2018</b> , 75, 78-87	7.5	82

51	New functions in translation termination uncovered for NMD factor UPF3B. <i>EMBO Journal</i> , <b>2017</b> , 36, 2928-2930	13	5
50	Transcriptome-wide identification of NMD-targeted human mRNAs reveals extensive redundancy between SMG6- and SMG7-mediated degradation pathways. <i>Rna</i> , <b>2017</b> , 23, 189-201	5.8	95
49	Virus Escape and Manipulation of Cellular Nonsense-Mediated mRNA Decay. <i>Viruses</i> , <b>2017</b> , 9,	6.2	37
48	Minor intron splicing is regulated by FUS and affected by ALS-associated FUS mutants. <i>EMBO Journal</i> , <b>2016</b> , 35, 1504-21	13	69
47	Nonsense-mediated mRNA decay: novel mechanistic insights and biological impact. <i>Wiley Interdisciplinary Reviews RNA</i> , <b>2016</b> , 7, 661-82	9.3	121
46	Spermatogenesis Studies Reveal a Distinct Nonsense-Mediated mRNA Decay (NMD) Mechanism for mRNAs with Long 3'UTRs. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1005979	6	9
45	Identification of Interactions in the NMD Complex Using Proximity-Dependent Biotinylation (BioID). <i>PLoS ONE</i> , <b>2016</b> , 11, e0150239	3.7	23
44	The host nonsense-mediated mRNA decay pathway restricts Mammalian RNA virus replication. <i>Cell Host and Microbe</i> , <b>2014</b> , 16, 403-11	23.4	106
43	Characterization of phosphorylation- and RNA-dependent UPF1 interactors by quantitative proteomics. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 3038-53	5.6	20
42	Synthesis and characterization of photoaffinity probes that target the 5-HT3 receptor. <i>Chimia</i> , <b>2014</b> , 68, 239-42	1.3	6
41	A novel phosphorylation-independent interaction between SMG6 and UPF1 is essential for human NMD. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 9217-35	20.1	55
40	Eukaryotic initiation factor 4G suppresses nonsense-mediated mRNA decay by two genetically separable mechanisms. <i>PLoS ONE</i> , <b>2014</b> , 9, e104391	3.7	30
39	Translation-dependent displacement of UPF1 from coding sequences causes its enrichment in 3' UTRs. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 936-43	17.6	112
38	Nonsense-mediated mRNA decay - mechanisms of substrate mRNA recognition and degradation in mammalian cells. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2013</b> , 1829, 612-23	6	238
37	eIF4E-bound mRNPs are substrates for nonsense-mediated mRNA decay in mammalian cells. <i>Nature Structural and Molecular Biology</i> , <b>2013</b> , 20, 710-7	17.6	70
36	Comparison of EJC-enhanced and EJC-independent NMD in human cells reveals two partially redundant degradation pathways. <i>Rna</i> , <b>2013</b> , 19, 1432-48	5.8	80
35	Recent transcriptome-wide mapping of UPF1 binding sites reveals evidence for its recruitment to mRNA before translation. <i>Translation</i> , <b>2013</b> , 1, e26977		8
34	Paraquat modulates alternative pre-mRNA splicing by modifying the intracellular distribution of SRPK2. <i>PLoS ONE</i> , <b>2013</b> , 8, e61980	3.7	18

33	mRNP quality control goes regulatory. <i>Trends in Genetics</i> , <b>2012</b> , 28, 70-7	8.5	38
32	Analysis of nonsense-mediated mRNA decay in mammalian cells. <i>Current Protocols in Cell Biology</i> , <b>2012</b> , Chapter 27, Unit27.4	2.3	18
31	Cotranscriptional effect of a premature termination codon revealed by live-cell imaging. <i>Rna</i> , <b>2011</b> , 17, 2094-107	5.8	39
30	Autoregulation of the nonsense-mediated mRNA decay pathway in human cells. <i>Rna</i> , <b>2011</b> , 17, 2108-18	5.8	182
29	tRNA <sup>Sec</sup> is transcribed by RNA polymerase II in <i>Trypanosoma brucei</i> but not in humans. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 5833-43	20.1	19
28	How and where are nonsense mRNAs degraded in mammalian cells?. <i>RNA Biology</i> , <b>2010</b> , 7, 28-32	4.8	61
27	Cutting the nonsense: the degradation of PTC-containing mRNAs. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 1615-20	5.1	90
26	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> , <b>2010</b> , 67, 677-700	10.3	246
25	Processing bodies are not required for mammalian nonsense-mediated mRNA decay. <i>Rna</i> , <b>2009</b> , 15, 1265-83	5.8	61
24	Equal transcription rates of productively and nonproductively rearranged immunoglobulin mu heavy chain alleles in a pro-B cell line. <i>Rna</i> , <b>2009</b> , 15, 1021-8	5.8	16
23	SMG6 promotes endonucleolytic cleavage of nonsense mRNA in human cells. <i>Nature Structural and Molecular Biology</i> , <b>2009</b> , 16, 49-55	17.6	292
22	The meaning of nonsense. <i>Trends in Cell Biology</i> , <b>2008</b> , 18, 315-21	18.3	123
21	Recognition and elimination of nonsense mRNA. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2008</b> , 1779, 538-49	6	102
20	Posttranscriptional gene regulation by spatial rearrangement of the 3' untranslated region. <i>PLoS Biology</i> , <b>2008</b> , 6, e92	9.7	226
19	Recognition of nonsense mRNA: towards a unified model. <i>Biochemical Society Transactions</i> , <b>2008</b> , 36, 497-501	5.1	41
18	Transcriptional silencing of nonsense codon-containing immunoglobulin micro genes requires translation of its mRNA. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 16079-85	5.4	10
17	EJC-independent degradation of nonsense immunoglobulin-mu mRNA depends on 3'UTR length. <i>Nature Structural and Molecular Biology</i> , <b>2006</b> , 13, 462-4	17.6	193
16	A GFP-based reporter system to monitor nonsense-mediated mRNA decay. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, e54	20.1	160

15	Transcriptional silencing of nonsense codon-containing immunoglobulin minigenes. <i>Molecular Cell</i> , <b>2005</b> , 18, 307-17	17.6	62
14	Alternative splicing induced by nonsense mutations in the immunoglobulin mu VDJ exon is independent of truncation of the open reading frame. <i>Rna</i> , <b>2005</b> , 11, 139-46	5.8	18
13	Nonsense-associated alternative splicing of T-cell receptor beta genes: no evidence for frame dependence. <i>Rna</i> , <b>2005</b> , 11, 147-56	5.8	18
12	Efficient downregulation of immunoglobulin mu mRNA with premature translation-termination codons requires the 5'half of the VDJ exon. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 3304-15	20.1	63
11	Intranuclear degradation of nonsense codon-containing mRNA. <i>EMBO Reports</i> , <b>2002</b> , 3, 646-51	6.5	53
10	Precursor RNAs harboring nonsense codons accumulate near the site of transcription. <i>Molecular Cell</i> , <b>2001</b> , 8, 33-43	17.6	106
9	Regulation of adenovirus alternative RNA splicing by dephosphorylation of SR proteins. <i>Nature</i> , <b>1998</b> , 393, 185-7	50.4	166
8	Inhibition by SR proteins of splicing of a regulated adenovirus pre-mRNA. <i>Nature</i> , <b>1996</b> , 381, 535-8	50.4	218
7	Human NMD ensues independently of stable ribosome stalling		2
6	SARS-CoV-2 Nsp1 binds ribosomal mRNA channel to inhibit translation		8
5	FUS ALS-causative mutations impact FUS autoregulation and the processing of RNA-binding proteins through intron retention		1
4	FUS-dependent liquid-liquid phase separation is an early event in double-strand break repair		3
3	The phase separation-dependent FUS interactome reveals nuclear and cytoplasmic function of liquid-liquid phase separation		3
2	Ribosome recycling factor ABCE1 depletion inhibits nonsense-mediated mRNA decay by promoting stop codon readthrough		3
1	Nanopore sequencing reveals endogenous NMD-targeted isoforms in human cells		1