

Markus T Bohnsack

List of Publications by Year in descending order

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72
papers

7,433
citations

76326

40
h-index

85541

71
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75
all docs

75
docs citations

75
times ranked

8189
citing authors

#	ARTICLE	IF	CITATIONS
1	Exportin 5 is a RanGTP-dependent dsRNA-binding protein that mediates nuclear export of pre-miRNAs. <i>Rna</i> , 2004, 10, 185-191.	3.5	1,125
2	Human METTL16 is a <i>N⁶</i> -methyladenosine (<i>m⁶A</i>) methyltransferase that targets pre-mRNAs and various non-coding RNAs. <i>EMBO Reports</i> , 2017, 18, 2004-2014.	4.5	481
3	Tuning the ribosome: The influence of rRNA modification on eukaryotic ribosome biogenesis and function. <i>RNA Biology</i> , 2017, 14, 1138-1152.	3.1	479
4	The box C/D and H/ACA snoRNPs: key players in the modification, processing and the dynamic folding of ribosomal RNA. <i>Wiley Interdisciplinary Reviews RNA</i> , 2012, 3, 397-414.	6.4	388
5	The human 18S rRNA m6A methyltransferase METTL5 is stabilized by TRMT112. <i>Nucleic Acids Research</i> , 2019, 47, 7719-7733.	14.5	312
6	Eukaryotic 5-methylcytosine (m5C) RNA Methyltransferases: Mechanisms, Cellular Functions, and Links to Disease. <i>Genes</i> , 2019, 10, 102.	2.4	291
7	The 5S RNP Couples p53 Homeostasis to Ribosome Biogenesis and Nucleolar Stress. <i>Cell Reports</i> , 2013, 5, 237-247.	6.4	244
8	A centriole- and RanGTP-independent spindle assembly pathway in meiosis I of vertebrate oocytes. <i>Journal of Cell Biology</i> , 2007, 176, 295-305.	5.2	219
9	Exp5 exports eEF1A via tRNA from nuclei and synergizes with other transport pathways to confine translation to the cytoplasm. <i>EMBO Journal</i> , 2002, 21, 6205-6215.	7.8	203
10	NSUN3 and ABH1 modify the wobble position of mt-tRNA ^{Met} to expand codon recognition in mitochondrial translation. <i>EMBO Journal</i> , 2016, 35, 2104-2119.	7.8	197
11	Changes in m6A RNA methylation contribute to heart failure progression by modulating translation. <i>European Journal of Heart Failure</i> , 2020, 22, 54-66.	7.1	193
12	A selective block of nuclear actin export stabilizes the giant nuclei of <i>Xenopus</i> oocytes. <i>Nature Cell Biology</i> , 2006, 8, 257-263.	10.3	180
13	The <i>m⁶A</i> reader protein YTHDC2 interacts with the small ribosomal subunit and the 5' cap exoribonuclease XRN1. <i>Rna</i> , 2018, 24, 1339-1350.	3.5	171
14	Uncovering the assembly pathway of human ribosomes and its emerging links to disease. <i>EMBO Journal</i> , 2019, 38, e100278.	7.8	157
15	Prp43 Bound at Different Sites on the Pre-rRNA Performs Distinct Functions in Ribosome Synthesis. <i>Molecular Cell</i> , 2009, 36, 583-592.	9.7	152
16	NSUN6 is a human RNA methyltransferase that catalyzes formation of <i>m⁵C72</i> in specific tRNAs. <i>Rna</i> , 2015, 21, 1532-1543.	3.5	144
17	DEXD/H-box RNA helicases in ribosome biogenesis. <i>RNA Biology</i> , 2013, 10, 4-18.	3.1	110
18	The Bowen-Conradi syndrome protein Nep1 (Emg1) has a dual role in eukaryotic ribosome biogenesis, as an essential assembly factor and in the methylation of 1191 in yeast 18S rRNA. <i>Nucleic Acids Research</i> , 2011, 39, 1526-1537.	14.5	108

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19	NuSAP, a Mitotic RanGTP Target That Stabilizes and Cross-links Microtubules. <i>Molecular Biology of the Cell</i> , 2006, 17, 2646-2660.	2.1	107
20	The mitochondrial epitranscriptome: the roles of RNA modifications in mitochondrial translation and human disease. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 241-260.	5.4	103
21	WBSR22/Merm1 is required for late nuclear pre-ribosomal RNA processing and mediates N ⁷ -methylation of G1639 in human 18S rRNA. <i>Rna</i> , 2015, 21, 180-187.	3.5	102
22	Exportin 7 defines a novel general nuclear export pathway. <i>EMBO Journal</i> , 2004, 23, 3227-3236.	7.8	96
23	Zebrafish survival motor neuron mutants exhibit presynaptic neuromuscular junction defects. <i>Human Molecular Genetics</i> , 2009, 18, 3615-3625.	2.9	93
24	Modifications in small nuclear RNAs and their roles in spliceosome assembly and function. <i>Biological Chemistry</i> , 2018, 399, 1265-1276.	2.5	92
25	Unravelling the Mechanisms of RNA Helicase Regulation. <i>Trends in Biochemical Sciences</i> , 2018, 43, 237-250.	7.5	89
26	The evolution of the ribosome biogenesis pathway from a yeast perspective. <i>Nucleic Acids Research</i> , 2014, 42, 1509-1523.	14.5	87
27	Functional and Phylogenetic Properties of the Pore-forming β -Barrel Transporters of the Omp85 Family. <i>Journal of Biological Chemistry</i> , 2007, 282, 1882-1890.	3.4	74
28	40S Ribosome Biogenesis Co-Factors Are Essential for Gametophyte and Embryo Development. <i>PLoS ONE</i> , 2013, 8, e54084.	2.5	74
29	Quantitative analysis of snoRNA association with pre-ribosomes and release of snR30 by Rok1 helicase. <i>EMBO Reports</i> , 2008, 9, 1230-1236.	4.5	72
30	atBRX1-1 and atBRX1-2 are involved in an alternative rRNA processing pathway in <i>Arabidopsis thaliana</i> . <i>Rna</i> , 2015, 21, 415-425.	3.5	68
31	Structural and functional analysis of the archaeal endonuclease Nob1. <i>Nucleic Acids Research</i> , 2012, 40, 3259-3274.	14.5	64
32	The association of late-acting snoRNPs with human pre-ribosomal complexes requires the RNA helicase DDX21. <i>Nucleic Acids Research</i> , 2015, 43, 553-564.	14.5	64
33	The roles of SSU processome components and surveillance factors in the initial processing of human ribosomal RNA. <i>Rna</i> , 2014, 20, 540-550.	3.5	61
34	Identification of RNA Helicase Target Sites by UV Cross-Linking and Analysis of cDNA. <i>Methods in Enzymology</i> , 2012, 511, 275-288.	1.0	56
35	The yeast ribosome synthesis factor Emg1 is a novel member of the superfamily of alpha/beta knot fold methyltransferases. <i>Nucleic Acids Research</i> , 2007, 36, 629-639.	14.5	54
36	The G-patch protein NF- κ B-repressing factor mediates the recruitment of the exonuclease XRN2 and activation of the RNA helicase DHX15 in human ribosome biogenesis. <i>Nucleic Acids Research</i> , 2017, 45, gkx013.	14.5	54

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37	Nucleocytoplasmic Transport of RNAs and RNA-Protein Complexes. <i>Journal of Molecular Biology</i> , 2016, 428, 2040-2059.	4.2	52
38	A novel translational control mechanism involving RNA structures within coding sequences. <i>Genome Research</i> , 2017, 27, 95-106.	5.5	48
39	The human RNA helicase DHX37 is required for release of the U3 snoRNP from pre-ribosomal particles. <i>RNA Biology</i> , 2019, 16, 54-68.	3.1	46
40	A pre-ribosomal RNA interaction network involving snoRNAs and the Rok1 helicase. <i>Rna</i> , 2014, 20, 1173-1182.	3.5	45
41	The 60S associated ribosome biogenesis factor <i>LSG1</i> is required for 40S maturation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2014, 80, 1043-1056.	5.7	43
42	An in vitro system to silence mitochondrial gene expression. <i>Cell</i> , 2021, 184, 5824-5837.e15.	28.9	40
43	Protein cofactor competition regulates the action of a multifunctional RNA helicase in different pathways. <i>RNA Biology</i> , 2016, 13, 320-330.	3.1	39
44	N ⁶ -Methyladenosine-Sensitive RNA-Cleaving Deoxyribozymes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15117-15121.	13.8	39
45	Xpo7 is a broad-spectrum exportin and a nuclear import receptor. <i>Journal of Cell Biology</i> , 2018, 217, 2329-2340.	5.2	39
46	Regulation of DEAH-box RNA helicases by G-patch proteins. <i>Biological Chemistry</i> , 2021, 402, 561-579.	2.5	39
47	The evolution of protein targeting and translocation systems. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010, 1803, 1115-1130.	4.1	38
48	The mRNA encoding the yeast ARE-binding protein Cth2 is generated by a novel 3' processing pathway. <i>Nucleic Acids Research</i> , 2008, 36, 3075-3084.	14.5	36
49	Effects of the Bowen-Conradi syndrome mutation in EMG1 on its nuclear import, stability and nucleolar recruitment. <i>Human Molecular Genetics</i> , 2016, 25, ddw351.	2.9	36
50	Exportin T and Exportin 5: tRNA and miRNA biogenesis and beyond. <i>Biological Chemistry</i> , 2012, 393, 599-604.	2.5	32
51	RNA helicases mediate structural transitions and compositional changes in pre-ribosomal complexes. <i>Nature Communications</i> , 2018, 9, 5383.	12.8	30
52	RNA helicase-mediated regulation of snoRNP dynamics on pre-ribosomes and rRNA 2'-O-methylation. <i>Nucleic Acids Research</i> , 2021, 49, 4066-4084.	14.5	26
53	Transitions of gene expression induced by short-term blue light. <i>Plant Biology</i> , 2011, 13, 349-361.	3.8	23
54	The human box C/D snoRNA U3 is a miRNA source and miR-U3 regulates expression of sortin nexin 27. <i>Nucleic Acids Research</i> , 2020, 48, 8074-8089.	14.5	20

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55	DEAD-box RNA helicase Dbp4/DDX10 is an enhancer of α -synuclein toxicity and oligomerization. <i>PLoS Genetics</i> , 2021, 17, e1009407.	3.5	19
56	Association of snR190 snoRNA chaperone with early pre-60S particles is regulated by the RNA helicase Dbp7 in yeast. <i>Nature Communications</i> , 2021, 12, 6153.	12.8	19
57	The RNA helicase Dbp7 promotes domain V/VI compaction and stabilization of inter-domain interactions during early 60S assembly. <i>Nature Communications</i> , 2021, 12, 6152.	12.8	19
58	The RNA methyltransferase METTL8 installs m ³ C32 in mitochondrial tRNAs ^{Thr/Ser} (UCN) to optimise tRNA structure and mitochondrial translation. <i>Nature Communications</i> , 2022, 13, 209.	12.8	19
59	The functional domains of the chloroplast unusual positioning protein 1. <i>Plant Science</i> , 2011, 180, 650-654.	3.6	16
60	The DExD box ATPase DDX55 is recruited to domain IV of the 28S ribosomal RNA by its C-terminal region. <i>RNA Biology</i> , 2021, 18, 1124-1135.	3.1	15
61	The interaction of DNA repair factors ASCC2 and ASCC3 is affected by somatic cancer mutations. <i>Nature Communications</i> , 2020, 11, 5535.	12.8	12
62	Crosslinking Methods to Identify RNA Methyltransferase Targets In Vivo. <i>Methods in Molecular Biology</i> , 2017, 1562, 269-281.	0.9	11
63	N ⁶ -Methyladenosine-Sensitive RNA-Cleaving Deoxyribozymes. <i>Angewandte Chemie</i> , 2018, 130, 15337-15340.	10	11
64	Tracing Eukaryotic Ribosome Biogenesis Factors Into the Archaeal Domain Sheds Light on the Evolution of Functional Complexity. <i>Frontiers in Microbiology</i> , 2021, 12, 739000.	3.5	11
65	Roles and dynamics of 3-methylcytidine in cellular RNAs. <i>Trends in Biochemical Sciences</i> , 2022, 47, 596-608.	7.5	11
66	RNA-Binding Proteins Chaperone Ribonucleoprotein Complex Assembly to Solve the RNA-Folding Problem. <i>Cell</i> , 2019, 179, 1248-1250.	28.9	9
67	Sgd1 is an MIF4G domain-containing cofactor of the RNA helicase Fal1 and associates with the 5 ^{â€™} domain of the 18S rRNA sequence. <i>RNA Biology</i> , 2020, 17, 539-553.	3.1	8
68	Pol5 is required for recycling of small subunit biogenesis factors and for formation of the peptide exit tunnel of the large ribosomal subunit. <i>Nucleic Acids Research</i> , 2019, 48, 405-420.	14.5	7
69	Backbone and side chain NMR resonance assignments for an archaeal homolog of the endonuclease Nob1 involved in ribosome biogenesis. <i>Biomolecular NMR Assignments</i> , 2012, 6, 47-50.	0.8	4
70	How RNA modification allows non-conventional decoding in mitochondria. <i>Cell Cycle</i> , 2017, 16, 145-146.	2.6	4
71	In Vitro Assays for RNA Methyltransferase Activity. <i>Methods in Molecular Biology</i> , 2017, 1562, 259-268.	0.9	2
72	Titelbild: N^6 -Methyladenosine-Sensitive RNA-Cleaving Deoxyribozymes (<i>Angew. Chem.</i>)	2.0	0