Markus T Bohnsack

List of Publications by Year
in descending order

72	7,433	76326 40	85541 71
papers	citations	h-index	g-index

75	75	75	8189
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The RNA methyltransferase METTL8 installs m3C32 in mitochondrial tRNAsThr/Ser(UCN) to optimise tRNA structure and mitochondrial translation. Nature Communications, 2022, 13, 209.	12.8	19
2	Roles and dynamics of 3-methylcytidine in cellular RNAs. Trends in Biochemical Sciences, 2022, 47, 596-608.	7.5	11
3	The DExD box ATPase DDX55 is recruited to domain IV of the 28S ribosomal RNA by its C-terminal region. RNA Biology, 2021, 18, 1124-1135.	3.1	15
4	RNA helicase-mediated regulation of snoRNP dynamics on pre-ribosomes and rRNA 2â€²-O-methylation. Nucleic Acids Research, 2021, 49, 4066-4084.	14.5	26
5	DEAD-box RNA helicase Dbp4/DDX10 is an enhancer of Î±-synuclein toxicity and oligomerization. PLoS Genetics, 2021, 17, e1009407.	3.5	19
6	Tracing Eukaryotic Ribosome Biogenesis Factors Into the Archaeal Domain Sheds Light on the Evolution of Functional Complexity. Frontiers in Microbiology, 2021, 12, 739000.	3.5	11
7	Regulation of DEAH-box RNA helicases by G-patch proteins. Biological Chemistry, 2021, 402, 561-579.	2.5	39
8	An inÂvitro system to silence mitochondrial gene expression. Cell, 2021, 184, 5824-5837.e15.	28.9	40
9	Association of snR190 snoRNA chaperone with early pre-60S particles is regulated by the RNA helicase Dbp7 in yeast. Nature Communications, 2021, 12, 6153.	12.8	19
10	The RNA helicase Dbp7 promotes domain V/VI compaction and stabilization of inter-domain interactions during early 60S assembly. Nature Communications, 2021, 12, 6152.	12.8	19
11	Changes in m6A RNA methylation contribute to heart failure progression by modulating translation. European Journal of Heart Failure, 2020, 22, 54-66.	7.1	193
12	The interaction of DNA repair factors ASCC2 and ASCC3 is affected by somatic cancer mutations. Nature Communications, 2020, 11, 5535.	12.8	12
13	The human box C/D snoRNA U3 is a miRNA source and miR-U3 regulates expression of sortin nexin 27. Nucleic Acids Research, 2020, 48, 8074-8089.	14.5	20
14	Sgd1 is an MIF4G domain-containing cofactor of the RNA helicase Fal1 and associates with the 5â€™ domain of the 18S rRNA sequence. RNA Biology, 2020, 17, 539-553.	3.1	8
15	The human 18S rRNA m6A methyltransferase METTL5 is stabilized by TRMT112. Nucleic Acids Research, 2019, 47, 7719-7733.	14.5	312
16	Eukaryotic 5-methylcytosine (m5C) RNA Methyltransferases: Mechanisms, Cellular Functions, and Links to Disease. Genes, 2019, 10, 102.	2.4	291
17	Uncovering the assembly pathway of human ribosomes and its emerging links to disease. EMBO Journal, 2019, 38, e100278.	7.8	157
18	Pol5 is required for recycling of small subunit biogenesis factors and for formation of the peptide exit tunnel of the large ribosomal subunit. Nucleic Acids Research, 2019, 48, 405-420.	14.5	7

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19	RNA-Binding Proteins Chaperone Ribonucleoprotein Complex Assembly to Solve the RNA-Folding Problem. Cell, 2019, 179, 1248-1250.	28.9	9
20	The human RNA helicase DHX37 is required for release of the U3 snoRNP from pre-ribosomal particles. RNA Biology, 2019, 16, 54-68.	3.1	46
21	Unravelling the Mechanisms of RNA Helicase Regulation. Trends in Biochemical Sciences, 2018, 43, 237-250.	7.5	89
22	The mitochondrial epitranscriptome: the roles of RNA modifications in mitochondrial translation and human disease. Cellular and Molecular Life Sciences, 2018, 75, 241-260.	5.4	103
23	Titelbild: N⁶â€Methyladenosineâ€Sensitive RNAâ€Cleaving Deoxyribozymes (Angew. Chem.)	2.0	0
24	RNA helicases mediate structural transitions and compositional changes in pre-ribosomal complexes. Nature Communications, 2018, 9, 5383.	12.8	30
25	N⁶â€Methyladenosineâ€Sensitive RNAâ€Cleaving Deoxyribozymes. Angewandte Chemie - International Edition, 2018, 57, 15117-15121.	13.8	39
26	N 6 â€Methyladenosineâ€Sensitive RNAâ€Cleaving Deoxyribozymes. Angewandte Chemie, 2018, 130, 15337-15341.	2.0	11
27	The m⁶A reader protein YTHDC2 interacts with the small ribosomal subunit and the 5â€²â€“3â€² exoribonuclease XRN1. Rna, 2018, 24, 1339-1350.	3.5	171
28	Xpo7 is a broad-spectrum exportin and a nuclear import receptor. Journal of Cell Biology, 2018, 217, 2329-2340.	5.2	39
29	Modifications in small nuclear RNAs and their roles in spliceosome assembly and function. Biological Chemistry, 2018, 399, 1265-1276.	2.5	92
30	The G-patch protein NF-ÎºB-repressing factor mediates the recruitment of the exonuclease XRN2 and activation of the RNA helicase DHX15 in human ribosome biogenesis. Nucleic Acids Research, 2017, 45, gkx013.	14.5	54
31	Tuning the ribosome: The influence of rRNA modification on eukaryotic ribosome biogenesis and function. RNA Biology, 2017, 14, 1138-1152.	3.1	479
32	In Vitro Assays for RNA Methyltransferase Activity. Methods in Molecular Biology, 2017, 1562, 259-268.	0.9	2
33	Crosslinking Methods to Identify RNA Methyltransferase Targets In Vivo. Methods in Molecular Biology, 2017, 1562, 269-281.	0.9	11
34	Human METTL16 is a N ⁶ â€methyladenosine (m ⁶ A) methyltransferase that targets preâ€mRNAs and various nonâ€coding RNAs. EMBO Reports, 2017, 18, 2004-2014.	4.5	481
35	A novel translational control mechanism involving RNA structures within coding sequences. Genome Research, 2017, 27, 95-106.	5.5	48
36	How RNA modification allows non-conventional decoding in mitochondria. Cell Cycle, 2017, 16, 145-146.	2.6	4

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37	Effects of the Bowen-Conradi syndrome mutation in EMG1 on its nuclear import, stability and nucleolar recruitment. Human Molecular Genetics, 2016, 25, ddw351.	2.9	36
38	<scp>NSUN</scp> 3 and <scp>ABH</scp> 1 modify the wobble position of mtâ€‰<scp>RNA</scp>^{Met} to expand codon recognition in mitochondrial translation. EMBO Journal, 2016, 35, 2104-2119.	7.8	197
39	Protein cofactor competition regulates the action of a multifunctional RNA helicase in different pathways. RNA Biology, 2016, 13, 320-330.	3.1	39
40	Nucleocytoplasmic Transport of RNAs and RNAâ€“Protein Complexes. Journal of Molecular Biology, 2016, 428, 2040-2059.	4.2	52
41	The association of late-acting snoRNPs with human pre-ribosomal complexes requires the RNA helicase DDX21. Nucleic Acids Research, 2015, 43, 553-564.	14.5	64
42	atBRX1-1 and atBRX1-2 are involved in an alternative rRNA processing pathway in Arabidopsis thaliana. Rna, 2015, 21, 415-425.	3.5	68
43	NSUN6 is a human RNA methyltransferase that catalyzes formation of m⁵C72 in specific tRNAs. Rna, 2015, 21, 1532-1543.	3.5	144
44	WBSCR22/Merm1 is required for late nuclear pre-ribosomal RNA processing and mediates N⁷-methylation of G1639 in human 18S rRNA. Rna, 2015, 21, 180-187.	3.5	102
45	The roles of SSU processome components and surveillance factors in the initial processing of human ribosomal RNA. Rna, 2014, 20, 540-550.	3.5	61
46	The evolution of the ribosome biogenesis pathway from a yeast perspective. Nucleic Acids Research, 2014, 42, 1509-1523.	14.5	87
47	A pre-ribosomal RNA interaction network involving snoRNAs and the Rok1 helicase. Rna, 2014, 20, 1173-1182.	3.5	45
48	The 60S associated ribosome biogenesis factor <scp>LSG</scp>1â€‚2 is required for 40S maturation in Arabidopsis thaliana. Plant Journal, 2014, 80, 1043-1056.	5.7	43
49	The 5S RNP Couples p53 Homeostasis to Ribosome Biogenesis and Nucleolar Stress. Cell Reports, 2013, 5, 237-247.	6.4	244
50	DExD/H-box RNA helicases in ribosome biogenesis. RNA Biology, 2013, 10, 4-18.	3.1	110
51	40S Ribosome Biogenesis Co-Factors Are Essential for Gametophyte and Embryo Development. PLoS ONE, 2013, 8, e54084.	2.5	74
52	Structural and functional analysis of the archaeal endonuclease Nob1. Nucleic Acids Research, 2012, 40, 3259-3274.	14.5	64
53	Identification of RNA Helicase Target Sites by UV Cross-Linking and Analysis of cDNA. Methods in Enzymology, 2012, 511, 275-288.	1.0	56
54	Exportin T and Exportin 5: tRNA and miRNA biogenesis â€“ and beyond. Biological Chemistry, 2012, 393, 599-604.	2.5	32

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55	The box C/D and H/ACA snoRNPs: key players in the modification, processing and the dynamic folding of ribosomal RNA. Wiley Interdisciplinary Reviews RNA, 2012, 3, 397-414.	6.4	388
56	Backbone and side chain NMR resonance assignments for an archaeal homolog of the endonuclease Nob1 involved in ribosome biogenesis. Biomolecular NMR Assignments, 2012, 6, 47-50.	0.8	4
57	The functional domains of the chloroplast unusual positioning protein 1. Plant Science, 2011, 180, 650-654.	3.6	16
58	Transitions of gene expression induced by shortâ€term blue light. Plant Biology, 2011, 13, 349-361.	3.8	23
59	The Bowenâ€“Conradi syndrome protein Nep1 (Emg1) has a dual role in eukaryotic ribosome biogenesis, as an essential assembly factor and in the methylation of Î¨1191 in yeast 18S rRNA. Nucleic Acids Research, 2011, 39, 1526-1537.	14.5	108
60	The evolution of protein targeting and translocation systems. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 1115-1130.	4.1	38
61	Zebrafish survival motor neuron mutants exhibit presynaptic neuromuscular junction defects. Human Molecular Genetics, 2009, 18, 3615-3625.	2.9	93
62	Prp43 Bound at Different Sites on the Pre-rRNA Performs Distinct Functions in Ribosome Synthesis. Molecular Cell, 2009, 36, 583-592.	9.7	152
63	Quantitative analysis of snoRNA association with preâ€ribosomes and release of snR30 by Rok1 helicase. EMBO Reports, 2008, 9, 1230-1236.	4.5	72
64	The mRNA encoding the yeast ARE-binding protein Cth2 is generated by a novel 3â€² processing pathway. Nucleic Acids Research, 2008, 36, 3075-3084.	14.5	36
65	The yeast ribosome synthesis factor Emg1 is a novel member of the superfamily of alpha/beta knot fold methyltransferases. Nucleic Acids Research, 2007, 36, 629-639.	14.5	54
66	A centriole- and RanGTP-independent spindle assembly pathway in meiosis I of vertebrate oocytes. Journal of Cell Biology, 2007, 176, 295-305.	5.2	219
67	Functional and Phylogenetic Properties of the Pore-forming Î²-Barrel Transporters of the Omp85 Family. Journal of Biological Chemistry, 2007, 282, 1882-1890.	3.4	74
68	A selective block of nuclear actin export stabilizes the giant nuclei of Xenopus oocytes. Nature Cell Biology, 2006, 8, 257-263.	10.3	180
69	NuSAP, a Mitotic RanGTP Target That Stabilizes and Cross-links Microtubules. Molecular Biology of the Cell, 2006, 17, 2646-2660.	2.1	107
70	Exportin 5 is a RanGTP-dependent dsRNA-binding protein that mediates nuclear export of pre-miRNAs. Rna, 2004, 10, 185-191.	3.5	1,125
71	Exportin 7 defines a novel general nuclear export pathway. EMBO Journal, 2004, 23, 3227-3236.	7.8	96
72	Exp5 exports eEF1A via tRNA from nuclei and synergizes with other transport pathways to confine translation to the cytoplasm. EMBO Journal, 2002, 21, 6205-6215.	7.8	203