Joanna Rorbach

List of Publications by Year in descending order

50 papers	3,135 citations	172457 29 h-index	189892 50 g-index
61 all docs	61 docs citations	61 times ranked	4155 citing authors

#	Article	IF	Citations
1	Impaired plasma cell differentiation associates with increased oxidative metabolism in IÎºBNS-deficient B cells. Cellular Immunology, 2022, 375, 104516.	3.0	5
2	Mechanism of mitoribosomal small subunit biogenesis and preinitiation. Nature, 2022, 606, 603-608.	27.8	32
3	Human GTPBP5 is involved in the late stage of mitoribosome large subunit assembly. Nucleic Acids Research, 2021, 49, 354-370.	14.5	21
4	Aberrant splicing in neuroblastoma generates RNA-fusion transcripts and provides vulnerability to spliceosome inhibitors. Nucleic Acids Research, 2021, 49, 2509-2521.	14.5	12
5	Human Mitoribosome Biogenesis and Its Emerging Links to Disease. International Journal of Molecular Sciences, 2021, 22, 3827.	4.1	31
6	Inhibition of mitochondrial translation suppresses glioblastoma stem cell growth. Cell Reports, 2021, 35, 109024.	6.4	33
7	Seropositivity in blood donors and pregnant women during the first year of SARSâ€CoVâ€2 transmission in Stockholm, Sweden. Journal of Internal Medicine, 2021, 290, 666-676.	6.0	34
8	YbeY is required for ribosome small subunit assembly and tRNA processing in human mitochondria. Nucleic Acids Research, 2021, 49, 5798-5812.	14.5	8
9	Quantitative density gradient analysis by mass spectrometry (qDGMS) and complexome profiling analysis (ComPrAn) R package for the study of macromolecular complexes. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148399.	1.0	16
10	Structural basis for late maturation steps of the human mitoribosomal large subunit. Nature Communications, 2021, 12, 3673.	12.8	30
11	Mitoribosome Profiling from Human Cell Culture: A High Resolution View of Mitochondrial Translation. Methods in Molecular Biology, 2021, 2192, 183-196.	0.9	5
12	Methylation of Ribosomal RNA: A Mitochondrial Perspective. Frontiers in Genetics, 2020, 11, 761.	2.3	20
13	Differential processing and localization of human Nocturnin controls metabolism of mRNA and nicotinamide adenine dinucleotide cofactors. Journal of Biological Chemistry, 2020, 295, 15112-15133.	3.4	6
14	Distinct pre-initiation steps in human mitochondrial translation. Nature Communications, 2020, 11, 2932.	12.8	45
15	C6orf203 is an RNA-binding protein involved in mitochondrial protein synthesis. Nucleic Acids Research, 2019, 47, 9386-9399.	14.5	26
16	MitoRibo-Tag Mice Provide a Tool for InÂVivo Studies of Mitoribosome Composition. Cell Reports, 2019, 29, 1728-1738.e9.	6.4	24
17	Myosin VI-Dependent Actin Cages Encapsulate Parkin-Positive Damaged Mitochondria. Developmental Cell, 2018, 44, 484-499.e6.	7.0	77
18	The human RNA-binding protein RBFA promotes the maturation of the mitochondrial ribosome. Biochemical Journal, 2017, 474, 2145-2158.	3.7	33

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19	Macropinocytic entry of isolated mitochondria in epidermal growth factor-activated human osteosarcoma cells. Scientific Reports, 2017, 7, 12886.	3.3	30
20	Structures of the human mitochondrial ribosome in native states of assembly. Nature Structural and Molecular Biology, 2017, 24, 866-869.	8.2	140
21	Human mitochondrial ribosomes can switch structural tRNAs â€“ but when and why?. RNA Biology, 2017, 14, 1668-1671.	3.1	18
22	Ribosome origami. Nature Structural and Molecular Biology, 2017, 24, 879-881.	8.2	2
23	Defective mitochondrial rRNA methyltransferase MRM2 causes MELAS-like clinical syndrome. Human Molecular Genetics, 2017, 26, 4257-4266.	2.9	63
24	Maturation of selected human mitochondrial tRNAs requires deadenylation. ELife, 2017, 6, .	6.0	72
25	Human Cytomegalovirus Infection Upregulates the Mitochondrial Transcription and Translation Machineries. MBio, 2016, 7, e00029.	4.1	55
26	Near-complete elimination of mutant mtDNA by iterative or dynamic dose-controlled treatment with mtZFNs. Nucleic Acids Research, 2016, 44, 7804-7816.	14.5	97
27	Deficient methylation and formylation of mt-tRNAMet wobble cytosine in a patient carrying mutations in NSUN3. Nature Communications, 2016, 7, 12039.	12.8	178
28	Human mitochondrial ribosomes can switch their structural RNA composition. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12198-12201.	7.1	64
29	TRMT5 Mutations Cause a Defect in Post-transcriptional Modification of Mitochondrial tRNA Associated with Multiple Respiratory-Chain Deficiencies. American Journal of Human Genetics, 2015, 97, 319-328.	6.2	83
30	Amino Acid Starvation Has Opposite Effects on Mitochondrial and Cytosolic Protein Synthesis. PLoS ONE, 2014, 9, e93597.	2.5	48
31	Mutations in GTPBP3 Cause a Mitochondrial Translation Defect Associated with Hypertrophic Cardiomyopathy, Lactic Acidosis, and Encephalopathy. American Journal of Human Genetics, 2014, 95, 708-720.	6.2	123
32	MPV17L2 is required for ribosome assembly in mitochondria. Nucleic Acids Research, 2014, 42, 8500-8515.	14.5	56
33	MRM2 and MRM3 are involved in biogenesis of the large subunit of the mitochondrial ribosome. Molecular Biology of the Cell, 2014, 25, 2542-2555.	2.1	99
34	Polyadenylation in Bacteria and Organelles. Methods in Molecular Biology, 2014, 1125, 211-227.	0.9	23
35	Mitochondrially targeted <scp>ZFN</scp>s for selective degradation of pathogenic mitochondrial genomes bearing largeâ€scale deletions or point mutations. EMBO Molecular Medicine, 2014, 6, 458-466.	6.9	237
36	O.24 Loss of function of MGME1, a novel player in mitochondrial DNA replication, causes a distinct autosomal recessive mitochondrial disorder. Neuromuscular Disorders, 2013, 23, 852.	0.6	1

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37	ELAC2 Mutations Cause a Mitochondrial RNA Processing Defect Associated with Hypertrophic Cardiomyopathy. American Journal of Human Genetics, 2013, 93, 211-223.	6.2	127
38	Mitochondria: Mitochondrial RNA metabolism and human disease. International Journal of Biochemistry and Cell Biology, 2013, 45, 845-849.	2.8	34
39	Loss-of-function mutations in MGME1 impair mtDNA replication and cause multisystemic mitochondrial disease. Nature Genetics, 2013, 45, 214-219.	21.4	198
40	Alternative translation initiation augments the human mitochondrial proteome. Nucleic Acids Research, 2013, 41, 2354-2369.	14.5	56
41	C7orf30 is necessary for biogenesis of the large subunit of the mitochondrial ribosome. Nucleic Acids Research, 2012, 40, 4097-4109.	14.5	64
42	The post-transcriptional life of mammalian mitochondrial RNA. Biochemical Journal, 2012, 444, 357-373.	3.7	114
43	PDE12 removes mitochondrial RNA poly(A) tails and controls translation in human mitochondria. Nucleic Acids Research, 2011, 39, 7750-7763.	14.5	91
44	Polyadenylation of mt mRNA: Identification of novel deadenylase of human mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 105.	1.0	0
45	Injury and differentiation following inhibition of mitochondrial respiratory chain complex IV in rat oligodendrocytes. Glia, 2010, 58, 1827-1837.	4.9	83
46	A functional peptidyl-tRNA hydrolase, ICT1, has been recruited into the human mitochondrial ribosome. EMBO Journal, 2010, 29, 1116-1125.	7.8	167
47	The human mitochondrial ribosome recycling factor is essential for cell viability. Nucleic Acids Research, 2008, 36, 5787-5799.	14.5	102
48	Overexpression of human mitochondrial valyl tRNA synthetase can partially restore levels of cognate mt-tRNAVal carrying the pathogenic C25U mutation. Nucleic Acids Research, 2008, 36, 3065-3074.	14.5	74
49	mtRF1a Is a Human Mitochondrial Translation Release Factor Decoding the Major Termination Codons UAA and UAG. Molecular Cell, 2007, 27, 745-757.	9.7	112
50	How do mammalian mitochondria synthesize proteins?. Biochemical Society Transactions, 2007, 35, 1290-1291.	3.4	28