

Joanna Rorbach

List of Publications by Year in descending order

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Version: 2024-02-01

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	Mitochondrially targeted ZFNs for selective degradation of pathogenic mitochondrial genomes bearing large-scale deletions or point mutations. <i>EMBO Molecular Medicine</i> , 2014, 6, 458-466.	6.9	237
2	Loss-of-function mutations in MGME1 impair mtDNA replication and cause multisystemic mitochondrial disease. <i>Nature Genetics</i> , 2013, 45, 214-219.	21.4	198
3	Deficient methylation and formylation of mt-tRNA ^{Met} wobble cytosine in a patient carrying mutations in NSUN3. <i>Nature Communications</i> , 2016, 7, 12039.	12.8	178
4	A functional peptidyl-tRNA hydrolase, ICT1, has been recruited into the human mitochondrial ribosome. <i>EMBO Journal</i> , 2010, 29, 1116-1125.	7.8	167
5	Structures of the human mitochondrial ribosome in native states of assembly. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 866-869.	8.2	140
6	ELAC2 Mutations Cause a Mitochondrial RNA Processing Defect Associated with Hypertrophic Cardiomyopathy. <i>American Journal of Human Genetics</i> , 2013, 93, 211-223.	6.2	127
7	Mutations in GTPBP3 Cause a Mitochondrial Translation Defect Associated with Hypertrophic Cardiomyopathy, Lactic Acidosis, and Encephalopathy. <i>American Journal of Human Genetics</i> , 2014, 95, 708-720.	6.2	123
8	The post-transcriptional life of mammalian mitochondrial RNA. <i>Biochemical Journal</i> , 2012, 444, 357-373.	3.7	114
9	mtRF1a Is a Human Mitochondrial Translation Release Factor Decoding the Major Termination Codons UAA and UAG. <i>Molecular Cell</i> , 2007, 27, 745-757.	9.7	112
10	The human mitochondrial ribosome recycling factor is essential for cell viability. <i>Nucleic Acids Research</i> , 2008, 36, 5787-5799.	14.5	102
11	MRM2 and MRM3 are involved in biogenesis of the large subunit of the mitochondrial ribosome. <i>Molecular Biology of the Cell</i> , 2014, 25, 2542-2555.	2.1	99
12	Near-complete elimination of mutant mtDNA by iterative or dynamic dose-controlled treatment with mtZFNs. <i>Nucleic Acids Research</i> , 2016, 44, 7804-7816.	14.5	97
13	PDE12 removes mitochondrial RNA poly(A) tails and controls translation in human mitochondria. <i>Nucleic Acids Research</i> , 2011, 39, 7750-7763.	14.5	91
14	Injury and differentiation following inhibition of mitochondrial respiratory chain complex IV in rat oligodendrocytes. <i>Glia</i> , 2010, 58, 1827-1837.	4.9	83
15	TRMT5 Mutations Cause a Defect in Post-transcriptional Modification of Mitochondrial tRNA Associated with Multiple Respiratory-Chain Deficiencies. <i>American Journal of Human Genetics</i> , 2015, 97, 319-328.	6.2	83
16	Myosin VI-Dependent Actin Cages Encapsulate Parkin-Positive Damaged Mitochondria. <i>Developmental Cell</i> , 2018, 44, 484-499.e6.	7.0	77
17	Overexpression of human mitochondrial valyl tRNA synthetase can partially restore levels of cognate mt-tRNA ^{Val} carrying the pathogenic C25U mutation. <i>Nucleic Acids Research</i> , 2008, 36, 3065-3074.	14.5	74
18	Maturation of selected human mitochondrial tRNAs requires deadenylation. <i>ELife</i> , 2017, 6, .	6.0	72

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19	C7orf30 is necessary for biogenesis of the large subunit of the mitochondrial ribosome. <i>Nucleic Acids Research</i> , 2012, 40, 4097-4109.	14.5	64
20	Human mitochondrial ribosomes can switch their structural RNA composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12198-12201.	7.1	64
21	Defective mitochondrial rRNA methyltransferase MRM2 causes MELAS-like clinical syndrome. <i>Human Molecular Genetics</i> , 2017, 26, 4257-4266.	2.9	63
22	Alternative translation initiation augments the human mitochondrial proteome. <i>Nucleic Acids Research</i> , 2013, 41, 2354-2369.	14.5	56
23	MPV17L2 is required for ribosome assembly in mitochondria. <i>Nucleic Acids Research</i> , 2014, 42, 8500-8515.	14.5	56
24	Human Cytomegalovirus Infection Upregulates the Mitochondrial Transcription and Translation Machineries. <i>MBio</i> , 2016, 7, e00029.	4.1	55
25	Amino Acid Starvation Has Opposite Effects on Mitochondrial and Cytosolic Protein Synthesis. <i>PLoS ONE</i> , 2014, 9, e93597.	2.5	48
26	Distinct pre-initiation steps in human mitochondrial translation. <i>Nature Communications</i> , 2020, 11, 2932.	12.8	45
27	Mitochondria: Mitochondrial RNA metabolism and human disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 845-849.	2.8	34
28	Seropositivity in blood donors and pregnant women during the first year of SARS-CoV-2 transmission in Stockholm, Sweden. <i>Journal of Internal Medicine</i> , 2021, 290, 666-676.	6.0	34
29	The human RNA-binding protein RBFA promotes the maturation of the mitochondrial ribosome. <i>Biochemical Journal</i> , 2017, 474, 2145-2158.	3.7	33
30	Inhibition of mitochondrial translation suppresses glioblastoma stem cell growth. <i>Cell Reports</i> , 2021, 35, 109024.	6.4	33
31	Mechanism of mitoribosomal small subunit biogenesis and preinitiation. <i>Nature</i> , 2022, 606, 603-608.	27.8	32
32	Human Mitoribosome Biogenesis and Its Emerging Links to Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3827.	4.1	31
33	Macropinocytic entry of isolated mitochondria in epidermal growth factor-activated human osteosarcoma cells. <i>Scientific Reports</i> , 2017, 7, 12886.	3.3	30
34	Structural basis for late maturation steps of the human mitoribosomal large subunit. <i>Nature Communications</i> , 2021, 12, 3673.	12.8	30
35	How do mammalian mitochondria synthesize proteins?. <i>Biochemical Society Transactions</i> , 2007, 35, 1290-1291.	3.4	28
36	C6orf203 is an RNA-binding protein involved in mitochondrial protein synthesis. <i>Nucleic Acids Research</i> , 2019, 47, 9386-9399.	14.5	26

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37	MitoRibo-Tag Mice Provide a Tool for In Vivo Studies of Mitochondrial Composition. <i>Cell Reports</i> , 2019, 29, 1728-1738.e9.	6.4	24
38	Polyadenylation in Bacteria and Organelles. <i>Methods in Molecular Biology</i> , 2014, 1125, 211-227.	0.9	23
39	Human GTPBP5 is involved in the late stage of mitochondrial large subunit assembly. <i>Nucleic Acids Research</i> , 2021, 49, 354-370.	14.5	21
40	Methylation of Ribosomal RNA: A Mitochondrial Perspective. <i>Frontiers in Genetics</i> , 2020, 11, 761.	2.3	20
41	Human mitochondrial ribosomes can switch structural tRNAs “but when and why?”. <i>RNA Biology</i> , 2017, 14, 1668-1671.	3.1	18
42	Quantitative density gradient analysis by mass spectrometry (qDGMS) and complexome profiling analysis (ComPrAn) R package for the study of macromolecular complexes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148399.	1.0	16
43	Aberrant splicing in neuroblastoma generates RNA-fusion transcripts and provides vulnerability to spliceosome inhibitors. <i>Nucleic Acids Research</i> , 2021, 49, 2509-2521.	14.5	12
44	YbeY is required for ribosome small subunit assembly and tRNA processing in human mitochondria. <i>Nucleic Acids Research</i> , 2021, 49, 5798-5812.	14.5	8
45	Differential processing and localization of human Nocturnin controls metabolism of mRNA and nicotinamide adenine dinucleotide cofactors. <i>Journal of Biological Chemistry</i> , 2020, 295, 15112-15133.	3.4	6
46	Mitochondrial Profiling from Human Cell Culture: A High Resolution View of Mitochondrial Translation. <i>Methods in Molecular Biology</i> , 2021, 2192, 183-196.	0.9	5
47	Impaired plasma cell differentiation associates with increased oxidative metabolism in μ BNS-deficient B cells. <i>Cellular Immunology</i> , 2022, 375, 104516.	3.0	5
48	Ribosome origami. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 879-881.	8.2	2
49	O.24 Loss of function of MGME1, a novel player in mitochondrial DNA replication, causes a distinct autosomal recessive mitochondrial disorder. <i>Neuromuscular Disorders</i> , 2013, 23, 852.	0.6	1
50	Polyadenylation of mt mRNA: Identification of novel deadenylase of human mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 105.	1.0	0