Christopher A Powell

List of Publications by Year
in descending order

28	2,281	236612 25	500791 28
papers	citations	h-index	g-index

36	36	36	3417
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PrimPol, an Archaic Primase/Polymerase Operating in Human Cells. Molecular Cell, 2013, 52, 541-553.	4.5	322
2	Genome editing in mitochondria corrects a pathogenic mtDNA mutation in vivo. Nature Medicine, 2018, 24, 1691-1695.	15.2	215
3	Deficient methylation and formylation of mt-tRNAMet wobble cytosine in a patient carrying mutations in NSUN3. Nature Communications, 2016, 7, 12039.	5.8	178
4	Regulation of Mammalian Mitochondrial Gene Expression: Recent Advances. Trends in Biochemical Sciences, 2017, 42, 625-639.	3.7	151
5	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.	2.6	123
6	Variants in PUS7 Cause Intellectual Disability with Speech Delay, Microcephaly, Short Stature, and Aggressive Behavior. American Journal of Human Genetics, 2018, 103, 1045-1052.	2.6	89
7	VARS2andTARS2Mutations in Patients with Mitochondrial Encephalomyopathies. Human Mutation, 2014, 35, 983-989.	1.1	86
8	NSUN2 introduces 5-methylcytosines in mammalian mitochondrial tRNAs. Nucleic Acids Research, 2019, 47, 8720-8733.	6.5	84
9	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.	2.6	83
10	The Pseudouridine Synthase RPUSD4 Is an Essential Component of Mitochondrial RNA Granules. Journal of Biological Chemistry, 2017, 292, 4519-4532.	1.6	79
11	Maturation of selected human mitochondrial tRNAs requires deadenylation. ELife, 2017, 6, .	2.8	72
12	METTL15 introduces N4-methylcytidine into human mitochondrial 12S rRNA and is required for mitoribosome biogenesis. Nucleic Acids Research, 2019, 47, 10267-10281.	6.5	70
13	Mitochondrial transcript maturation and its disorders. Journal of Inherited Metabolic Disease, 2015, 38, 655-680.	1.7	69
14	Nuclear-encoded factors involved in post-transcriptional processing and modification of mitochondrial tRNAs in human disease. Frontiers in Genetics, 2015, 6, 79.	1.1	69
15	TRNT1 deficiency: clinical, biochemical and molecular genetic features. Orphanet Journal of Rare Diseases, 2016, 11, 90.	1.2	64
16	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.	3.3	64
17	Mutations in the mitochondrial cysteinyl-tRNA synthase gene,CARS2,lead to a severe epileptic encephalopathy and complex movement disorder. Journal of Medical Genetics, 2015, 52, 532-540.	1.5	62
18	Two Siblings with Homozygous Pathogenic Splice-Site Variant in Mitochondrial Asparaginyl-tRNA Synthetase (NARS2). Human Mutation, 2015, 36, 222-231.	1.1	51

#	Article	IF	Citations
19	TRMT2B is responsible for both tRNA and rRNA m⁵U-methylation in human mitochondria. RNA Biology, 2020, 17, 451-462.	1.5	46
20	Pathogenic variants in glutamyl-tRNAGln amidotransferase subunits cause a lethal mitochondrial cardiomyopathy disorder. Nature Communications, 2018, 9, 4065.	5.8	44
21	Balancing of mitochondrial translation through METTL8-mediated m3C modification of mitochondrial tRNAs. Molecular Cell, 2021, 81, 4810-4825.e12.	4.5	44
22	Disruption of the TCA cycle reveals an ATF4-dependent integration of redox and amino acid metabolism. ELife, 2021, 10, .	2.8	44
23	The mammalian mitochondrial epitranscriptome. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2019, 1862, 429-446.	0.9	40
24	New insights into the phenotype of FARS2 deficiency. Molecular Genetics and Metabolism, 2017, 122, 172-181.	0.5	38
25	Mutations inELAC2associated with hypertrophic cardiomyopathy impair mitochondrial tRNA 3â€²â€end processing. Human Mutation, 2019, 40, 1731-1748.	1.1	31
26	Metabolic shift underlies recovery in reversible infantile respiratory chain deficiency. EMBO Journal, 2020, 39, e105364.	3.5	26
27	DealingÂwithÂanÂUnconventionalÂGeneticÂCodeÂinÂ Mitochondria:ÂTheÂBiogenesisÂandÂPathogenicÂ DefectsÂofÂtheÂ5â€FormylcytosineÂModificationÂinÂ MitochondrialÂtRNAMet. Biomolecules, 2017, 7, 24.	1.8	24
28	YbeY is required for ribosome small subunit assembly and tRNA processing in human mitochondria. Nucleic Acids Research, 2021, 49, 5798-5812.	6.5	8