

Christoph Freyer

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7380868/christoph-freyer-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

1,982
citations

20
h-index

43
g-index

43
ext. papers

2,378
ext. citations

11.4
avg, IF

4.27
L-index

#	Paper	IF	Citations
42	Strong purifying selection in transmission of mammalian mitochondrial DNA. <i>PLoS Biology</i> , 2008 , 6, e10	9.7	352
41	Germline mitochondrial DNA mutations aggravate ageing and can impair brain development. <i>Nature</i> , 2013 , 501, 412-5	50.4	188
40	Ultra-deep sequencing of mouse mitochondrial DNA: mutational patterns and their origins. <i>PLoS Genetics</i> , 2011 , 7, e1002028	6	136
39	Purifying selection of mtDNA and its implications for understanding evolution and mitochondrial disease. <i>Nature Reviews Genetics</i> , 2008 , 9, 657-62	30.1	129
38	Respiratory chain dysfunction in skeletal muscle does not cause insulin resistance. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 350, 202-7	3.4	122
37	TWINKLE is an essential mitochondrial helicase required for synthesis of nascent D-loop strands and complete mtDNA replication. <i>Human Molecular Genetics</i> , 2013 , 22, 1983-93	5.6	114
36	Variation in germline mtDNA heteroplasmy is determined prenatally but modified during subsequent transmission. <i>Nature Genetics</i> , 2012 , 44, 1282-5	36.3	102
35	Neu-Laxova syndrome is a heterogeneous metabolic disorder caused by defects in enzymes of the L-serine biosynthesis pathway. <i>American Journal of Human Genetics</i> , 2014 , 95, 285-93	11	82
34	A Phenotype-Driven Approach to Generate Mouse Models with Pathogenic mtDNA Mutations Causing Mitochondrial Disease. <i>Cell Reports</i> , 2016 , 16, 2980-2990	10.6	72
33	MTERF3 regulates mitochondrial ribosome biogenesis in invertebrates and mammals. <i>PLoS Genetics</i> , 2013 , 9, e1003178	6	70
32	Absence of the Autophagy Adaptor SQSTM1/p62 Causes Childhood-Onset Neurodegeneration with Ataxia, Dystonia, and Gaze Palsy. <i>American Journal of Human Genetics</i> , 2016 , 99, 735-743	11	69
31	Rescue of primary ubiquinone deficiency due to a novel COQ7 defect using 2,4-dihydroxybenzoic acid. <i>Journal of Medical Genetics</i> , 2015 , 52, 779-83	5.8	67
30	No recombination of mtDNA after heteroplasmy for 50 generations in the mouse maternal germline. <i>Nucleic Acids Research</i> , 2014 , 42, 1111-6	20.1	63
29	Regulation of DNA replication at the end of the mitochondrial D-loop involves the helicase TWINKLE and a conserved sequence element. <i>Nucleic Acids Research</i> , 2015 , 43, 9262-75	20.1	54
28	Intra-mitochondrial Methylation Deficiency Due to Mutations in SLC25A26. <i>American Journal of Human Genetics</i> , 2015 , 97, 761-8	11	44
27	MtDNA mutations are a common cause of severe disease phenotypes in children with Leigh syndrome. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 484-90	4.6	38
26	Maintenance of respiratory chain function in mouse hearts with severely impaired mtDNA transcription. <i>Nucleic Acids Research</i> , 2010 , 38, 6577-88	20.1	29

25	Mitochondrial Polyadenylation Is a One-Step Process Required for mRNA Integrity and tRNA Maturation. <i>PLoS Genetics</i> , 2016 , 12, e1006028	6	25
24	Metabolic regulation of neurodifferentiation in the adult brain. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 2483-2496	10.3	22
23	Integration of whole genome sequencing into a healthcare setting: high diagnostic rates across multiple clinical entities in 3219 rare disease patients. <i>Genome Medicine</i> , 2021 , 13, 40	14.4	22
22	SQSTM1/p62-Directed Metabolic Reprogramming Is Essential for Normal Neurodifferentiation. <i>Stem Cell Reports</i> , 2019 , 12, 696-711	8	20
21	Defects of mitochondrial RNA turnover lead to the accumulation of double-stranded RNA in vivo. <i>PLoS Genetics</i> , 2019 , 15, e1008240	6	19
20	Respiratory chain complex III deficiency due to mutated BCS1L: a novel phenotype with encephalomyopathy, partially phenocopied in a Bcs1l mutant mouse model. <i>Orphanet Journal of Rare Diseases</i> , 2017 , 12, 73	4.2	18
19	Absence of TXNIP in Humans Leads to Lactic Acidosis and Low Serum Methionine Linked to Deficient Respiration on Pyruvate. <i>Diabetes</i> , 2019 , 68, 709-723	0.9	17
18	Detection of 6-demethoxyubiquinone in CoQ deficiency disorders: Insights into enzyme interactions and identification of potential therapeutics. <i>Molecular Genetics and Metabolism</i> , 2017 , 121, 216-223	3.7	15
17	SUV3 helicase is required for correct processing of mitochondrial transcripts. <i>Nucleic Acids Research</i> , 2015 , 43, 7398-413	20.1	15
16	C6orf203 is an RNA-binding protein involved in mitochondrial protein synthesis. <i>Nucleic Acids Research</i> , 2019 , 47, 9386-9399	20.1	14
15	Cyclophilin D, a target for counteracting skeletal muscle dysfunction in mitochondrial myopathy. <i>Human Molecular Genetics</i> , 2015 , 24, 6580-7	5.6	11
14	Is energy deficiency good in moderation?. <i>Cell</i> , 2007 , 131, 448-50	56.2	11
13	Myoglobinopathy is an adult-onset autosomal dominant myopathy with characteristic sarcoplasmic inclusions. <i>Nature Communications</i> , 2019 , 10, 1396	17.4	7
12	Chorea, psychosis, acanthocytosis, and prolonged survival associated with mutations. <i>Neurology</i> , 2018 , 91, 710-712	6.5	7
11	Mutations in the mitochondrial tryptophanyl-tRNA synthetase cause growth retardation and progressive leukoencephalopathy. <i>Molecular Genetics & Genomic Medicine</i> , 2019 , 7, e654	2.3	6
10	The one-carbon pool controls mitochondrial energy metabolism via complex I and iron-sulfur clusters. <i>Science Advances</i> , 2021 , 7,	14.3	6
9	A multi-systemic mitochondrial disorder due to a dominant p.Y955H disease variant in DNA polymerase gamma. <i>Human Molecular Genetics</i> , 2017 , 26, 2515-2525	5.6	5
8	Protocol for the derivation, culturing, and differentiation of human iPS-cell-derived neuroepithelial stem cells to study neural differentiation in vitro. <i>STAR Protocols</i> , 2021 , 2, 100528	1.4	4

7	Severe congenital lactic acidosis and hypertrophic cardiomyopathy caused by an intronic variant in NDUFB7. <i>Human Mutation</i> , 2021 , 42, 378-384	4.7	3
6	Novel Mutation m.10372A>G in Causing Sensorimotor Axonal Polyneuropathy. <i>Neurology: Genetics</i> , 2021 , 7, e566	3.8	1
5	Clinical Presentation, Genetic Etiology, and Coenzyme Q10 Levels in 55 Children with Combined Enzyme Deficiencies of the Mitochondrial Respiratory Chain. <i>Journal of Pediatrics</i> , 2021 , 228, 240-251.e2 ^{3.6}		1
4	Stable Isotope Labeling of Amino Acids in Flies (SILAF) Reveals Differential Phosphorylation of Mitochondrial Proteins Upon Loss of OXPHOS Subunits. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100065	7.6	1
3	Quantitative Proteomics in Drosophila with Holidic Stable-Isotope Labeling of Amino Acids in Fruit Flies (SILAF). <i>Methods in Molecular Biology</i> , 2021 , 2192, 75-87	1.4	1
2	Mitochondrial RNA Turnover in Metazoa. <i>Nucleic Acids and Molecular Biology</i> , 2018 , 17-46		0
1	J10 Chorea, psychotic symptoms and long survival in a subject with ELAC2 mutations. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, A78.3-A79	5.5	