

Anu Suomalainen

List of Publications by Year in descending order

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127
papers

15,570
citations

25034

57
h-index

18647

119
g-index

135
all docs

135
docs citations

135
times ranked

17100
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondria: In Sickness and in Health. <i>Cell</i> , 2012, 148, 1145-1159.	28.9	2,411
2	Mitochondrial diseases. <i>Nature Reviews Disease Primers</i> , 2016, 2, 16080.	30.5	1,001
3	Human mitochondrial DNA deletions associated with mutations in the gene encoding Twinkle, a phage T7 gene 4-like protein localized in mitochondria. <i>Nature Genetics</i> , 2001, 28, 223-231.	21.4	803
4	Role of Adenine Nucleotide Translocator 1 in mtDNA Maintenance. <i>Science</i> , 2000, 289, 782-785.	12.6	591
5	Parkinsonism, premature menopause, and mitochondrial DNA polymerase γ mutations: clinical and molecular genetic study. <i>Lancet</i> , The, 2004, 364, 875-882.	13.7	538
6	Phenotypic spectrum associated with mutations of the mitochondrial polymerase γ gene. <i>Brain</i> , 2006, 129, 1674-1684.	7.6	397
7	Mutation of OPA1 causes dominant optic atrophy with external ophthalmoplegia, ataxia, deafness and multiple mitochondrial DNA deletions: a novel disorder of mtDNA maintenance. <i>Brain</i> , 2008, 131, 329-337.	7.6	381
8	Mitochondrial diseases: the contribution of organelle stress responses to pathology. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 77-92.	37.0	369
9	FGF-21 as a biomarker for muscle-manifesting mitochondrial respiratory chain deficiencies: a diagnostic study. <i>Lancet Neurology</i> , The, 2011, 10, 806-818.	10.2	352
10	Effective treatment of mitochondrial myopathy by nicotinamide riboside, a vitamin B3. <i>EMBO Molecular Medicine</i> , 2014, 6, 721-731.	6.9	326
11	Mitochondrial DNA Polymerase W748S Mutation: A Common Cause of Autosomal Recessive Ataxia with Ancient European Origin. <i>American Journal of Human Genetics</i> , 2005, 77, 430-441.	6.2	302
12	Mutant mitochondrial helicase Twinkle causes multiple mtDNA deletions and a late-onset mitochondrial disease in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17687-17692.	7.1	297
13	mTORC1 Regulates Mitochondrial Integrated Stress Response and Mitochondrial Myopathy Progression. <i>Cell Metabolism</i> , 2017, 26, 419-428.e5.	16.2	291
14	GRACILE Syndrome, a Lethal Metabolic Disorder with Iron Overload, Is Caused by a Point Mutation in BCS1L. <i>American Journal of Human Genetics</i> , 2002, 71, 863-876.	6.2	263
15	Impaired Mitochondrial Biogenesis in Adipose Tissue in Acquired Obesity. <i>Diabetes</i> , 2015, 64, 3135-3145.	0.6	263
16	Mitochondrial myopathy induces a starvation-like response. <i>Human Molecular Genetics</i> , 2010, 19, 3948-3958.	2.9	249
17	Comparison of solution-based exome capture methods for next generation sequencing. <i>Genome Biology</i> , 2011, 12, R94.	9.6	237
18	Exome Sequencing Identifies Mitochondrial Alanyl-tRNA Synthetase Mutations in Infantile Mitochondrial Cardiomyopathy. <i>American Journal of Human Genetics</i> , 2011, 88, 635-642.	6.2	229

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19	Mitochondrial DNA Replication Defects Disturb Cellular dNTP Pools and Remodel One-Carbon Metabolism. <i>Cell Metabolism</i> , 2016, 23, 635-648.	16.2	222
20	Somatic Progenitor Cell Vulnerability to Mitochondrial DNA Mutagenesis Underlies Progeroid Phenotypes in Polg Mutator Mice. <i>Cell Metabolism</i> , 2012, 15, 100-109.	16.2	213
21	Twinkle helicase is essential for mtDNA maintenance and regulates mtDNA copy number. <i>Human Molecular Genetics</i> , 2004, 13, 3219-3227.	2.9	202
22	Infantile onset spinocerebellar ataxia is caused by recessive mutations in mitochondrial proteins Twinkle and Twinky. <i>Human Molecular Genetics</i> , 2005, 14, 2981-2990.	2.9	201
23	Recessive Twinkle mutations in early onset encephalopathy with mtDNA depletion. <i>Brain</i> , 2007, 130, 3032-3040.	7.6	188
24	Tissue- and cell-type-specific manifestations of heteroplasmic mtDNA 3243A>G mutation in human induced pluripotent stem cell-derived disease model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3622-30.	7.1	185
25	Mitochondrial DNA depletion syndromes – Many genes, common mechanisms. <i>Neuromuscular Disorders</i> , 2010, 20, 429-437.	0.6	169
26	Ketogenic diet slows down mitochondrial myopathy progression in mice. <i>Human Molecular Genetics</i> , 2010, 19, 1974-1984.	2.9	168
27	FGF21 is a biomarker for mitochondrial translation and mtDNA maintenance disorders. <i>Neurology</i> , 2016, 87, 2290-2299.	1.1	167
28	Fibroblast Growth Factor 21 Drives Dynamics of Local and Systemic Stress Responses in Mitochondrial Myopathy with mtDNA Deletions. <i>Cell Metabolism</i> , 2019, 30, 1040-1054.e7.	16.2	166
29	Niacin Cures Systemic NAD+ Deficiency and Improves Muscle Performance in Adult-Onset Mitochondrial Myopathy. <i>Cell Metabolism</i> , 2020, 31, 1078-1090.e5.	16.2	154
30	Mechanisms of mitochondrial diseases. <i>Annals of Medicine</i> , 2012, 44, 41-59.	3.8	149
31	Infantile-onset spinocerebellar ataxia and mitochondrial recessive ataxia syndrome are associated with neuronal complex I defect and mtDNA depletion. <i>Human Molecular Genetics</i> , 2008, 17, 3822-3835.	2.9	129
32	Effect of bezafibrate treatment on late-onset mitochondrial myopathy in mice. <i>Human Molecular Genetics</i> , 2012, 21, 526-535.	2.9	125
33	High mitochondrial DNA copy number has detrimental effects in mice. <i>Human Molecular Genetics</i> , 2010, 19, 2695-2705.	2.9	123
34	Twinkle mutations associated with autosomal dominant progressive external ophthalmoplegia lead to impaired helicase function and in vivo mtDNA replication stalling. <i>Human Molecular Genetics</i> , 2009, 18, 328-340.	2.9	120
35	A Heterozygous Truncating Mutation in RRM2B Causes Autosomal-Dominant Progressive External Ophthalmoplegia with Multiple mtDNA Deletions. <i>American Journal of Human Genetics</i> , 2009, 85, 290-295.	6.2	111
36	Human Heart Mitochondrial DNA Is Organized in Complex Catenated Networks Containing Abundant Four-way Junctions and Replication Forks. <i>Journal of Biological Chemistry</i> , 2009, 284, 21446-21457.	3.4	110

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37	Overexpression of TFAM or Twinkle Increases mtDNA Copy Number and Facilitates Cardioprotection Associated with Limited Mitochondrial Oxidative Stress. <i>PLoS ONE</i> , 2015, 10, e0119687.	2.5	109
38	Twinkle and POLG defects enhance age-dependent accumulation of mutations in the control region of mtDNA. <i>Nucleic Acids Research</i> , 2004, 32, 3053-3064.	14.5	107
39	Diseases caused by nuclear genes affecting mtDNA stability. <i>American Journal of Medical Genetics Part A</i> , 2001, 106, 53-61.	2.4	100
40	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.	6.2	99
41	Genetic Basis of Severe Childhood-Onset Cardiomyopathies. <i>Journal of the American College of Cardiology</i> , 2018, 72, 2324-2338.	2.8	97
42	Functional defects due to spacer-region mutations of human mitochondrial DNA polymerase in a family with an ataxia-myopathy syndrome. <i>Human Molecular Genetics</i> , 2005, 14, 1907-1920.	2.9	96
43	Mitochondrial disease in adults: recent advances and future promise. <i>Lancet Neurology</i> , The, 2021, 20, 573-584.	10.2	96
44	Recurrent De Novo Dominant Mutations in SLC25A4 Cause Severe Early-Onset Mitochondrial Disease and Loss of Mitochondrial DNA Copy Number. <i>American Journal of Human Genetics</i> , 2016, 99, 860-876.	6.2	93
45	Abundance of the POLG disease mutations in Europe, Australia, New Zealand, and the United States explained by single ancient European founders. <i>European Journal of Human Genetics</i> , 2007, 15, 779-783.	2.8	91
46	Thymidine kinase 2 mutations in autosomal recessive progressive external ophthalmoplegia with multiple mitochondrial DNA deletions. <i>Human Molecular Genetics</i> , 2012, 21, 66-75.	2.9	91
47	Whole-exome sequencing identifies a mutation in the mitochondrial ribosome protein MRPL44 to underlie mitochondrial infantile cardiomyopathy. <i>Journal of Medical Genetics</i> , 2013, 50, 151-159.	3.2	85
48	Mouse models of mitochondrial DNA defects and their relevance for human disease. <i>EMBO Reports</i> , 2009, 10, 137-143.	4.5	84
49	New mutation of mitochondrial DNAJC19 causing dilated and noncompaction cardiomyopathy, anemia, ataxia, and male genital anomalies. <i>Pediatric Research</i> , 2012, 72, 432-437.	2.3	83
50	Phosphorylation of Parkin at serine 65 is essential for its activation <i>in vivo</i> . <i>Open Biology</i> , 2018, 8, 180108.	3.6	81
51	TFPa/HADHA is required for fatty acid beta-oxidation and cardiolipin re-modeling in human cardiomyocytes. <i>Nature Communications</i> , 2019, 10, 4671.	12.8	77
52	Thymidine kinase 2 defects can cause multi-tissue mtDNA depletion syndrome. <i>Brain</i> , 2008, 131, 2841-2850.	7.6	73
53	Retrospective natural history of thymidine kinase 2 deficiency. <i>Journal of Medical Genetics</i> , 2018, 55, 515-521.	3.2	73
54	Quantification of tRNA ^{3243Leu} point mutation of mitochondrial DNA in MELAS patients and its effects on mitochondrial transcription. <i>Human Molecular Genetics</i> , 1993, 2, 525-534.	2.9	72

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55	mtDNA Mutagenesis Disrupts Pluripotent Stem Cell Function by Altering Redox Signaling. <i>Cell Reports</i> , 2015, 11, 1614-1624.	6.4	66
56	Regulation of Mother-to-Offspring Transmission of mtDNA Heteroplasmy. <i>Cell Metabolism</i> , 2019, 30, 1120-1130.e5.	16.2	66
57	Stem cells, mitochondria and aging. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1380-1386.	1.0	65
58	RNA modification landscape of the human mitochondrial tRNALys regulates protein synthesis. <i>Nature Communications</i> , 2018, 9, 3966.	12.8	61
59	Deficiency of the INCL protein Ppt1 results in changes in ectopic F1-ATP synthase and altered cholesterol metabolism. <i>Human Molecular Genetics</i> , 2008, 17, 1406-1417.	2.9	58
60	USF1 deficiency activates brown adipose tissue and improves cardiometabolic health. <i>Science Translational Medicine</i> , 2016, 8, 323ra13.	12.4	58
61	Defects in mtDNA replication challenge nuclear genome stability through nucleotide depletion and provide a unifying mechanism for mouse progerias. <i>Nature Metabolism</i> , 2019, 1, 958-965.	11.9	57
62	Modified Atkins diet induces subacute selective raggedâ€redâ€fiber lysis in mitochondrial myopathyâ€patients. <i>EMBO Molecular Medicine</i> , 2016, 8, 1234-1247.	6.9	56
63	Metabolomes of mitochondrial diseases and inclusion body myositis patients: treatment targets and biomarkers. <i>EMBO Molecular Medicine</i> , 2018, 10, .	6.9	54
64	Liver Fat But Not Other Adiposity Measures Influence Circulating FGF21 Levels in Healthy Young Adult Twins. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E351-E355.	3.6	53
65	Selenoprotein biosynthesis defect causes progressive encephalopathy with elevated lactate. <i>Neurology</i> , 2015, 85, 306-315.	1.1	52
66	Structural modeling of tissue-specific mitochondrial alanyl-tRNA synthetase (AARS2) defects predicts differential effects on aminoacylation. <i>Frontiers in Genetics</i> , 2015, 6, 21.	2.3	46
67	Fibroblast growth factor 21: a novel biomarker for human muscle-manifesting mitochondrial disorders. <i>Expert Opinion on Medical Diagnostics</i> , 2013, 7, 313-317.	1.6	45
68	Clustering of Alpers disease mutations and catalytic defects in biochemical variants reveal new features of molecular mechanism of the human mitochondrial replicase, Pol Î³. <i>Nucleic Acids Research</i> , 2011, 39, 9072-9084.	14.5	44
69	Vegan diet in young children remodels metabolism and challenges the statuses of essential nutrients. <i>EMBO Molecular Medicine</i> , 2021, 13, e13492.	6.9	43
70	Therapy for mitochondrial disorders: Little proof, high research activity, some promise. <i>Seminars in Fetal and Neonatal Medicine</i> , 2011, 16, 236-240.	2.3	41
71	Biomarkers for mitochondrial respiratory chain disorders. <i>Journal of Inherited Metabolic Disease</i> , 2011, 34, 277-282.	3.6	41
72	Mesencephalic complex I deficiency does not correlate with parkinsonism in mitochondrial DNA maintenance disorders. <i>Brain</i> , 2013, 136, 2379-2392.	7.6	41

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73	Defective mitochondrial RNA processing due to PNPT1 variants causes Leigh syndrome. <i>Human Molecular Genetics</i> , 2017, 26, 3352-3361.	2.9	41
74	Overexpression of Twinkle-helicase protects cardiomyocytes from genotoxic stress caused by reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19408-19413.	7.1	39
75	Integrative omics approaches provide biological and clinical insights: examples from mitochondrial diseases. <i>Journal of Clinical Investigation</i> , 2020, 130, 20-28.	8.2	39
76	Characterization of a novel human putative mitochondrial transporter homologous to the yeast mitochondrial RNA splicing proteins 3 and 4. <i>FEBS Letters</i> , 2001, 494, 79-84.	2.8	38
77	Loss of mtDNA activates astrocytes and leads to spongiotic encephalopathy. <i>Nature Communications</i> , 2018, 9, 70.	12.8	38
78	SUCLA2 mutations cause global protein succinylation contributing to the pathomechanism of a hereditary mitochondrial disease. <i>Nature Communications</i> , 2020, 11, 5927.	12.8	35
79	Mosaic dysfunction of mitophagy in mitochondrial muscle disease. <i>Cell Metabolism</i> , 2022, 34, 197-208.e5.	16.2	35
80	Diagnostic value of serum biomarkers <scp>FGF21</scp> and <scp>GDF15</scp> compared to muscle sample in mitochondrial disease. <i>Journal of Inherited Metabolic Disease</i> , 2021, 44, 469-480.	3.6	34
81	A variant in <i>MRPS14</i> (uS14m) causes perinatal hypertrophic cardiomyopathy with neonatal lactic acidosis, growth retardation, dysmorphic features and neurological involvement. <i>Human Molecular Genetics</i> , 2019, 28, 639-649.	2.9	33
82	Mitochondrial EFTs defects in juvenile-onset Leigh disease, ataxia, neuropathy, and optic atrophy. <i>Neurology</i> , 2014, 83, 743-751.	1.1	31
83	Quantitative Analysis of Human DNA Sequences by PCR and Solid-Phase Minisequencing. <i>Molecular Biotechnology</i> , 2000, 15, 123-132.	2.4	29
84	Patient-Specific Induced Pluripotent Stem Cellâ€Derived RPE Cells: Understanding the Pathogenesis of Retinopathy in Long-Chain 3-Hydroxyacyl-CoA Dehydrogenase Deficiency. , 2015, 56, 3371.		29
85	Ribonucleotide reductase is not limiting for mitochondrial DNA copy number in mice. <i>Nucleic Acids Research</i> , 2010, 38, 8208-8218.	14.5	28
86	Mitochondrial stress response triggered by defects in protein synthesis quality control. <i>Life Science Alliance</i> , 2019, 2, e201800219.	2.8	26
87	Differential metabolic consequences of fumarate hydratase and respiratory chain defects. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2008, 1782, 287-294.	3.8	23
88	Mitochondrial encephalomyopathy and retinoblastoma explained by compound heterozygosity of SUCLA2 point mutation and 13q14 deletion. <i>European Journal of Human Genetics</i> , 2015, 23, 325-330.	2.8	20
89	Instability of the mitochondrial alanyl-tRNA synthetase underlies fatal infantile-onset cardiomyopathy. <i>Human Molecular Genetics</i> , 2019, 28, 258-268.	2.9	19
90	Mitochondrial recessive ataxia syndrome mimicking dominant spinocerebellar ataxia. <i>Journal of the Neurological Sciences</i> , 2012, 315, 160-163.	0.6	18

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91	The Overexpression of Twinkle Helicase Ameliorates the Progression of Cardiac Fibrosis and Heart Failure in Pressure Overload Model in Mice. <i>PLoS ONE</i> , 2013, 8, e67642.	2.5	18
92	IMPDH2: a new gene associated with dominant juvenile-onset dystonia-tremor disorder. <i>European Journal of Human Genetics</i> , 2021, 29, 1833-1837.	2.8	17
93	A urinary biosignature for mitochondrial myopathy, encephalopathy, lactic acidosis and stroke like episodes (MELAS). <i>Mitochondrion</i> , 2019, 45, 38-45.	3.4	16
94	<sc><i>MED27</i></sc> Variants Cause Developmental Delay, Dystonia, and Cerebellar Hypoplasia. <i>Annals of Neurology</i> , 2021, 89, 828-833.	5.3	14
95	Mouse models of mtDNA replication diseases. <i>Methods</i> , 2010, 51, 405-410.	3.8	12
96	Mitochondrial spongiotic brain disease: astrocytic stress and harmful rapamycin and ketosis effect. <i>Life Science Alliance</i> , 2020, 3, e202000797.	2.8	12
97	Cost-effectiveness of whole-exome sequencing in progressive neurological disorders of children. <i>European Journal of Paediatric Neurology</i> , 2022, 36, 30-36.	1.6	12
98	Mitochondrial roles in disease: a box full of surprises. <i>EMBO Molecular Medicine</i> , 2015, 7, 1245-1247.	6.9	11
99	Absence of Hikeshi, a nuclear transporter for heat-shock protein HSP70, causes infantile hypomyelinating leukoencephalopathy. <i>European Journal of Human Genetics</i> , 2017, 25, 366-370.	2.8	11
100	Using urine to diagnose large-scale mtDNA deletions in adult patients. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 1318-1326.	3.7	11
101	The rare Costello variant <i>HRAS</i> c.173C>T (p.T58I) with severe neonatal hypertrophic cardiomyopathy. <i>American Journal of Medical Genetics, Part A</i> , 2016, 170, 1433-1438.	1.2	10
102	In-frame deletion in canine PITRM1 is associated with a severe early-onset epilepsy, mitochondrial dysfunction and neurodegeneration. <i>Human Genetics</i> , 2021, 140, 1593-1609.	3.8	9
103	Asymmetric rejuvenation. <i>Nature</i> , 2015, 521, 296-298.	27.8	8
104	A complex genomic locus drives mt DNA replicase POLG expression to its disease-related nervous system regions. <i>EMBO Molecular Medicine</i> , 2018, 10, 13-21.	6.9	8
105	Disruption of the mouse Shmt2 gene confers embryonic anaemia via foetal liver-specific metabolomic disorders. <i>Scientific Reports</i> , 2019, 9, 16054.	3.3	8
106	Phenotypic effects of dietary stress in combination with a respiratory chain bypass in mice. <i>Physiological Reports</i> , 2019, 7, e14159.	1.7	8
107	The relevance of mitochondrial DNA variants fluctuation during reprogramming and neuronal differentiation of human iPSCs. <i>Stem Cell Reports</i> , 2021, 16, 1953-1967.	4.8	8
108	Frequency of MELAS main mutation in a phenotype-targeted young ischemic stroke patient population. <i>Journal of Neurology</i> , 2016, 263, 257-262.	3.6	7

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109	SNCA mutation p.Ala53Glu is derived from a common founder in the Finnish population. <i>Neurobiology of Aging</i> , 2017, 50, 168.e5-168.e8.	3.1	7
110	Defective mitochondrial ATPase due to rare mtDNA m.8969G>A mutation causing lactic acidosis, intellectual disability, and poor growth. <i>Neurogenetics</i> , 2018, 19, 49-53.	1.4	7
111	Quantitative solid-phase assay to measure deoxynucleoside triphosphate pools. <i>Biology Methods and Protocols</i> , 2018, 3, bpy011.	2.2	7
112	Quantitative Analysis of RNA Species by PCR and Solid-Phase Minisequencing. , 1998, 86, 121-132.		6
113	Genetic background of ataxia in children younger than 5 years in Finland. <i>Neurology: Genetics</i> , 2020, 6, e444.	1.9	6
114	Mitochondrial DNA Inheritance in Humans: Mix, Match, and Survival of the Fittest. <i>Cell Metabolism</i> , 2019, 30, 231-232.	16.2	5
115	Analysis of Nucleotide Sequence Variations by Solid-Phase Minisequencing. , 2003, 226, 361-366.		4
116	Generation and Characterization of Induced Pluripotent Stem Cells from Patients with mtDNA Mutations. <i>Methods in Molecular Biology</i> , 2015, 1353, 65-75.	0.9	4
117	Atomistic Molecular Dynamics Simulations of Mitochondrial DNA Polymerase γ : Novel Mechanisms of Function and Pathogenesis. <i>Biochemistry</i> , 2017, 56, 1227-1238.	2.5	3
118	Atrial fibrillation is poorly tolerated by patients with hypertrophic concentric cardiomyopathy caused by mitochondrial tRNA ^{Leu} (UUR) mutations. <i>Neurology International</i> , 2013, 3, .	0.5	2
119	Reply to: Proofreading deficiency in mitochondrial DNA polymerase does not affect total dNTP pools in mouse embryos. <i>Nature Metabolism</i> , 2020, 2, 676-677.	11.9	2
120	LCCS: A Lethal Motoneuron Disease of the Fetus Maps to Chromosome 9q34. <i>Annals of the New York Academy of Sciences</i> , 1998, 857, 260-262.	3.8	1
121	Modified Atkins diet modifies cardiopulmonary exercise characteristics and promotes hyperventilation in healthy subjects. <i>Journal of Functional Foods</i> , 2021, 81, 104459.	3.4	1
122	Krebs means cancer. <i>Trends in Genetics</i> , 2002, 18, 285-286.	6.7	0
123	Experimental models of muscle diseases. , 0, , 544-561.		0
124	Reply to Letter to Editor by Finsterer J and Zarrouk-Mahjoub S: Phenotypic manifestations of the m.8969G>A variant. <i>Neurogenetics</i> , 2018, 19, 133-134.	1.4	0
125	Diseases of DNA Polymerase Gamma. , 2019, , 113-124.		0
126	Whole-Cell and Mitochondrial dNTP Quantification from Cells and Tissues. <i>Methods in Molecular Biology</i> , 2021, 2276, 143-151.	0.9	0

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127	The Increase of Mitochondrial DNA Copy Number Attenuates Eccentric Cardiac Remodeling In Volume Overload Model. FASEB Journal, 2013, 27, 1129.11.	0.5	0