

An enhanced MITOMAP with a global mtDNA mutation

Nucleic Acids Research

35, D823-D828

DOI: [10.1093/nar/gkl927](https://doi.org/10.1093/nar/gkl927)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Population Bottlenecks as a Potential Major Shaping Force of Human Genome Architecture. <i>PLoS Genetics</i> , 2007, 3, e119.	1.5	55
2	The Genographic Project Public Participation Mitochondrial DNA Database. <i>PLoS Genetics</i> , 2007, 3, e104.	1.5	99
3	Rate variation between mitochondrial domains and adaptive evolution in humans. <i>Human Molecular Genetics</i> , 2007, 16, 2281-2287.	1.4	58
4	Why Do We Still Have a Maternally Inherited Mitochondrial DNA? Insights from Evolutionary Medicine. <i>Annual Review of Biochemistry</i> , 2007, 76, 781-821.	5.0	310
5	Approach for assessing total cellular DNA damage. <i>BioTechniques</i> , 2007, 42, 425-435.	0.8	9
6	Whole mitochondrial genome screening in maternally inherited non-syndromic hearing impairment using a microarray resequencing mitochondrial DNA chip. <i>European Journal of Human Genetics</i> , 2007, 15, 1145-1155.	1.4	85
7	Haplogroup analysis supports a pathogenic role for the 7510T>C mutation of mitochondrial tRNA ^{Ser(UCN)} in sensorineural hearing loss. <i>Clinical Genetics</i> , 2008, 73, 50-54.	1.0	14
8	Eukaryotic complex I: functional diversity and experimental systems to unravel the assembly process. <i>Molecular Genetics and Genomics</i> , 2008, 280, 93-110.	1.0	51
9	A Mitochondrial Etiology of Neurodegenerative Diseases: Evidence from Parkinson's Disease. <i>Annals of the New York Academy of Sciences</i> , 2008, 1147, 1-20.	1.8	92
10	Mitochondrial Encephalopathy, Lactic Acidosis, and Strokelike Episodes. <i>Annals of the New York Academy of Sciences</i> , 2008, 1142, 133-158.	1.8	293
11	Optimized Allotopic Expression of the Human Mitochondrial ND4 Prevents Blindness in a Rat Model of Mitochondrial Dysfunction. <i>American Journal of Human Genetics</i> , 2008, 83, 373-387.	2.6	199
12	Reconstructing the phylogeny of African mitochondrial DNA lineages in Slavs. <i>European Journal of Human Genetics</i> , 2008, 16, 1091-1096.	1.4	14
13	Mitochondrial DNA Variability in Slovaks, with Application to the Roma Origin. <i>Annals of Human Genetics</i> , 2008, 72, 228-240.	0.3	43
14	Mutation patterns of mtDNA: Empirical inferences for the coding region. <i>BMC Evolutionary Biology</i> , 2008, 8, 167.	3.2	20
15	Limited clinical relevance of mitochondrial DNA mutation and gene expression analyses in ovarian cancer. <i>BMC Cancer</i> , 2008, 8, 292.	1.1	30
16	Cytotoxicity and mutagenicity of endogenous DNA base lesions as potential cause of human aging. <i>Mechanisms of Ageing and Development</i> , 2008, 129, 353-365.	2.2	34
17	Hybridization between mitochondrial heavy strand tDNA and expressed light strand tRNA modulates the function of heavy strand tDNA as light strand replication origin. <i>Journal of Molecular Biology</i> , 2008, 379, 188-199.	2.0	53
18	A novel mitochondrial ND5 (MTND5) gene mutation giving isolated exercise intolerance. <i>Neuromuscular Disorders</i> , 2008, 18, 310-314.	0.3	20

#	ARTICLE	IF	CITATIONS
19	Organization and evolution of mitochondrial gene clusters in human. <i>Genomics</i> , 2008, 92, 85-93.	1.3	3
20	Evaluation of mitochondrial DNA coding region assays for increased discrimination in forensic analysis. <i>Forensic Science International: Genetics</i> , 2008, 2, 1-8.	1.6	22
21	Haplotype diversity in human mitochondrial DNA hypervariable regions in the city of Caracas (Venezuela). <i>Forensic Science International: Genetics</i> , 2008, 2, e61-e64.	1.6	13
22	Mitochondrial DNA haplogroups influence AIDS progression. <i>Aids</i> , 2008, 22, 2429-2439.	1.0	78
23	Mitochondrial DNA Phylogeny in Eastern and Western Slavs. <i>Molecular Biology and Evolution</i> , 2008, 25, 1651-1658.	3.5	84
24	Cosegregation of novel mitochondrial 16S rRNA gene mutations with the age-associated T414G variant in human cybrids. <i>Nucleic Acids Research</i> , 2008, 36, 5872-5881.	6.5	17
25	A Novel Mitochondrial DNA Mutation in COX1 Leads to Strokes, Seizures, and Lactic Acidosis. <i>Neuropediatrics</i> , 2008, 39, 328-334.	0.3	39
26	Chapter 23 Measuring mRNA Decay in Human Mitochondria. <i>Methods in Enzymology</i> , 2008, 447, 489-499.	0.4	25
27	A 28,000 Years Old Cro-Magnon mtDNA Sequence Differs from All Potentially Contaminating Modern Sequences. <i>PLoS ONE</i> , 2008, 3, e2700.	1.1	37
28	Mitochondrial DNA and gastrointestinal motor and sensory functions in health and functional gastrointestinal disorders. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G510-G516.	1.6	44
29	Mitochondria, Bioenergetics, and the Epigenome in Eukaryotic and Human Evolution. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2009, 74, 383-393.	2.0	46
30	Mitochondrial Variants in Schizophrenia, Bipolar Disorder, and Major Depressive Disorder. <i>PLoS ONE</i> , 2009, 4, e4913.	1.1	187
31	Mitochondrial Mutations in Adenoid Cystic Carcinoma of the Salivary Glands. <i>PLoS ONE</i> , 2009, 4, e8493.	1.1	20
32	Cellular Respiration and Carcinogenesis. , 2009, , .		3
33	mtDNA mutation pattern in tumors and human evolution are shaped by similar selective constraints. <i>Genome Research</i> , 2009, 19, 576-580.	2.4	31
34	GOBASE: an organelle genome database. <i>Nucleic Acids Research</i> , 2009, 37, D946-D950.	6.5	74
35	Data structures and compression algorithms for genomic sequence data. <i>Bioinformatics</i> , 2009, 25, 1731-1738.	1.8	87
36	Biophysical characterizations of human mitochondrial transcription factor A and its binding to tumor suppressor p53. <i>Nucleic Acids Research</i> , 2009, 37, 6765-6783.	6.5	95

#	ARTICLE	IF	CITATIONS
37	Mutations in ND Subunits of Complex I Are an Important Genetic Cause of Childhood Mitochondrial Encephalopathies. <i>Journal of Child Neurology</i> , 2009, 24, 828-832.	0.7	26
38	A 3-bp deletion of mitochondrial DNA tRNA ^{Lys} observed in lymphoblastoid cells. <i>Journal of Human Genetics</i> , 2009, 54, 612-613.	1.1	2
39	A New Mitochondrial Transfer RNA ^{Pro} Gene Mutation Associated With Myoclonic Epilepsy With Ragged-Red Fibers and Other Neurological Features. <i>Archives of Neurology</i> , 2009, 66, 399-402.	4.9	42
40	Mitochondrial tRNA ^{Leu/Lys} and tRNA ^{ATPase 6/8} Gene Variations in Spinocerebellar Ataxias. <i>Neurodegenerative Diseases</i> , 2009, 6, 16-22.	0.8	10
41	Mechanisms of formation and accumulation of mitochondrial DNA deletions in aging neurons. <i>Human Molecular Genetics</i> , 2009, 18, 1028-1036.	1.4	162
42	Climate shaped the worldwide distribution of human mitochondrial DNA sequence variation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3447-3455.	1.2	117
43	Mitochondrial DNA base excision repair and mitochondrial DNA mutation in human hepatic HuH-7 cells exposed to stavudine. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009, 664, 28-38.	0.4	18
44	The mitochondrial genomes of sponges provide evidence for multiple invasions by Repetitive Hairpin-forming Elements (RHE). <i>BMC Genomics</i> , 2009, 10, 591.	1.2	39
45	MitInteractome: Mitochondrial protein interactome database, and its application in 'aging network' analysis. <i>BMC Genomics</i> , 2009, 10, S20.	1.2	30
46	20 years of human mtDNA pathologic point mutations: Carefully reading the pathogenicity criteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 476-483.	0.5	51
47	MITOMASTER: a bioinformatics tool for the analysis of mitochondrial DNA sequences. <i>Human Mutation</i> , 2009, 30, 1-6.	1.1	98
48	Updated comprehensive phylogenetic tree of global human mitochondrial DNA variation. <i>Human Mutation</i> , 2009, 30, E386-E394.	1.1	1,528
49	Molecular screening of 980 cases of suspected hereditary optic neuropathy with a report on 77 novel OPA1 mutations. <i>Human Mutation</i> , 2009, 30, E692-E705.	1.1	140
50	Mutational analysis of the mitochondrial tRNA genes and flanking regions in umbilical cord tissue from uninfected infants receiving AZT-based therapies for prophylaxis of HIV-1. <i>Environmental and Molecular Mutagenesis</i> , 2009, 50, 10-26.	0.9	10
51	Common mitochondrial polymorphisms as risk factor for endometrial cancer. <i>International Archive of Medicine</i> , 2009, 2, 33.	1.2	23
52	The role of mitochondrial genome in essential hypertension in a Chinese Han population. <i>European Journal of Human Genetics</i> , 2009, 17, 1501-1506.	1.4	33
53	Two Common Mitochondrial DNA Polymorphisms are Highly Associated with Migraine Headache and Cyclic Vomiting Syndrome. <i>Cephalalgia</i> , 2009, 29, 719-728.	1.8	128
54	The Diversity Present in 5140 Human Mitochondrial Genomes. <i>American Journal of Human Genetics</i> , 2009, 84, 628-640.	2.6	114

#	ARTICLE	IF	CITATIONS
55	OPA1-associated disorders: Phenotypes and pathophysiology. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 1855-1865.	1.2	122
56	Genetic variants in mitochondrial tRNA genes are associated with essential hypertension in a Chinese Han population. <i>Clinica Chimica Acta</i> , 2009, 410, 64-69.	0.5	41
57	Confirmation of the mitochondrial ND1 gene mutation G3635A as a primary LHON mutation. <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 50-54.	1.0	27
58	Novel A14841G mutation is associated with high penetrance of LHON/C4171A family. <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 693-696.	1.0	17
59	Neuromuscular disease presentation with three genetic defects involving two genomes. <i>Neuromuscular Disorders</i> , 2009, 19, 841-844.	0.3	6
60	Evidence for potential functionality of nuclearly-encoded humanin isoforms. <i>Genomics</i> , 2009, 94, 247-256.	1.3	98
61	A novel NDUFA1 mutation leads to a progressive mitochondrial complex I-specific neurodegenerative disease. <i>Molecular Genetics and Metabolism</i> , 2009, 96, 189-195.	0.5	89
62	Rolandic Mitochondrial Encephalomyelopathy and MT-ND3 Mutations. <i>Pediatric Neurology</i> , 2009, 41, 27-33.	1.0	31
63	Association of the MELAS m.3243A>G mutation with myositis and the superiority of urine over muscle, blood and hair for mutation detection. <i>Journal of Clinical Neuroscience</i> , 2009, 16, 1223-1225.	0.8	13
64	The novel G10680A mutation is associated with complete penetrance of the LHON/T14484C family. <i>Mitochondrion</i> , 2009, 9, 273-278.	1.6	25
65	A neonatal polyvisceral failure linked to a de novo homoplasmic mutation in the mitochondrially encoded cytochrome b gene. <i>Mitochondrion</i> , 2009, 9, 346-352.	1.6	15
66	Moroccan mitochondrial genetic background suggests prehistoric human migrations across the Gibraltar Strait. <i>Mitochondrion</i> , 2009, 9, 402-407.	1.6	12
67	The Human Gene Mutation Database: 2008 update. <i>Genome Medicine</i> , 2009, 1, 13.	3.6	774
69	Breast cancer as a mitochondrial disorder (Review). <i>Oncology Reports</i> , 2009, 21, 845-51.	1.2	17
70	The Mastermind Attack on Genomic Data. , 2009, , .		36
71	Heteroplasmy Level of the Mitochondrial tRNA ^{Leu} (UUR) A3243G Mutation in a Chinese Family Is Positively Associated with Earlier Age-of-onset and Increasing Severity of Diabetes. <i>Chinese Medical Sciences Journal</i> , 2009, 24, 20-25.	0.2	11
72	Polymorphisms in mitochondrial genes encoding complex I subunits are maternal factors of voluntary alcohol consumption in the rat. <i>Pharmacogenetics and Genomics</i> , 2009, 19, 528-537.	0.7	2
73	Mitochondrial NADH-dehydrogenase polymorphisms as sporadic breast cancer risk factor. <i>Oncology Reports</i> , 2009, 23, .	1.2	1

#	ARTICLE	IF	CITATIONS
74	Mitochondrial genotype and breast cancer predisposition. <i>Oncology Reports</i> , 2010, 24, 1521-34.	1.2	26
76	Mitochondrial NADH-dehydrogenase subunit 3 (ND3) polymorphism (A10398G) and sporadic breast cancer in Poland. <i>Breast Cancer Research and Treatment</i> , 2010, 121, 511-518.	1.1	70
77	Mitochondrial pharmacogenomics: barcode for antibiotic therapy. <i>Drug Discovery Today</i> , 2010, 15, 33-39.	3.2	41
78	Bioenergetics and the epigenome: Interface between the environment and genes in common diseases. <i>Developmental Disabilities Research Reviews</i> , 2010, 16, 114-119.	2.9	57
79	Mitochondrial tRNAs as light strand replication origins: Similarity between anticodon loops and the loop of the light strand replication origin predicts initiation of DNA replication. <i>BioSystems</i> , 2010, 99, 85-93.	0.9	64
80	Avoidance of antisense, antiterminator tRNA anticodons in vertebrate mitochondria. <i>BioSystems</i> , 2010, 101, 42-50.	0.9	45
81	Mitochondrial genotype in vulvar carcinoma - cuckoo in the nest. <i>Journal of Biomedical Science</i> , 2010, 17, 73.	2.6	13
82	Undetected antisense tRNAs in mitochondrial genomes?. <i>Biology Direct</i> , 2010, 5, 39.	1.9	53
83	Epileptic phenotypes in children with respiratory chain disorders. <i>Epilepsia</i> , 2010, 51, 1225-1235.	2.6	152
84	A novel mutation in the mitochondrial tRNA for tryptophan causing a late-onset mitochondrial encephalomyopathy. <i>Acta Neurologica Scandinavica</i> , 2010, 121, 109-113.	1.0	8
85	Nuclear mitochondrial pseudogenes. <i>Molecular Biology</i> , 2010, 44, 358-368.	0.4	45
86	Detection of Heteroplasmic Mitochondrial DNA in Single Mitochondria. <i>PLoS ONE</i> , 2010, 5, e14359.	1.1	25
87	Mitochondrial DNA background modifies the bioenergetics of NARP/MILS ATP6 mutant cells. <i>Human Molecular Genetics</i> , 2010, 19, 374-386.	1.4	81
88	Unmasking the causes of multifactorial disorders: OXPHOS differences between mitochondrial haplogroups. <i>Human Molecular Genetics</i> , 2010, 19, 3343-3353.	1.4	266
89	New Aminoacyl-tRNA Synthetase-like Protein in Insecta with an Essential Mitochondrial Function. <i>Journal of Biological Chemistry</i> , 2010, 285, 38157-38166.	1.6	21
90	Mutational analysis of whole mitochondrial DNA in patients with MELAS and MERRF diseases. <i>Experimental and Molecular Medicine</i> , 2010, 42, 446.	3.2	22
91	Influence of mtDNA genetic variation on antibiotic therapy. <i>Pharmacogenomics</i> , 2010, 11, 1185-1187.	0.6	12
92	Mitochondrial pathogenic mutations are population-specific. <i>Biology Direct</i> , 2010, 5, 68.	1.9	6

#	ARTICLE	IF	CITATIONS
93	Cardiomyopathy and Kidney Disease in a Patient with Maternally Inherited Diabetes and Deafness Caused by the 3243A>G Mutation of Mitochondrial DNA. <i>Cardiology</i> , 2010, 115, 71-74.	0.6	10
95	A novel point mutation in the mitochondrial tRNA(Trp) gene produces late-onset encephalomyopathy, plus additional features. <i>Journal of the Neurological Sciences</i> , 2010, 297, 105-108.	0.3	12
96	A novel mitochondrial tRNAGlu (MTTE) gene mutation causing chronic progressive external ophthalmoplegia at low levels of heteroplasmy in muscle. <i>Journal of the Neurological Sciences</i> , 2010, 298, 140-144.	0.3	12
97	The Mitochondrial Proteome and Human Disease. <i>Annual Review of Genomics and Human Genetics</i> , 2010, 11, 25-44.	2.5	497
98	Mitochondrial Energetics and Therapeutics. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2010, 5, 297-348.	9.6	610
99	Molecular features of thyroid oncocytic tumors. <i>Molecular and Cellular Endocrinology</i> , 2010, 321, 67-76.	1.6	39
100	Genetic bases of mitochondrial respiratory chain disorders. <i>Diabetes and Metabolism</i> , 2010, 36, 97-107.	1.4	34
101	Differences in RNA processing underlie the tissue specific phenotype of ISCU myopathy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 539-544.	1.8	31
102	The pathogenic m.3243A>T mitochondrial DNA mutation is associated with a variable neurological phenotype. <i>Neuromuscular Disorders</i> , 2010, 20, 403-406.	0.3	7
103	Mammalian mitochondrial proteomics: insights into mitochondrial functions and mitochondria-related diseases. <i>Expert Review of Proteomics</i> , 2010, 7, 333-345.	1.3	29
104	Multiplex analysis of mitochondrial DNA pathogenic and polymorphic sequence variants. <i>Biological Chemistry</i> , 2010, 391, 1115-30.	1.2	8
105	Correction of the consequences of mitochondrial 3243A>G mutation in the MT-TL1 gene causing the MELAS syndrome by tRNA import into mitochondria. <i>Nucleic Acids Research</i> , 2011, 39, 8173-8186.	6.5	82
106	Mutations in MTFMT Underlie a Human Disorder of Formylation Causing Impaired Mitochondrial Translation. <i>Cell Metabolism</i> , 2011, 14, 428-434.	7.2	141
107	Mitochondrial myopathy in a child with a muscle-restricted mutation in the mitochondrial transfer RNAAsn gene. <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 518-521.	1.0	5
108	New mitochondrial tRNA ^{HIS} mutation in a family with lactic acidosis and stroke-like episodes (MELAS). <i>Mitochondrion</i> , 2011, 11, 778-782.	1.6	9
109	Contribution of muscle biopsy and genetics to the diagnosis of chronic progressive external ophthalmoplegia of mitochondrial origin. <i>Journal of Clinical Neuroscience</i> , 2011, 18, 535-538.	0.8	20
110	Mitochondrial DNA (mtDNA) and schizophrenia. <i>European Psychiatry</i> , 2011, 26, 45-56.	0.1	77
111	Mitochondrial disorders. , 0, , 258-269.		0

#	ARTICLE	IF	CITATIONS
112	Modeling of Mitochondria Bioenergetics Using a Composable Chemiosmotic Energy Transduction Rate Law: Theory and Experimental Validation. PLoS ONE, 2011, 6, e14820.	1.1	9
113	Mutation Rate Switch inside Eurasian Mitochondrial Haplogroups: Impact of Selection and Consequences for Dating Settlement in Europe. PLoS ONE, 2011, 6, e21543.	1.1	22
115	Mitochondrial cytopathies. , 0, , 147-157.		1
116	Quantification of Human Mitochondrial DNA Using Synthesized DNA Standards*. Journal of Forensic Sciences, 2011, 56, 1457-1463.	0.9	50
117	Mitochondrial cardiomyopathies: how to identify candidate pathogenic mutations by mitochondrial DNA sequencing, MITOMASTER and phylogeny. European Journal of Human Genetics, 2011, 19, 200-207.	1.4	59
118	Respiratory chain complex I deficiency caused by mitochondrial DNA mutations. European Journal of Human Genetics, 2011, 19, 769-775.	1.4	102
119	Contribution of common deletion to total deletion burden in mitochondrial DNA from inner ear of d-galactose-induced aging rats. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2011, 712, 11-19.	0.4	35
120	Maternally inherited susceptibility to cancer. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 643-649.	0.5	12
121	Learning from oncocytic tumors: Why choose inefficient mitochondria?. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 633-642.	0.5	102
122	Human diseases with impaired mitochondrial protein synthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1198-1205.	0.5	127
123	Bioenergetic Origins of Complexity and Disease. Cold Spring Harbor Symposia on Quantitative Biology, 2011, 76, 1-16.	2.0	113
124	Paleogenetic analysis in archeological studies. Russian Journal of Genetics: Applied Research, 2011, 1, 51-72.	0.4	1
125	No relationship found between point heteroplasmy in mitochondrial DNA control region and age range, sex and haplogroup in human hairs. Molecular Biology Reports, 2011, 38, 1219-1223.	1.0	16
126	Hereditary spastic paraplegia-like disorder due to a mitochondrial ATP6 gene point mutation. Mitochondrion, 2011, 11, 70-75.	1.6	74
127	A novel mutation in the mitochondrial tRNA ^{Ala} gene (m.5636T>C) in a patient with progressive external ophthalmoplegia. Mitochondrion, 2011, 11, 228-233.	1.6	11
128	Compound mutations of PEO1 and TYMP in a progressive external ophthalmoplegia patient with incomplete mitochondrial neurogastrointestinal encephalomyopathy phenotype. Genes and Genomics, 2011, 33, 431-437.	0.5	2
129	Rebooting the human mitochondrial phylogeny: an automated and scalable methodology with expert knowledge. BMC Bioinformatics, 2011, 12, 174.	1.2	15
130	A comparative analysis approach to determining the pathogenicity of mitochondrial tRNA mutations. Human Mutation, 2011, 32, 1319-1325.	1.1	159

#	ARTICLE	IF	CITATIONS
131	Error compensation of tRNA misacylation by codon-anticodon mismatch prevents translational amino acid misinsertion. <i>Computational Biology and Chemistry</i> , 2011, 35, 81-95.	1.1	37
132	Pathogenic mutations in antisense mitochondrial tRNAs. <i>Journal of Theoretical Biology</i> , 2011, 269, 287-296.	0.8	37
133	The Role of the Mitochondrial Genome in Ageing and Carcinogenesis. <i>Journal of Aging Research</i> , 2011, 2011, 1-10.	0.4	30
134	Maternally transmitted late-onset non-syndromic deafness is associated with the novel heteroplasmic T12201C mutation in the mitochondrial tRNA ^{His} gene. <i>Journal of Medical Genetics</i> , 2011, 48, 682-690.	1.5	39
135	MitoGenesisDB: an expression data mining tool to explore spatio-temporal dynamics of mitochondrial biogenesis. <i>Nucleic Acids Research</i> , 2011, 39, D1079-D1084.	6.5	9
136	Mitochondrial complex I and cell death: a semi-automatic shotgun model. <i>Cell Death and Disease</i> , 2011, 2, e222-e222.	2.7	15
137	A Novel Unstable Mutation in Mitochondrial DNA Responsible for Maternally Inherited Diabetes and Deafness. <i>Diabetes Care</i> , 2011, 34, 2591-2593.	4.3	14
138	Mutations in mitochondrially encoded complex I enzyme as the second common cause in a cohort of Chinese patients with mitochondrial myopathy, encephalopathy, lactic acidosis and stroke-like episodes. <i>Journal of Human Genetics</i> , 2011, 56, 759-764.	1.1	28
139	Evolution Meets Disease: Penetrance and Functional Epistasis of Mitochondrial tRNA Mutations. <i>PLoS Genetics</i> , 2011, 7, e1001379.	1.5	51
140	Progress™ renders detrimental an ancient mitochondrial DNA genetic variant. <i>Human Molecular Genetics</i> , 2011, 20, 4224-4231.	1.4	11
141	HmtDB, a genomic resource for mitochondrion-based human variability studies. <i>Nucleic Acids Research</i> , 2012, 40, D1150-D1159.	6.5	82
142	Next-Generation Sequencing of Human Mitochondrial Reference Genomes Uncovers High Heteroplasmy Frequency. <i>PLoS Computational Biology</i> , 2012, 8, e1002737.	1.5	61
143	Analysis of single-nucleotide polymorphisms of PEO1 gene in 55 ethnic groups of India. <i>Chronicles of Young Scientists</i> , 2012, 3, 304.	0.4	0
144	Fidelity of capture-enrichment for mtDNA genome sequencing: influence of NUMTs. <i>Nucleic Acids Research</i> , 2012, 40, e137-e137.	6.5	103
145	Mitochondrial tRNA mutations associated with deafness. <i>Journal of Otology</i> , 2012, 7, 36-44.	0.4	4
146	Mitochondrial DNA variant associated with Leber hereditary optic neuropathy and high-altitude Tibetans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7391-7396.	3.3	129
147	Coding Constraints Modulate Chemically Spontaneous Mutational Replication Gradients in Mitochondrial Genomes. <i>Current Genomics</i> , 2012, 13, 37-54.	0.7	59
148	Mitochondrial diseases and epilepsy. <i>Epilepsia</i> , 2012, 53, 92-97.	2.6	87

#	ARTICLE	IF	CITATIONS
149	Molecular Diagnosis of Infantile Mitochondrial Disease with Targeted Next-Generation Sequencing. <i>Science Translational Medicine</i> , 2012, 4, 118ra10.	5.8	406
150	The Human Gene Mutation Database (HGMD) and Its Exploitation in the Fields of Personalized Genomics and Molecular Evolution. <i>Current Protocols in Bioinformatics</i> , 2012, 39, Unit1.13.	25.8	198
151	Itâ€™s Getting Better All the Time: Comparative Perspectives from Oceania and West Africa on Genetic Analysis and Archaeology. <i>African Archaeological Review</i> , 2012, 29, 131-170.	0.8	13
152	Mitochondrial DNA variation and HIV-associated sensory neuropathy in CHARTER. <i>Journal of NeuroVirology</i> , 2012, 18, 511-520.	1.0	24
153	Does Mitochondrial DNA Play a Role in Parkinson's Disease? A Review of Cybrid and Other Supportive Evidence. <i>Antioxidants and Redox Signaling</i> , 2012, 16, 950-964.	2.5	30
154	Detection of Mitochondrial DNA Mutations in Nonmuscle Invasive Bladder Cancer. <i>Genetic Testing and Molecular Biomarkers</i> , 2012, 16, 672-678.	0.3	25
155	Toward genotype phenotype correlations in GFM1 mutations. <i>Mitochondrion</i> , 2012, 12, 242-247.	1.6	20
156	Mitochondrial tRNA mutations associated with deafness. <i>Mitochondrion</i> , 2012, 12, 406-413.	1.6	53
157	Analysis of mitochondrial DNA variations in a Chinese family with spinocerebellar ataxia. <i>Journal of Clinical Neuroscience</i> , 2012, 19, 60-64.	0.8	5
158	Metabolically induced heteroplasmy shifting and l-arginine treatment reduce the energetic defect in a neuronal-like model of MELAS. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 1019-1029.	1.8	38
159	Animal models of human mitochondrial DNA mutations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 601-607.	1.1	35
160	A mitochondrial etiology of Alzheimer and Parkinson disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 553-564.	1.1	268
161	Differences in mtDNA whole sequence between Tibetan and Han populations suggesting adaptive selection to high altitude. <i>Gene</i> , 2012, 496, 37-44.	1.0	45
162	Mitochondrial DNA sequence variation in Finnish patients with matrilineal diabetes mellitus. <i>BMC Research Notes</i> , 2012, 5, 350.	0.6	20
163	Mitochondrial DNA analysis of 114 hairs measuring less than 1 cm from a 19-year-old homicide. <i>Investigative Genetics</i> , 2012, 3, 12.	3.3	14
164	An integrated approach for classifying mitochondrial DNA variants: one clinical diagnostic laboratoryâ€™s experience. <i>Genetics in Medicine</i> , 2012, 14, 620-626.	1.1	39
165	LoFreq: a sequence-quality aware, ultra-sensitive variant caller for uncovering cell-population heterogeneity from high-throughput sequencing datasets. <i>Nucleic Acids Research</i> , 2012, 40, 11189-11201.	6.5	1,074
166	Comprehensive One-Step Molecular Analyses of Mitochondrial Genome by Massively Parallel Sequencing. <i>Clinical Chemistry</i> , 2012, 58, 1322-1331.	1.5	144

#	ARTICLE	IF	CITATIONS
167	Learning Character Strings via Mastermind Queries, With a Case Study Involving mtDNA. IEEE Transactions on Information Theory, 2012, 58, 6726-6736.	1.5	2
168	Defects of the Respiratory Chain. , 2012, , 223-238.		7
169	Complete Mitochondrial Genome Sequencing Reveals Novel Haplotypes in a Polynesian Population. PLoS ONE, 2012, 7, e35026.	1.1	23
170	Detection of Y chromosome microdeletions and mitochondrial DNA mutations in male infertility patients. Genetics and Molecular Research, 2012, 11, 1039-1048.	0.3	29
171	Mitochondrial Mutations and Polymorphisms in Psychiatric Disorders. Frontiers in Genetics, 2012, 3, 103.	1.1	81
172	Intracellular Localization of PNA in Human Cells upon its Introduction by Electroporation. Natural Product Communications, 2012, 7, 1934578X1200700.	0.2	1
173	Leber's Hereditary Optic Neuropathy with Olivocerebellar Degeneration due to G11778A and T3394C		

#	ARTICLE	IF	CITATIONS
185	Do mitochondria contribute to left ventricular non-compaction cardiomyopathy? New findings from myocardium of patients with left ventricular non-compaction cardiomyopathy. <i>Molecular Genetics and Metabolism</i> , 2013, 109, 100-106.	0.5	38
186	Cybrid studies establish the causal link between the mtDNA m.3890G>A/MT-ND1 mutation and optic atrophy with bilateral brainstem lesions. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 445-452.	1.8	17
187	A mitochondrial DNA variant 10398G>A in breast cancer among South Indians: An original study with meta-analysis. <i>Mitochondrion</i> , 2013, 13, 559-565.	1.6	15
188	The m.3291T>C mt-tRNA ^{Leu} (UUR) mutation is definitely pathogenic and causes multisystem mitochondrial disease. <i>Journal of the Neurological Sciences</i> , 2013, 325, 165-169.	0.3	7
189	Identification of the novel mutation m.5658T>C in the mitochondrial tRNA(Asn) gene in a patient with myopathy, bilateral ptosis and ophthalmoparesis. <i>Neuromuscular Disorders</i> , 2013, 23, 330-336.	0.3	3
190	mtDNA Lineage Expansions in Sherpa Population Suggest Adaptive Evolution in Tibetan Highlands. <i>Molecular Biology and Evolution</i> , 2013, 30, 2579-2587.	3.5	52
191	Towards Precision Medicine: Advances in Computational Approaches for the Analysis of Human Variants. <i>Journal of Molecular Biology</i> , 2013, 425, 4047-4063.	2.0	122
192	Phylogenetic Relationships (Biomolecules). , 2013, , 1-25.		0
193	Pathogenic Mitochondrial t <sc>RNA</sc> Point Mutations: Nine Novel Mutations Affirm Their Importance as a Cause of Mitochondrial Disease. <i>Human Mutation</i> , 2013, 34, 1260-1268.	1.1	62
194	Targeted exome sequencing of suspected mitochondrial disorders. <i>Neurology</i> , 2013, 80, 1762-1770.	1.5	155
195	Purifying Selection in Mammalian Mitochondrial Protein-Coding Genes Is Highly Effective and Congruent with Evolution of Nuclear Genes. <i>Molecular Biology and Evolution</i> , 2013, 30, 347-355.	3.5	57
196	Mitochondrial haplotypes may modulate the phenotypic manifestation of the LHON-associated m.14484T>C (MT-ND6) mutation in Chinese families. <i>Mitochondrion</i> , 2013, 13, 772-781.	1.6	21
197	The Other Genome: Mitochondrial DNA and Protection From Experimental Colitis. <i>Gastroenterology</i> , 2013, 145, 933-935.	0.6	1
198	Mutations in the mitochondrial ATPase6 gene are frequent in human osteosarcoma. <i>Experimental and Molecular Pathology</i> , 2013, 94, 285-288.	0.9	13
199	Transition to Next Generation Analysis of the Whole Mitochondrial Genome: A Summary of Molecular Defects. <i>Human Mutation</i> , 2013, 34, 882-893.	1.1	79
200	Nonadaptive Mastermind Algorithms for String and Vector Databases, with Case Studies. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013, 25, 131-144.	4.0	5
201	Methods to Study Mitochondrial Structure and Function. , 2013, , 13-27.		4
202	Preventive SNP–SNP interactions in the mitochondrial displacement loop (D-loop) from chronic dialysis patients. <i>Mitochondrion</i> , 2013, 13, 698-704.	1.6	19

#	ARTICLE	IF	CITATIONS
203	Characterization and prognostic significance of mitochondrial DNA variations in acute myeloid leukemia. <i>European Journal of Haematology</i> , 2013, 90, 385-396.	1.1	27
204	The Development of Next-Generation Sequencing Assays for the Mitochondrial Genome and 108 Nuclear Genes Associated with Mitochondrial Disorders. <i>Journal of Molecular Diagnostics</i> , 2013, 15, 526-534.	1.2	48
205	Algorithms and Guidelines for Interpretation of DNA Variants. , 2013, , 97-112.		2
206	Mitochondrial cytochrome <i>c</i> oxidase subunit II variations predict adverse prognosis in cytogenetically normal acute myeloid leukaemia. <i>European Journal of Haematology</i> , 2013, 91, 295-303.	1.1	8
207	From evolutionary bystander to master manipulator: the emerging roles for the mitochondrial genome as a modulator of nuclear gene expression. <i>European Journal of Human Genetics</i> , 2013, 21, 1335-1337.	1.4	27
208	Applications of the method of high resolution melting analysis for diagnosis of Leber's disease and the three primary mutation spectrum of LHON in the Han Chinese population. <i>Gene</i> , 2013, 512, 108-112.	1.0	17
209	Quaternary protein modeling to predict the function of DNA variation found in human mitochondrial cytochrome c oxidase. <i>Journal of Human Genetics</i> , 2013, 58, 127-134.	1.1	6
210	Mitochondrial targeting of recombinant RNAs modulates the level of a heteroplasmic mutation in human mitochondrial DNA associated with Kearns Sayre Syndrome. <i>Nucleic Acids Research</i> , 2013, 41, 418-433.	6.5	71
211	Screening of PEO1 and mitochondrial genes in sporadic cases of ophthalmoplegia. <i>Chronicles of Young Scientists</i> , 2013, 4, 40.	0.4	0
212	Ultra-Sensitive Sequencing Reveals an Age-Related Increase in Somatic Mitochondrial Mutations That Are Inconsistent with Oxidative Damage. <i>PLoS Genetics</i> , 2013, 9, e1003794.	1.5	289
213	Multilevel functional and structural defects induced by two pathogenic mitochondrial tRNA mutations. <i>Biochemical Journal</i> , 2013, 453, 455-465.	1.7	9
214	Bioenergetics in human evolution and disease: implications for the origins of biological complexity and the missing genetic variation of common diseases. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120267.	1.8	102
215	Severity of cardiomyopathy associated with adenine nucleotide translocator-1 deficiency correlates with mtDNA haplogroup. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3453-3458.	3.3	87
216	Functional Recurrent Mutations in the Human Mitochondrial Phylogeny: Dual Roles in Evolution and Disease. <i>Genome Biology and Evolution</i> , 2013, 5, 876-890.	1.1	60
217	Length variation in the mouse mitochondrial tRNA ^A rg DHU loop size promotes oxidative phosphorylation functional differences. <i>FEBS Journal</i> , 2013, 280, 4983-4998.	2.2	8
218	Human Mitochondrial tRNA Mutations in Maternally Inherited Deafness. <i>Journal of Otology</i> , 2013, 8, 44-50.	0.4	0
219	Identification and biochemical characterization of the novel mutation m.8839G>C in the mitochondrial ATP6 gene associated with NARP syndrome. <i>Genes, Brain and Behavior</i> , 2013, 12, 812-820.	1.1	19
220	Twin mitochondrial sequence analysis. <i>Molecular Genetics & Genomic Medicine</i> , 2013, 1, 174-186.	0.6	11

#	ARTICLE	IF	CITATIONS
221	Human mitochondrial disease-like symptoms caused by a reduced tRNA aminoacylation activity in flies. <i>Nucleic Acids Research</i> , 2013, 41, 6595-6608.	6.5	9
222	Mitochondrial Sequence Variation in African-American Primary Open-Angle Glaucoma Patients. <i>PLoS ONE</i> , 2013, 8, e76627.	1.1	22
223	Excav: Maximization of Haplotypic Diversity of Linked Markers. <i>PLoS ONE</i> , 2013, 8, e79012.	1.1	0
224	Mitochondriome and Cholangiocellular Carcinoma. <i>PLoS ONE</i> , 2014, 9, e104694.	1.1	12
226	Origins and functional consequences of somatic mitochondrial DNA mutations in human cancer. <i>ELife</i> , 2014, 3, .	2.8	318
227	Controlling for contamination in re-sequencing studies with a reproducible web-based phylogenetic approach. <i>BioTechniques</i> , 2014, 56, 134-141.	0.8	22
228	Biocomputational Resources Useful For Drug Discovery Against Compartmentalized Targets. <i>Current Pharmaceutical Design</i> , 2014, 20, 293-300.	0.9	4
229	Renal manifestations of genetic mitochondrial disease. <i>International Journal of Nephrology and Renovascular Disease</i> , 2014, 7, 57.	0.8	63
230	A structural perspective of compensatory evolution. <i>Current Opinion in Structural Biology</i> , 2014, 26, 104-112.	2.6	42
231	Discovering Functional DNA Elements Using Population Genomic Information: A Proof of Concept Using Human mtDNA. <i>Genome Biology and Evolution</i> , 2014, 6, 1542-1548.	1.1	2
232	MToolBox: a highly automated pipeline for heteroplasmy annotation and prioritization analysis of human mitochondrial variants in high-throughput sequencing. <i>Bioinformatics</i> , 2014, 30, 3115-3117.	1.8	166
233	Oxidative Stress Is Not a Major Contributor to Somatic Mitochondrial DNA Mutations. <i>PLoS Genetics</i> , 2014, 10, e1003974.	1.5	147
234	Injury to a specific neural pathway detected by ultra-high-field MRI. <i>Neurology</i> , 2014, 82, 182-183.	1.5	5
235	Transfer RNA and human disease. <i>Frontiers in Genetics</i> , 2014, 5, 158.	1.1	169
236	The road from next-generation sequencing to personalized medicine. <i>Personalized Medicine</i> , 2014, 11, 523-544.	0.8	40
237	A deafness-associated tRNA ^{His} mutation alters the mitochondrial function, ROS production and membrane potential. <i>Nucleic Acids Research</i> , 2014, 42, 8039-8048.	6.5	95
238	Mitochondrial DNA: Impacting Central and Peripheral Nervous Systems. <i>Neuron</i> , 2014, 84, 1126-1142.	3.8	100
239	Mitochondrial DNA variation in Tajiks living in Tajikistan. <i>Legal Medicine</i> , 2014, 16, 390-395.	0.6	5

#	ARTICLE	IF	CITATIONS
240	The pathogenicity scoring system for mitochondrial <scp>tRNA</scp> mutations revisited. <i>Molecular Genetics & Genomic Medicine</i> , 2014, 2, 107-114.	0.6	21
241	A complete landscape of post-transcriptional modifications in mammalian mitochondrial tRNAs. <i>Nucleic Acids Research</i> , 2014, 42, 7346-7357.	6.5	247
242	MitoBreak: the mitochondrial DNA breakpoints database. <i>Nucleic Acids Research</i> , 2014, 42, D1261-D1268.	6.5	51
243	The Human Immune System Recognizes Neopeptides Derived from Mitochondrial DNA Deletions. <i>Journal of Immunology</i> , 2014, 192, 4581-4591.	0.4	11
244	Mutations in the tricarboxylic acid cycle enzyme, aconitase 2, cause either isolated or syndromic optic neuropathy with encephalopathy and cerebellar atrophy. <i>Journal of Medical Genetics</i> , 2014, 51, 834-838.	1.5	80
245	Mitochondrial DNA variation and virologic and immunological HIV outcomes in African Americans. <i>Aids</i> , 2014, 28, 1871-1878.	1.0	1
246	Mitochondrial tRNA Variants in Chinese Subjects With Coronary Heart Disease. <i>Journal of the American Heart Association</i> , 2014, 3, e000437.	1.6	34
247	The role of the mitochondrial ribosome in human disease: searching for mutations in 12S mitochondrial rRNA with high disruptive potential. <i>Human Molecular Genetics</i> , 2014, 23, 949-967.	1.4	35
248	Mitochondrial <scp>DNA</scp>: more than an evolutionary bystander. <i>Functional Ecology</i> , 2014, 28, 218-231.	1.7	111
249	Mitochondrial polymorphisms and dysfunction related to aggressive periodontitis: a pilot study. <i>Oral Diseases</i> , 2014, 20, 490-498.	1.5	8
250	mtDNA mutations in human aging and longevity: Controversies and new perspectives opened by high-throughput technologies. <i>Experimental Gerontology</i> , 2014, 56, 234-244.	1.2	39
251	Computational Approaches and Resources in Single Amino Acid Substitutions Analysis Toward Clinical Research. <i>Advances in Protein Chemistry and Structural Biology</i> , 2014, 94, 365-423.	1.0	22
252	Irritable Bowel Syndrome May Be Associated with Maternal Inheritance and Mitochondrial DNA Control Region Sequence Variants. <i>Digestive Diseases and Sciences</i> , 2014, 59, 1392-1397.	1.1	12
253	High-Resolution Genomic Analysis of Human Mitochondrial RNA Sequence Variation. <i>Science</i> , 2014, 344, 413-415.	6.0	90
254	Modeling of Antigenomic Therapy of Mitochondrial Diseases by Mitochondrially Addressed RNA Targeting a Pathogenic Point Mutation in Mitochondrial DNA. <i>Journal of Biological Chemistry</i> , 2014, 289, 13323-13334.	1.6	39
255	Mitochondrial DNA polymorphisms associated with longevity in the Turkish population. <i>Mitochondrion</i> , 2014, 17, 7-13.	1.6	14
256	Mutational patterns in the breast cancer mitochondrial genome, with clinical correlates. <i>Carcinogenesis</i> , 2014, 35, 1046-1054.	1.3	65
257	Phenotypic spectrum of eleven patients and five novel MTFMT mutations identified by exome sequencing and candidate gene screening. <i>Molecular Genetics and Metabolism</i> , 2014, 111, 342-352.	0.5	65

#	ARTICLE	IF	CITATIONS
258	The Human Gene Mutation Database: building a comprehensive mutation repository for clinical and molecular genetics, diagnostic testing and personalized genomic medicine. <i>Human Genetics</i> , 2014, 133, 1-9.	1.8	1,153
259	Identification of the determinants of tRNA function and susceptibility to rapid tRNA decay by high-throughput in vivo analysis. <i>Genes and Development</i> , 2014, 28, 1721-1732.	2.7	58
260	Leber's hereditary optic neuropathy caused by the homoplasmic ND1 m.3635G>A mutation in nine Han Chinese families. <i>Mitochondrion</i> , 2014, 18, 18-26.	1.6	29
261	The emergence of the mitochondrial genome as a partial regulator of nuclear function is providing new insights into the genetic mechanisms underlying age-related complex disease. <i>Human Genetics</i> , 2014, 133, 435-458.	1.8	32
262	Extensive pathogenicity of mitochondrial heteroplasmy in healthy human individuals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10654-10659.	3.3	208
263	Mitochondrial genomic variation associated with higher mitochondrial copy number: the Cache County Study on Memory Health and Aging. <i>BMC Bioinformatics</i> , 2014, 15, S6.	1.2	15
264	mtDNA haplogroup and single nucleotide polymorphisms structure human microbiome communities. <i>BMC Genomics</i> , 2014, 15, 257.	1.2	81
265	Extraction and annotation of human mitochondrial genomes from 1000 Genomes Whole Exome Sequencing data. <i>BMC Genomics</i> , 2014, 15, S2.	1.2	55
266	Mitochondrial DNA (mtDNA) variants in the European haplogroups HV, JT, and U do not have a major role in schizophrenia. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2014, 165, 607-617.	1.1	8
267	Perspectives of drug-based neuroprotection targeting mitochondria. <i>Revue Neurologique</i> , 2014, 170, 390-400.	0.6	59
268	Genetics of mitochondrial respiratory chain deficiencies. <i>Revue Neurologique</i> , 2014, 170, 309-322.	0.6	8
270	Frequency and Spectrum of MitochondrialND6Mutations in 1218 Han Chinese Subjects With Leber's Hereditary Optic Neuropathy. , 2014, 55, 1321.		40
271	Myoclonus in mitochondrial disorders. <i>Movement Disorders</i> , 2014, 29, 722-728.	2.2	33
272	Rhodamine based plasmid DNA nanoparticles for mitochondrial gene therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 121, 129-140.	2.5	28
273	A mutation in POLE predisposing to a multi-tumour phenotype. <i>International Journal of Oncology</i> , 2014, 45, 77-81.	1.4	61
274	A Protocol for mtGenome Analysis on Large Sample Numbers. <i>Bioinformatics and Biology Insights</i> , 2014, 8, BBI.S14623.	1.0	1
275	The mitochondrial proteome and human disease. <i>Pathology</i> , 2015, 47, S28.	0.3	0
276	Does IARS2 Deficiency Cause an Intrinsic Disorder of Bone Development (Skeletal Dysplasia) or Are the Reported Skeletal Changes Secondary to Growth Hormone Deficiency and Neuromuscular Involvement?. <i>Human Mutation</i> , 2015, 36, 388-388.	1.1	4

#	ARTICLE	IF	CITATIONS
278	Capture, Unfolding, and Detection of Individual tRNA Molecules Using a Nanopore Device. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 91.	2.0	48
279	Prevalence of Mitochondrial <i>ND4</i> Mutations in 1281 Han Chinese Subjects With Leber's Hereditary Optic Neuropathy. , 2015, 56, 4778.		49
280	Between the Baltic and Danubian Worlds: The Genetic Affinities of a Middle Neolithic Population from Central Poland. <i>PLoS ONE</i> , 2015, 10, e0118316.	1.1	18
281	Mitochondrial Haplogroup T Is Associated with Obesity in Austrian Juveniles and Adults. <i>PLoS ONE</i> , 2015, 10, e0135622.	1.1	24
282	Targeted Sequencing of the Mitochondrial Genome of Women at High Risk of Breast Cancer without Detectable Mutations in BRCA1/2. <i>PLoS ONE</i> , 2015, 10, e0136192.	1.1	11
283	Association of Genes, Pathways, and Haplogroups of the Mitochondrial Genome with the Risk of Colorectal Cancer: The Multiethnic Cohort. <i>PLoS ONE</i> , 2015, 10, e0136796.	1.1	27
284	Mitochondrial DNA Haplogroups and the Risk of Sporadic Parkinson's Disease in Han Chinese. <i>Chinese Medical Journal</i> , 2015, 128, 1748-1754.	0.9	16
285	EpilepsyGene: a genetic resource for genes and mutations related to epilepsy. <i>Nucleic Acids Research</i> , 2015, 43, D893-D899.	6.5	71
286	Triplex real-time PCR—an improved method to detect a wide spectrum of mitochondrial DNA deletions in single cells. <i>Scientific Reports</i> , 2015, 5, 9906.	1.6	30
287	Mitochondrial DNA mutations in neurodegeneration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1401-1411.	0.5	120
288	The Relation of Mitochondrial DNA Mutation with Mitochondrial Diseases in Coding Region. <i>Procedia Chemistry</i> , 2015, 17, 84-92.	0.7	1
289	Maternally inherited diabetes is associated with a homoplasmic T10003C mutation in the mitochondrial tRNAGly gene. <i>Mitochondrion</i> , 2015, 21, 49-57.	1.6	24
290	Estimates of Continental Ancestry Vary Widely among Individuals with the Same mtDNA Haplogroup. <i>American Journal of Human Genetics</i> , 2015, 96, 183-193.	2.6	40
291	Novel <i>MTND1</i> mutations cause isolated exercise intolerance, complex I deficiency and increased assembly factor expression. <i>Clinical Science</i> , 2015, 128, 895-904.	1.8	21
292	Mitochondrial tRNASer(UCN) variants in 2651 Han Chinese subjects with hearing loss. <i>Mitochondrion</i> , 2015, 23, 17-24.	1.6	20
293	Alteration of structure and function of ATP synthase and cytochrome c oxidase by lack of Fo-a and Cox3 subunits caused by mitochondrial DNA 9205delTA mutation. <i>Biochemical Journal</i> , 2015, 466, 601-611.	1.7	16
294	Spectrum of combined respiratory chain defects. <i>Journal of Inherited Metabolic Disease</i> , 2015, 38, 629-640.	1.7	102
295	Maternal ancestry and population history from whole mitochondrial genomes. <i>Investigative Genetics</i> , 2015, 6, 3.	3.3	94

#	ARTICLE	IF	CITATIONS
296	Evolutionary defined role of the mitochondrial DNA in fertility, disease and ageing. Human Reproduction Update, 2015, 21, 671-689.	5.2	66
297	Mitochondrial Targeting of Recombinant RNA. Methods in Molecular Biology, 2015, 1265, 209-225.	0.4	13
298	Development of mitochondrial targeting plasmid DNA nanoparticles: Characterization and in vitro studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 287-295.	2.3	7
299	Biological Databases for Human Research. Genomics, Proteomics and Bioinformatics, 2015, 13, 55-63.	3.0	84
300	The Perinatal Microbiome and Pregnancy: Moving Beyond the Vaginal Microbiome. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a023051-a023051.	2.9	101
301	Mitochondrial DNA Variation in Human Radiation and Disease. Cell, 2015, 163, 33-38.	13.5	197
302	Mitochondrial DNA mutations distinguish bilateral multifocal renal oncocytomas from familial Birtâ€“Hoggâ€“DubÃ© tumors. Modern Pathology, 2015, 28, 1458-1469.	2.9	23
303	Mitochondrial DNA mutations distinguish bilateral multifocal renal oncocytomas from familial Birtâ€“Hoggâ€“DubÃ© tumors. Modern Pathology, 2015, 28, 1458-1469.	1.2	38
304	The presence of highly disruptive 16S rRNA mutations in clinical samples indicates a wider role for mutations of the mitochondrial ribosome in human disease. Mitochondrion, 2015, 25, 17-27.	1.6	29
305	HPMV: Human protein mutation viewer â€” relating sequence mutations to protein sequence architecture and function changes. Journal of Bioinformatics and Computational Biology, 2015, 13, 1550028.	0.3	2
306	Human genotypeâ€“phenotype databases: aims, challenges and opportunities. Nature Reviews Genetics, 2015, 16, 702-715.	7.7	100
307	Usage of mitochondrial D-loop variation to predict risk for Huntington disease. Mitochondrial DNA, 2015, 26, 579-582.	0.6	14
308	Origins of marronage: Mitochondrial lineages of <sc>J</sc>amaica's <sc>A</sc>ccompong <sc>T</sc>own <sc>M</sc>aroons. American Journal of Human Biology, 2015, 27, 432-437.	0.8	9
309	Mitochondrial DNA mutations may not be frequent in patients with oral cancer. Mitochondrial DNA, 2015, 26, 331-333.	0.6	1
310	Mitochondrial tRNA glutamine variant in hypertrophic cardiomyopathy. Herz, 2015, 40, 436-441.	0.4	4
311	Mitochondrial DNA diversity in the African American population. Mitochondrial DNA, 2015, 26, 445-451.	0.6	22
312	Tissue-specific mtDNA abundance from exome data and its correlation with mitochondrial transcription, mass and respiratory activity. Mitochondrion, 2015, 20, 13-21.	1.6	146
313	Mitochondrial<i>ND1</i> Variants in 1281 Chinese Subjects With Leber's Hereditary Optic Neuropathy. , 2016, 57, 2377.		37

#	ARTICLE	IF	CITATIONS
315	A Comprehensive Genomic Analysis Reveals the Genetic Landscape of Mitochondrial Respiratory Chain Complex Deficiencies. <i>PLoS Genetics</i> , 2016, 12, e1005679.	1.5	236
316	A comprehensive collection of annotations to interpret sequence variation in human mitochondrial transfer RNAs. <i>BMC Bioinformatics</i> , 2016, 17, 338.	1.2	12
317	Animal inference on human mitochondrial diseases. <i>Computational Biology and Chemistry</i> , 2016, 62, 17-28.	1.1	0
319	Method of carrier-free delivery of therapeutic RNA importable into human mitochondria: Lipophilic conjugates with cleavable bonds. <i>Biomaterials</i> , 2016, 76, 408-417.	5.7	32
320	Species-specific lifespans: Can it be a lottery based on the mode of mitochondrial DNA replication?. <i>Mechanisms of Ageing and Development</i> , 2016, 155, 1-6.	2.2	4
321	High-performance detection of somatic D-loop mutation in urothelial cell carcinoma patients by polymorphism ratio sequencing. <i>Journal of Molecular Medicine</i> , 2016, 94, 1015-1024.	1.7	7
322	Loss of the mitochondrial protein-only ribonuclease P complex causes aberrant tRNA processing and lethality in <i>Drosophila</i> . <i>Nucleic Acids Research</i> , 2016, 44, 6409-6422.	6.5	32
323	A Broad Overview of Computational Methods for Predicting the Pathophysiological Effects of Non-synonymous Variants. <i>Methods in Molecular Biology</i> , 2016, 1415, 423-440.	0.4	7
324	Biochemical evidence for a mitochondrial genetic modifier in the phenotypic manifestation of Leber's hereditary optic neuropathy-associated mitochondrial DNA mutation. <i>Human Molecular Genetics</i> , 2016, 25, 3613-3625.	1.4	32
325	Pathogenic mtDNA mutations causing mitochondrial myopathy: The need for muscle biopsy. <i>Neurology: Genetics</i> , 2016, 2, e82.	0.9	24
326	Transfer RNA Modifications: From Biological Functions to Biomedical Applications. <i>RNA Technologies</i> , 2016, , 1-26.	0.2	1
327	<sc><i>GREM</i></sc><i>1</i> and <sc>POLE</sc> variants in hereditary colorectal cancer syndromes. <i>Genes Chromosomes and Cancer</i> , 2016, 55, 95-106.	1.5	40
328	Mitochondrial tRNA mutations in 2070 Chinese Han subjects with hypertension. <i>Mitochondrion</i> , 2016, 30, 208-221.	1.6	30
329	A Deafness- and Diabetes-associated tRNA Mutation Causes Deficient Pseudouridylation at Position 55 in tRNA ^{Glu} and Mitochondrial Dysfunction. <i>Journal of Biological Chemistry</i> , 2016, 291, 21029-21041.	1.6	57
330	Previously unclassified mutation of mtDNA m.3472T>C: Evidence of pathogenicity in Leber's hereditary optic neuropathy. <i>Biochemistry (Moscow)</i> , 2016, 81, 748-754.	0.7	8
331	The exome sequencing identified the mutation in YARS2 encoding the mitochondrial tyrosyl-tRNA synthetase as a nuclear modifier for the phenotypic manifestation of Leber's hereditary optic neuropathy-associated mitochondrial DNA mutation. <i>Human Molecular Genetics</i> , 2016, 25, 584-596.	1.4	89
333	Mitochondrial Disorders. , 2016, , 139-159.		2
334	Variant at position 10,055 in mitochondrial <i>tRNA</i>^{<i>Gly</i>} gene has a negative association with aplastic anemia. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016, 27, 3086-3088.	0.7	0

#	ARTICLE	IF	CITATIONS
335	Complete mitochondrial genome of the hybrid of Simmental and Qinghai local cattle breed (Bos Tj ETQq0 0 0 rgBT/Overlock 0 Tf 50 7	0.7	10
336	Whole-genome sequencing identifies a novel ABCB7 gene mutation for X-linked congenital cerebellar ataxia in a large family of Mongolian ancestry. <i>European Journal of Human Genetics</i> , 2016, 24, 550-555.	1.4	28
337	Genetic and biochemical intricacy shapes mitochondrial cytopathies. <i>Neurobiology of Disease</i> , 2016, 92, 55-63.	2.1	26
338	Mitochondrial Gene Therapy: Advances in Mitochondrial Gene Cloning, Plasmid Production, and Nanosystems Targeted to Mitochondria. <i>Molecular Pharmaceutics</i> , 2017, 14, 626-638.	2.3	28
339	Mitochondrial DNA point mutations and relative copy number in 1363 disease and control human brains. <i>Acta Neuropathologica Communications</i> , 2017, 5, 13.	2.4	83
340	Late onset nonsyndromic hearing loss in a Dongxiang Chinese family is associated with the 593T > C variant in the mitochondrial tRNAPhe gene. <i>Mitochondrion</i> , 2017, 35, 111-118.	1.6	9
341	Intra-individual purifying selection on mitochondrial DNA variants during human oogenesis. <i>Human Reproduction</i> , 2017, 32, 1100-1107.	0.4	24
342	FDXR Mutations Cause Sensorial Neuropathies and Expand the Spectrum of Mitochondrial Fe-S-Synthesis Diseases. <i>American Journal of Human Genetics</i> , 2017, 101, 630-637.	2.6	52
343	microRNA-mediated differential expression of TRMU, GTPBP3 and MTO1 in cell models of mitochondrial-DNA diseases. <i>Scientific Reports</i> , 2017, 7, 6209.	1.6	9
344	Involvement of tRNAs in replication of human mitochondrial DNA and modifying effects of telomerase. <i>Mechanisms of Ageing and Development</i> , 2017, 166, 55-63.	2.2	4
345	Fly Models of Human Diseases. <i>Current Topics in Developmental Biology</i> , 2017, 121, 1-27.	1.0	31
346	A hypertension-associated mitochondrial DNA mutation alters the tertiary interaction and function of tRNA ^{Leu} (UUR). <i>Journal of Biological Chemistry</i> , 2017, 292, 13934-13946.	1.6	29
347	A novel MTTT mutation m.15933G>A revealed in analysis of mitochondrial DNA in patients with suspected mitochondrial disease. <i>BMC Medical Genetics</i> , 2017, 18, 14.	2.1	2
348	Novel mutation of ND4 gene identified by targeted next-generation sequencing in patient with Leigh syndrome. <i>Journal of Human Genetics</i> , 2017, 62, 291-297.	1.1	15
349	Mitochondrial dysfunction in a family with psychosis and chronic fatigue syndrome. <i>Mitochondrion</i> , 2017, 34, 1-8.	1.6	8
350	Identification and characterization of the novel point mutation m.3634A>G in the mitochondrial MT - ND1 gene associated with LHON syndrome. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 182-187.	1.8	8
351	The Mitochondrial tRNA ^{Ala} ; T5655C Mutation May Modulate the Phenotypic Expression of tRNA ^{Met} ; and tRNA ^{Gln} ; A4401G Mutation in a Han Chinese Family With Essential Hypertension. <i>International Heart Journal</i> , 2017, 58, 95-99.	0.5	8
352	Independent impacts of aging on mitochondrial DNA quantity and quality in humans. <i>BMC Genomics</i> , 2017, 18, 890.	1.2	116

#	ARTICLE	IF	CITATIONS
353	Mitochondrial Haplogroups Modify the Effect of Diabetes Duration and HbA _{1c} on Proliferative Diabetic Retinopathy Risk in Patients With Type 2 Diabetes. , 2017, 58, 6481.		7
354	Haplogroup J mitogenomes are the most sensitive to the pesticide rotenone: Relevance for human diseases. <i>Neurobiology of Disease</i> , 2018, 114, 129-139.	2.1	22
355	Identification of variants in the mitochondrial lysine-tRNA (MT-tRNA ^{Lys}) gene in myoclonic epilepsy pathogenicity evaluation and structural characterization by in silico approach. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 6258-6265.	1.2	4
356	Contribution of the tRNA ^{Leu} 4317A→G mutation to the phenotypic manifestation of the deafness-associated mitochondrial 12S rRNA 1555A→G mutation. <i>Journal of Biological Chemistry</i> , 2018, 293, 3321-3334.	1.6	32
357	Mitochondrial Mutations in Cholestatic Liver Disease with Biliary Atresia. <i>Scientific Reports</i> , 2018, 8, 905.	1.6	29
358	Widespread temperature sensitivity and tRNA decay due to mutations in a yeast tRNA. <i>Rna</i> , 2018, 24, 410-422.	1.6	14
359	Leber's hereditary optic neuropathy (LHON)-associated ND5 12338T→C mutation altered the assembly and function of complex I, apoptosis and mitophagy. <i>Human Molecular Genetics</i> , 2018, 27, 1999-2011.	1.4	55
360	Mitochondrial Genomics: A Complex Field Now Coming of Age. <i>Current Genetic Medicine Reports</i> , 2018, 6, 52-61.	1.9	37
361	Identification and characterization of the novel m.8305C→T MTTK and m.4440C→A MTTM gene mutations causing mitochondrial myopathies. <i>Neuromuscular Disorders</i> , 2018, 28, 137-143.	0.3	5
362	Mitochondrial mutations in human cancer: Curation of translation. <i>RNA Biology</i> , 2018, 15, 62-69.	1.5	17
363	Leber's hereditary optic neuropathy caused by a mutation in mitochondrial tRNA ^{Thr} in eight Chinese pedigrees. <i>Mitochondrion</i> , 2018, 42, 84-91.	1.6	12
364	Mitochondrial tRNA ^{Thr} 15909A→G mutation associated with hypertension in a Chinese Han pedigree. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 574-581.	1.0	11
365	Mutant MRPS 5 affects mitoribosomal accuracy and confers stress-related behavioral alterations. <i>EMBO Reports</i> , 2018, 19, .	2.0	26
366	Bioinformatics Tools and Databases to Assess the Pathogenicity of Mitochondrial DNA Variants in the Field of Next Generation Sequencing. <i>Frontiers in Genetics</i> , 2018, 9, 632.	1.1	48
367	A mitochondrial proteome profile indicative of type 2 diabetes mellitus in skeletal muscles. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-14.	3.2	34
368	CO ₂ -sensitive tRNA modification associated with human mitochondrial disease. <i>Nature Communications</i> , 2018, 9, 1875.	5.8	87
369	Computational resources associating diseases with genotypes, phenotypes and exposures. <i>Briefings in Bioinformatics</i> , 2019, 20, 2098-2115.	3.2	27
370	Frequency and spectrum of MT-TT variants associated with Leber's hereditary optic neuropathy in a Chinese cohort of subjects. <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 2266-2280.	0.2	3

#	ARTICLE	IF	CITATIONS
371	Mitochondrial DNA sequencing reveals association of variants and haplogroup M33a2 with High altitude pulmonary edema susceptibility in Indian male lowlanders. <i>Scientific Reports</i> , 2019, 9, 10975.	1.6	8
372	Genes and Variants Underlying Human Congenital Lactic Acidosis—From Genetics to Personalized Treatment. <i>Journal of Clinical Medicine</i> , 2019, 8, 1811.	1.0	13
373	Heteroplasmy concordance between mitochondrial DNA and RNA. <i>Scientific Reports</i> , 2019, 9, 12942.	1.6	9
374	Oxidative Insults and Mitochondrial DNA Mutation Promote Enhanced Autophagy and Mitophagy Compromising Cell Viability in Pluripotent Cell Model of Mitochondrial Disease. <i>Cells</i> , 2019, 8, 65.	1.8	48
375	DNA specificities modulate the binding of human transcription factor A to mitochondrial DNA control region. <i>Nucleic Acids Research</i> , 2019, 47, 6519-6537.	6.5	17
376	Cochlear implantation for hearing loss due to an A8296G mitochondrial DNA mutation. <i>Otolaryngology Case Reports</i> , 2019, 10, 47-49.	0.0	1
377	Epilepsies in Mitochondrial Cytopathies. , 2019, , 342-351.		0
378	Excess of Rare Missense Variants in Hearing Loss Genes in Sporadic Meniere Disease. <i>Frontiers in Genetics</i> , 2019, 10, 76.	1.1	58
379	MtBrowse: An integrative genomics browser for human mitochondrial DNA. <i>Mitochondrion</i> , 2019, 48, 31-36.	1.6	2
380	Structure—Function Analysis Reveals the Singularity of Plant Mitochondrial DNA Replication Components: A Mosaic and Redundant System. <i>Plants</i> , 2019, 8, 533.	1.6	11
381	Contribution of mitochondrial ND1 3394T→C mutation to the phenotypic manifestation of Leber's hereditary optic neuropathy. <i>Human Molecular Genetics</i> , 2019, 28, 1515-1529.	1.4	26
382	A deafness-associated mitochondrial DNA mutation altered the tRNA ^{Ser} (UCN) metabolism and mitochondrial function. <i>Mitochondrion</i> , 2019, 46, 370-379.	1.6	11
383	A urinary biosignature for mitochondrial myopathy, encephalopathy, lactic acidosis and stroke like episodes (MELAS). <i>Mitochondrion</i> , 2019, 45, 38-45.	1.6	16
384	Contaminations in (meta)genome data: An open issue for the scientific community. <i>IUBMB Life</i> , 2020, 72, 698-705.	1.5	13
385	Overexpression of mitochondrial histidyl-tRNA synthetase restores mitochondrial dysfunction caused by a deafness-associated tRNA ^H mutation. <i>Journal of Biological Chemistry</i> , 2020, 295, 940-954.	1.6	10
386	Distinguishing mitochondrial DNA and NUMT sequences amplified with the precision ID mtDNA whole genome panel. <i>Mitochondrion</i> , 2020, 55, 122-133.	1.6	24
387	Genetic aspects of the oxidative phosphorylation dysfunction in dilated cardiomyopathy. <i>Mutation Research - Reviews in Mutation Research</i> , 2020, 786, 108334.	2.4	6
388	Pathogenic Variant Filtering for Mitochondrial Genome Haplotype Reporting. <i>Genes</i> , 2020, 11, 1140.	1.0	6

#	ARTICLE	IF	CITATIONS
389	A novel m.11406A>A mutation in mitochondrial ND4 gene causes MELAS syndrome. <i>Mitochondrion</i> , 2020, 54, 57-64.	1.6	5
390	Mutation Screening of mtDNA Combined Targeted Exon Sequencing in a Cohort With Suspected Hereditary Optic Neuropathy. <i>Translational Vision Science and Technology</i> , 2020, 9, 11.	1.1	11
391	Developmental Validation of a MPS Workflow with a PCR-Based Short Amplicon Whole Mitochondrial Genome Panel. <i>Genes</i> , 2020, 11, 1345.	1.0	30
392	Possible A2E Mutagenic Effects on RPE Mitochondrial DNA from Innovative RNA-Seq Bioinformatics Pipeline. <i>Antioxidants</i> , 2020, 9, 1158.	2.2	42
393	Complex I mutations synergize to worsen the phenotypic expression of Leber's hereditary optic neuropathy. <i>Journal of Biological Chemistry</i> , 2020, 295, 13224-13238.	1.6	24
394	Whole Mitochondrial Genome Analysis in Serbian Cases of Leber's Hereditary Optic Neuropathy. <i>Genes</i> , 2020, 11, 1037.	1.0	4
395	The roles of mitochondrial tRNA mutations in non-dystrophic myotonias. <i>Mitochondrial DNA Part B: Resources</i> , 2020, 5, 3778-3783.	0.2	0
396	Single-fiber studies for assigning pathogenicity of eight mitochondrial DNA variants associated with mitochondrial diseases. <i>Human Mutation</i> , 2020, 41, 1394-1406.	1.1	4
397	Investigating the influence of mtDNA and nuclear encoded mitochondrial variants on high intensity interval training outcomes. <i>Scientific Reports</i> , 2020, 10, 11089.	1.6	7
398	Mitochondrial encephalopathy Due to a Novel Pathogenic Mitochondrial tRNA Gln m.4349C>T Variant. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 980-991.	1.7	3
399	Evidence of diaphragmatic dysfunction with severe alveolar hypoventilation syndrome in mitochondrial respiratory chain deficiency. <i>Neuromuscular Disorders</i> , 2020, 30, 593-598.	0.3	2
401	Rett Syndrome, a Neurodevelopmental Disorder, Whole-Transcriptome, and Mitochondrial Genome Multiomics Analyses Identify Novel Variations and Disease Pathways. <i>OMICS A Journal of Integrative Biology</i> , 2020, 24, 160-171.	1.0	18
402	Mitochondrial DNA (hypervariable region I) diversity in Basrah population "Iraq. <i>Genomics</i> , 2020, 112, 3560-3564.	1.3	3
403	Repurposing disulfiram to induce OSCC cell death by cristae dysfunction promoted autophagy. <i>Oral Diseases</i> , 2021, 27, 1148-1160.	1.5	6
404	A mitochondrial myopathy-associated tRNA ^{Ser} (UCN) 7453G>A mutation alters tRNA metabolism and mitochondrial function. <i>Mitochondrion</i> , 2021, 57, 1-8.	1.6	7
405	HIV-negative case of <i>Talaromyces marneffei</i> pulmonary infection with a TSC2 mutation. <i>Journal of International Medical Research</i> , 2021, 49, 0300060521110167.	0.4	3
406	Engineering Genetic Systems for Treating Mitochondrial Diseases. <i>Pharmaceutics</i> , 2021, 13, 810.	2.0	6
407	Impact of modular mitochondrial epistatic interactions on the evolution of human subpopulations. <i>Mitochondrion</i> , 2021, 58, 111-122.	1.6	2

#	ARTICLE	IF	CITATIONS
408	Leber's Hereditary Optic Neuropathy Arising From the Synergy Between ND1 3635G>A Mutation and Mitochondrial YARS2 Mutations. , 2021, 62, 22.		10
409	Association Between Leber's Hereditary Optic Neuropathy and MT-ND1 3460G>A Mutation-Induced Alterations in Mitochondrial Function, Apoptosis, and Mitophagy. , 2021, 62, 38.		13
410	Genetic characterization of a collection of Tsantsas from Ecuadorian museums. Forensic Science International, 2021, 325, 110879.	1.3	1
411	Mitochondrial DNA variants modulate N-formylmethionine, proteostasis and risk of late-onset human diseases. Nature Medicine, 2021, 27, 1564-1575.	15.2	40
412	The Role of Mitochondrial Genes in Neurodegenerative Disorders. Current Neuropharmacology, 2022, 20, 824-835.	1.4	4
414	Human Mitochondrial DNA: Particularities and Diseases. Biomedicines, 2021, 9, 1364.	1.4	10
415	Heterologous Inferential Analysis (HIA) and Other Emerging Concepts: In Understanding Mitochondrial Variation In Pathogenesis: There is no More Low-Hanging Fruit. Methods in Molecular Biology, 2021, 2277, 203-245.	0.4	4
417	Stroke-Like Episodes in Mitochondrial Encephalopathy, Lactic Acidosis, and Stroke-Like Episodes (MELAS). , 2013, , 107-125.		3
418	An Introduction to Mitochondrial Informatics. Methods in Molecular Biology, 2010, 628, 259-274.	0.4	1
419	ZARAMIT: A System for the Evolutionary Study of Human Mitochondrial DNA. Lecture Notes in Computer Science, 2009, , 1139-1142.	1.0	5
420	Scalable Phylogenetics through Input Preprocessing. Advances in Intelligent and Soft Computing, 2010, , 123-130.	0.2	2
421	Clinical Bioinformatics in Precise Diagnosis of Mitochondrial Disease. Clinics in Laboratory Medicine, 2020, 40, 149-161.	0.7	9
422	Overexpression of mitochondrial histidyl-tRNA synthetase restores mitochondrial dysfunction caused by a deafness-associated tRNA ^{His} mutation. Journal of Biological Chemistry, 2020, 295, 940-954.	1.6	11
423	Evolving mtDNA populations within cells. Biochemical Society Transactions, 2019, 47, 1367-1382.	1.6	24
424	The Genetics of Mitochondrial Disease. Seminars in Neurology, 2011, 31, 519-530.	0.5	32
427	Turning privacy leaks into floods. , 2010, , .		5
428	PRICKLE3 linked to ATPase biogenesis manifested Leber's hereditary optic neuropathy. Journal of Clinical Investigation, 2020, 130, 4935-4946.	3.9	43
429	A mitochondrial bioenergetic etiology of disease. Journal of Clinical Investigation, 2013, 123, 1405-1412.	3.9	261

#	ARTICLE	IF	CITATIONS
430	Strong Purifying Selection in Transmission of Mammalian Mitochondrial DNA. <i>PLoS Biology</i> , 2008, 6, e10.	2.6	425
431	Ancient mtDNA Genetic Variants Modulate mtDNA Transcription and Replication. <i>PLoS Genetics</i> , 2009, 5, e1000474.	1.5	130
432	Evolutionary Pressure on Mitochondrial Cytochrome b Is Consistent with a Role of Cytb17T Affecting Longevity during Caloric Restriction. <i>PLoS ONE</i> , 2009, 4, e5836.	1.1	38
433	Comparative Sequence Analysis of the Non-Protein-Coding Mitochondrial DNA of Inbred Rat Strains. <i>PLoS ONE</i> , 2009, 4, e8148.	1.1	11
434	Genome Digging: Insight into the Mitochondrial Genome of Homo. <i>PLoS ONE</i> , 2010, 5, e14278.	1.1	4
435	Sequence-Based Polymorphisms in the Mitochondrial D-Loop and Potential SNP Predictors for Chronic Dialysis. <i>PLoS ONE</i> , 2012, 7, e41125.	1.1	34
436	Mitochondrial Haplogroups and Polymorphisms Reveal No Association with Sporadic Prostate Cancer in a Southern European Population. <i>PLoS ONE</i> , 2012, 7, e41201.	1.1	7
437	Reconstructing the History of Mesoamerican Populations through the Study of the Mitochondrial DNA Control Region. <i>PLoS ONE</i> , 2012, 7, e44666.	1.1	32
438	Population Genetic Structure and Origins of Native Hawaiians in the Multiethnic Cohort Study. <i>PLoS ONE</i> , 2012, 7, e47881.	1.1	19
439	MitoLSDB: A Comprehensive Resource to Study Genotype to Phenotype Correlations in Human Mitochondrial DNA Variations. <i>PLoS ONE</i> , 2013, 8, e60066.	1.1	17
440	Structural Analysis of Mitochondrial Mutations Reveals a Role for Bigenomic Protein Interactions in Human Disease. <i>PLoS ONE</i> , 2013, 8, e69003.	1.1	25
441	Mitochondrial Genome Analysis of Primary Open Angle Glaucoma Patients. <i>PLoS ONE</i> , 2013, 8, e70760.	1.1	34
442	Mitochondrial DNA Variants in Obesity. <i>PLoS ONE</i> , 2014, 9, e94882.	1.1	26
443	Mitochondrial Mutations in Subjects with Psychiatric Disorders. <i>PLoS ONE</i> , 2015, 10, e0127280.	1.1	39
444	Genetic Evidence Supports the Multiethnic Character of Teopanacazco, a Neighborhood Center of Teotihuacan, Mexico (AD 200-600). <i>PLoS ONE</i> , 2015, 10, e0132371.	1.1	20
445	Ancient human mitochondrial DNA and radiocarbon analysis of archived quids from the Mule Spring Rockshelter, Nevada, USA. <i>PLoS ONE</i> , 2018, 13, e0194223.	1.1	2
446	Inflexibility of AMPK-mediated metabolic reprogramming in mitochondrial disease. <i>Oncotarget</i> , 2017, 8, 73627-73639.	0.8	22
447	MITOCHONDRIAL PROTEIN PROFILE AND ITS ROLE IN PATHOLOGIC PROCESSES. <i>Bulletin of Siberian Medicine</i> , 2013, 12, 5-17.	0.1	3

#	ARTICLE	IF	CITATIONS
448	Genetic Basis of Mitochondrial Optic Neuropathies. <i>Current Molecular Medicine</i> , 2014, 14, 985-992.	0.6	16
449	Nuclear Genetic Defects of Mitochondrial ATP Synthase. <i>Physiological Research</i> , 2014, 63, S57-S71.	0.4	36
452	Mitochondrial Energy-Deficient Endophenotype in Autism. <i>American Journal of Biochemistry and Biotechnology</i> , 2008, 4, 198-207.	0.1	44
453	Deciphering the spectrum of somatic mutations in the entire mitochondrial DNA genome. <i>Genetics and Molecular Research</i> , 2015, 14, 4331-4337.	0.3	2
454	Genetics of Mitochondrial Myopathies. <i>Journal of Genetic Medicine</i> , 2013, 10, 20-26.	0.1	3
455	Replicational Mutation Gradients, Dipole Moments, Nearest Neighbour Effects and DNA Polymerase Gamma Fidelity in Human Mitochondrial Genomes. , 0, , .		9
456	Mitochondrial DNA in human identification: a review. <i>PeerJ</i> , 2019, 7, e7314.	0.9	67
457	Mutational Analysis and mtDNA Haplogroup Characterization in Three Serbian Cases of Mitochondrial Encephalomyopathies and Literature Review. <i>Diagnostics</i> , 2021, 11, 1969.	1.3	2
458	Mitochondrial DNA Mutations in Tumors. , 2009, , 119-130.		4
459	Biological Evidence and Forensic DNA Profiling. , 2010, , 591-672.		0
462	Towards an integrated resource for the study of population and disease associated variability of the human mitochondrial genome. <i>EMBnet Journal</i> , 2012, 18, 91.	0.2	0
463	HVR1-Derived Numts and the Reliability of Phylogenetic Studies in Chimpanzees (<i>Pan troglodytes</i>). <i>Journal of Primatology</i> , 2013, 02, .	0.1	0
464	Mitochondrial Targeting of RNA and Mitochondrial Translation. , 2013, , 85-107.		1
465	Complexity of Mitochondrial Genome Sequences. <i>Undergraduate Journal of Mathematical Modeling: One + Two</i> , 2013, 4, .	0.0	0
466	Phylogenetic Relationships of Hominids: Biomolecular Approach. , 2015, , 2015-2041.		0
467	A Case of MELAS Syndrome Presenting with Type 1 Diabetes Mellitus. <i>Korean Journal of Medicine</i> , 2015, 88, 706.	0.1	1
468	Remarkable achievements in multiple sclerosis. <i>Clinical and Translational Degenerative Diseases</i> , 2016, 1, 77.	0.0	0
469	Stroke-Like Episodes in Mitochondrial Myopathy, Encephalopathy, Lactic Acidosis, and Stroke-Like Episodes (MELAS). , 2017, , 117-134.		0

#	ARTICLE	IF	CITATIONS
471	Development of plasmid DNA nanoparticles for mitochondrial gene therapy. , 2019, , 297-327.		0
472	Applications of Mitochondrial DNA in Forensic Science. , 2020, , 329-343.		3
473	African human mtDNA phylogeography at-a-glance. Journal of Anthropological Sciences, 2011, 89, 25-58.	0.4	36
474	The mitochondrial DNA mutations associated with cardiac arrhythmia investigated in an LQTS family. Iranian Journal of Basic Medical Sciences, 2014, 17, 656-61.	1.0	4
475	Identification of Mitochondrial DNA Variants Associated With Risk of Neuroblastoma. Journal of the National Cancer Institute, 2022, 114, 910-913.	3.0	4
476	Somatic and Germline Variant Calling from Next-Generation Sequencing Data. Advances in Experimental Medicine and Biology, 2022, 1361, 37-54.	0.8	2
477	Use of Next-Generation Sequencing for Identifying Mitochondrial Disorders. Current Issues in Molecular Biology, 2022, 44, 1127-1148.	1.0	6
478	Cochlear Implantation in Patients with Mitochondrial Gene Mutation: Decline in Speech Perception in Retrospective Long-Term Follow-Up Study. Life, 2022, 12, 482.	1.1	2
482	Human Disease. , 0, , 838-889.		0
483	Leber's hereditary optic neuropathy-associated ND6 14484T>>C mutation caused pleiotropic effects on the complex I, RNA homeostasis, apoptosis and mitophagy. Human Molecular Genetics, 2022, 31, 3299-3312.	1.4	7
484	Mitochondrial tRNA variants in 811 Chinese probands with Leber's hereditary optic neuropathy. Mitochondrion, 2022, 65, 56-66.	1.6	1
485	Mitochondrial rRNA Methylation by Mettl15 Contributes to the Exercise and Learning Capability in Mice. International Journal of Molecular Sciences, 2022, 23, 6056.	1.8	3
486	Recent advances in mitochondrial diseases: From molecular insights to therapeutic perspectives. Saudi Pharmaceutical Journal, 2022, 30, 1065-1078.	1.2	7
490	tRNA dysregulation and disease. Nature Reviews Genetics, 2022, 23, 651-664.	7.7	52
491	A Pilot Mitochondrial Genome-Wide Association on Migraine Among Saudi Arabians. International Journal of General Medicine, 0, Volume 15, 6249-6258.	0.8	1
492	Emerging functions of mitochondria-encoded noncoding RNAs. Trends in Genetics, 2023, 39, 125-139.	2.9	19
493	Prevalence of hereditary tubulointerstitial kidney diseases in the German Chronic Kidney Disease study. European Journal of Human Genetics, 2022, 30, 1413-1422.	1.4	6
494	<sc>Kearns's syndrome case. Novel 5,9–mtDNA deletion. Molecular Genetics & Genomic Medicine, 2023, 11, .	0.6	5

#	ARTICLE	IF	CITATIONS
495	Organelle bottlenecks facilitate evolvability by traversing heteroplasmic fitness valleys. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	3
496	Glaucomatous optic neuropathy: Mitochondrial dynamics, dysfunction and protection in retinal ganglion cells. <i>Progress in Retinal and Eye Research</i> , 2023, 95, 101136.	7.3	24
497	Variations in mitochondrial DNA coding and d-loop region are associated with early embryonic development defects in infertile women. <i>Human Genetics</i> , 0, , .	1.8	0
499	Impact of Mitochondrial A3243G Heteroplasmy on Mitochondrial Bioenergetics and Dynamics of Directly Reprogrammed MELAS Neurons. <i>Cells</i> , 2023, 12, 15.	1.8	3
500	Nuclear modifier <i>YARS2</i> allele correction restored retinal ganglion cells-specific deficiencies in Leber's hereditary optic neuropathy. <i>Human Molecular Genetics</i> , 2023, 32, 1539-1551.	1.4	5
501	How Physical and Molecular Anthropology Interplay in the Creation of Biological Profiles of Unidentified Migrants. <i>Genes</i> , 2023, 14, 706.	1.0	3
502	m.4216 T & C polymorphism in JT cluster determines a lower pregnancy rate in response to controlled ovarian stimulation treatment. <i>Journal of Assisted Reproduction and Genetics</i> , 2023, 40, 671-682.	1.2	0
503	Mitochondrial DNA variants in a cohort from Argentina with suspected Leber's hereditary optic neuropathy (LHON). <i>PLoS ONE</i> , 2023, 18, e0275703.	1.1	0
504	Restoration of mitochondrial function through activation of hypomodified tRNAs with pathogenic mutations associated with mitochondrial diseases. <i>Nucleic Acids Research</i> , 2023, 51, 7563-7579.	6.5	7
505	Assessment of Amikacin- and Capreomycin-Related Adverse Drug Reactions in Patients with Multidrug-Resistant Tuberculosis and Exploring the Role of Genetic Factors. <i>Journal of Personalized Medicine</i> , 2023, 13, 599.	1.1	0
506	A meta-analysis and a functional study support the influence of mtDNA variant m.16519C on the risk of rapid progression of knee osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2023, 82, 974-984.	0.5	5
519	Mitochondrial heterogeneity in diseases. <i>Signal Transduction and Targeted Therapy</i> , 2023, 8, .	7.1	3