

# CITATION REPORT

List of articles citing

Why do we still have a maternally inherited mitochondrial DNA? Insights from evolutionary medicine

DOI: 10.1146/annurev.biochem.76.081205.150955  
Annual Review of Biochemistry, 2007, 76, 781-821.

**Source:** <https://exaly.com/paper-pdf/42004949/citation-report.pdf>

**Version:** 2024-04-28

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

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

#	Paper	IF	Citations
295	The magic garden. <i>Annual Review of Biochemistry</i> , <b>2007</b> , 76, 673-8	29.1	22
294	Mitochondrial disorders. <b>2007</b> , 20, 564-71		101
293	Bibliography. Current world literature. Neuro-muscular diseases: nerve. <b>2007</b> , 20, 600-4		
292	Translocation of proteins into mitochondria. <i>Annual Review of Biochemistry</i> , <b>2007</b> , 76, 723-49	29.1	1119
291	Mitochondrion and its related disorders: making a comeback. <b>2008</b> , 9, 90-2		4
290	A mitochondrial etiology of neurodegenerative diseases: evidence from Parkinson's disease. <b>2008</b> , 1147, 1-20		84
289	Mitochondrial fragmentation in neurodegeneration. <b>2008</b> , 9, 505-18		715
288	A mouse model of mitochondrial disease reveals germline selection against severe mtDNA mutations. <b>2008</b> , 319, 958-62		355
287	Selection by drug resistance proteins located in the mitochondria of mammalian cells. <i>Mitochondrion</i> , <b>2008</b> , 8, 345-51	4.9	10
286	Nuclear transfer and iPS may work best together. <b>2008</b> , 2, 135-8		14
285	The healthy cell bias of estrogen action: mitochondrial bioenergetics and neurological implications. <b>2008</b> , 31, 529-37		245
284	Quantitative SERRS for DNA sequence analysis. <b>2008</b> , 37, 1042-51		135
283	Mitochondrial medicine: a new era in medicine opens new windows and brings new challenges. <b>2008</b> , 117, 2431-4		33
282	Mitochondria as chi. <b>2008</b> , 179, 727-35		116
281	The spectrum of mitochondrial mutation differs across species. <b>2008</b> , 6, e213		34
280	Mitigating mutational meltdown in mammalian mitochondria. <b>2008</b> , 6, e35		49
279	Reconstructing the mitochondrial protein import machinery of <i>Chlamydomonas reinhardtii</i> . <b>2008</b> , 179, 149-55		12

278	Mitochondria: the hub of cellular Ca <sup>2+</sup> signaling. <b>2008</b> , 23, 84-94		296
277	Mitochondria, bioenergetics, and the epigenome in eukaryotic and human evolution. <b>2009</b> , 74, 383-93		39
276	'Why genomes in pieces?' revisited: sucking lice do their own thing in mtDNA circle game. <b>2009</b> , 19, 700-2		16
275	Blood chimerism confounds genetic relative susceptibility testing for classical scrapie in sheep. <b>2009</b> , 21, 295-305		1
274	Are maternal mitochondria the selfish entities that are masters of the cells of eukaryotic multicellular organisms?. <b>2009</b> , 2, 194-200		2
273	Do organellar genomes function as long-term redox damage sensors?. <b>2009</b> , 25, 253-61		23
272	20 years of human mtDNA pathologic point mutations: carefully reading the pathogenicity criteria. <b>2009</b> , 1787, 476-83		45
271	MITOMASTER: a bioinformatics tool for the analysis of mitochondrial DNA sequences. <i>Human Mutation</i> , <b>2009</b> , 30, 1-6	4-7	84
270	Mitochondrial bioenergetics as a major motive force of speciation. <b>2009</b> , 31, 642-50		169
269	Biparental inheritance of plastidial and mitochondrial DNA and hybrid variegation in <i>Pelargonium</i> . <b>2009</b> , 282, 587-93		33
268	Family-based mitochondrial association study of traits related to type 2 diabetes and the metabolic syndrome in adolescents. <b>2009</b> , 52, 2359-2368		3
267	Evolution of the mitochondrial genome in mammals living at high altitude: new insights from a study of the tribe Caprini (Bovidae, Antilopinae). <b>2009</b> , 68, 293-310		134
266	Detailed family history of diabetes identified children at risk of type 2 diabetes: a population-based case-control study. <b>2010</b> , 11, 258-64		15
265	Large-scale sequence analyses of Atlantic cod. <b>2009</b> , 25, 263-71		55
264	Inverse relationship between longevity and evolutionary rate of mitochondrial proteins in mammals and birds. <i>Mitochondrion</i> , <b>2009</b> , 9, 51-7	4-9	29
263	Quantitative analysis of somatic mitochondrial DNA mutations by single-cell single-molecule PCR. <i>Methods in Molecular Biology</i> , <b>2009</b> , 554, 329-69	1-4	14
262	Mitochondrial DNA. <i>Methods in Molecular Biology</i> , <b>2009</b> ,	1-4	3
261	The pathophysiology of mitochondrial disease as modeled in the mouse. <b>2009</b> , 23, 1714-36		165

260	Surface-enhanced Raman scattering as a detection technique for molecular diagnostics. <b>2009</b> , 9, 537-9		18
259	Mitochondrial Medicine in Health and Disease: Interface Between Athletic Performance and Therapeutics. <b>2010</b> , 14-32		1
258	Mitochondrial function, mitochondrial DNA and ageing: a reappraisal. <b>2010</b> , 11, 575-88		20
257	Cellular stress responses, mitostress and carnitine insufficiencies as critical determinants in aging and neurodegenerative disorders: role of hormesis and vitagenes. <b>2010</b> , 35, 1880-915		63
256	Distinct patterns of mitochondrial genome diversity in bonobos ( <i>Pan paniscus</i> ) and humans. <b>2010</b> , 10, 270		21
255	Mitochondrial pharmacogenomics: barcode for antibiotic therapy. <b>2010</b> , 15, 33-9		34
254	Maintenance and expression of the <i>S. cerevisiae</i> mitochondrial genome--from genetics to evolution and systems biology. <b>2010</b> , 1797, 1086-98		59
253	Mitochondrial DNA mutations in disease and aging. <b>2010</b> , 51, 440-50		379
252	The acquisition of an inheritable 50-bp deletion in the human mtDNA control region does not affect the mtDNA copy number in peripheral blood cells. <i>Human Mutation</i> , <b>2010</b> , 31, 538-43	4-7	25
251	Pharmacologic effects on mitochondrial function. <b>2010</b> , 16, 189-99		36
250	Bioenergetics and the epigenome: interface between the environment and genes in common diseases. <b>2010</b> , 16, 114-9		49
249	Pronuclear transfer in human embryos to prevent transmission of mitochondrial DNA disease. <b>2010</b> , 465, 82-5		341
248	Mitochondria as organizers of the cellular Ca <sup>2+</sup> Signaling Network. <b>2010</b> , 963-972		
247	Re-engineering the mitochondrial genomes in mammalian cells. <b>2010</b> , 43, 97-109		16
246	Somatic point mutations in mtDNA control region are influenced by genetic background and associated with healthy aging: a GEHA study. <i>PLoS ONE</i> , <b>2010</b> , 5, e13395	3-7	26
245	Characterization of mitochondrial DNA heteroplasmy using a parallel sequencing system. <b>2010</b> , 48, 287-96		88
244	Germline HVR-II mitochondrial polymorphisms associated with breast cancer in Tunisian women. <b>2010</b> , 9, 1690-700		5
243	Mitochondrial DNA background modifies the bioenergetics of NARP/MILS ATP6 mutant cells. <b>2010</b> , 19, 374-86		69

242	Mitochondrial DNA variant discovery and evaluation in human Cardiomyopathies through next-generation sequencing. <i>PLoS ONE</i> , <b>2010</b> , 5, e12295	3-7	74
241	Identification of multiple rate-limiting steps during the human mitochondrial transcription cycle in vitro. <b>2010</b> , 285, 16387-402		33
240	Colloquium paper: bioenergetics, the origins of complexity, and the ascent of man. <b>2010</b> , 107 Suppl 2, 8947-53		93
239	A new hypothesis of pathogenesis based on the divorce between mitochondria and their host cells: possible relevance for Alzheimer's disease. <b>2010</b> , 7, 307-22		26
238	Mitochondrial energetics and therapeutics. <b>2010</b> , 5, 297-348		492
237	Human Genome Sequence and Variation. <b>2010</b> , 31-53		3
236	Energetics, epigenetics, mitochondrial genetics. <i>Mitochondrion</i> , <b>2010</b> , 10, 12-31	4-9	357
235	A de novo mutation in the adenosine triphosphatase (ATPase) 8 gene in a patient with mitochondrial disorder. <b>2010</b> , 25, 770-5		10
234	Multiplex analysis of mitochondrial DNA pathogenic and polymorphic sequence variants. <b>2010</b> , 391, 1115-30		8
233	Systemic mitochondrial dysfunction and the etiology of Alzheimer's disease and down syndrome dementia. <b>2010</b> , 20 Suppl 2, S293-310		111
232	The epigenome and the mitochondrion: bioenergetics and the environment [corrected]. <b>2010</b> , 24, 1571-3		38
231	Next generation sequencing to characterize mitochondrial genomic DNA heteroplasmy. <b>2011</b> , Chapter 19, Unit19.8		27
230	Infection-mediated vasoactive peptides modulate cochlear uptake of fluorescent gentamicin. <b>2011</b> , 16, 347-58		17
229	Mitochondrial DNA mutations in disease and aging. <b>2011</b> , 193, 809-18		213
228	Hormesis, cellular stress response and vitagenes as critical determinants in aging and longevity. <b>2011</b> , 32, 279-304		163
227	Mechanisms and Consequences of Mitochondrial Dysfunction and Oxidative Stress in T-Cells of Patients with SLE. <b>2011</b> , 177-189		
226	Bioenergetic origins of complexity and disease. <b>2011</b> , 76, 1-16		83
225	Human mitochondrial tRNAs: biogenesis, function, structural aspects, and diseases. <b>2011</b> , 45, 299-329		369

224	Human mitochondrial diseases caused by lack of taurine modification in mitochondrial tRNAs. <b>2011</b> , 2, 376-86		82
223	Population genetics of the cytoplasm and the units of selection on mitochondrial DNA in <i>Drosophila melanogaster</i> . <b>2011</b> , 139, 685-97		21
222	Characterization of mitochondrial mRNAs in codfish reveals unique features compared to mammals. <b>2011</b> , 57, 213-22		20
221	Mitochondrial biology in reproduction. <b>2011</b> , 10, 251-258		7
220	MitoTool: a web server for the analysis and retrieval of human mitochondrial DNA sequence variations. <i>Mitochondrion</i> , <b>2011</b> , 11, 351-6	4-9	105
219	Mitochondrial genome of Plateau zokor <i>Myospalax baileyi</i> . <b>2011</b> , 22, 174-5		10
218	Allotopic expression of mitochondrial-encoded genes in mammals: achieved goal, undemonstrated mechanism or impossible task?. <b>2011</b> , 39, 225-34		1036
217	The mitochondrial connection in auditory neuropathy. <b>2011</b> , 16, 398-413		17
216	Mitochondrial genetics and human systemic hypertension. <b>2011</b> , 108, 784-6		19
215	Elimination of paternal mitochondria through the lysosomal degradation pathway in <i>C. elegans</i> . <b>2011</b> , 21, 1662-9		75
214	Oxidative Stress and Mitochondrial Dysfunction in Down's Syndrome: Relevance to Aging and Dementia. <b>2012</b> , 2012, 383170		45
213	mtDNA lineage analysis of mouse L-cell lines reveals the accumulation of multiple mtDNA mutants and intermolecular recombination. <b>2012</b> , 26, 384-94		30
212	Local adaptation along smooth ecological gradients causes phylogeographic breaks and phenotypic clustering. <b>2012</b> , 180, 35-49		47
211	The 18 kDa Translocator Protein (TSPO): A New Perspective in Mitochondrial Biology. <b>2012</b> , 12, 356-368		
210	Mitochondrial DNA variant associated with Leber hereditary optic neuropathy and high-altitude Tibetans. <b>2012</b> , 109, 7391-6		113
209	Mitochondrial DNA sequence variation and risk of pancreatic cancer. <b>2012</b> , 72, 686-95		42
208	Cybrids for Mitochondrial DNA Pharmacogenomics. <b>2012</b> , 73, 453-460		2
207	Heteroplasmy of mouse mtDNA is genetically unstable and results in altered behavior and cognition. <b>2012</b> , 151, 333-343		257

206	Mitogenomic analysis of the genus <i>Pseudois</i> : evidence of adaptive evolution of morphological variation in the ATP synthase genes. <i>Mitochondrion</i> , <b>2012</b> , 12, 500-5	4.9	12
205	Mitochondrial DNA: A Blind Spot in Neuroepigenetics. <b>2012</b> , 3, 107-115		32
204	Transmission, inheritance and replication of mitochondrial DNA in mammals: implications for reproductive processes and infertility. <b>2012</b> , 349, 795-808		23
203	PGC-1 family coactivators and cell fate: roles in cancer, neurodegeneration, cardiovascular disease and retrograde mitochondria-nucleus signalling. <i>Mitochondrion</i> , <b>2012</b> , 12, 86-99	4.9	101
202	Analysis of mitochondrial DNA variations in a Chinese family with spinocerebellar ataxia. <b>2012</b> , 19, 60-4		5
201	A mitochondrial etiology of Alzheimer and Parkinson disease. <b>2012</b> , 1820, 553-64		226
200	The problem with mixing mitochondria. <b>2012</b> , 151, 246-8		31
199	Mitochondria and cancer. <b>2012</b> , 12, 685-98		1340
198	Mitochondrial-nuclear co-evolution and its effects on OXPHOS activity and regulation. <b>2012</b> , 1819, 1107-11		73
197	Mitochondrial DNA nucleoid structure. <b>2012</b> , 1819, 914-20		179
196	Mitochondrial translational inhibitors in the pharmacopeia. <b>2012</b> , 1819, 1067-74		15
195	NMR methodologies for studying mitochondrial bioenergetics. <i>Methods in Molecular Biology</i> , <b>2012</b> , 810, 281-309	1.4	3
194	Analysis of common mitochondrial DNA mutations by allele-specific oligonucleotide and Southern blot hybridization. <i>Methods in Molecular Biology</i> , <b>2012</b> , 837, 259-79	1.4	12
193	Mitochondrial DNA sequence variation is associated with free-living activity energy expenditure in the elderly. <b>2012</b> , 1817, 1691-700		11
192	Mitochondrial Disorders. <i>Methods in Molecular Biology</i> , <b>2012</b> ,	1.4	4
191	Mitochondrial Bioenergetics. <i>Methods in Molecular Biology</i> , <b>2012</b> ,	1.4	13
190	Regulation of the mitochondrial proton gradient by cytosolic Ca <sup>2+</sup> signals. <b>2012</b> , 464, 19-26		23
189	Degrees of disruption: projected temperature increase has catastrophic consequences for reproduction in a tropical ectotherm. <b>2012</b> , 18, 1833-1842		43

188	Cytochrome c oxidase: evolution of control via nuclear subunit addition. <b>2012</b> , 1817, 590-7	69
187	Naturally occurring mitochondrial DNA haplotypes exhibit metabolic differences: insight into functional properties of mitochondria. <b>2012</b> , 66, 3189-97	70
186	Mitochondrial DNA, Mitochondria, Disease and Stem Cells. <b>2013</b> ,	2
185	Mitochondrial Genome: Evolution. <b>2013</b> ,	1
184	Defects in mitochondrial fatty acid synthesis result in failure of multiple aspects of mitochondrial biogenesis in <i>Saccharomyces cerevisiae</i> . <b>2013</b> , 90, 824-40	36
183	Energy, ageing, fidelity and sex: oocyte mitochondrial DNA as a protected genetic template. <b>2013</b> , 368, 20120263	34
182	Mitochondrial DNA genetics and the heteroplasmy conundrum in evolution and disease. <b>2013</b> , 5, a021220	368
181	Part II. Mitochondrial mutational status of high nitric oxide adapted cell line BT-20 (BT-20-HNO) as it relates to human primary breast tumors. <b>2013</b> , 34, 337-47	11
180	Da-Bu-Yin-Wan and Qian-Zheng-San, two traditional Chinese herbal formulas, up-regulate the expression of mitochondrial subunit NADH dehydrogenase 1 synergistically in the mice model of Parkinson's disease. <b>2013</b> , 146, 363-71	22
179	Mitochondrial Medicine. <b>2013</b> , 1-153	5
178	Bioenergetics and the Mitochondrial Genome. <b>2013</b> , 210-216	
177	Signaling the mitochondrial unfolded protein response. <b>2013</b> , 1833, 410-6	247
176	Mitochondrial oxidative phosphorylation reserve is required for hormone- and PPAR $\alpha$ agonist-induced adipogenesis. <b>2013</b> , 35, 134-41	21
175	Bioenergetics in human evolution and disease: implications for the origins of biological complexity and the missing genetic variation of common diseases. <b>2013</b> , 368, 20120267	90
174	Mitochondrial optic neuropathies: our travels from bench to bedside and back again. <b>2013</b> , 41, 702-12	23
173	Mechanism of homologous recombination and implications for aging-related deletions in mitochondrial DNA. <b>2013</b> , 77, 476-96	58
172	Female and male gamete mitochondria are distinct and complementary in transcription, structure, and genome function. <i>Genome Biology and Evolution</i> , <b>2013</b> , 5, 1969-77	3.9 31
171	Adenine nucleotide translocase, mitochondrial stress, and degenerative cell death. <b>2013</b> , 2013, 146860	43



170	A genome-wide map of mitochondrial DNA recombination in yeast. <b>2014</b> , 198, 755-71		49
169	Fatty acids in energy metabolism of the central nervous system. <b>2014</b> , 2014, 472459		95
168	Mito-nuclear co-evolution: the positive and negative sides of functional ancient mutations. <b>2014</b> , 5, 448		58
167	Mitochondrial DNA. <b>2014</b> , 429-439		1
166	The elusive nature of adaptive mitochondrial DNA evolution of an arctic lineage prone to frequent introgression. <i>Genome Biology and Evolution</i> , <b>2014</b> , 6, 886-96	3.9	67
165	Transmission of mitochondrial mutations and action of purifying selection in <i>Drosophila melanogaster</i> . <b>2014</b> , 46, 393-7		69
164	Mitochondrial dysfunction as a central actor in intellectual disability-related diseases: an overview of Down syndrome, autism, Fragile X and Rett syndrome. <b>2014</b> , 46 Pt 2, 202-17		111
163	Leber's hereditary optic neuropathy caused by the homoplasmic ND1 m.3635G>A mutation in nine Han Chinese families. <i>Mitochondrion</i> , <b>2014</b> , 18, 18-26	4.9	27
162	Mitogenomic analyses propose positive selection in mitochondrial genes for high-altitude adaptation in galliform birds. <i>Mitochondrion</i> , <b>2014</b> , 18, 70-5	4.9	49
161	Cellular respiration: the nexus of stress, condition, and ornamentation. <b>2014</b> , 54, 645-57		76
160	Defects in mitochondrial metabolism and cancer. <b>2014</b> , 2, 10		155
159	An evolutionary preserved intergenic spacer in gadiform mitogenomes generates a long noncoding RNA. <b>2014</b> , 14, 182		11
158	"Stress entropic load" as a transgenerational epigenetic response trigger. <b>2014</b> , 82, 271-4		3
157	Frequency and spectrum of mitochondrial ND6 mutations in 1218 Han Chinese subjects with Leber's hereditary optic neuropathy. <b>2014</b> , 55, 1321-31		34
156	Therapeutic Targeting of Neuronal Mitochondria in Brain Injury. <b>2015</b> , 359-377		
155	Assessment of mitochondrial functions in <i>Daphnia pulex</i> clones using high-resolution respirometry. <b>2015</b> , 323, 292-300		3
154	. <b>2015</b> ,		
153	Prevalence of Mitochondrial ND4 Mutations in 1281 Han Chinese Subjects With Leber's Hereditary Optic Neuropathy. <b>2015</b> , 56, 4778-88		40

152	Why is Qi-Invigorating Therapy in Chinese Medicine Suitable for Mitochondrial Diseases? A Bioenergetic Perspective. <b>2015</b> ,		2
151	Association of mitochondrial DNA polymorphism with myocardial infarction and prognostic signs for atherosclerosis. <i>Molecular Biology</i> , <b>2015</b> , 49, 867-874	1.2	6
150	Gemini surfactants mediate efficient mitochondrial gene delivery and expression. <b>2015</b> , 12, 716-30		46
149	Mitochondrial tRNA(Ser(UCN)) variants in 2651 Han Chinese subjects with hearing loss. <i>Mitochondrion</i> , <b>2015</b> , 23, 17-24	4.9	18
148	Selection against heteroplasmy explains the evolution of uniparental inheritance of mitochondria. <b>2015</b> , 11, e1005112		30
147	Longevity Genes. <b>2015</b> ,		2
146	Evolutionary defined role of the mitochondrial DNA in fertility, disease and ageing. <b>2015</b> , 21, 671-89		47
145	A genetic view of the mitochondrial role in ageing: killing us softly. <b>2015</b> , 847, 89-106		11
144	Mitonuclear Ecology. <b>2015</b> , 32, 1917-27		100
143	Mitoepigenetics: The different shades of grey. <i>Mitochondrion</i> , <b>2015</b> , 25, 60-6	4.9	24
142	Stable coexistence of incompatible Wolbachia along a narrow contact zone in mosquito field populations. <b>2015</b> , 24, 508-21		20
141	Evidence of adaptive evolution of alpine pheasants to high-altitude environment from mitogenomic perspective. <b>2016</b> , 27, 455-62		10
140	Mitochondrial ND1 Variants in 1281 Chinese Subjects With Leber's Hereditary Optic Neuropathy. <b>2016</b> , 57, 2377-89		28
139	Content and Variation of the Human Genome. <b>2016</b> , 161-177		0
138	The mitochondrial outer membrane protein MDI promotes local protein synthesis and mtDNA replication. <b>2016</b> , 35, 1045-57		46
137	Human Mitochondrial Transcription Initiation Complexes Have Similar Topology on the Light and Heavy Strand Promoters. <b>2016</b> , 291, 13432-5		12
136	Mitochondrial health, the epigenome and healthspan. <b>2016</b> , 130, 1285-305		37
135	Animal Mitochondrial DNA as We Do Not Know It: mt-Genome Organization and Evolution in Nonbilaterian Lineages. <i>Genome Biology and Evolution</i> , <b>2016</b> , 8, 2896-2913	3.9	93

134	Demographic History of the Genus Pan Inferred from Whole Mitochondrial Genome Reconstructions. <i>Genome Biology and Evolution</i> , <b>2016</b> , 8, 2020-30	3.9	18
133	Incompatibility between Nuclear and Mitochondrial Genomes Contributes to an Interspecies Reproductive Barrier. <b>2016</b> , 24, 283-94		66
132	Kinetics and specificity of paternal mitochondrial elimination in <i>Caenorhabditis elegans</i> . <b>2016</b> , 7, 12569		36
131	Mitochondrial and Nuclear Genome Coevolution. <b>2016</b> , 19-26		
130	Mitogenomic perspectives on the origin of Tibetan loaches and their adaptation to high altitude. <i>Scientific Reports</i> , <b>2016</b> , 6, 29690	4.9	47
129	Metabolic Production of H <sub>2</sub> O <sub>2</sub> in Carcinogenesis and Cancer Treatment. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , <b>2016</b> , 103-124		0
128	Mitochondrial endonuclease G mediates breakdown of paternal mitochondria upon fertilization. <b>2016</b> , 353, 394-9		107
127	An Introduction to Mitochondria, Their Structure and Functions. <b>2016</b> , 3-30		1
126	Evolutionary implications of mitochondrial genetic variation: mitochondrial genetic effects on OXPHOS respiration and mitochondrial quantity change with age and sex in fruit flies. <b>2016</b> , 29, 736-47		37
125	Mitochondrial specific therapeutic targets following brain injury. <b>2016</b> , 1640, 77-93		43
124	Effect of dietary lysine on performance and expression of electron transport chain genes in the pectoralis major muscle of broilers. <b>2017</b> , 11, 778-783		7
123	Mitochondrial dysfunction in ocular disease: Focus on glaucoma. <i>Mitochondrion</i> , <b>2017</b> , 35, 44-53	4.9	49
122	Heteroplasmic shifts in tumor mitochondrial genomes reveal tissue-specific signals of relaxed and positive selection. <b>2017</b> , 26, 2912-2922		28
121	Giant Ring Mitochondria in a Patient With Heart Failure and Cerebral White Matter Disease Resulting From an MT-TL1 Mitochondrial Gene Mutation. <b>2017</b> , 23, 652-655		0
120	Experimental Support That Natural Selection Has Shaped the Latitudinal Distribution of Mitochondrial Haplotypes in Australian <i>Drosophila melanogaster</i> . <b>2017</b> , 34, 2600-2612		62
119	Evolutionary and Functional Mitogenomics Associated With the Genetic Restoration of the Florida Panther. <b>2017</b> , 108, 449-455		6
118	Mitochondrial replacement by pre-pronuclear transfer in human embryos. <b>2017</b> , 27, 834-837		8
117	Coke-derived graphene quantum dots as fluorescence nanoquencher in DNA detection. <b>2017</b> , 7, 138-143		38

116	Why mitochondria need a genome revisited. <b>2017</b> , 591, 65-75		16
115	The role of caloric load and mitochondrial homeostasis in the regulation of the NLRP3 inflammasome. <b>2017</b> , 74, 1777-1791		16
114	An mtDNA mutation accelerates liver aging by interfering with the ROS response and mitochondrial life cycle. <i>Free Radical Biology and Medicine</i> , <b>2017</b> , 102, 174-187	7.8	26
113	The mitochondrial genome of a sea anemone sp. exhibits novel genetic structures potentially involved in adaptation to the deep-sea environment. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 4951-4962	2.8	31
112	MtDNA genomes reveal a relaxation of selective constraints in low-BMI individuals in a Uyghur population. <b>2017</b> , 136, 1353-1362		5
111	The addition of ketone bodies alleviates mitochondrial dysfunction by restoring complex I assembly in a MELAS cellular model. <b>2017</b> , 1863, 284-291		28
110	Principal Aspects Regarding the Maintenance of Mammalian Mitochondrial Genome Integrity. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	19
109	Current strategies towards therapeutic manipulation of mtDNA heteroplasmy. <b>2017</b> , 22, 991-1010		12
108	Molecular Life Sciences. <b>2018</b> , 793-793		
107	Activation of Yeast Mitochondrial Translation: Who Is in Charge?. <i>Biochemistry (Moscow)</i> , <b>2018</b> , 83, 87-97	2.9	11
106	Molecular Life Sciences. <b>2018</b> , 790-790		
105	The current landscape for the treatment of mitochondrial disorders. <b>2018</b> , 45, 71-77		5
104	The accumulation of assembly intermediates of the mitochondrial complex I matrix arm is reduced by limiting glucose uptake in a neuronal-like model of MELAS syndrome. <b>2018</b> , 1864, 1596-1608		9
103	Molecular Life Sciences. <b>2018</b> , 742-745		
102	Molecular Life Sciences. <b>2018</b> , 679-683		
101	Molecular Life Sciences. <b>2018</b> , 627-627		
100	Mitochondria, the NLRP3 Inflammasome, and Sirtuins in Type 2 Diabetes: New Therapeutic Targets. <b>2018</b> , 29, 749-791		43
99	Signature of positive selection in mitochondrial DNA in Cetartiodactyla. <b>2018</b> , 93, 65-73		12

98	Organelle DNA degradation contributes to the efficient use of phosphate in seed plants. <b>2018</b> , 4, 1044-1055	16
97	Biparental Inheritance of Mitochondrial DNA in Humans. <b>2018</b> , 115, 13039-13044	216
96	The first complete mitochondrial genome of the Mariana Trench (Asteroidea: Brisingida: Brisingidae) allows insights into the deep-sea adaptive evolution of Brisingida. <i>Ecology and Evolution</i> , <b>2018</b> , 8, 10673-10686	2.8 7
95	Mitochondrial - nuclear genetic interaction modulates whole body metabolism, adiposity and gene expression in vivo. <i>EBioMedicine</i> , <b>2018</b> , 36, 316-328	8.8 27
94	OCR-Stats: Robust estimation and statistical testing of mitochondrial respiration activities using Seahorse XF Analyzer. <i>PLoS ONE</i> , <b>2018</b> , 13, e0199938	3.7 28
93	Integrating the DNA damage and protein stress responses during cancer development and treatment. <i>Journal of Pathology</i> , <b>2018</b> , 246, 12-40	9.4 54
92	Germline and somatic mtDNA mutations in mouse aging. <i>PLoS ONE</i> , <b>2018</b> , 13, e0201304	3.7 15
91	mitoTev-TALE: a monomeric DNA editing enzyme to reduce mutant mitochondrial DNA levels. <i>EMBO Molecular Medicine</i> , <b>2018</b> , 10,	12 39
90	Signals of positive selection in mitochondrial protein-coding genes of woolly mammoth: Adaptation to extreme environments?. <i>Ecology and Evolution</i> , <b>2019</b> , 9, 6821-6832	2.8 3
89	Cardiovascular Manifestations of Mitochondrial Disease. <i>Biology</i> , <b>2019</b> , 8,	4.9 7
88	A Natural mtDNA Polymorphism in Complex III Is a Modifier of Healthspan in Mice. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3 7
87	Assessing the fitness consequences of mitonuclear interactions in natural populations. <i>Biological Reviews</i> , <b>2019</b> , 94, 1089-1104	13.5 55
86	Population structure inferred from COI data analyses for <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) in the Karnataka region of India. <i>Oriental Insects</i> , <b>2020</b> , 54, 41-57	0.3 1
85	The selective constraints of ecological specialization in mustelidae on mitochondrial genomes. <i>Mammal Research</i> , <b>2020</b> , 65, 85-92	1.8 3
84	Cell-free mitochondrial DNA increases in maternal circulation during healthy pregnancy: a prospective, longitudinal study. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 318, R445-R452	3.2 7
83	SlWHY2 interacts with SIRECA2 to maintain mitochondrial function under drought stress in tomato. <i>Plant Science</i> , <b>2020</b> , 301, 110674	5.3 5
82	Population Analysis and Evolution of Mitogenomes. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9 0
81	Mitochondrial DNA mutation exacerbates female reproductive aging via impairment of the NADH/NAD redox. <i>Aging Cell</i> , <b>2020</b> , 19, e13206	9.9 19

80	Peculiarities of the Functional State of Mitochondria of Peripheral Blood Leukocytes in Patients with Acute Myocardial Infarction. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2020</b> , 169, 435-437	0.8	
79	Single-fiber studies for assigning pathogenicity of eight mitochondrial DNA variants associated with mitochondrial diseases. <i>Human Mutation</i> , <b>2020</b> , 41, 1394-1406	4.7	1
78	Discordant evolution of mitochondrial and nuclear yeast genomes at population level. <i>BMC Biology</i> , <b>2020</b> , 18, 49	7.3	16
77	Mitochondrial MicroRNAs in Aging and Neurodegenerative Diseases. <i>Cells</i> , <b>2020</b> , 9,	7.9	21
76	Damage in Mitochondrial DNA Associated with Parkinson's Disease. <i>DNA and Cell Biology</i> , <b>2020</b> , 39, 1421-1430	14.3	14
75	The Role of Mitochondrial DNA Individuality in the Pathogenesis of Parkinson's Disease. <i>Russian Journal of Genetics</i> , <b>2020</b> , 56, 402-409	0.6	4
74	The biology of Lonp1: More than a mitochondrial protease. <i>International Review of Cell and Molecular Biology</i> , <b>2020</b> , 354, 1-61	6	13
73	Effect of Chicken Bone Extracts on Metabolic and Mitochondrial Functions of K562 Cell Line. <i>Pharmaceuticals</i> , <b>2020</b> , 13,	5.2	1
72	Biocomplexity and Fractality in the Search of Biomarkers of Aging and Pathology: Mitochondrial DNA Profiling of Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
71	The first complete mitochondrial genome sequence of the endangered mountain anoa ( <i>Bubalus quarlesi</i> ) (Artiodactyla: Bovidae) and phylogenetic analysis. <i>Journal of Asia-Pacific Biodiversity</i> , <b>2020</b> , 13, 123-133	0.6	1
70	Mitochondria and T2D: Role of Autophagy, ER Stress, and Inflammasome. <i>Trends in Endocrinology and Metabolism</i> , <b>2020</b> , 31, 725-741	8.8	37
69	Causes and consequences of sperm mitochondrial dysfunction. <i>Andrologia</i> , <b>2021</b> , 53, e13666	2.4	14
68	Germline transmission of donor, maternal and paternal mtDNA in primates. <i>Human Reproduction</i> , <b>2021</b> , 36, 493-505	5.7	8
67	Mitochondrial toxicity induced by plant molecules. <b>2021</b> , 709-727		
66	DNA transcription and translation in mitochondria. <b>2021</b> , 91-104		
65	Mitochondrial gene expression in single cells shape pancreatic beta cells' sub-populations and explain variation in insulin pathway. <i>Scientific Reports</i> , <b>2021</b> , 11, 466	4.9	3
64	The effect of mitochondrial DNA polymorphisms on cattle reproduction. <i>Molecular Biology Reports</i> , <b>2021</b> , 48, 1005-1008	2.8	
63	Transposable Element Mobilization in Interspecific Yeast Hybrids. <i>Genome Biology and Evolution</i> , <b>2021</b> , 13,	3.9	9

62	Mitogenomics of the endemic Ethiopian rats: looking for footprints of adaptive evolution in sky islands. <i>Mitochondrion</i> , <b>2021</b> , 57, 182-191	4.9	2
61	Far-infrared rays enhance mitochondrial biogenesis and expression under low glucose conditions in rat skeletal muscle cells. <i>Korean Journal of Physiology and Pharmacology</i> , <b>2021</b> , 25, 167-175	1.8	
60	Developing mitochondrial DNA field-compatible tests. <i>Critical Reviews in Environmental Science and Technology</i> , 1-41	11.1	1
59	Clinical Insights into Mitochondrial Neurodevelopmental and Neurodegenerative Disorders: Their Biosignatures from Mass Spectrometry-Based Metabolomics. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	2
58	Looking Back to the Future of Mitochondrial Research. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 682467	4.6	1
57	Expression and analysis of the SAM-dependent RNA methyltransferase Rsm22 from <i>Saccharomyces cerevisiae</i> . <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2021</b> , 77, 840-853	5.5	0
56	Mitochondrial Disorders in Alzheimer's Disease. <i>Biochemistry (Moscow)</i> , <b>2021</b> , 86, 667-679	2.9	1
55	mtDNA Heteroplasmy: Origin, Detection, Significance, and Evolutionary Consequences. <i>Life</i> , <b>2021</b> , 11,	3	5
54	 <i>Biochemistry</i> , <b>2021</b> , 86, 816-830	0.3	
53	Mitochondrial function in development and disease. <i>DMM Disease Models and Mechanisms</i> , <b>2021</b> , 14,	4.1	11
52	Maternal Phylogenetic Relationships and Genetic Variation among Rare, Phenotypically Similar Donkey Breeds. <i>Genes</i> , <b>2021</b> , 12,	4.2	1
51	Defective mitophagy and synaptic degeneration in Alzheimer's disease: Focus on aging, mitochondria and synapse. <i>Free Radical Biology and Medicine</i> , <b>2021</b> , 172, 652-667	7.8	18
50	Quercetin Attenuates High-Fat Diet-Induced Excessive Fat Deposition of Spotted Seabass ( <i>Lateolabrax maculatus</i> ) Through the Regulatory for Mitochondria and Endoplasmic Reticulum. <i>Frontiers in Marine Science</i> , <b>2021</b> , 8,	4.5	2
49	Biological evaluation of mitochondria targeting small molecules as potent anticancer drugs. <i>Bioorganic Chemistry</i> , <b>2021</b> , 114, 105055	5.1	1
48	NLRP3 inflammasome and IL-1 $\beta$ pathway in type 2 diabetes and atherosclerosis: Friend or foe?. <i>Pharmacological Research</i> , <b>2021</b> , 173, 105885	10.2	7
47	Direct contribution of the maternal genotype on the transgenerational salinity tolerance in wheat ( <i>Triticum aestivum</i> L.). <i>Environmental and Experimental Botany</i> , <b>2021</b> , 192, 104648	5.9	1
46	Translation of bioenergetics therapies. <b>2021</b> , 489-507		1
45	Impaired mitochondrial bioenergetics and signaling pathways. <b>2021</b> , 61-79		

44	Oxidative Stress in Bipolar Disorder. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , <b>2015</b> , 73-87		1
43	Collection of isolated cells for studying mitochondrial DNA mutations within individual cells. <i>Methods in Molecular Biology</i> , <b>2009</b> , 554, 315-27	1.4	2
42	Mitochondrial Disorders. <b>2013</b> , 2269-2311		5
41	Selective toxicity of antibacterial agents-still a valid concept or do we miss chances and ignore risks?. <i>Infection</i> , <b>2021</b> , 49, 29-56	5.8	6
40	Mito-nuclear effects uncovered in admixed populations.		1
39	A mitochondrial bioenergetic etiology of disease. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 1405-12	15.9	195
38	Gene expression patterns of oxidative phosphorylation complex I subunits are organized in clusters. <i>PLoS ONE</i> , <b>2010</b> , 5, e9985	3.7	25
37	Prediction of mycoplasma hominis proteins targeting in mitochondria and cytoplasm of host cells and their implication in prostate cancer etiology. <i>Oncotarget</i> , <b>2017</b> , 8, 30830-30843	3.3	20
36	[Sequencing and analysis of the complete mitochondrial genome of the King Cobra, Ophiophagus hannah (Serpents: Elapidae)]. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , <b>2010</b> , 32, 719-25	1.4	2
35	Mitochondrial DNA in human identification: a review. <i>PeerJ</i> , <b>2019</b> , 7, e7314	3.1	31
34	Gaining Insight into Mitochondrial Genetic Variation and Downstream Pathophysiology: What Can iPSCs Do?. <i>Genes</i> , <b>2021</b> , 12,	4.2	0
33	Mitochondrial Genome: Evolution.		
32	Assisted Reproductive Technologies: The Potential to Prevent the Transmission of Mutant mtDNA from One Generation to the Next. <b>2013</b> , 157-183		
31	Role of Mitochondria in Head and Neck Cancer. <b>2013</b> , 949-975		
30	Hereditary constitution analysis of Shaolingyuan ancient human in Xiān, northwestern China. <i>Natural Science</i> , <b>2013</b> , 05, 947-954	0.5	
29	Respiration   Bioenergetics and the Mitochondrial Genome. <b>2013</b> , 448-454		
28	Molecular Life Sciences. <b>2014</b> , 1-7		
27	Experimental support that natural selection has shaped the latitudinal distribution of mitochondrial haplotypes in Australian <i>Drosophila melanogaster</i> .		



26	OCR-Stats: Robust estimation and statistical testing of mitochondrial respiration activities using Seahorse XF Analyzer.		
25	Molecular Life Sciences. <b>2018</b> , 746-751		
24	Discordant evolution of mitochondrial and nuclear yeast genomes at population level.		
23	Maternal phylogenetic relationships and genetic variation among rare similar phenotype donkey breeds.		
22	Transposable element mobilization in interspecific yeast hybrids.		3
21	Heteroplasmy variability in individuals with biparentally inherited mitochondrial DNA.		0
20	The Origin of Mitochondria and their Role in the Evolution of Life and Human Health. <i>Acta Biomedica Scientifica</i> , <b>2020</b> , 5, 12-25	0.3	0
19	Mitochondrial cardiomyopathy: pathophysiology, diagnosis, and management. <i>Texas Heart Institute Journal</i> , <b>2013</b> , 40, 385-94	0.8	103
18	Mitochondrial Disorders. <b>2022</b> , 2561-2602		
17	Transcriptional changes in Plasmodium falciparum upon conditional knock down of mitochondrial ribosomal proteins RSM22 and L23.		1
16	Maternally transmitted nonsyndromic hearing impairment may be associated with mitochondrial tRNA 5601C>T and tRNA 12311T>C mutations.. <i>Journal of Clinical Laboratory Analysis</i> , <b>2022</b> , e24298	3	2
15	Mitochondrial Retinopathies.. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 23,	6.3	4
14	Unlocking the Complexity of Mitochondrial DNA: A Key to Understanding Neurodegenerative Disease Caused by Injury.. <i>Cells</i> , <b>2021</b> , 10,	7.9	2
13	Mitochondrial genome variations, mitochondrial-nuclear compatibility, and their association with metabolic diseases.. <i>Obesity</i> , <b>2022</b> ,	8	
12	Next-Generation Sequencing to Characterize Mitochondrial Genomic DNA Heteroplasmy.. <i>Current Protocols</i> , <b>2022</b> , 2, e412		0
11	Heterogeneity of the Mitochondrial Population in Cells of Plants and Other Organisms. <i>Molecular Biology</i> , <b>2022</b> , 56, 339-362	1.2	
10	Role of Mitochondria Transfer in Infertility: A Commentary. <i>Cells</i> , <b>2022</b> , 11, 1867	7.9	1
9	Mitochondrial Genetic and Epigenetic Regulations in Cancer: Therapeutic Potential. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 7897	6.3	2

8	Glutamate-Induced Deregulation of Krebs Cycle in Mitochondrial Encephalopathy Lactic Acidosis Syndrome Stroke-Like Episodes (MELAS) Syndrome Is Alleviated by Ketone Body Exposure. <i>Biomedicines</i> , <b>2022</b> , 10, 1665	4.8	1
7	Divergent evolution of mitogenomics in Cetartiodactyla niche adaptation.		0
6	Mitochondrial metabolic determinants of multiple myeloma growth, survival, and therapy efficacy. <b>2022</b> , 12,		1
5	Transcriptional changes in <i>Plasmodium falciparum</i> upon conditional knock down of mitochondrial ribosomal proteins RSM22 and L23. <b>2022</b> , 17, e0274993		0
4	Mitochondrial transplantation: opportunities and challenges in the treatment of obesity, diabetes, and nonalcoholic fatty liver disease. <b>2022</b> , 20,		0
3	Association between Parkinson's Disease and Diabetes Mellitus: From Epidemiology, Pathophysiology and Prevention to Treatment. <b>2022</b> , 13, 1591		1
2	Identifying antibiotics based on structural differences in the conserved allosteric site from mitochondrial heme-copper oxidases. <b>2022</b> , 13,		0
1	Comparative analysis of mitochondrial genomes reveals marine adaptation in seagrasses. <b>2022</b> , 23,		0