

Patrick Chinnery

List of Publications by Year in descending order

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Version: 2024-02-01

291
papers

31,113
citations

4370

86
h-index

5364

164
g-index

303
all docs

303
docs citations

303
times ranked

28334
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Reanalysis and revision of the Cambridge reference sequence for human mitochondrial DNA. <i>Nature Genetics</i> , 1999, 23, 147-147. | 9.4 | 2,800 |
| 2 | Mitochondrial diseases. <i>Nature Reviews Disease Primers</i> , 2016, 2, 16080. | 18.1 | 1,001 |
| 3 | Prevalence of nuclear and mitochondrial <scp>DNA</scp> mutations related to adult mitochondrial disease. <i>Annals of Neurology</i> , 2015, 77, 753-759. | 2.8 | 706 |
| 4 | The Human Phenotype Ontology in 2017. <i>Nucleic Acids Research</i> , 2017, 45, D865-D876. | 6.5 | 699 |
| 5 | The dynamics of mitochondrial DNA heteroplasmy: implications for human health and disease. <i>Nature Reviews Genetics</i> , 2015, 16, 530-542. | 7.7 | 679 |
| 6 | A Unique Gene Regulatory Network Resets the Human Germline Epigenome for Development. <i>Cell</i> , 2015, 161, 1453-1467. | 13.5 | 556 |
| 7 | Prevalence of mitochondrial DNA disease in adults. <i>Annals of Neurology</i> , 2008, 63, 35-39. | 2.8 | 540 |
| 8 | Pathogenic Mitochondrial DNA Mutations Are Common in the General Population. <i>American Journal of Human Genetics</i> , 2008, 83, 254-260. | 2.6 | 534 |
| 9 | Disturbed mitochondrial dynamics and neurodegenerative disorders. <i>Nature Reviews Neurology</i> , 2015, 11, 11-24. | 4.9 | 533 |
| 10 | Mitochondrial optic neuropathies – Disease mechanisms and therapeutic strategies. <i>Progress in Retinal and Eye Research</i> , 2011, 30, 81-114. | 7.3 | 514 |
| 11 | A randomized placebo-controlled trial of idebenone in Leber’s hereditary optic neuropathy. <i>Brain</i> , 2011, 134, 2677-2686. | 3.7 | 461 |
| 12 | Mitochondrial DNA mutations in human colonic crypt stem cells. <i>Journal of Clinical Investigation</i> , 2003, 112, 1351-1360. | 3.9 | 454 |
| 13 | A reduction of mitochondrial DNA molecules during embryogenesis explains the rapid segregation of genotypes. <i>Nature Genetics</i> , 2008, 40, 249-254. | 9.4 | 438 |
| 14 | Pronuclear transfer in human embryos to prevent transmission of mitochondrial DNA disease. <i>Nature</i> , 2010, 465, 82-85. | 13.7 | 421 |
| 15 | Mammalian mitochondrial genetics: heredity, heteroplasmy and disease. <i>Trends in Genetics</i> , 1997, 13, 450-455. | 2.9 | 415 |
| 16 | The Epidemiology of Leber Hereditary Optic Neuropathy in the North East of England. <i>American Journal of Human Genetics</i> , 2003, 72, 333-339. | 2.6 | 404 |
| 17 | Leber hereditary optic neuropathy. <i>Journal of Medical Genetics</i> , 2002, 39, 162-169. | 1.5 | 393 |
| 18 | Multi-system neurological disease is common in patients with OPA1 mutations. <i>Brain</i> , 2010, 133, 771-786. | 3.7 | 385 |

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|----|--|------|-----------|
| 19 | The epidemiology of pathogenic mitochondrial DNA mutations. <i>Annals of Neurology</i> , 2000, 48, 188-193. | 2.8 | 381 |
| 20 | Mutation of OPA1 causes dominant optic atrophy with external ophthalmoplegia, ataxia, deafness and multiple mitochondrial DNA deletions: a novel disorder of mtDNA maintenance. <i>Brain</i> , 2008, 131, 329-337. | 3.7 | 381 |
| 21 | Characterizing mild cognitive impairment in incident Parkinson disease. <i>Neurology</i> , 2014, 82, 308-316. | 1.5 | 359 |
| 22 | 100,000 Genomes Pilot on Rare-Disease Diagnosis in Health Care – Preliminary Report. <i>New England Journal of Medicine</i> , 2021, 385, 1868-1880. | 13.9 | 352 |
| 23 | Universal heteroplasmy of human mitochondrial DNA. <i>Human Molecular Genetics</i> , 2013, 22, 384-390. | 1.4 | 344 |
| 24 | Whole-genome sequencing of patients with rare diseases in a national health system. <i>Nature</i> , 2020, 583, 96-102. | 13.7 | 338 |
| 25 | Clinical Expression of Leber Hereditary Optic Neuropathy Is Affected by the Mitochondrial DNA Haplogroup Background. <i>American Journal of Human Genetics</i> , 2007, 81, 228-233. | 2.6 | 331 |
| 26 | The epidemiology of mitochondrial disorders – past, present and future. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1659, 115-120. | 0.5 | 325 |
| 27 | Molecular pathology of MELAS and MERRF. The relationship between mutation load and clinical phenotypes. <i>Brain</i> , 1997, 120, 1713-1721. | 3.7 | 319 |
| 28 | Origins and functional consequences of somatic mitochondrial DNA mutations in human cancer. <i>ELife</i> , 2014, 3, . | 2.8 | 318 |
| 29 | Use of Whole-Exome Sequencing to Determine the Genetic Basis of Multiple Mitochondrial Respiratory Chain Complex Deficiencies. <i>JAMA - Journal of the American Medical Association</i> , 2014, 312, 68. | 3.8 | 304 |
| 30 | Random Intracellular Drift Explains the Clonal Expansion of Mitochondrial DNA Mutations with Age. <i>American Journal of Human Genetics</i> , 2001, 68, 802-806. | 2.6 | 289 |
| 31 | Mitochondrial genetics. <i>British Medical Bulletin</i> , 2013, 106, 135-159. | 2.7 | 275 |
| 32 | Mitochondrial dysfunction in aging: Much progress but many unresolved questions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1347-1353. | 0.5 | 267 |
| 33 | Selective inhibition of mutant human mitochondrial DNA replication in vitro by peptide nucleic acids. <i>Nature Genetics</i> , 1997, 15, 212-215. | 9.4 | 252 |
| 34 | Treatment for mitochondrial disorders. <i>The Cochrane Library</i> , 2012, , CD004426. | 1.5 | 244 |
| 35 | Efficient mitochondrial biogenesis drives incomplete penetrance in Leber’s hereditary optic neuropathy. <i>Brain</i> , 2014, 137, 335-353. | 3.7 | 229 |
| 36 | The inheritance of mitochondrial DNA heteroplasmy: random drift, selection or both?. <i>Trends in Genetics</i> , 2000, 16, 500-505. | 2.9 | 227 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | The Pedigree Rate of Sequence Divergence in the Human Mitochondrial Genome: There Is a Difference Between Phylogenetic and Pedigree Rates. <i>American Journal of Human Genetics</i> , 2003, 72, 659-670. | 2.6 | 213 |
| 38 | Accumulation of mitochondrial DNA mutations in ageing, cancer, and mitochondrial disease: is there a common mechanism?. <i>Lancet, The</i> , 2002, 360, 1323-1325. | 6.3 | 203 |
| 39 | Risk of developing a mitochondrial DNA deletion disorder. <i>Lancet, The</i> , 2004, 364, 592-596. | 6.3 | 201 |
| 40 | Mitochondrial aging is accelerated by anti-retroviral therapy through the clonal expansion of mtDNA mutations. <i>Nature Genetics</i> , 2011, 43, 806-810. | 9.4 | 201 |
| 41 | Segregation of mitochondrial DNA heteroplasmy through a developmental genetic bottleneck in human embryos. <i>Nature Cell Biology</i> , 2018, 20, 144-151. | 4.6 | 182 |
| 42 | Germline selection shapes human mitochondrial DNA diversity. <i>Science</i> , 2019, 364, . | 6.0 | 178 |
| 43 | Peptide nucleic acid delivery to human mitochondria. <i>Gene Therapy</i> , 1999, 6, 1919-1928. | 2.3 | 176 |
| 44 | Patient care standards for primary mitochondrial disease: a consensus statement from the Mitochondrial Medicine Society. <i>Genetics in Medicine</i> , 2017, 19, 1380-1397. | 1.1 | 173 |
| 45 | Relaxed Replication of mtDNA: A Model with Implications for the Expression of Disease. <i>American Journal of Human Genetics</i> , 1999, 64, 1158-1165. | 2.6 | 167 |
| 46 | The mitochondrial ND6 gene is a hot spot for mutations that cause Leber's hereditary optic neuropathy. <i>Brain</i> , 2001, 124, 209-218. | 3.7 | 167 |
| 47 | Mitochondrial DNA and survival after sepsis: a prospective study. <i>Lancet, The</i> , 2005, 366, 2118-2121. | 6.3 | 162 |
| 48 | The Prevalence and Natural History of Dominant Optic Atrophy Due to OPA1 Mutations. <i>Ophthalmology</i> , 2010, 117, 1538-1546.e1. | 2.5 | 162 |
| 49 | New treatments for mitochondrial disease—no time to drop our standards. <i>Nature Reviews Neurology</i> , 2013, 9, 474-481. | 4.9 | 157 |
| 50 | Mutations in the SPC7 gene cause chronic progressive external ophthalmoplegia through disordered mitochondrial DNA maintenance. <i>Brain</i> , 2014, 137, 1323-1336. | 3.7 | 151 |
| 51 | Random Genetic Drift Determines the Level of Mutant mtDNA in Human Primary Oocytes. <i>American Journal of Human Genetics</i> , 2001, 68, 533-536. | 2.6 | 147 |
| 52 | Epigenetics, epidemiology and mitochondrial DNA diseases. <i>International Journal of Epidemiology</i> , 2012, 41, 177-187. | 0.9 | 146 |
| 53 | Mitochondria. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003, 74, 1188-1199. | 0.9 | 142 |
| 54 | Extreme heterogeneity of human mitochondrial DNA from organelles to populations. <i>Nature Reviews Genetics</i> , 2021, 22, 106-118. | 7.7 | 139 |

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|----|---|-----|-----------|
| 55 | Can mitochondrial DNA mutations cause sperm dysfunction?. <i>Molecular Human Reproduction</i> , 2002, 8, 719-721. | 1.3 | 138 |
| 56 | The spectrum of hearing loss due to mitochondrial DNA defects. <i>Brain</i> , 2000, 123, 82-92. | 3.7 | 132 |
| 57 | Recent Mitochondrial DNA Mutations Increase the Risk of Developing Common Late-Onset Human Diseases. <i>PLoS Genetics</i> , 2014, 10, e1004369. | 1.5 | 131 |
| 58 | Leber hereditary optic neuropathy: Does heteroplasmy influence the inheritance and expression of the G11778A mitochondrial DNA mutation?. <i>American Journal of Medical Genetics Part A</i> , 2001, 98, 235-243. | 2.4 | 130 |
| 59 | Two-stage association study and meta-analysis of mitochondrial DNA variants in Parkinson disease. <i>Neurology</i> , 2013, 80, 2042-2048. | 1.5 | 129 |
| 60 | Variation in germline mtDNA heteroplasmy is determined prenatally but modified during subsequent transmission. <i>Nature Genetics</i> , 2012, 44, 1282-1285. | 9.4 | 128 |
| 61 | Allogeneic haematopoietic stem cell transplantation for mitochondrial neurogastrointestinal encephalomyopathy. <i>Brain</i> , 2015, 138, 2847-2858. | 3.7 | 128 |
| 62 | Treatment strategies for inherited optic neuropathies: past, present and future. <i>Eye</i> , 2014, 28, 521-537. | 1.1 | 127 |
| 63 | Genetic impact on cognition and brain function in newly diagnosed Parkinson's disease: ICICLE-PD study. <i>Brain</i> , 2014, 137, 2743-2758. | 3.7 | 127 |
| 64 | Mitochondrial disease in adults: A scale to monitor progression and treatment. <i>Neurology</i> , 2006, 66, 1932-1934. | 1.5 | 125 |
| 65 | Mutations in GTPBP3 Cause a Mitochondrial Translation Defect Associated with Hypertrophic Cardiomyopathy, Lactic Acidosis, and Encephalopathy. <i>American Journal of Human Genetics</i> , 2014, 95, 708-720. | 2.6 | 123 |
| 66 | EXOSC8 mutations alter mRNA metabolism and cause hypomyelination with spinal muscular atrophy and cerebellar hypoplasia. <i>Nature Communications</i> , 2014, 5, 4287. | 5.8 | 120 |
| 67 | Mitochondrial DNA mutations in neurodegeneration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1401-1411. | 0.5 | 120 |
| 68 | Exome sequencing in undiagnosed inherited and sporadic ataxias. <i>Brain</i> , 2015, 138, 276-283. | 3.7 | 120 |
| 69 | Riboflavin-Responsive and -Non-responsive Mutations in FAD Synthase Cause Multiple Acyl-CoA Dehydrogenase and Combined Respiratory-Chain Deficiency. <i>American Journal of Human Genetics</i> , 2016, 98, 1130-1145. | 2.6 | 118 |
| 70 | Analysis of European mtDNAs for Recombination. <i>American Journal of Human Genetics</i> , 2001, 68, 145-153. | 2.6 | 116 |
| 71 | Mitochondrial DNA and disease. <i>Lancet, The</i> , 1999, 354, S17-S21. | 6.3 | 114 |
| 72 | Titin mutation segregates with hereditary myopathy with early respiratory failure. <i>Brain</i> , 2012, 135, 1695-1713. | 3.7 | 113 |

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|----|---|-----|-----------|
| 73 | Selection against Pathogenic mtDNA Mutations in a Stem Cell Population Leads to the Loss of the 3243A→G Mutation in Blood. <i>American Journal of Human Genetics</i> , 2008, 82, 333-343. | 2.6 | 112 |
| 74 | Molecular basis of infantile reversible cytochrome c oxidase deficiency myopathy. <i>Brain</i> , 2009, 132, 3165-3174. | 3.7 | 112 |
| 75 | Defective i6A37 Modification of Mitochondrial and Cytosolic tRNAs Results from Pathogenic Mutations in TRIT1 and Its Substrate tRNA. <i>PLoS Genetics</i> , 2014, 10, e1004424. | 1.5 | 112 |
| 76 | Mitochondrial disease in adults: what's old and what's new?. <i>EMBO Molecular Medicine</i> , 2015, 7, 1503-1512. | 3.3 | 110 |
| 77 | Reduced cerebrospinal fluid mitochondrial DNA is a biomarker for early-stage Parkinson's disease. <i>Annals of Neurology</i> , 2015, 78, 1000-1004. | 2.8 | 106 |
| 78 | The epidemiology of pathogenic mitochondrial DNA mutations. <i>Annals of Neurology</i> , 2000, 48, 188-93. | 2.8 | 103 |
| 79 | Mitochondrial DNA haplogroups and susceptibility to AD and dementia with Lewy bodies. <i>Neurology</i> , 2000, 55, 302-304. | 1.5 | 100 |
| 80 | The Power to Detect Disease Associations with Mitochondrial DNA Haplogroups. <i>American Journal of Human Genetics</i> , 2006, 78, 713-720. | 2.6 | 100 |
| 81 | Clinical features of MS associated with Leber hereditary optic neuropathy mtDNA mutations. <i>Neurology</i> , 2013, 81, 2073-2081. | 1.5 | 100 |
| 82 | PGD and heteroplasmic mitochondrial DNA point mutations: a systematic review estimating the chance of healthy offspring. <i>Human Reproduction Update</i> , 2012, 18, 341-349. | 5.2 | 96 |
| 83 | Synaptotagmin 2 Mutations Cause an Autosomal-Dominant Form of Lambert-Eaton Myasthenic Syndrome and Nonprogressive Motor Neuropathy. <i>American Journal of Human Genetics</i> , 2014, 95, 332-339. | 2.6 | 96 |
| 84 | OPA1 mutations cause cytochrome c oxidase deficiency due to loss of wild-type mtDNA molecules. <i>Human Molecular Genetics</i> , 2010, 19, 3043-3052. | 1.4 | 95 |
| 85 | Nonrandom tissue distribution of mutant mtDNA. <i>American Journal of Medical Genetics Part A</i> , 1999, 85, 498-501. | 2.4 | 90 |
| 86 | Point Mutations of the mtDNA Control Region in Normal and Neurodegenerative Human Brains. <i>American Journal of Human Genetics</i> , 2001, 68, 529-532. | 2.6 | 90 |
| 87 | HIV Treatment and Associated Mitochondrial Pathology. <i>Toxicologic Pathology</i> , 2014, 42, 811-822. | 0.9 | 90 |
| 88 | Recessive Mutations in TRMT10C Cause Defects in Mitochondrial RNA Processing and Multiple Respiratory Chain Deficiencies. <i>American Journal of Human Genetics</i> , 2016, 98, 993-1000. | 2.6 | 89 |
| 89 | Mitochondrial DNA haplogroups and risk of transient ischaemic attack and ischaemic stroke: a genetic association study. <i>Lancet Neurology</i> , The, 2010, 9, 498-503. | 4.9 | 88 |
| 90 | Quality of Life in Patients with Leber Hereditary Optic Neuropathy. , 2009, 50, 3112. | | 87 |

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|-----|--|-----|-----------|
| 91 | <i>SPG7</i> mutations are a common cause of undiagnosed ataxia. <i>Neurology</i> , 2015, 84, 1174-1176. | 1.5 | 87 |
| 92 | Late-onset axial jerky dystonia due to the DYT1 deletion. <i>Movement Disorders</i> , 2002, 17, 196-198. | 2.2 | 86 |
| 93 | Homozygous deletion in <i>MICU1</i> presenting with fatigue and lethargy in childhood. <i>Neurology: Genetics</i> , 2016, 2, e59. | 0.9 | 86 |
| 94 | Hypomorphic mutations in POLR3A are a frequent cause of sporadic and recessive spastic ataxia. <i>Brain</i> , 2017, 140, 1561-1578. | 3.7 | 85 |
| 95 | Amyloid- β^2 accumulation in the CNS in human growth hormone recipients in the UK. <i>Acta Neuropathologica</i> , 2017, 134, 221-240. | 3.9 | 85 |
| 96 | The mitochondrial DNA genetic bottleneck: inheritance and beyond. <i>Essays in Biochemistry</i> , 2018, 62, 225-234. | 2.1 | 85 |
| 97 | TRMT5 Mutations Cause a Defect in Post-transcriptional Modification of Mitochondrial tRNA Associated with Multiple Respiratory-Chain Deficiencies. <i>American Journal of Human Genetics</i> , 2015, 97, 319-328. | 2.6 | 83 |
| 98 | 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 |
| 99 | Genetic heterogeneity of motor neuropathies. <i>Neurology</i> , 2017, 88, 1226-1234. | 1.5 | 81 |
| 100 | Molecular pathogenesis of polymerase gamma-related neurodegeneration. <i>Annals of Neurology</i> , 2014, 76, 66-81. | 2.8 | 77 |
| 101 | Genotypes from patients indicate no paternal mitochondrial DNA contribution. <i>Annals of Neurology</i> , 2003, 54, 521-524. | 2.8 | 76 |
| 102 | Mitochondrial Disease Sequence Data Resource (MSeqDR): A global grass-roots consortium to facilitate deposition, curation, annotation, and integrated analysis of genomic data for the mitochondrial disease clinical and research communities. <i>Molecular Genetics and Metabolism</i> , 2015, 114, 388-396. | 0.5 | 76 |
| 103 | Nuclear-mitochondrial DNA segments resemble paternally inherited mitochondrial DNA in humans. <i>Nature Communications</i> , 2020, 11, 1740. | 5.8 | 75 |
| 104 | TIA1 variant drives myodegeneration in multisystem proteinopathy with SQSTM1 mutations. <i>Journal of Clinical Investigation</i> , 2018, 128, 1164-1177. | 3.9 | 75 |
| 105 | Whole genome sequencing for the diagnosis of neurological repeat expansion disorders in the UK: a retrospective diagnostic accuracy and prospective clinical validation study. <i>Lancet Neurology</i> , The, 2022, 21, 234-245. | 4.9 | 74 |
| 106 | Retrospective natural history of thymidine kinase 2 deficiency. <i>Journal of Medical Genetics</i> , 2018, 55, 515-521. | 1.5 | 73 |
| 107 | Mitochondrial Diseases: A Diagnostic Revolution. <i>Trends in Genetics</i> , 2020, 36, 702-717. | 2.9 | 73 |
| 108 | Depletion of mitochondrial DNA in leucocytes harbouring the 3243A->G mtDNA mutation. <i>Journal of Medical Genetics</i> , 2006, 44, 69-74. | 1.5 | 72 |

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|-----|---|-----|-----------|
| 109 | The Distribution of Mitochondrial DNA Heteroplasmy Due to Random Genetic Drift. <i>American Journal of Human Genetics</i> , 2008, 83, 582-593. | 2.6 | 72 |
| 110 | An atlas of mitochondrial DNA genotype-phenotype associations in the UK Biobank. <i>Nature Genetics</i> , 2021, 53, 982-993. | 9.4 | 72 |
| 111 | Titin founder mutation is a common cause of myofibrillar myopathy with early respiratory failure. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, 331-338. | 0.9 | 71 |
| 112 | Adults with RRM2B-related mitochondrial disease have distinct clinical and molecular characteristics. <i>Brain</i> , 2012, 135, 3392-3403. | 3.7 | 70 |
| 113 | Clinical, Genetic, and Radiological Features of Extrapyrimal Movement Disorders in Mitochondrial Disease. <i>JAMA Neurology</i> , 2016, 73, 668. | 4.5 | 69 |
| 114 | Nuclear factors involved in mitochondrial translation cause a subgroup of combined respiratory chain deficiency. <i>Brain</i> , 2011, 134, 183-195. | 3.7 | 66 |
| 115 | 155th ENMC workshop: Polymerase gamma and disorders of mitochondrial DNA synthesis, 21-23 September 2007, Naarden, The Netherlands. <i>Neuromuscular Disorders</i> , 2008, 18, 259-267. | 0.3 | 65 |
| 116 | Accurate mitochondrial DNA sequencing using off-target reads provides a single test to identify pathogenic point mutations. <i>Genetics in Medicine</i> , 2014, 16, 962-971. | 1.1 | 64 |
| 117 | Clinical, pathological and functional characterization of riboflavin-responsive neuropathy. <i>Brain</i> , 2017, 140, 2820-2837. | 3.7 | 64 |
| 118 | Neuroferritinopathy in a French family with late onset dominant dystonia. <i>Journal of Medical Genetics</i> , 2003, 40, 69e-69. | 1.5 | 63 |
| 119 | Fall in circulating mononuclear cell mitochondrial DNA content in human sepsis. <i>Intensive Care Medicine</i> , 2010, 36, 956-962. | 3.9 | 62 |
| 120 | Extreme-Depth Re-sequencing of Mitochondrial DNA Finds No Evidence of Paternal Transmission in Humans. <i>PLoS Genetics</i> , 2015, 11, e1005040. | 1.5 | 62 |
| 121 | Childhood-onset Leber hereditary optic neuropathy. <i>British Journal of Ophthalmology</i> , 2017, 101, 1505-1509. | 2.1 | 62 |
| 122 | The Challenges of Mitochondrial Replacement. <i>PLoS Genetics</i> , 2014, 10, e1004315. | 1.5 | 61 |
| 123 | Somatic mtDNA variation is an important component of Parkinson's disease. <i>Neurobiology of Aging</i> , 2016, 38, 217.e1-217.e6. | 1.5 | 61 |
| 124 | Treatment of mitochondrial disease. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 195-205. | 1.0 | 59 |
| 125 | Emerging therapies for mitochondrial disorders. <i>Brain</i> , 2016, 139, 1633-1648. | 3.7 | 59 |
| 126 | Mitochondrial medicine. <i>QJM - Monthly Journal of the Association of Physicians</i> , 1997, 90, 657-667. | 0.2 | 59 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Biallelic C1QBP Mutations Cause Severe Neonatal-, Childhood-, or Later-Onset Cardiomyopathy Associated with Combined Respiratory-Chain Deficiencies. <i>American Journal of Human Genetics</i> , 2017, 101, 525-538. | 2.6 | 58 |
| 128 | Dominant Optic Atrophy: Novel OPA1 Mutations and Revised Prevalence Estimates. <i>Ophthalmology</i> , 2013, 120, 1712-1712.e1. | 2.5 | 57 |
| 129 | Mitochondrial heteroplasmy beyond the oocyte bottleneck. <i>Seminars in Cell and Developmental Biology</i> , 2020, 97, 156-166. | 2.3 | 57 |
| 130 | Assessing mitochondrial heteroplasmy using next generation sequencing: A note of caution. <i>Mitochondrion</i> , 2019, 46, 302-306. | 1.6 | 56 |
| 131 | Recessive Mutations in RTN4IP1 Cause Isolated and Syndromic Optic Neuropathies. <i>American Journal of Human Genetics</i> , 2015, 97, 754-760. | 2.6 | 54 |
| 132 | High prevalence of focal and multi-focal somatic genetic variants in the human brain. <i>Nature Communications</i> , 2018, 9, 4257. | 5.8 | 54 |
| 133 | Mitochondrial DNA sequence characteristics modulate the size of the genetic bottleneck. <i>Human Molecular Genetics</i> , 2016, 25, 1031-1041. | 1.4 | 53 |
| 134 | Mitochondrial DNA haplogroups and type 2 diabetes: a study of 897 cases and 1010 controls. <i>Journal of Medical Genetics</i> , 2007, 44, e80-e80. | 1.5 | 52 |
| 135 | Altered 2-thiouridylation impairs mitochondrial translation in reversible infantile respiratory chain deficiency. <i>Human Molecular Genetics</i> , 2013, 22, 4602-4615. | 1.4 | 52 |
| 136 | Clinical pattern, mutations and in vitro residual activity in 33 patients with severe 5, 10 methylenetetrahydrofolate reductase (MTHFR) deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2016, 39, 115-124. | 1.7 | 52 |
| 137 | Mutations in mitochondrial DNA causing tubulointerstitial kidney disease. <i>PLoS Genetics</i> , 2017, 13, e1006620. | 1.5 | 52 |
| 138 | A novel mechanism causing imbalance of mitochondrial fusion and fission in human myopathies. <i>Human Molecular Genetics</i> , 2018, 27, 1186-1195. | 1.4 | 52 |
| 139 | Mitochondria in neuroinflammation " Multiple sclerosis (MS), leber hereditary optic neuropathy (LHON) and LHON-MS. <i>Neuroscience Letters</i> , 2019, 710, 132932. | 1.0 | 52 |
| 140 | Population Screening for Variant Creutzfeldt-Jakob Disease Using a Novel Blood Test. <i>JAMA Neurology</i> , 2014, 71, 421. | 4.5 | 51 |
| 141 | Somatic variants in autosomal dominant genes are a rare cause of sporadic Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2018, 14, 1632-1639. | 0.4 | 51 |
| 142 | Normokalemic periodic paralysis revisited: Does it exist?. <i>Annals of Neurology</i> , 2002, 52, 251-252. | 2.8 | 50 |
| 143 | Oldies but Goldies mtDNA Population Variants and Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2018, 12, 682. | 1.4 | 50 |
| 144 | A novel mitochondrial tRNA isoleucine gene mutation causing chronic progressive external ophthalmoplegia. <i>Neurology</i> , 1997, 49, 1166-1168. | 1.5 | 49 |

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|-----|---|-----|-----------|
| 145 | Background sequence characteristics influence the occurrence and severity of disease-causing mtDNA mutations. <i>PLoS Genetics</i> , 2017, 13, e1007126. | 1.5 | 49 |
| 146 | Mitochondrial DNA Heteroplasmy and Purifying Selection in the Mammalian Female Germ Line. <i>Development Growth and Differentiation</i> , 2018, 60, 21-32. | 0.6 | 49 |
| 147 | First-line genomic diagnosis of mitochondrial disorders. <i>Nature Reviews Genetics</i> , 2018, 19, 399-400. | 7.7 | 49 |
| 148 | Clinical mitochondrial genetics. <i>Journal of Medical Genetics</i> , 1999, 36, 425-36. | 1.5 | 48 |
| 149 | MT-ND5 Mutation Exhibits Highly Variable Neurological Manifestations at Low Mutant Load. <i>EBioMedicine</i> , 2018, 30, 86-93. | 2.7 | 47 |
| 150 | A novel mitochondrial tRNA phenylalanine mutation presenting with acute rhabdomyolysis. <i>Annals of Neurology</i> , 1997, 41, 408-410. | 2.8 | 46 |
| 151 | Inheritance of mitochondrial DNA in humans: implications for rare and common diseases. <i>Journal of Internal Medicine</i> , 2020, 287, 634-644. | 2.7 | 46 |
| 152 | Mitochondria and Hypoxia: Metabolic Crosstalk in Cell-Fate Decisions. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 249-259. | 3.1 | 45 |
| 153 | Exposure of Monocytic Cells to Lipopolysaccharide Induces Coordinated Endotoxin Tolerance, Mitochondrial Biogenesis, Mitophagy, and Antioxidant Defenses. <i>Frontiers in Immunology</i> , 2018, 9, 2217. | 2.2 | 45 |
| 154 | Metabolic effects of bezafibrate in mitochondrial disease. <i>EMBO Molecular Medicine</i> , 2020, 12, e11589. | 3.3 | 45 |
| 155 | In vitro supplementation with dAMP/dGMP leads to partial restoration of mtDNA levels in mitochondrial depletion syndromes. <i>Human Molecular Genetics</i> , 2009, 18, 1590-1599. | 1.4 | 44 |
| 156 | Subtle neurological and metabolic abnormalities in an Opa1 mouse model of autosomal dominant optic atrophy. <i>Experimental Neurology</i> , 2009, 220, 404-409. | 2.0 | 44 |
| 157 | Hereditary mtDNA Heteroplasmy: A Baseline for Aging?. <i>Cell Metabolism</i> , 2013, 18, 463-464. | 7.2 | 44 |
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