

# A Mitochondrial Etiology of Neurodegenerative Disease Disease

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Citation Report

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Mitochondria as Chi. Genetics, 2008, 179, 727-735.   | 1.2 | 125       |
| 2  | Mitochondrial DNA Haplogroups Associated with Age-Related Macular Degeneration. , 2009, 50, 2966.  |     | 117       |
| 3  | Mitochondria, Bioenergetics, and the Epigenome in Eukaryotic and Human Evolution. Cold Spring Harbor Symposia on Quantitative Biology, 2009, 74, 383-393.                              | 2.0 | 46        |
| 4  | Involvement of Mitochondrial DNA Sequence Variations and Respiratory Activity in Late Complications following Radiotherapy. Clinical Cancer Research, 2009, 15, 7352-7360.             | 3.2 | 19        |
| 5  | PDbase: a database of Parkinson's Disease-related genes and genetic variation using substantia nigra ESTs. BMC Genomics, 2009, 10, S32.  | 1.2 | 20        |
| 6  | Metabolism control by the circadian clock and vice versa. Nature Structural and Molecular Biology, 2009, 16, 462-467.  | 3.6 | 127       |
| 7  | Astrocytic Gap Junctional Communication is Reduced in Amyloid- $\beta^2$ -Treated Cultured Astrocytes, but not in Alzheimer's Disease Transgenic Mice. ASN Neuro, 2010, 2, AN20100017. | 1.5 | 25        |
| 9  | No mitochondrial DNA deletions but more D-loop point mutations in repeated pregnancy loss. Journal of Assisted Reproduction and Genetics, 2010, 27, 641-648.                           | 1.2 | 23        |
| 10 | Genotype-phenotype correlations in Leber hereditary optic neuropathy. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1119-1123.  | 0.5 | 38        |
| 11 | Mitochondrial DNA mutations in disease and aging. Environmental and Molecular Mutagenesis, 2010, 51, 440-450.  | 0.9 | 479       |
| 12 | Bioenergetics and the epigenome: Interface between the environment and genes in common diseases. Developmental Disabilities Research Reviews, 2010, 16, 114-119.                       | 2.9 | 57        |
| 13 | Maternal inheritance and mitochondrial DNA variants in familial Parkinson's disease. BMC Medical Genetics, 2010, 11, 53.   | 2.1 | 26        |
| 14 | Mitochondrial therapy for Parkinson's disease: Neuroprotective pharmacotherapy may be disease-modifying. Clinical Pharmacology: Advances and Applications, 2010, 2, 185.               | 0.8 | 7         |
| 15 | An overview of a cohort of South African patients with mitochondrial disorders. Journal of Inherited Metabolic Disease, 2010, 33, 95-104.  | 1.7 | 16        |
| 16 | Mitochondrial Energetics and Therapeutics. Annual Review of Pathology: Mechanisms of Disease, 2010, 5, 297-348.  | 9.6 | 610       |
| 17 | Energetics, epigenetics, mitochondrial genetics. Mitochondrion, 2010, 10, 12-31.   | 1.6 | 428       |
| 18 | Multiplex analysis of mitochondrial DNA pathogenic and polymorphic sequence variants. Biological Chemistry, 2010, 391, 1115-30.  | 1.2 | 8         |
| 19 | Mitochondrial Insertion-Deletion Polymorphism: Role in Disease Pathology. Genetic Testing and Molecular Biomarkers, 2011, 15, 361-364.   | 0.3 | 11        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 20 | A novel mitochondrial DNA deletion producing progressive external ophthalmoplegia associated with multiple sclerosis. <i>Journal of Clinical Neuroscience</i> , 2011, 18, 1318-1324.                         | 0.8 | 18        |
| 21 | Do Somatic Mitochondrial DNA Mutations Contribute to Parkinson's Disease?. <i>Parkinson's Disease</i> , 2011, 2011, 1-9.   | 0.6 | 12        |
| 22 | A Genome-Wide Linkage Screen in the Amish with Parkinson Disease Points to Chromosome 6. <i>Annals of Human Genetics</i> , 2011, 75, 351-358.  | 0.3 | 9         |
| 23 | OXPHOS toxicogenomics and Parkinson's disease. <i>Mutation Research - Reviews in Mutation Research</i> , 2011, 728, 98-106.  | 2.4 | 23        |
| 24 | Melatonin ameliorates neocortical neuronal dendritic impairment induced by toluene inhalation in the rat. <i>Experimental and Toxicologic Pathology</i> , 2011, 63, 467-471.                                 | 2.1 | 6         |
| 25 | Bioenergetic Origins of Complexity and Disease. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011, 76, 1-16.   | 2.0 | 113       |
| 26 | Pathways to Aging: The Mitochondrion at the Intersection of Biological and Psychosocial Sciences. <i>Journal of Aging Research</i> , 2011, 2011, 1-11.   | 0.4 | 27        |
| 27 | What is influencing the phenotype of the common homozygous polymerase- $\beta$ mutation p.Ala467Thr?. <i>Brain</i> , 2012, 135, 3614-3626.   | 3.7 | 46        |
| 28 | Ataxin-1 Poly(Q)-induced Proteotoxic Stress and Apoptosis Are Attenuated in Neural Cells by Docosahexaenoic Acid-derived Neuroprotectin D1. <i>Journal of Biological Chemistry</i> , 2012, 287, 23726-23739. | 1.6 | 28        |
| 29 | Human mitochondrial DNA: roles of inherited and somatic mutations. <i>Nature Reviews Genetics</i> , 2012, 13, 878-890.   | 7.7 | 620       |
| 30 | Global DNA methylation levels are modulated by mitochondrial DNA variants. <i>Epigenomics</i> , 2012, 4, 17-27.  | 1.0 | 117       |
| 31 | A mitochondrial etiology of Alzheimer and Parkinson disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 553-564.  | 1.1 | 268       |
| 32 | Mitochondrial DNA sequence variation in Finnish patients with matrilineal diabetes mellitus. <i>BMC Research Notes</i> , 2012, 5, 350.   | 0.6 | 20        |
| 33 | The management of gastrointestinal symptoms in Parkinson's disease. <i>Expert Review of Neurotherapeutics</i> , 2012, 12, 239-248.   | 1.4 | 28        |
| 34 | Mitochondrial genetic background plays a role in increasing risk to asthma. <i>Molecular Biology Reports</i> , 2012, 39, 4697-4708.  | 1.0 | 43        |
| 35 | 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        |
| 36 | Mitochondrial DNA Genetics and the Heteroplasmy Conundrum in Evolution and Disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a021220-a021220.  | 2.3 | 496       |
| 37 | Mitochondria, maternal inheritance, and asymmetric fitness: Why males die younger. <i>BioEssays</i> , 2013, 35, 93-99.   | 1.2 | 47        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 38 | Mitochondrial Medicine. , 2013, , 1-153.   |     | 5         |
| 39 | Bioenergetics in human evolution and disease: implications for the origins of biological complexity and the missing genetic variation of common diseases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120267. | 1.8 | 102       |
| 40 | Mitochondrial Genetic Background Modifies the Relationship between Traffic-Related Air Pollution Exposure and Systemic Biomarkers of Inflammation. PLoS ONE, 2013, 8, e64444.  | 1.1 | 46        |
| 41 | Peripheral blood mitochondrial DNA content, A10398G polymorphism, and risk of breast cancer in a Han Chinese population. Cancer Science, 2014, 105, 639-645.   | 1.7 | 25        |
| 42 | Mitochondrial DNA and traumatic brain injury. Annals of Neurology, 2014, 75, 186-195.  | 2.8 | 46        |
| 43 | Mutations that affect mitochondrial functions and their association with neurodegenerative diseases. Mutation Research - Reviews in Mutation Research, 2014, 759, 1-13.  | 2.4 | 47        |
| 44 | Mitochondrial haplogroup B increases the risk for hearing loss among the Eastern Asian pedigrees carrying 12S rRNA 1555A&gt;G mutation. Protein and Cell, 2015, 6, 844-848.  | 4.8 | 12        |
| 45 | Mitochondria in health, aging and diseases: the epigenetic perspective. Biogerontology, 2015, 16, 569-585.   | 2.0 | 57        |
| 46 | Current state of research in ethnogenomics: Genome-wide analysis and uniparental markers. Russian Journal of Genetics, 2015, 51, 418-429.  | 0.2 | 0         |
| 47 | Serum- and Glucocorticoid-Inducible Kinase 1 Confers Protection in Cell-Based and In Vivo Neurotoxin Models via the c-Jun N-Terminal Kinase Signaling Pathway. Molecular and Cellular Biology, 2015, 35, 1992-2006.                                    | 1.1 | 19        |
| 48 | Triad of Risk for Late Onset Alzheimer's: Mitochondrial Haplotype, APOE Genotype and Chromosomal Sex. Frontiers in Aging Neuroscience, 2016, 8, 232.   | 1.7 | 41        |
| 49 | Mitochondrial Signaling and Neurodegeneration. , 2016, , 107-137.  |     | 6         |
| 50 | Mitochondria in pluripotent stem cells: stemness regulators and disease targets. Current Opinion in Genetics and Development, 2016, 38, 1-7.   | 1.5 | 41        |
| 51 | <sc>M</sc>itochondrial <sc>DNA</sc> and primary mitochondrial dysfunction in <sc>P</sc>arkinson's disease. Movement Disorders, 2017, 32, 346-363.  | 2.2 | 115       |
| 52 | Impacts of the Mitochondrial Genome on the Relationship of Long-Term Ambient Fine Particle Exposure with Blood DNA Methylation Age. Environmental Science & Technology, 2017, 51, 8185-8195.   | 4.6 | 16        |
| 53 | Mitochondrial-Targeted Catalase. Progress in Molecular Biology and Translational Science, 2017, 146, 203-241.  | 0.9 | 55        |
| 54 | Oxidative Stress Challenge Uncovers Trichloroacetaldehyde Hydrate-Induced Mitoplasty in Autistic and Control Lymphoblastoid Cell Lines. Scientific Reports, 2017, 7, 4478.   | 1.6 | 29        |
| 55 | A novel MTTT mutation m.15933G&gt;A revealed in analysis of mitochondrial DNA in patients with suspected mitochondrial disease. BMC Medical Genetics, 2017, 18, 14.  | 2.1 | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 56 | Mitochondrial Etiology of Neuropsychiatric Disorders. <i>Biological Psychiatry</i> , 2018, 83, 722-730.   | 0.7 | 121       |
| 57 | Mitochondrial tRNA <sup>Leu</sup> (UUR) C3275T, tRNA <sup>Gln</sup> T4363C and tRNA <sup>Lys</sup> A8343G mutations may be associated with PCOS and metabolic syndrome. <i>Gene</i> , 2018, 642, 299-306. | 1.0 | 54        |
| 58 | Mitochondrial genetic medicine. <i>Nature Genetics</i> , 2018, 50, 1642-1649.   | 9.4 | 226       |
| 59 | Oldies but Goldies mtDNA Population Variants and Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2018, 12, 682.  | 1.4 | 50        |
| 60 | Advances in PCOS Pathogenesis and Progression—Mitochondrial Mutations and Dysfunction. <i>Advances in Clinical Chemistry</i> , 2018, 86, 127-155.   | 1.8 | 23        |
| 61 | The unresolved role of mitochondrial DNA in Parkinson's disease: An overview of published studies, their limitations, and future prospects. <i>Neurochemistry International</i> , 2019, 129, 104495.      | 1.9 | 19        |
| 62 | The phenotype modifier: is the mitochondrial DNA background responsible for individual differences in disease severity. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 3-4.                    | 1.7 | 15        |
| 63 | Mitochondrial DNA Variation of Leber's Hereditary Optic Neuropathy in Western Siberia. <i>Cells</i> , 2019, 8, 1574.  | 1.8 | 12        |
| 64 | New insights into the complex role of mitochondria in Parkinson's disease. <i>Progress in Neurobiology</i> , 2019, 177, 73-93.  | 2.8 | 268       |
| 65 | Mitochondrial Biology and Medicine. , 2019, , 267-322.  |     | 2         |
| 66 | Analysis of mitochondrial DNA allelic changes in Parkinson's disease: a preliminary study. <i>Aging Clinical and Experimental Research</i> , 2020, 32, 345-349.   | 1.4 | 3         |
| 67 | Ageing, age-related diseases and oxidative stress: What to do next?. <i>Ageing Research Reviews</i> , 2020, 57, 100982.   | 5.0 | 321       |
| 68 | African and Asian Mitochondrial DNA Haplogroups Confer Resistance Against Diabetic Stresses on Retinal Pigment Epithelial Cybrid Cells In Vitro. <i>Molecular Neurobiology</i> , 2020, 57, 1636-1655.     | 1.9 | 9         |
| 69 | Mitochondrial Interactions in the Maintenance of Mitochondrial Integrity. <i>Life</i> , 2020, 10, 173.  | 1.1 | 8         |
| 70 | Damage in Mitochondrial DNA Associated with Parkinson's Disease. <i>DNA and Cell Biology</i> , 2020, 39, 1421-1430.   | 0.9 | 32        |
| 71 | The Role of Mitochondrial DNA Individuality in the Pathogenesis of Parkinson's Disease. <i>Russian Journal of Genetics</i> , 2020, 56, 402-409.   | 0.2 | 6         |
| 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> , 2020, 21, 1758. | 1.8 | 8         |
| 73 | Role of mitochondrial DNA variants in the development of fragile X-associated tremor/ataxia syndrome. <i>Mitochondrion</i> , 2020, 52, 157-162.   | 1.6 | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 74 | Mitochondrial DNA haplogroups J and T increase the risk of glioma. <i>Mitochondrion</i> , 2021, 58, 95-101.  | 1.6 | 3         |
| 75 | Mitochondrial DNA haplogroups and domain-specific neurocognitive performance in adults with HIV. <i>Journal of NeuroVirology</i> , 2021, 27, 557-567.  | 1.0 | 2         |
| 76 | The Role of Mitochondria in Neurodegenerative Diseases: the Lesson from Alzheimer's Disease and Parkinson's Disease. <i>Molecular Neurobiology</i> , 2020, 57, 2959-2980.                              | 1.9 | 180       |
| 78 | A mitochondrial bioenergetic etiology of disease. <i>Journal of Clinical Investigation</i> , 2013, 123, 1405-1412.   | 3.9 | 261       |
| 79 | Transitions in metabolic and immune systems from pre-menopause to post-menopause: implications for age-associated neurodegenerative diseases. <i>F1000Research</i> , 2020, 9, 68.                      | 0.8 | 29        |
| 80 | 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        |
| 81 | Role of mitochondrial DNA damage and dysfunction in veterans with Gulf War Illness. <i>PLoS ONE</i> , 2017, 12, e0184832.  | 1.1 | 38        |
| 82 | The Impact of Mitochondrial DNA and Nuclear Genes Related to Mitochondrial Functioning on the Risk of Parkinson's Disease. <i>Current Genomics</i> , 2014, 14, 543-559.                                | 0.7 | 21        |
| 83 | Mitochondria and the aging heart. <i>Journal of Geriatric Cardiology</i> , 2011, 8, 159-167.   | 0.2 | 53        |
| 84 | Types of Mitochondrial Genetic Alterations in Cancer. , 2010, , 119-134.   |     | 0         |
| 85 | Screening for deafness-associated mitochondrial 12S rRNA mutations by using a multiplex allele-specific PCR method. <i>Bioscience Reports</i> , 2020, 40, .  | 1.1 | 3         |
| 86 | Mitochondrial Copy Number and D-Loop Variants in Pompe Patients. <i>Cell Journal</i> , 2016, 18, 405-15.   | 0.2 | 3         |
| 88 | Analysis of the entire mitochondrial genome reveals Leber's hereditary optic neuropathy mitochondrial DNA mutations in an Arab cohort with multiple sclerosis. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 1         |
| 89 | Mitochondrial DNA haplogroup analysis in Saudi Arab patients with multiple sclerosis. <i>PLoS ONE</i> , 2022, 17, e0279237.  | 1.1 | 0         |