

Resource Summary Report

Generated by SPARC SAWG on Aug 7, 2026

MITOMAP - A human mitochondrial genome database

RRID:SCR_002996

Type: Tool

Proper Citation

MITOMAP - A human mitochondrial genome database (RRID:SCR_002996)

Resource Information

URL: <http://www.mitomap.org/>

Proper Citation: MITOMAP - A human mitochondrial genome database (RRID:SCR_002996)

Description: Database of polymorphisms and mutations of the human mitochondrial DNA. It reports published and unpublished data on human mitochondrial DNA variation. All data is curated by hand. If you would like to submit published articles to be included in mitomap, please send them the citation and a pdf.

Abbreviations: MITOMAP

Resource Type: database, data or information resource

Defining Citation: [PMID:17178747](#), [PMID:15608272](#), [PMID:9399813](#), [PMID:9016535](#), [PMID:8594574](#)

Keywords: gene, genome, diabetes, disease, disease-association, high resolution screening, human, inversion, metabolism, mitochondrial dna, mutation, phenotype, polymorphism, polypeptide assignment, pseudogene, restriction site, rna, sequence, trna, unpublished, variation, mitochondria, dna, insertion, deletion, FASEB list

Funding: NIH ;
Muscular Dystrophy Foundation ;
Ellison Foundation ;
Diputacion General de Aragon Grupos consolidados B33 ;
NIGMS GM46915;
NINDS NS21328;
NHLBI HL30164;
NIA AG10130;
NIA AG13154;

NINDS NS213L8;
NHLBI HL64017;
NIH Biomedical Informatics Training Grant T15 LM007443;
NSF EIA-0321390;
Spanish Fondo de Investigacion Sanitaria PI050647;
Ciber Enfermedades raras CB06/07/0043

Availability: Except where otherwise noted, Creative Commons Attribution License, The community can contribute to this resource

Resource Name: MITOMAP - A human mitochondrial genome database

Resource ID: SCR_002996

Alternate IDs: nif-0000-00511, OMICS_01641

License: Except where otherwise noted, Creative Commons Attribution License, The community can contribute to this resource

Record Creation Time: 20220129T080216+0000

Record Last Update: 20260807T042546+0000

Ratings and Alerts

No rating or validation information has been found for MITOMAP - A human mitochondrial genome database.

No alerts have been found for MITOMAP - A human mitochondrial genome database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 405 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Shi R, et al. (2026) Emerging therapeutic strategies for mitochondrial DNA-related diseases. Cell reports. Medicine, 7(6), 102841.

Jentus MM, et al. (2026) Oxidative phosphorylation patterns in pituitary adenoma/neuroendocrine tumors. Pituitary, 29(2).

Kosaka N, et al. (2026) Chloroplast- and mitochondrion-specific random C-to-T mutagenesis for forward genetics of organelle genomes. The Plant journal : for cell and molecular biology, 126(5), e70990.

Mareckova K, et al. (2025) Mitochondrial DNA variants and their impact on epigenetic and biological aging in young adulthood. *Translational psychiatry*, 15(1), 16.

Imasawa T, et al. (2025) Comprehensive review of mitochondrial nephropathy-a renal phenotype in mitochondrial disease: causative genes, clinical and pathological features, diagnosis, prognosis, and treatment. *Clinical and experimental nephrology*, 29(1), 39.

Amor H, et al. (2025) Effects of marijuana and tobacco on male fertility and their relationship to genetic variation of mitochondrial cytochrome C oxidase genes. *Scientific reports*, 15(1), 7547.

Ratnaike T, et al. (2025) Mitochondrial DNA disease discovery through evaluation of genotype and phenotype data: The Solve-RD experience. *American journal of human genetics*, 112(6), 1376.

Cabrera-Alarcon JL, et al. (2025) Shaping current European mitochondrial haplogroup frequency in response to infection: the case of SARS-CoV-2 severity. *Communications biology*, 8(1), 33.

Ma T, et al. (2025) Analysis and identification of mitochondria-related genes associated with age-related hearing loss. *BMC genomics*, 26(1), 218.

Rosdi SNM, et al. (2025) Chiari malformation type 1 with combined nuclear PAX1 and DKK1 genes and mitochondrial D-loop variants: a case report. *Croatian medical journal*, 66(1), 56.

Tang J, et al. (2025) Mitochondrial base editing: from principle, optimization to application. *Cell & bioscience*, 15(1), 9.

Liu Z, et al. (2025) Novel pathogenic mtDNA variants in Chinese children with neurological mitochondrial disorders. *Annals of clinical and translational neurology*, 12(3), 586.

Lyu L, et al. (2025) Advances in gene therapy for mitochondrial genetic disorders: current status and clinical implementation challenges. *Journal of translational medicine*, 23(1), 1415.

Rao X, et al. (2025) Mitochondrial tRNAGlu 14687A>G May Be A Novel Mutation for Type 2 Diabetes Mellitus. *Journal of clinical laboratory analysis*, 39(13), e70056.

Ding Y, et al. (2025) Dilated Cardiomyopathy May Be Associated With a Novel Mitochondrial tRNASer(AGY) Mutation. *Human mutation*, 2025, 7888334.

Al Zoubi MS, et al. (2025) Novel Variants in Sperm Mitochondrial Cytochrome C Oxidase II (MT-CO2) Gene Associated with Asthenozoospermia in Jordan. *Current issues in molecular biology*, 47(11).

Petropoulou A, et al. (2025) Mitochondrial tRNA-Derived Diseases. *International journal of molecular sciences*, 26(24).

Jiang X, et al. (2025) Next-generation sequencing of mitochondrial DNA reveals pathogenic variants and protective haplogroup D4 in esophageal cancer. *Frontiers in genetics*, 16, 1643229.

Fu C, et al. (2025) Identification and validation of prognostic genes associated with mitochondrial nuclear genes in gastric cancer. *Clinical and experimental medicine*, 25(1), 309.

Yamaguchi TN, et al. (2025) The Germline and Somatic Origins of Prostate Cancer Heterogeneity. *Cancer discovery*, 15(5), 988.