Resource Summary Report

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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 It reports published and unpublished data on human mitochondrial DNA variation.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: data or information resource, database

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dna, mutation, phenotype, polymorphism, polypeptide assignment, pseudogene, restriction site, rna, sequence, trna, unpublished, variation, mitochondria, dna, insertion, deletion, FASEB list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;
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NHLBI HL64017;
NIH Biomedical Informatics Training Grant T15 LM007443;
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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

Record Creation Time: 20220129T080216+0000

Record Last Update: 20250426T055605+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 353 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

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.

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

Boso D, et al. (2024) Pathogenic mitochondrial DNA variants are associated with response

to anti-VEGF therapy in ovarian cancer PDX models. Journal of experimental & clinical cancer research : CR, 43(1), 325.

Lv L, et al. (2024) A Comprehensive Prognostic Model for Colon Adenocarcinoma Depending on Nuclear-Mitochondrial-Related Genes. Technology in cancer research & treatment, 23, 15330338241258570.

Yang HK, et al. (2024) Mitochondrial DNA mutations in Korean patients with Leber's hereditary optic neuropathy. Scientific reports, 14(1), 5702.

Maharjan S, et al. (2024) Post-transcriptional methylation of mitochondrial-tRNA differentially contributes to mitochondrial pathology. Nature communications, 15(1), 9008.

Lu JL, et al. (2024) Taurine hypomodification underlies mitochondrial tRNATrp-related genetic diseases. Nucleic acids research, 52(21), 13351.

Meynier V, et al. (2024) Structural basis for human mitochondrial tRNA maturation. Nature communications, 15(1), 4683.

Dobner J, et al. (2024) Mitochondrial DNA integrity and metabolome profile are preserved in the human induced pluripotent stem cell reference line KOLF2.1J. Stem cell reports, 19(3), 343.

Ying L, et al. (2024) A novel mitochondria-related core gene signature to predict the prognosis and evaluate tumour microenvironment in CESC single-cell validation. Journal of cellular and molecular medicine, 28(8), e18265.

Woravatin W, et al. (2024) Complete mitochondrial genomes of patients from Thailand with cardiovascular diseases. PloS one, 19(7), e0307036.

Akamatsu S, et al. (2024) Targeted nanopore sequencing using the Flongle device to identify mitochondrial DNA variants. Scientific reports, 14(1), 25161.

Emperador S, et al. (2024) Identification and characterization of a new pathologic mutation in a large Leber hereditary optic neuropathy pedigree. Orphanet journal of rare diseases, 19(1), 148.

Walitt B, et al. (2024) Deep phenotyping of post-infectious myalgic encephalomyelitis/chronic fatigue syndrome. Nature communications, 15(1), 907.

Byappanahalli AM, et al. (2024) Extracellular vesicle mitochondrial DNA levels are associated with race and mitochondrial DNA haplogroup. iScience, 27(1), 108724.

G?odowicz P, et al. (2024) Mitochondrial transport of catalytic RNAs and targeting of the organellar transcriptome in human cells. Journal of molecular cell biology, 15(8).

Yu X, et al. (2024) The Association Between Mitochondrial tRNAGlu Variants and Hearing Loss: A Case-Control Study. Pharmacogenomics and personalized medicine, 17, 77.

Vallabh NA, et al. (2024) Massively parallel sequencing of mitochondrial genome in primary open angle glaucoma identifies somatically acquired mitochondrial mutations in ocular tissue. Scientific reports, 14(1), 26324.

Zhang D, et al. (2024) Mitochondrial tRNASer(UCN) mutations associated non-syndromic sensorineural hearing loss in Chinese families. Heliyon, 10(6), e27041.

Khair SZNM, et al. (2024) The effect of somatic mutations in mitochondrial DNA on the survival of patients with primary brain tumors. Croatian medical journal, 65(2), 111.