Resource Summary Report

Generated by RRID on Apr 9, 2025

MToolBox

RRID:SCR_012112
Type: Tool

Proper Citation

MToolBox (RRID:SCR_012112)

Resource Information

URL: http://sourceforge.net/projects/mtoolbox/

Proper Citation: MToolBox (RRID:SCR_012112)

Description: Software for a highly automated bioinformatics pipeline to reconstruct and analyze human mitochondrial DNA from high throughput sequencing data.

Resource Type: software resource

Defining Citation: PMID:25028726

Keywords: standalone software, bio.tools

Funding:

Availability: GNU General Public License

Resource Name: MToolBox

Resource ID: SCR_012112

Alternate IDs: OMICS_05466, biotools:mtoolbox

Alternate URLs: https://bio.tools/mtoolbox

Record Creation Time: 20220129T080308+0000

Record Last Update: 20250214T183206+0000

Ratings and Alerts

No rating or validation information has been found for MToolBox.

No alerts have been found for MToolBox.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 48 mentions in open access literature.

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

Wang Z, et al. (2024) VarCards2: an integrated genetic and clinical database for ACMG-AMP variant-interpretation guidelines in the human whole genome. Nucleic acids research, 52(D1), D1478.

Donato L, et al. (2024) The genomic mosaic of mitochondrial dysfunction: Decoding nuclear and mitochondrial epigenetic contributions to maternally inherited diabetes and deafness pathogenesis. Heliyon, 10(14), e34756.

Slapnik B, et al. (2024) The quality and detection limits of mitochondrial heteroplasmy by long read nanopore sequencing. Scientific reports, 14(1), 26778.

Pettenuzzo I, et al. (2024) COQ7 defect causes prenatal onset of mitochondrial CoQ10 deficiency with cardiomyopathy and gastrointestinal obstruction. European journal of human genetics : EJHG, 32(8), 938.

Baltar F, et al. (2024) Two compound heterozygous variants in the CLN8 gene are responsible for neuronal cereidolipofuscinoses disorder in a child: a case report. Frontiers in pediatrics, 12, 1379254.

Sun X, et al. (2024) Association analysis of mitochondrial DNA heteroplasmic variants: methods and application. medRxiv : the preprint server for health sciences.

Stenton SL, et al. (2024) Mitochondrial DNA variant detection in over 6,500 rare disease families by the systematic analysis of exome and genome sequencing data resolves undiagnosed cases. medRxiv : the preprint server for health sciences.

Raggio V, et al. (2023) Computational and mitochondrial functional studies of novel compound heterozygous variants in SPATA5 gene support a causal link with epileptogenic encephalopathy. Human genomics, 17(1), 14.

Mahar NS, et al. (2023) A systematic comparison of human mitochondrial genome assembly tools. BMC bioinformatics, 24(1), 341.

Vats S, et al. (2023) Characterization of the Mitochondrial Genetic Landscape in Abdominal Aortic Aneurysm. Journal of the American Heart Association, 12(8), e029248.

Li Y, et al. (2023) Mitochondrial heteroplasmic shifts reveal a positive selection of breast cancer. Journal of translational medicine, 21(1), 696.

Tsybrovskyy O, et al. (2022) Papillary thyroid carcinoma tall cell variant shares accumulation of mitochondria, mitochondrial DNA mutations, and loss of oxidative phosphorylation complex I integrity with oncocytic tumors. The journal of pathology. Clinical research, 8(2), 155.

Nie Y, et al. (2022) Heteroplasmic mitochondrial DNA mutations in frontotemporal lobar degeneration. Acta neuropathologica, 143(6), 687.

Calabrese C, et al. (2022) Heteroplasmic mitochondrial DNA variants in cardiovascular diseases. PLoS genetics, 18(4), e1010068.

Hiz Kurul S, et al. (2022) High diagnostic rate of trio exome sequencing in consanguineous families with neurogenetic diseases. Brain : a journal of neurology, 145(4), 1507.

Miglietta S, et al. (2022) MicroRNA and Metabolic Profiling of a Primary Ovarian Neuroendocrine Carcinoma Pulmonary-Type Reveals a High Degree of Similarity with Small Cell Lung Cancer. Non-coding RNA, 8(5).

Ye Z, et al. (2022) Genetic Diversity, Heteroplasmy, and Recombination in Mitochondrial Genomes of Daphnia pulex, Daphnia pulicaria, and Daphnia obtusa. Molecular biology and evolution, 39(4).

Wei W, et al. (2022) Nuclear-embedded mitochondrial DNA sequences in 66,083 human genomes. Nature, 611(7934), 105.

Wei W, et al. (2021) Cell reprogramming shapes the mitochondrial DNA landscape. Nature communications, 12(1), 5241.

Bicci I, et al. (2021) Single-molecule mitochondrial DNA sequencing shows no evidence of CpG methylation in human cells and tissues. Nucleic acids research, 49(22), 12757.