

Resource Summary Report

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MERLIN

RRID:SCR_009289

Type: Tool

Proper Citation

MERLIN (RRID:SCR_009289)

Resource Information

URL: <http://www.sph.umich.edu/csg/abecasis/Merlin>

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Description: Software application that carries out single-point and multipoint analyses of pedigree data, including IBD and kinship calculations, nonparametric and variance component linkage analyses, error detection and information content mapping. For multipoint analyses in dense maps, Merlin allows the user to impose constraints on the number of recombinants between consecutive markers. Merlin estimates haplotypes by finding the most likely path of gene flow or by sampling paths of gene flow at all markers jointly. It can also list all possible nonrecombinant haplotypes within short regions. Finally, Merlin provides swap-file support for handling very large numbers of markers as well as gene-dropping simulations for estimating empirical significance levels. (entry from Genetic Analysis Software)

Abbreviations: MERLIN

Synonyms: Multipoint Engine for Rapid Likelihood INference

Resource Type: software resource, software application

Keywords: gene, genetic, genomic, c++, unix. linux

Resource Name: MERLIN

Resource ID: SCR_009289

Alternate IDs: nlx_154475

Record Creation Time: 20220129T080252+0000

Record Last Update: 20260801T191048+0000

Ratings and Alerts

No rating or validation information has been found for MERLIN.

No alerts have been found for MERLIN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 910 mentions in open access literature.

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

Eichhorn H, et al. (2026) Motion-robust T_2^* quantification from low-resolution gradient echo brain MRI with physics-informed deep learning. Magnetic resonance in medicine, 95(1), 346.

Ackermann J, et al. (2025) Influence of Sulcus-Deepening Trochleoplasty on Patellofemoral Cartilage Integrity in Patients With Severe Trochlear Dysplasia at Short-term to Midterm Follow-up: A Case-Control Study. Orthopaedic journal of sports medicine, 13(4), 23259671251326052.

Feuerriegel GC, et al. (2025) Longitudinal Assessment of Intersegmental Abnormalities in the Lumbar Spine of Adolescent Competitive Alpine Skiers Over 48 Months. The American journal of sports medicine, 53(1), 202.

Saunders RA, et al. (2025) Perturb-Multimodal: A platform for pooled genetic screens with imaging and sequencing in intact mammalian tissue. Cell, 188(17), 4790.

Groh J, et al. (2025) Microglia activation orchestrates CXCL10-mediated CD8⁺ T cell recruitment to promote aging-related white matter degeneration. Nature neuroscience, 28(6), 1160.

Li H, et al. (2025) Clonal dynamics shaped by diverse drug-tolerant persister states in melanoma resistance. bioRxiv : the preprint server for biology.

Hartmann M, et al. (2025) Tibial tubercle osteotomy decreases femorotibial rotation in patients with patellar instability. Archives of orthopaedic and trauma surgery, 145(1), 400.

Binan L, et al. (2025) Simultaneous CRISPR screening and spatial transcriptomics reveal intracellular, intercellular, and functional transcriptional circuits. Cell, 188(8), 2141.

Zahid A, et al. (2025) Identifying genetic susceptibility loci associated with human coronary artery disease. PloS one, 20(1), e0315460.

Shao L, et al. (2025) Synthetic efferocytic receptor microglia enhances anti-inflammatory clearance of amyloid- β for AD treatment in mice. Science advances, 11(28), eads6613.

Jikko Y, et al. (2025) Front-biased activation of the Ras-Rab5-Rac1 loop coordinates collective cell migration. *Journal of cell science*, 138(15).

Duong TE, et al. (2025) A Multimodal Spatial and Epigenomic Atlas of Human Adult Lung Topography. *bioRxiv : the preprint server for biology*.

Zhao H, et al. (2025) Pyrolyzed Parylene-N for in Vivo Electrochemical Detection of Neurotransmitters. *ACS electrochemistry*, 1(5), 730.

Feuerriegel GC, et al. (2025) A visual marker for early atrophy of the supraspinatus muscle on conventional MRI: introduction of the blackbird sign. *European radiology*, 35(1), 313.

Zhang T, et al. (2025) Biomimetic Microchannel Integrated Silk Fibroin Scaffold for Regeneration of Intervertebral Disc Degeneration. *Biomaterials research*, 29, 0203.

Huang R, et al. (2025) Single-cell and spatiotemporal profile of ovulation in the mouse ovary. *PLoS biology*, 23(6), e3003193.

Henderson SF, et al. (2025) Modeling the formation of sedan crater using the FLAG and HOSS codes. *Scientific reports*, 15(1), 21466.

Xing J, et al. (2025) Narrow Versus Broad Phenotype Definitions Affect Genetic Analysis of Language More Than Other Broad Autism Phenotype Traits. *Research square*.

Cummings WJ, et al. (2025) Vitelline Warbler (*Setophaga vitellina*) songs, calls, and habitat preferences: novel acoustic descriptions of a range-restricted Caribbean songbird. *PloS one*, 20(4), e0312636.

Schwarz C, et al. (2025) EFNB3 Frameshift Variant in Weimaraner Dogs with a Condition Resembling a Congenital Mirror Movement Disorder. *Movement disorders : official journal of the Movement Disorder Society*, 40(9), 1883.