

Resource Summary Report

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TwoSampleMR

RRID:SCR_019010

Type: Tool

Proper Citation

TwoSampleMR (RRID:SCR_019010)

Resource Information

URL: <https://github.com/MRCIEU/TwoSampleMR>

Proper Citation: TwoSampleMR (RRID:SCR_019010)

Description: Software R package for performing Mendelian randomization using genome wide association study summary data.

Resource Type: data analysis software, data processing software, software application, software resource

Defining Citation: [PMID:29846171](#)

Keywords: GWAS data, genome wide associated study data, genome data, Mendelian randomization, analysis

Availability: Free, Available for download, Freely available

Resource Name: TwoSampleMR

Resource ID: SCR_019010

License: MIT license

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260912T195908+0000

Ratings and Alerts

No rating or validation information has been found for TwoSampleMR.

No alerts have been found for TwoSampleMR.

Data and Source Information

Usage and Citation Metrics

We found 732 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Xiao Z, et al. (2026) Advancing PCOS drug development: multi-omics discovery of key targets and repurposable compounds. *Naunyn-Schmiedeberg's archives of pharmacology*.

Meena D, et al. (2026) Blood pressure, plasma proteins, and cardiovascular diseases: a network Mendelian randomization and observational study. *European heart journal*, 47(3), 331.

Zhao F, et al. (2026) Integrated multi-omics analysis combined with clinical validation reveals that HLA-DRB5 and ODAPH are causal risk genes for keratoconus. *Scientific reports*, 16(1).

Lu Z, et al. (2026) Bisphenol a exposure and major depressive disorder: an integrative analysis combining network toxicology, molecular docking, genetic epidemiology, and transcriptomic validation. *Translational psychiatry*, 16(1).

Sheng Z, et al. (2026) Global burden and genetic pathways of knee osteoarthritis: An integrated analysis of GBD data, Mendelian randomization, and multi-omics approaches. *Medicine*, 105(16), e46839.

Xiong J, et al. (2026) Causal associations between lifestyle factors and hemorrhoidal disease: Insights from Mendelian randomization analysis. *Medicine*, 105(21), e48945.

Pregnall AM, et al. (2026) Decoding the genetic architecture of hernia through genome-wide association and multi-trait analyses. *medRxiv : the preprint server for health sciences*.

Jin H, et al. (2026) Integrative Single-Cell Transcriptomic, Mendelian Randomization and In Silico Perturbation Analyses Prioritize MUC20 as a Candidate Gene Associated with Osteoporosis and Metabolic Dysfunction-Associated Steatotic Liver Disease in the Liver-Bone Axis. *International journal of molecular sciences*, 27(12).

Bocher O, et al. (2026) Unravelling the molecular mechanisms causal to type 2 diabetes across global populations and disease-relevant tissues. *Nature metabolism*, 8(2), 506.

Wang X, et al. (2026) Age-Related Genetic Causal Association Between Asthma and Delirium: A Bidirectional Two-Sample Mendelian Randomization. *Brain and behavior*, 16(2), e71198.

Su Q, et al. (2026) Single-cell RNA sequencing reveals immune regulatory mechanisms and molecular therapeutic strategies in the microenvironment of multiple myeloma. *International journal of surgery (London, England)*, 112(1), 333.

Crick DCP, et al. (2026) Investigating the relationship between taste perception of artificial sweeteners and cancer risk. *Public health nutrition*, 29(1), e18.

Saed A, et al. (2026) Serum ferritin and delirium risk: an integrative genomic analysis of causal inference and multi-tissue regulatory signals. *Human genomics*, 20(1).

Gao T, et al. (2026) Causal link between folic acid and recurrent aphthous ulcers: A two-sample Mendelian randomization study. *Medicine*, 105(24), e49125.

Mazidi M, et al. (2026) Sleep duration may not have any effect on the risk of stroke: insights from Mendelian randomization and prospective cohort studies. *Archives of medical science : AMS*, 22(2), 721.

Ren J, et al. (2026) Identification of putative causal associations between MicroRNAs and breast cancer via Mendelian randomization and bioinformatic analysis. *Medicine*, 105(6), e47494.

Zhang Y, et al. (2026) Opposite effects of chronic HIV infection and antiretroviral medication on organismal and organ-specific biological aging. *Nature communications*, 17(1).

Lin F, et al. (2026) Causality between appendiceal disease and cancers of the digestive system: A Mendelian randomization study. *Medicine*, 105(7), e47552.

Chen R, et al. (2026) Multi-omics and causal inference reveal lactylation-based osteoblast regulatory networks and drug candidates. *iScience*, 29(3), 114926.

Sobczyk MK, et al. (2026) Integrative mendelian randomization approaches for therapeutic target prioritisation in immune-mediated diseases. *Scientific reports*, 16(1).