

Resource Summary Report

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MR-PRESSO

RRID:SCR_023697

Type: Tool

Proper Citation

MR-PRESSO (RRID:SCR_023697)

Resource Information

URL: <https://github.com/rondolab/MR-PRESSO>

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Description: Software R package for performing Mendelian randomization pleiotropy residual sum and outlier method.Used to identify horizontal pleiotropic outliers in multi instrument summary level MR testing.

Synonyms: Mendelian Randomization Pleiotropy RESidual Sum and Outlier

Resource Type: software resource, software toolkit

Defining Citation: [PMID:29686387](#)

Keywords: Mendelian randomization, identify horizontal pleiotropic outliers, multi instrument summary level MR testing,

Funding: American Heart Association Cardiovascular Genome Phenome Discovery ;
AstraZeneca ;
Goldfinch Bio ;
NHGRI 5U01 HG009088;
NHLBI R01 HL139865;
NIGMS R35 GM124836;
NIMH 1R01 MH094469;
NIMH 1R01 MH107649

Availability: Free, Available for download, Freely available

Resource Name: MR-PRESSO

Resource ID: SCR_023697

Record Creation Time: 20230617T050225+0000

Record Last Update: 20260904T000517+0000

Ratings and Alerts

No rating or validation information has been found for MR-PRESSO.

No alerts have been found for MR-PRESSO.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 100 mentions in open access literature.

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

Schmidt A, et al. (2026) Host control of persistent Epstein-Barr virus infection. *Nature*, 653(8114), 444.

Zhang K, et al. (2026) The Effects of Gut Microbiota, Plasma Metabolites, Immune Cells, Blood Cells and Cytokines on Schizophrenia: A Bidirectional Two-Sample Mendelian Randomisation Study. *Actas espanolas de psiquiatria*, 54(1), 223.

Sun S, et al. (2026) Effects of artificial sweeteners on coronary heart disease: A 2-way 2-sample Mendelian randomization study and mediation analysis. *Medicine*, 105(11), e47656.

Lin S, et al. (2026) A self-supervised electrocardiogram foundation model for empowering cardiovascular disease prediction and genetic factor discovery. *Nature communications*, 17(1).

Zheng J, et al. (2026) Identifying Novel Biomarkers and Therapeutic Targets for Endometriosis: Integrative Analysis of the Plasma Proteome and Genome. *Mediators of inflammation*, 2026(1), e6617402.

Xie H, et al. (2026) B2M regulates ELANE in pyroptosis to affect pancreatic cancer progression. *Translational oncology*, 63, 102613.

Lin S, et al. (2026) Causal and shared genetic insights into severe COVID-19 and idiopathic pulmonary fibrosis. *iScience*, 29(5), 115494.

Lin YJ, et al. (2026) Unraveling the genetic links between stature and disease in East Asians: A multi-biobank genetic correlation and risk prediction study. *PLoS genetics*, 22(3), e1012030.

Dai X, et al. (2026) No causal effect between prostatitis and erectile dysfunction: Insights from a 2-sample bidirectional Mendelian randomization study. *Medicine*, 105(16), e48471.

Lian Z, et al. (2026) Multimodal fusion of brain imaging and proteomics reveals a brain-body pathway linking depression and metabolic dysfunction. *Psychological medicine*, 56,

e144.

Fu L, et al. (2025) Insights Into Causal Effects of Genetically Proxied Lipids and Lipid-Modifying Drug Targets on Cardiometabolic Diseases. *Journal of the American Heart Association*, 14(3), e038857.

Yu S, et al. (2025) Serum Urate and Atrial Fibrillation: A Bidirectional Mendelian Randomization Study. *Clinical cardiology*, 48(1), e70089.

Wei Zhang S, et al. (2025) Associations Between Myopia and Brain Volumes: An Observational and Genetic Analysis. *Investigative ophthalmology & visual science*, 66(6), 57.

Xu X, et al. (2025) Exploring the complex relationship between systemic lupus erythematosus and coronavirus disease 2019: genetic insights and potential protective mechanisms. *Journal of global health*, 15, 04191.

Zhao B, et al. (2025) Plasma Insulin-Like Growth Factor-Binding Protein-2 Levels Predict Severe Septic Acute Kidney Injury: A Mendelian Randomization Analysis. *Cureus*, 17(4), e82209.

Xiang R, et al. (2025) Mapping the role of macro and micronutrients in bone mineral density: a comprehensive Mendelian randomization study. *European journal of nutrition*, 64(4), 156.

Quan L, et al. (2025) Genetic associations of plasma proteins and breast cancer identify potential therapeutic drug candidates. *Communications biology*, 8(1), 610.

Gu Y, et al. (2025) Polygenic scores for autism are associated with reduced neurite density in adults and children from the general population. *Molecular psychiatry*, 30(8), 3393.

Zheng E, et al. (2025) Novel Insights Into the Genetic Basis Between Cholelithiasis and Four Dietary Patterns. *Food science & nutrition*, 13(10), e71052.

Xu M, et al. (2025) Deciphering the causal relationships between plasma metabolites, peripheral cells, inflammatory factors and DLBCL for discovering novel therapeutic targets. *Discover oncology*, 16(1), 1968.