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

Availability: Free, Available for download, Freely available

Resource Name: MR-PRESSO

Resource ID: SCR_023697

Record Creation Time: 20230617T050225+0000

Record Last Update: 20250429T060250+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: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 37 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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

Xiang R, et al. (2024) Genome-wide analyses of variance in blood cell phenotypes provide new insights into complex trait biology and prediction. medRxiv : the preprint server for health sciences.

Ruan W, et al. (2024) Assessing the causal relationship between circulating immune cells and abdominal aortic aneurysm by bi-directional Mendelian randomization analysis. Scientific reports, 14(1), 13733.

Sun J, et al. (2024) Causal relationships of grey matter structures in multiple sclerosis and neuromyelitis optica spectrum disorder: insights from Mendelian randomization. Brain communications, 6(5), fcae308.

Chen L, et al. (2024) Venous thromboembolism and severe COVID-19: a Mendelian randomization trial and transcriptomic analysis. Frontiers in immunology, 15, 1363598.

Qiu S, et al. (2024) The potential protective effect of 3-Hydroxybutyrate against aortic dissection: a mendelian randomization analysis. Nutrition & metabolism, 21(1), 75.

Nagayoshi M, et al. (2024) BMI and Cardiometabolic Traits in Japanese: A Mendelian Randomization Study. Journal of epidemiology, 34(2), 51.

Ding Y, et al. (2024) Inflammatory bowel disease activity threatens ankylosing spondylitis: implications from Mendelian randomization combined with transcriptome analysis. Frontiers in immunology, 15, 1289049.

Xue A, et al. (2024) Unravelling the complex causal effects of substance use behaviours on common diseases. Communications medicine, 4(1), 43.

Yamazaki H, et al. (2024) Evidence for a causal link between intra-pancreatic fat deposition and pancreatic cancer: A prospective cohort and Mendelian randomization study. Cell reports. Medicine, 5(2), 101391.

Ying Q, et al. (2024) White Matter Imaging Phenotypes Mediate the Negative Causality of Mitochondrial DNA Copy Number on Sleep Apnea: A Bidirectional Mendelian Randomization Study and Mediation Analysis. Nature and science of sleep, 16, 2045.

Zhou BG, et al. (2024) Non-alcoholic fatty liver disease and gestational diabetes mellitus: a bidirectional two-sample mendelian randomization study. BMC endocrine disorders, 24(1), 40.

Zhang X, et al. (2024) Evaluation of the Observational Associations and Shared Genetics Between Glaucoma With Depression and Anxiety. Investigative ophthalmology & visual science, 65(3), 12.

Gu Y, et al. (2024) Polygenic scores for autism are associated with neurite density in adults and children from the general population. medRxiv : the preprint server for health sciences.

Meena D, et al. (2024) Body Mass Index and Hypertension as Mediators of the Association Between Age at Menarche and Subclinical Atherosclerosis: A Sex-Specific Mendelian Randomization Analysis. Journal of the American Heart Association, 13(14), e032192.

Wang Z, et al. (2024) The impact of telomere length on the risk of idiopathic normal pressure hydrocephalus: a bidirectional Mendelian randomization study. Scientific reports, 14(1), 14713.

Wei Y, et al. (2024) Genome-wide association studies of thyroid-related hormones, dysfunction, and autoimmunity among 85,421 Chinese pregnancies. Nature communications, 15(1), 8004.

Chen A, et al. (2024) Exploring Causal Relationships Between Gut Microbiota and Alzheimer's Disease: A Bidirectional Mendelian Randomization Study. Journal of Alzheimer's disease reports, 8(1), 1031.

Ma H, et al. (2024) Phenotypic insights into genetic risk factors for immune-related adverse events in cancer immunotherapy. Cancer immunology, immunotherapy : CII, 74(1), 1.

Hu T, et al. (2024) Circulating Cytokines and Venous Thromboembolism: A Bidirectional Two-Sample Mendelian Randomization Study. Thrombosis and haemostasis, 124(5), 471.