

Resource Summary Report

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[mRnd](#)

RRID:SCR_022156

Type: Tool

Proper Citation

mRnd (RRID:SCR_022156)

Resource Information

URL: <https://shiny.cnsgenomics.com/mRnd/>

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Description: Web tool for calculations for Mendelian Randomization. Power calculations for Mendelian Randomization. Used to calculate statistical power for Mendelian Randomization study, using Non Centrality Parameter based approach.

Resource Type: data access protocol, software resource, web service

Defining Citation: [PMID:24159078](#)

Keywords: calculations for Mendelian Randomization, Mendelian Randomization, calculate statistical power, Mendelian Randomization study, Non Centrality Parameter

Funding: Wellcome Trust ;
Leducq Foundation ;
Australian National Health and Medical Research Council ;
EU 7th Framework Programme

Availability: Free, Freely available

Resource Name: mRnd

Resource ID: SCR_022156

Alternate URLs: <https://github.com/kn3in/mRnd>

Record Creation Time: 20220421T050139+0000

Record Last Update: 20260805T044457+0000

Ratings and Alerts

No rating or validation information has been found for mRnd.

No alerts have been found for mRnd.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 205 mentions in open access literature.

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

Liu RL, et al. (2025) Mendelian Randomization Reveals No Causal Association Between Periodontitis and Infective Endocarditis. International dental journal, 75(2), 832.

Chen Y, et al. (2025) Relationships among immune cells, metabolites, and non-small cell lung cancer: a mediation Mendelian randomization study. Discover oncology, 16(1), 501.

Zhou X, et al. (2025) Serum carnitine and cancer risk: a Mendelian randomization study identifying pancreatic cancer as a modifiable metabolic target. Discover oncology, 16(1), 1300.

Jiang S, et al. (2025) Lactate levels and heart failure: causal insights from Mendelian randomization and multi-cohort integrated analyses. Future science OA, 11(1), 2586994.

Liu X, et al. (2025) Glutaryl-CoA dehydrogenase (GCDH) enhances renal malignancy risk via modulating glutarylcarnitine levels. Discover oncology, 16(1), 1852.

Du J, et al. (2025) Genetic signatures underlining circulating lipids display causal effects on schizophrenia. Scientific reports, 15(1), 40527.

Zhang P, et al. (2025) Genetic Association of FABP4 with Cardiovascular Events: A Mendelian Randomization Study. Clinical and applied thrombosis/hemostasis : official journal of the International Academy of Clinical and Applied Thrombosis/Hemostasis, 31, 10760296251401588.

Xie F, et al. (2025) Revisiting the causal impact of lipid traits on metabolic dysfunction-associated fatty liver disease: Insights from a multidimensional plasma lipid profile. Journal of diabetes investigation, 16(5), 917.

Ni Y, et al. (2025) Psychological, social factors, and smoking behavior mediated the effects of cannabis use on personality disorders: A Mendelian randomization study. Frontiers in psychiatry, 16, 1411587.

Peng S, et al. (2025) Exploring Potential Causality and Molecular Mechanisms between Heart Failure and Renal Failure: Insights from Mendelian Randomization Studies, the MIMIC-IV Database and the Gene Expression Omnibus Database. Journal of vascular research, 62(6), 330.

Li H, et al. (2025) Constipation and Parkinson disease: A 2-sample bidirectional Mendelian randomization analysis. *Medicine*, 104(34), e43240.

Taageby Nielsen S, et al. (2025) Preeclampsia, gestational hypertension, and cardiovascular disease risk: a genetic epidemiological study. *European heart journal*, 46(41), 4316.

Lu T, et al. (2025) Estimating effects of serum vitamin B12 levels on psychiatric disorders and cognitive impairment: a Mendelian randomization study. *Communications medicine*, 5(1), 316.

Sha T, et al. (2025) Smoking, alcohol and risk of sarcopenia: a Mendelian randomisation study. *BMJ open*, 15(4), e091656.

Xue L, et al. (2025) UDP-Glucose Ceramide Glucosyltransferase Inhibition, Immune Cell Mediation, and Endometriosis Risk: A Mendelian Randomization Study. *International journal of women's health*, 17, 1497.

Takahashi N, et al. (2025) The role of inflammation in the development of tic symptoms in subjects with ADHD. *Brain, behavior, & immunity - health*, 45, 100981.

Getu MA, et al. (2025) A two-sample Mendelian randomization study of type 1 diabetes and the risk of 22 site-specific cancers. *Scientific reports*, 15(1), 11371.

Lin J, et al. (2025) Assessment of causality association between serum adiponectin levels and the risk of Alzheimer's disease and Parkinson's disease: a Mendelian randomization study. *Frontiers in neurology*, 16, 1395798.

Zhou H, et al. (2025) Genetic Association of Primary Lung Cancer With Urological Cancers: A Bidirectional Mendelian Randomization Study and SEER Database Validation. *Cancer medicine*, 14(19), e71272.

Xu W, et al. (2025) Clinical implications of bone marrow adiposity identified by phenome-wide association and Mendelian randomization in the UK Biobank. *Nature communications*, 16(1), 8332.