

Resource Summary Report

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METAL

RRID:SCR_002013

Type: Tool

Proper Citation

METAL (RRID:SCR_002013)

Resource Information

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

Proper Citation: METAL (RRID:SCR_002013)

Description: Software application designed to facilitate meta-analysis of large datasets (such as several whole genome scans) in a convenient, rapid and memory efficient manner. (entry from Genetic Analysis Software)

Synonyms: Metal - Meta Analysis Helper, METa AnaLysis Helper

Resource Type: software application, software resource

Defining Citation: [PMID:20616382](#)

Keywords: gene, genetic, genomic, whole genome

Resource Name: METAL

Resource ID: SCR_002013

Alternate IDs: nlx_154476, OMICS_00239

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260805T044032+0000

Ratings and Alerts

No rating or validation information has been found for METAL.

No alerts have been found for METAL.

Data and Source Information

Usage and Citation Metrics

We found 2273 mentions in open access literature.

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

Lin SC, et al. (2026) Integrating multi-polygenic scores for enhanced prediction of antidepressant treatment outcomes in an East Asian population. *Neuropsychopharmacology* : official publication of the American College of Neuropsychopharmacology, 51(2), 422.

Langie J, et al. (2026) The impact of Indigenous American-like ancestry on the risk of acute lymphoblastic leukemia in Hispanic/Latino children. *HGG advances*, 7(1), 100534.

Sinke L, et al. (2026) DNA methylation of genes involved in lipid metabolism drives adiponectin levels and metabolic disease. *Diabetologia*, 69(1), 127.

Hafeez KS, et al. (2025) Integrating polygenic and methylation risk scores for pleural mesothelioma risk stratification. *International journal of cancer*.

Tenopoulou M, et al. (2025) Fibrinogen post-translational modifications are biochemical determinants of fibrin clot properties and interactions. *The FEBS journal*, 292(1), 11.

Zhao SS, et al. (2025) Modifiable risk factors and inflammation-related proteins in polymyalgia rheumatica: genome-wide meta-analysis and Mendelian randomization. *Rheumatology (Oxford, England)*, 64(5), 3012.

Aliev F, et al. (2025) Genetic associations between orexin genes and phenotypes related to behavioral regulation in humans, including substance use. *Molecular psychiatry*, 30(7), 2922.

Lee MA, et al. (2025) Exploring the role of circulating proteins in multiple myeloma risk: a Mendelian randomization study. *Scientific reports*, 15(1), 3752.

Gálvez-Montosa F, et al. (2025) Polymorphisms within autophagy-related genes as susceptibility biomarkers for pancreatic cancer: A meta-analysis of three large European cohorts and functional characterization. *International journal of cancer*, 156(2), 339.

Roshandel D, et al. (2025) Genetics of C-Peptide and Age at Diagnosis in Type 1 Diabetes. *Diabetes*, 74(2), 223.

McGrail C, et al. (2025) Genetic Discovery and Risk Prediction for Type 1 Diabetes in Individuals Without High-Risk HLA-DR3/DR4 Haplotypes. *Diabetes care*, 48(2), 202.

Euesden J, et al. (2025) Patient stratification by genetic risk in Alzheimer's disease is only effective in the presence of phenotypic heterogeneity. *PloS one*, 20(1), e0310977.

Chin D, et al. (2025) Genome-wide association study of Idiopathic Pulmonary Fibrosis susceptibility using clinically-curated European-ancestry datasets. *medRxiv : the preprint*

server for health sciences.

Li Y, et al. (2025) Newborn blood DNA methylation and childhood asthma: findings from the ECHO program. *International journal of epidemiology*, 54(3).

Qi X, et al. (2025) Robust inference with GhostKnockoffs in genome-wide association studies. *Research square*.

Zhenyu W, et al. (2025) A meta-analysis of genome-wide association studies revealed significant QTL and candidate genes for loin muscle area in three breeding pigs. *Scientific reports*, 15(1), 18758.

Välimäki H, et al. (2025) Imaging Oxygen Concentrations in Bone Scaffolds during Cellular Activity and Fluid Perfusion. *ACS biomaterials science & engineering*, 11(7), 4050.

Chen R, et al. (2025) Genetic analyses of eight complex diseases using predicted continuous representations of disease. *Cell reports methods*, 5(8), 101115.

Kajfasz JK, et al. (2025) Zinc-Enhanced Activity of an Antimicrobial Halogenated Phenazine Against *Streptococcus mutans* and Other Gram-positive Bacteria. *bioRxiv* : the preprint server for biology.

Rajabli F, et al. (2025) Multi-ancestry genome-wide meta-analysis of 56,241 individuals identifies known and novel cross-population and ancestry-specific associations as novel risk loci for Alzheimer's disease. *Genome biology*, 26(1), 210.