

Resource Summary Report

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ENIGMA: Enhancing Neuro Imaging Genetics Through Meta-Analysis

RRID:SCR_005515

Type: Tool

Proper Citation

ENIGMA: Enhancing Neuro Imaging Genetics Through Meta-Analysis
(RRID:SCR_005515)

Resource Information

URL: <http://enigma.ini.usc.edu/>

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Description: Network that brings together researchers in imaging genomics, to understand brain structure and function, based on MRI, DTI, fMRI and genomewide association scan (GWAS) data. The ENIGMA Network has several goals: * to create a network of like-minded individuals, interested in pushing forward the field of imaging genetics * to ensure promising findings are replicated via member collaborations, in order to satisfy the mandates of most journals * to share ideas, algorithms, data, and information on promising findings or methods * to facilitate training, including workshops and conferences on key methods and emerging directions in imaging genetics. Data sharing with other members of the ENIGMA Network is optional and by no means a requirement of joining the network. Genetics and Imaging Protocols are available.

Abbreviations: ENIGMA

Synonyms: Enhancing Neuro Imaging Genetics Through Meta-Analysis, ENIGMA Network

Resource Type: data or information resource, experimental protocol, knowledge environment, narrative resource

Keywords: mri, dti, fmri, genomewide association scan, imaging, genetics, genomics, brain, brain structure, brain function, application, clinical neuroinformatics, genetic association, genomic analysis, imaging genomics, imputation, loni pipeline, magnetic resonance, nifti, snp, gene

Availability: Creative Commons License

Resource Name: ENIGMA: Enhancing Neuro Imaging Genetics Through Meta-Analysis

Resource ID: SCR_005515

Alternate IDs: nlx_144613

Alternate URLs: <http://www.nitrc.org/projects/enigma>

Old URLs: <http://enigma.loni.ucla.edu/>

Record Creation Time: 20220129T080230+0000

Record Last Update: 20260821T193741+0000

Ratings and Alerts

No rating or validation information has been found for ENIGMA: Enhancing Neuro Imaging Genetics Through Meta-Analysis.

No alerts have been found for ENIGMA: Enhancing Neuro Imaging Genetics Through Meta-Analysis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 241 mentions in open access literature.

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

Helson P, et al. (2026) Pursuit of biomarkers of brain diseases: beyond cohort comparisons. NPJ digital medicine, 9(1).

Giacomel A, et al. (2026) Transcriptome-informed brain cartography of polygenic risk and association with brain structure in major psychiatric disorders. Molecular psychiatry, 31(7), 3965.

Myren S, et al. (2026) Ultra-high field brain MRI for functional neurological disorder: opportunities and challenges. NeuroImage. Clinical, 50, 103972.

Huang H, et al. (2026) Causal Links of Type 2 Diabetes and Its Complications With Cortical Modification: A Mendelian Randomization and Mediation Analysis. Brain and behavior, 16(5), e71389.

Sanchez-Martinez J, et al. (2026) Effects of a 24-week resistance exercise program on Alzheimer's disease brain signatures in cognitively unimpaired older adults: a secondary analysis of the AGUEDA randomized controlled trial. Age and ageing, 55(4).

Qu R, et al. (2026) A Mendelian randomization study exploring the genetic associations between biliary system disorders and brain structural changes. *Medicine*, 105(7), e47616.

Loke RWJ, et al. (2026) Convergent structural brain alterations in chronic pain: a multi-metric individual participant data meta-analysis. *Brain communications*, 8(3), fcag146.

Pak M, et al. (2026) Toward trustworthy clinical AI for obsessive-compulsive disorder: reliability, generalizability, and interpretability of a transformer model across the ENIGMA-OCD consortium. *medRxiv : the preprint server for health sciences*.

Zhang D, et al. (2026) Integrative genomic and spatial transcriptomic analysis elucidates the oligodendrocyte-mediated etiology of epileptic cortical thinning. *Epilepsia open*, 11(3), 895.

Ge R, et al. (2026) Empirical validation of race-neutral normative brain morphometry models across ethnoracially diverse populations. *Proceedings of the National Academy of Sciences of the United States of America*, 123(20), e2521055123.

King B, et al. (2026) Longitudinal brain structural changes during clozapine treatment: associations with neuroreceptor architecture and clinical response. *medRxiv : the preprint server for health sciences*.

Wang W, et al. (2026) Exploring the Causal Association between Erectile Dysfunction and Brain Cortical Structure: Insight from a Bidirectional Mendelian Randomization Study and Cross-Sectional Neuroimaging Study. *The world journal of men's health*, 44(3), 691.

Hatch M, et al. (2025) Real-time aggression in youth and its connection to region-specific structural brain alterations. *Discover mental health*, 5(1), 124.

Kas MJH, et al. (2025) Precision psychiatry roadmap: towards a biology-informed framework for mental disorders. *Molecular psychiatry*, 30(8), 3846.

Brennan SO, et al. (2025) Genetically Proxied Phosphodiesterase Type 5 (PDE5) Inhibition and Risk of Dementia: A Drug Target Mendelian Randomization Study. *Molecular neurobiology*, 62(6), 7864.

Steegers CPM, et al. (2025) Restrained Eating Features and Brain Morphology: A Pediatric Population-Based Study. *The International journal of eating disorders*, 58(8), 1440.

Scholz A, et al. (2025) Controlled Antenatal Thyroid Screening Study III: Effects of Gestational Thyroid Status on Adolescent Brain Morphology. *The Journal of clinical endocrinology and metabolism*, 110(4), e1094.

Zhan Y, et al. (2025) Causal association of sarcopenia-related traits with brain cortical structure: a bidirectional Mendelian randomization study. *Aging clinical and experimental research*, 37(1), 57.

Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. *Neuroradiology*, 67(7), 1649.

See CRZ, et al. (2025) A whole-brain voxel-based analysis of structural abnormalities in PTSD: An ENIGMA-PGC study. *European psychiatry : the journal of the Association of*

European Psychiatrists, 68(1), e97.