

Resource Summary Report

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ENIGMA

RRID:SCR_013400

Type: Tool

Proper Citation

ENIGMA (RRID:SCR_013400)

Resource Information

URL: <http://bioinformatics.psb.ugent.be/ENIGMA/>

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Description: A software tool to extract gene expression modules from perturbational microarray data, based on the use of combinatorial statistics and graph-based clustering. The modules are further characterized by incorporating other data types, e.g. GO annotation, protein interactions and transcription factor binding information, and by suggesting regulators that might have an effect on the expression of (some of) the genes in the module. Version : ENIGMA 1.1 used GO annotation version : Aug 29th 2007

Resource Type: software resource, data analysis software, software application, data processing software

Defining Citation: [PMID:18402676](#)

Keywords: genome, gene, genetic software, bio.tools

Funding:

Resource Name: ENIGMA

Resource ID: SCR_013400

Alternate IDs: biotools:enigma, nlx_144365

Alternate URLs: <https://bio.tools/enigma>

Record Creation Time: 20220129T080315+0000

Record Last Update: 20250509T060031+0000

Ratings and Alerts

No rating or validation information has been found for ENIGMA.

No alerts have been found for ENIGMA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 123 mentions in open access literature.

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

Resende GAP, et al. (2024) Comprehensive Two-Dimensional Gas Chromatography-Mass Spectrometry as a Tool for the Untargeted Study of Hop and Their Metabolites. *Metabolites*, 14(4).

Wayment-Steele HK, et al. (2024) The conformational landscape of fold-switcher KaiB is tuned to the circadian rhythm timescale. *Proceedings of the National Academy of Sciences of the United States of America*, 121(45), e2412293121.

Wayment-Steele HK, et al. (2024) The conformational landscape of fold-switcher KaiB is tuned to the circadian rhythm timescale. *bioRxiv : the preprint server for biology*.

Kumar K, et al. (2023) Subcortical brain alterations in carriers of genomic copy number variants. *medRxiv : the preprint server for health sciences*.

Yang K, et al. (2023) Cortical thickness of the inferior parietal lobule as a potential predictor of relapse in men with alcohol dependence. *Research square*.

Sebenius I, et al. (2023) Robust estimation of cortical similarity networks from brain MRI. *Nature neuroscience*, 26(8), 1461.

García-Marín LM, et al. (2023) Shared molecular genetic factors influence subcortical brain morphometry and Parkinson's disease risk. *NPJ Parkinson's disease*, 9(1), 73.

Misawa N, et al. (2023) Fine Particle Adsorption Capacity of Volcanic Soil from Southern Kyushu, Japan. *Nanomaterials (Basel, Switzerland)*, 13(3).

- Ou YN, et al. (2023) The genetic architecture of fornix white matter microstructure and their involvement in neuropsychiatric disorders. *Translational psychiatry*, 13(1), 180.
- Castrillon G, et al. (2023) An energy costly architecture of neuromodulators for human brain evolution and cognition. *Science advances*, 9(50), eadi7632.
- Wingrove J, et al. (2023) Aberrant olfactory network functional connectivity in people with olfactory dysfunction following COVID-19 infection: an exploratory, observational study. *EClinicalMedicine*, 58, 101883.
- Hatch KS, et al. (2023) Brain deficit patterns of metabolic illnesses overlap with those for major depressive disorder: A new metric of brain metabolic disease. *Human brain mapping*, 44(6), 2636.
- Luppi AI, et al. (2023) Transitions between cognitive topographies: contributions of network structure, neuromodulation, and disease. *bioRxiv : the preprint server for biology*.
- Lebedeva A, et al. (2022) Incidental germline findings during molecular profiling of tumor tissues for precision oncology: molecular survey and methodological obstacles. *Journal of translational medicine*, 20(1), 29.
- Kochunov P, et al. (2022) Brain-wide versus genome-wide vulnerability biomarkers for severe mental illnesses. *Human brain mapping*, 43(16), 4970.
- Subramoney S, et al. (2022) The impact of prenatal alcohol exposure on gray matter volume and cortical surface area of 2 to 3-year-old children in a South African birth cohort. *Alcoholism, clinical and experimental research*, 46(7), 1233.
- de Zwarte SMC, et al. (2022) Intelligence, educational attainment, and brain structure in those at familial high-risk for schizophrenia or bipolar disorder. *Human brain mapping*, 43(1), 414.
- Fouche JP, et al. (2022) Shape analysis of subcortical structures in obsessive-compulsive disorder and the relationship with comorbid anxiety, depression, and medication use: A meta-analysis by the OCD Brain Imaging Consortium. *Brain and behavior*, 12(10), e2755.
- Thompson PM, et al. (2022) The Enhancing NeuroImaging Genetics through Meta-Analysis Consortium: 10?Years of Global Collaborations in Human Brain Mapping. *Human brain mapping*, 43(1), 15.
- Kirschner M, et al. (2022) Cortical and subcortical neuroanatomical signatures of schizotypy in 3004 individuals assessed in a worldwide ENIGMA study. *Molecular psychiatry*, 27(2), 1167.