Resource Summary Report

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Neural ElectroMagnetic Ontologies (NEMO) Project

RRID:SCR_002001
Type: Tool

Proper Citation

Neural ElectroMagnetic Ontologies (NEMO) Project (RRID:SCR_002001)

Resource Information

URL: http://aimlab.cs.uoregon.edu/NEMO/web/

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. NIH tombstone webpage lists Project Period : 2009 - 2013. NIH funded project to create EEG and MEG ontologies and ontology based tools. These resources will be used to support representation, classification, and meta-analysis of brain electromagnetic data. Three pillars of NEMO are: DATA, ONTOLOGY, and DATABASE. NEMO data consist of raw EEG, averaged EEG (ERPs), and ERP data analysis results. NEMO ontologies include concepts related to ERP data (including spatial and temporal features of ERP patterns), data provenance, and cognitive and linguistic paradigms that were used to collect data. NEMO database portal is large repository that stores NEMO consortium data, data analysis results, and data provenance. EEG and MEG ontologies and ontology-based tools to support representation, classification, and meta-analysis of brain electromagnetic data. Raw EEG and ERP data may be uploaded to the NEMO FTP site., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Abbreviations: NEMO

Synonyms: Neural ElectroMagnetic Ontologies

Resource Type: data or information resource, portal, project portal

Defining Citation: PMID:22180824

Keywords: annotation, classification, labeling, eeg, event-related potential, meg, rdf, metadata standard, decomposition, segmentation, extraction, brain, electromagnetic, electrocorticography, information specification, magnetic resonance

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Neural ElectroMagnetic Ontologies (NEMO) Project

Resource ID: SCR_002001

Alternate IDs: nif-0000-10899

Alternate URLs: http://www.nitrc.org/projects/nemo, https://sourceforge.net/projects/nemoontologies/

Old URLs: http://nemo.nic.uoregon.edu

License: NEMO License, BSD License

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260919T195550+0000

Ratings and Alerts

No rating or validation information has been found for Neural ElectroMagnetic Ontologies (NEMO) Project.

No alerts have been found for Neural ElectroMagnetic Ontologies (NEMO) Project.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 25 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Green AA, et al. (2026) Cell-type specific impact of opioid use disorder and HIV on the human forebrain and cerebellum. bioRxiv : the preprint server for biology.

Ellison AL, et al. (2026) Antiviral and anti-inflammatory effects of Cannabidiol in HIV/SIV infection. Brain, behavior, and immunity, 137, 106843.

Mikolajewicz N, et al. (2026) Reactive oligodendrocytes promote glioblastoma progression through CCL5/CCR5-mediated glioma stem cell maintenance. Neuron, 114(2), 237.

Bernardino Garcia CA, et al. (2025) Somatic Mosaicism Patterns Define Clinical-Surgical Subtypes of Focal Cortical Dysplasia Through Cell-Type-Specific Expression. medRxiv : the preprint server for health sciences.

Gim DH, et al. (2025) Deciphering cell-type-and temporally specific matrisome expression signatures in human cortical development and neurodevelopmental disorders via scRNA-seq meta-analysis. Nature communications, 16(1), 9907.

Yang J, et al. (2025) Multi-omic Characterization of HIV Effects at Single Cell Level across Human Brain Regions. bioRxiv : the preprint server for biology.

Hu B, et al. (2025) Erythrocyte-microglia crosstalk contributing to sex differences in pediatric brain tumorigenesis. Research square.

Tasic B, et al. (2025) Exploring brain circuits, one cell type-or more- at a time. Neuron, 113(10), 1469.

Feng X, et al. (2025) Cortical arealization of interneurons defines shared and distinct molecular programs in developing human and macaque brains. Nature communications, 16(1), 672.

Qian X, et al. (2025) Spatial transcriptomics reveals human cortical layer and area specification. Nature, 644(8075), 153.

Naas J, et al. (2025) Quantitative profiling of human brain organoid cell diversity across four protocols and multiple cell lines. Cell reports, 44(9), 116168.

Roux de B??zieux H, et al. (2024) Improving replicability in single-cell RNA-Seq cell type discovery with Dune. BMC bioinformatics, 25(1), 198.

Dorsey SG, et al. (2024) Rapid effects of valproic acid on the fetal brain transcriptome: implications for brain development and autism. Translational psychiatry, 14(1), 482.

Hendriks D, et al. (2024) Human fetal brain self-organizes into long-term expanding organoids. Cell, 187(3), 712.

Tian W, et al. (2023) Single-cell DNA methylation and 3D genome architecture in the human brain. Science (New York, N.Y.), 382(6667), eadf5357.

Zhang M, et al. (2023) Molecularly defined and spatially resolved cell atlas of the whole mouse brain. Nature, 624(7991), 343.

Micali N, et al. (2023) Molecular programs of regional specification and neural stem cell fate progression in macaque telencephalon. Science (New York, N.Y.), 382(6667), eadf3786.

Shen R, et al. (2022) Spatial-ID: a cell typing method for spatially resolved transcriptomics via transfer learning and spatial embedding. Nature communications, 13(1), 7640.

Ma S, et al. (2022) Molecular and cellular evolution of the primate dorsolateral prefrontal cortex. Science (New York, N.Y.), 377(6614), eabo7257.

Suzuki IK, et al. (2022) Evolutionary innovations of human cerebral cortex viewed through the lens of high-throughput sequencing. Developmental neurobiology, 82(6), 476.