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.

Abbreviations: NEMO

Synonyms: Neural ElectroMagnetic Ontologies

Resource Type: project portal, data or information resource, 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

Funding:

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: 20250501T080449+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 14 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Roux de Bézieux 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.

Jwa AS, et al. (2022) The spectrum of data sharing policies in neuroimaging data repositories. Human brain mapping, 43(8), 2707.

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

Eze UC, et al. (2021) Single-cell atlas of early human brain development highlights heterogeneity of human neuroepithelial cells and early radial glia. Nature neuroscience, 24(4), 584.

Guo C, et al. (2021) Graded heterogeneity of metabotropic signaling underlies a continuum of cell-intrinsic temporal responses in unipolar brush cells. Nature communications, 12(1), 5491.

Bhaduri A, et al. (2021) An atlas of cortical arealization identifies dynamic molecular signatures. Nature, 598(7879), 200.

Hastings J, et al. (2014) Interdisciplinary perspectives on the development, integration, and application of cognitive ontologies. Frontiers in neuroinformatics, 8, 62.