

Resource Summary Report

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NeuroLex

RRID:SCR_005402

Type: Tool

Proper Citation

NeuroLex (RRID:SCR_005402)

Resource Information

URL: http://neurolex.org/wiki/Main_Page

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Description: A freely editable semantic wiki for community-based curation of the terms used in Neuroscience. Entries are curated and eventually incorporated into the formal NIFSTD ontology. NeuroLex also includes a Resource branch for community members to freely add neuroscience relevant resources that do not become part of NIFSTD ontology but rather make up the NIF Registry. As part of the NIF, we provide a simple search interface to many different sources of neuroscience information and data. To make this search more effective, we are constructing ontologies to help organize neuroscience concepts into category hierarchies, e.g., neuron is a cell. These categories provide the means to perform more effective searches and also to organize and understand the information that is returned. But an important adjunct to this activity is to clearly define all of the terms that we use to describe our data, e.g., anatomical terms, techniques, organism names. Because wikis provide an easy interface for communities to contribute their knowledge, we started the NeuroLex.

Abbreviations: NeuroLex

Synonyms: NeuroLex.org

Resource Type: data or information resource, narrative resource, wiki

Defining Citation: [PMID:24009581](#)

Keywords: behavioral activity, behavioral paradigm, brain region, cell, neuron, disease, molecule, nervous system function, subcellular part, resource type, quality, brain, neuroscience, biological process, cellular anatomy, anatomy, subcellular, subcellular anatomy, organism, neurological disorder, neurologic disease, dysfunction, atlas application, knowledge environment, php, web service, rdf, knowledge management, neuroanatomy, ontology, semantics, lexicon

Funding: Neuroscience Information Framework

Availability: Creative Commons Attribution License, v3 Unported

Resource Name: NeuroLex

Resource ID: SCR_005402

Alternate IDs: OMICS_01703, nlx_144511

Alternate URLs: http://www.nitrc.org/projects/incf_neurolex-w

Record Creation Time: 20220129T080230+0000

Record Last Update: 20260820T054501+0000

Ratings and Alerts

No rating or validation information has been found for NeuroLex.

No alerts have been found for NeuroLex.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Duncan D, et al. (2023) Data Archive for the BRAIN Initiative (DABI). Scientific data, 10(1), 83.

Gillespie TH, et al. (2022) The Neuron Phenotype Ontology: A FAIR Approach to Proposing and Classifying Neuronal Types. Neuroinformatics, 20(3), 793.

Matiasz NJ, et al. (2018) ResearchMaps.org for integrating and planning research. PloS one, 13(5), e0195271.

G??kdeniz E, et al. (2016) Automated Neuroanatomical Relation Extraction: A Linguistically Motivated Approach with a PVT Connectivity Graph Case Study. Frontiers in neuroinformatics, 10, 39.

Hinard V, et al. (2016) ICEPO: the ion channel electrophysiology ontology. Database : the journal of biological databases and curation, 2016.

Kogan A, et al. (2016) Northwestern University schizophrenia data sharing for SchizConnect: A longitudinal dataset for large-scale integration. NeuroImage, 124(Pt B), 1196.

Maumet C, et al. (2016) Sharing brain mapping statistical results with the neuroimaging data model. *Scientific data*, 3, 160102.

Wang L, et al. (2016) SchizConnect: Mediating neuroimaging databases on schizophrenia and related disorders for large-scale integration. *NeuroImage*, 124(Pt B), 1155.

Bakker R, et al. (2015) The Scalable Brain Atlas: Instant Web-Based Access to Public Brain Atlases and Related Content. *Neuroinformatics*, 13(3), 353.

French L, et al. (2015) Text mining for neuroanatomy using WhiteText with an updated corpus and a new web application. *Frontiers in neuroinformatics*, 9, 13.

Larson SD, et al. (2013) NeuroLex.org: an online framework for neuroscience knowledge. *Frontiers in neuroinformatics*, 7, 18.

Wang L, et al. (2013) Northwestern University Schizophrenia Data and Software Tool (NUSDAST). *Frontiers in neuroinformatics*, 7, 25.

Ambert KH, et al. (2013) Virk: an active learning-based system for bootstrapping knowledge base development in the neurosciences. *Frontiers in neuroinformatics*, 7, 38.

Vasilevsky N, et al. (2012) Research resources: curating the new eagle-i discovery system. *Database : the journal of biological databases and curation*, 2012, bar067.

Bandrowski AE, et al. (2012) A hybrid human and machine resource curation pipeline for the Neuroscience Information Framework. *Database : the journal of biological databases and curation*, 2012, bas005.

Turner JA, et al. (2010) Application of neuroanatomical ontologies for neuroimaging data annotation. *Frontiers in neuroinformatics*, 4.

Minnix JA, et al. (2004) Relative left-frontal activity is associated with increased depression in high reassurance-seekers. *Biological psychology*, 67(1-2), 145.