# Resource Summary Report

Generated by NIF on May 14, 2025

## NIF Data Federation

RRID:SCR_004834
Type: Tool

### Proper Citation

NIF Data Federation (RRID:SCR_004834)

### Resource Information

**URL:** https://neuinfo.org/mynif/search.php?list=cover&q=*

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**Description:** Service that partners with the community to expose and simultaneously drill down into individual databases and data sets and return relevant content. This type of content, part of the so called hidden Web, is typically not indexed by existing web search engines. Every record links back to the originating site. In order for NIF to directly query these independently maintained databases and datasets, database providers must register their database or dataset with the NIF Data Federation and specify permissions. Databases are concept mapped for ease of sharing and to allow better understanding of the results. Learn more about registering your resource, http://neuinfo.org/nif_components/disco/interoperation.shtm Search results are displayed under the Data Federation tab and are categorized by data type and nervous system level. In this way, users can easily step through the content of multiple resources, all from the same interface. Each federated resource individually displays their query results with links back to the relevant datasets within the host resource. This allows users to take advantage of additional views on the data and tools that are available through the host database. The NIF site provides tutorials for each resource, indicated by the Professor Icon professor icon showing users how to navigate the results page once directed there through the NIF. Additionally, query results may be exported as an Excel document. Note: NIF is not responsible for the availability or content of these external sites, nor does NIF endorse, warrant or guarantee the products, services or information described or offered at these external sites. Integrated Databases: Theses virtual databases created by NIF and other partners combine related data indexed from multiple databases and combine them into one view for easier browsing. * Integrated Animal View * Integrated Brain Gene Expression View * Integrated Disease View * Integrated Nervous System Connectivity View * Integrated Podcasts View * Integrated Software View * Integrated Video View * Integrated Jobs * Integrated Blogs For a listing of the Federated Databases see,

http://neuinfo.org/mynif/databaseList.php or refer to the Resources Listed by NIF Data Federation table below.

**Abbreviations:** Data Federation

**Synonyms:** Neuroscience Information Framework Data Federation

**Resource Type:** portal, service resource, data or information resource

**Keywords:** semantics, neuroscience, animal, annotation, antibody, biospecimen, brain activation foci, clinical trial, connectivity, dataset, disease, drug, grant, image, microarray, model, multimedia, negative data, pathway, people, plasmid, registry, software, brain region, cell, gene, molecule, multi-level, nervous system, nervous system function, model

**Funding:** NIDA ;
NIH Blueprint for Neuroscience Research ;
U.S. Department of Health and Human Services HHSN27120080035C

**Availability:** Refer to individual databases

**Resource Name:** NIF Data Federation

**Resource ID:** SCR_004834

**Alternate IDs:** nlx_81822

**Old URLs:** http://neuinfo.org/nif/nifgwt.html?query=*

**Record Creation Time:** 20220129T080226+0000

**Record Last Update:** 20250514T061322+0000

## Ratings and Alerts

No rating or validation information has been found for NIF Data Federation.

No alerts have been found for NIF Data Federation.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 28 mentions in open access literature.

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


Kamens J, et al. (2014) Addgene: making materials sharing "science as usual". PLoS biology, 12(11), e1001991.

Mou?ek R, et al. (2014) Software and hardware infrastructure for research in electrophysiology. Frontiers in neuroinformatics, 8, 20.

Walls RL, et al. (2014) Semantics in support of biodiversity knowledge discovery: an introduction to the biological collections ontology and related ontologies. PloS one, 9(3), e89606.

Stauch KL, et al. (2014) Aging synaptic mitochondria exhibit dynamic proteomic changes while maintaining bioenergetic function. Aging, 6(4), 320.

Sobolev A, et al. (2014) Integrated platform and API for electrophysiological data. Frontiers in neuroinformatics, 8, 32.

Marenco LN, et al. (2014) Extending the NIF DISCO framework to automate complex workflow: coordinating the harvest and integration of data from diverse neuroscience information resources. Frontiers in neuroinformatics, 8, 58.

Hennessey J, et al. (2014) Trends in the production of scientific data analysis resources. BMC bioinformatics, 15 Suppl 11(Suppl 11), S7.

Hancock JM, et al. (2014) Editorial: biological ontologies and semantic biology. Frontiers in genetics, 5, 18.

von Eichborn J, et al. (2013) SynSysNet: integration of experimental data on synaptic protein-protein interactions with drug-target relations. Nucleic acids research, 41(Database issue), D834.

Maynard SM, et al. (2013) A knowledge based approach to matching human neurodegenerative disease and animal models. Frontiers in neuroinformatics, 7, 7.

Kalm M, et al. (2013) Lipopolysaccharide sensitized male and female juvenile brains to ionizing radiation. Cell death & disease, 4(12), e962.

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.

Cone AC, et al. (2013) A comparative antibody analysis of pannexin1 expression in four rat brain regions reveals varying subcellular localizations. Frontiers in pharmacology, 4, 6.

Roughton K, et al. (2013) Irradiation to the young mouse brain impaired white matter growth

more in females than in males. Cell death & disease, 4(10), e897.

Vasilevsky NA, et al. (2013) On the reproducibility of science: unique identification of research resources in the biomedical literature. PeerJ, 1, e148.

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

Bota M, et al. (2012) Combining collation and annotation efforts toward completion of the rat and mouse connectomes in BAMS. Frontiers in neuroinformatics, 6, 2.

Imam FT, et al. (2012) Development and use of Ontologies Inside the Neuroscience Information Framework: A Practical Approach. Frontiers in genetics, 3, 111.

Brown JA, et al. (2012) The UCLA multimodal connectivity database: a web-based platform for brain connectivity matrix sharing and analysis. Frontiers in neuroinformatics, 6, 28.