

Resource Summary Report

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NIX

RRID:SCR_016196

Type: Tool

Proper Citation

NIX (RRID:SCR_016196)

Resource Information

URL: <https://github.com/G-Node/nix/wiki>

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Description: Software that defines a data model for annotated scientific datasets. It includes data together with metadata, and a corresponding file format based on HDF5 for storing and sharing such datasets.

Synonyms: Pandora, NIX Project

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

Defining Citation: [DOI:10.3389/conf.fninf.2014.18.00027](https://doi.org/10.3389/conf.fninf.2014.18.00027)

Keywords: data, model, metadata, scientific, integration, file, format, annotation, hdf5, dataset

Funding: BMBF 01GQ0801;
BMBF 01GQ1302

Availability: Public

Resource Name: NIX

Resource ID: SCR_016196

Alternate IDs: <https://fairsharing.org/bsg-s001169>

Alternate URLs: <http://www.g-node.org/nix>

License: BSD 3-clause

License URLs: <https://github.com/G-Node/nix/blob/master/LICENSE>

Record Creation Time: 20220129T080329+0000

Record Last Update: 20260905T132805+0000

Ratings and Alerts

No rating or validation information has been found for NIX.

No alerts have been found for NIX.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Köhler CA, et al. (2025) Improving data sharing and knowledge transfer via the Neuroelectrophysiology Analysis Ontology (NEAO). Scientific data, 12(1), 907.

Köhler CA, et al. (2024) Facilitating the Sharing of Electrophysiology Data Analysis Results Through In-Depth Provenance Capture. eNeuro, 11(6).

Gutzen R, et al. (2024) A modular and adaptable analysis pipeline to compare slow cerebral rhythms across heterogeneous datasets. Cell reports methods, 4(1), 100681.

Pierré A, et al. (2024) A Perspective on Neuroscience Data Standardization with Neurodata Without Borders. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(38).

Hladnik TC, et al. (2023) Receptive field sizes and neuronal encoding bandwidth are constrained by axonal conduction delays. PLoS computational biology, 19(8), e1010871.

Barayeu A, et al. (2023) Beat encoding at mistuned octaves within single electrosensory neurons. iScience, 26(7), 106840.

Kumaraswamy A, et al. (2019) Adaptations during Maturation in an Identified Honeybee Interneuron Responsive to Waggle Dance Vibration Signals. eNeuro, 6(5).

Sprenger J, et al. (2019) odMLtables: A User-Friendly Approach for Managing Metadata of Neurophysiological Experiments. Frontiers in neuroinformatics, 13, 62.

Papež V, et al. (2017) Applying an Archetype-Based Approach to Electroencephalography/Event-Related Potential Experiments in the EEGBase Resource. Frontiers in neuroinformatics, 11, 24.

Grewe J, et al. (2017) Synchronous spikes are necessary but not sufficient for a synchrony code in populations of spiking neurons. *Proceedings of the National Academy of Sciences of the United States of America*, 114(10), E1977.

Rübel O, et al. (2016) Methods for Specifying Scientific Data Standards and Modeling Relationships with Applications to Neuroscience. *Frontiers in neuroinformatics*, 10, 48.

Teeters JL, et al. (2015) Neurodata Without Borders: Creating a Common Data Format for Neurophysiology. *Neuron*, 88(4), 629.

Maccione A, et al. (2015) Microelectronics, bioinformatics and neurocomputation for massive neuronal recordings in brain circuits with large scale multielectrode array probes. *Brain research bulletin*, 119(Pt B), 118.