

# Resource Summary Report

Generated by SPARC SAWG on Sep 16, 2026

## NIX

RRID:SCR\_016196

Type: Tool

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### Proper Citation

NIX (RRID:SCR\_016196)

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### 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:** 20260912T195836+0000

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## Ratings and Alerts

No rating or validation information has been found for NIX.

No alerts have been found for NIX.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 13 mentions in open access literature.

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

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.