

# Resource Summary Report

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## Neurodata Without Borders

RRID:SCR\_015242

Type: Tool

### Proper Citation

Neurodata Without Borders (RRID:SCR\_015242)

### Resource Information

**URL:** <http://nwb.org/nwb-neurophysiology/>

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**Description:** Data standard for neurophysiology, providing common standard to share, archive, use, and build common analysis tools for neurophysiology data. NWB:N is designed to store variety of neurophysiology data, including data from intracellular and extracellular electrophysiology experiments, data from optical physiology experiments, and tracking and stimulus data. Project includes NWB format and broad range of software for data standardization and application programming interfaces (APIs) for reading and writing data as well as high value data sets that have been translated into NWB data standard. NWB format is implemented in Hierarchical Data Format (HDF5) and is designed to store data in self documenting way. Storage schema is described by specification language and it is extensible to support future scientific needs as well as lab specific requirements.

**Abbreviations:** NWB

**Synonyms:** NWB:N 2.0, Neurodata Without Borders - Neurophysiology, NWB:N

**Resource Type:** model, project portal, data or information resource, portal, narrative resource, standard specification, information model

**Keywords:** file format, data storage, neurodata storage, neurophysiology data standard, neurophysiology data

**Funding:** NIH BRAIN Initiative ;  
Kavli Foundation ;  
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International Neuroinformatics Coordinating Facility

**Resource Name:** Neurodata Without Borders

**Resource ID:** SCR\_015242

**Alternate URLs:** <https://neurodatawithoutborders.github.io/>,  
<https://github.com/NeurodataWithoutBorders>,  
<https://github.com/NeurodataWithoutBorders/nwb-schema>,  
<https://www.nwb.org/2019/02/26/nwbn-2-0-final-released/>

**Record Creation Time:** 20220129T080324+0000

**Record Last Update:** 20260801T042748+0000

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## Ratings and Alerts

No rating or validation information has been found for Neurodata Without Borders.

No alerts have been found for Neurodata Without Borders.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Amsalem O, et al. (2024) Sub-threshold neuronal activity and the dynamical regime of cerebral cortex. Nature communications, 15(1), 7958.

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

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).

Ratsifandrihamanana MR, et al. (2023) Protocol to image and analyze hippocampal network dynamics in non-anesthetized mouse pups. STAR protocols, 4(4), 102760.

Howard D, et al. (2022) An in vitro whole-cell electrophysiology dataset of human cortical neurons. GigaScience, 11.