

# Resource Summary Report

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## Neuronland: NLMorphologyConverter

RRID:SCR\_001817

Type: Tool

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### Proper Citation

Neuronland: NLMorphologyConverter (RRID:SCR\_001817)

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### Resource Information

**URL:** <http://www.neuronland.net/NLMorphologyConverter/NLMorphologyConverter.html>

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**Description:** NLMorphologyConverter is a simple command-line program for converting between the various neuron morphology data formats which are used to describe the three-dimensional physical branching structure of biological neurons. The aim is to provide coverage of all formats, old and new, in which data is available online, and/or which are supported by free and commercial software packages (e.g. software for neuron reconstruction, generation, simulation, visualization, and analysis of neuron morphology). Permission is granted for this software to be freely copied. Main Features Currently 21 different morphology file formats fully or partially supported. Automatic detection of input file format. Faithful reproduction of output file formatting. Many command line options for manipulating the imported data Intensively tested using over 10000 publicly available morphology data files. Sponsors. This software is supported by NeuronLand.

**Synonyms:** NLMorphologyConverter

**Resource Type:** data processing software, rendering software, data analysis software, data visualization software, simulation software, software resource, software application

**Keywords:** format, generation, analysis, biological, morphology, neuron, reconstruction, simulation, three-dimensional, visualization

**Availability:** Free, Available for download, Freely available

**Resource Name:** Neuronland: NLMorphologyConverter

**Resource ID:** SCR\_001817

**Alternate IDs:** nif-0000-10381

**Record Creation Time:** 20220129T080209+0000

## Ratings and Alerts

No rating or validation information has been found for Neuronland: NLMorphologyConverter.

No alerts have been found for Neuronland: NLMorphologyConverter.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Jing J, et al. (2025) Molecular logic for cellular specializations that initiate the auditory parallel processing pathways. Nature communications, 16(1), 489.

Jing J, et al. (2023) Comprehensive analysis of cellular specializations that initiate parallel auditory processing pathways in mice. bioRxiv : the preprint server for biology.

Scala F, et al. (2021) Phenotypic variation of transcriptomic cell types in mouse motor cortex. Nature, 598(7879), 144.

Ray S, et al. (2020) Feedback inhibition and its control in an insect olfactory circuit. eLife, 9.

Laternus S, et al. (2020) A Systematic Evaluation of Interneuron Morphology Representations for Cell Type Discrimination. Neuroinformatics, 18(4), 591.

Wang X, et al. (2019) Genetic Single Neuron Anatomy Reveals Fine Granularity of Cortical Axo-Axonic Cells. Cell reports, 26(11), 3145.

Bono J, et al. (2017) Modeling somatic and dendritic spike mediated plasticity at the single neuron and network level. Nature communications, 8(1), 706.

Masoli S, et al. (2017) Single Neuron Optimization as a Basis for Accurate Biophysical Modeling: The Case of Cerebellar Granule Cells. Frontiers in cellular neuroscience, 11, 71.