

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

NeuronVisio

RRID:SCR_006839

Type: Tool

Proper Citation

NeuronVisio (RRID:SCR_006839)

Resource Information

URL: <http://neuronvisio.org/>

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Description: A Graphical User Interface for NEURON simulator environment with 3D capabilities. Neuronvisio makes easy to select and investigate sections' properties and it offers easy integration with matplotlib for plotting the results. The geometry can be saved using NeuroML and the computational results in a customized and extensible HDF5 format; the results can then be reload in the software and analyzed in a later stage, without re-running the simulation. Featuring 3D visualization of the model with the possibility to change it runtime; creation of vectors to record any variables present in the section; pylab integration to plot directly the result of the simulation; exploration of the timecourse of any variable among time using a color coded scale; saving the results simulation for later analysis; automatic download and running of models in ModelDB.

Abbreviations: Neuronvisio

Synonyms: Neuron visio

Resource Type: d visualization software

Defining Citation: [PMID:22685429](#)

Keywords: 3d visualization, electrophysiological model, hdf storage, matplotlib integration, neuron model, visualization, neuron, visualization, electrophysiology

Funding: Wellcome Trust

Availability: GNU General Public License, Acknowledgement requested

Resource Name: NeuronVisio

Resource ID: SCR_006839

Alternate IDs: nlx_156723

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260905T132602+0000

Ratings and Alerts

No rating or validation information has been found for NeuronVisio.

No alerts have been found for NeuronVisio.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Ray S, et al. (2016) NSDF: Neuroscience Simulation Data Format. Neuroinformatics, 14(2), 147.

McDougal RA, et al. (2013) Water-tight membranes from neuronal morphology files. Journal of neuroscience methods, 220(2), 167.

Mattioni M, et al. (2012) Neuronvisio: A Graphical User Interface with 3D Capabilities for NEURON. Frontiers in neuroinformatics, 6, 20.