

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 7, 2026

Snudda

RRID:SCR_021210

Type: Tool

Proper Citation

Snudda (RRID:SCR_021210)

Resource Information

URL: <https://github.com/Hjorthmedh/Snudda>

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Description: Software tool to create realistic networks of neurons, synapses placed using touch detection between axons and dendrites. Used to create detailed network of connected neurons, where connectivity is derived from reconstructed neuronal morphologies as well as from more qualitative experimental knowledge. Supports creation of network with connectivity based on touch detection.

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

Defining Citation: [DOI:10.1101/2021.04.15.439985](https://doi.org/10.1101/2021.04.15.439985)

Keywords: Connected neurons network, reconstructed neuronal morphologies, touch detection, synapses, realistic networks creation

Funding: Horizon 2020 Framework Programme ;
KTH Digital Futures ;
Swedish e-science Research Center

Availability: Free, Available for download, Freely available

Resource Name: Snudda

Resource ID: SCR_021210

License: GNU GPL v3.0

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260905T132936+0000

Ratings and Alerts

No rating or validation information has been found for Snudda.

No alerts have been found for Snudda.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Carannante I, et al. (2024) The impact of Parkinson's disease on striatal network connectivity and corticostriatal drive: An in silico study. Network neuroscience (Cambridge, Mass.), 8(4), 1149.

Frost Nylén J, et al. (2023) The roles of surround inhibition for the intrinsic function of the striatum, analyzed in silico. Proceedings of the National Academy of Sciences of the United States of America, 120(45), e2313058120.

Hjorth JJJ, et al. (2021) Predicting Synaptic Connectivity for Large-Scale Microcircuit Simulations Using Snudda. Neuroinformatics, 19(4), 685.

Frost Nylen J, et al. (2021) Dopaminergic and Cholinergic Modulation of Large Scale Networks in silico Using Snudda. Frontiers in neural circuits, 15, 748989.