Resource Summary Report

Generated by RRID on May 21, 2025

NeuroML Database

RRID:SCR_013705
Type: Tool

Proper Citation

NeuroML Database (RRID:SCR_013705)

Resource Information

URL: http://neuroml-db.org

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Description: The NeuroML database is a curated relational database that provides for the storage and retrieval of computational neuroscience models expressed in NeuroML, which is an extensible XML-based language for describing complex mathematical models of neurons and neuronal networks. NeuroML models are unique in their modular and multi-scale structure, where subcomponents of models can correspond to neuroscience models. In particular, the NeuroML database allows for efficient searches over the components of models and metadata that are associated with a hierarchical NeuroML model description.

Keywords: cell, network, neuron, model, neuronal cell, network model

Funding:

Resource Name: NeuroML Database

Resource ID: SCR_013705

Record Creation Time: 20220129T080317+0000

Record Last Update: 20250519T203815+0000

Ratings and Alerts

No rating or validation information has been found for NeuroML Database.

No alerts have been found for NeuroML Database.

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 RRID.

Sinha A, et al. (2025) The NeuroML ecosystem for standardized multi-scale modeling in neuroscience. eLife, 13.

Haynes VR, et al. (2024) Discovering optimal features for neuron-type identification from extracellular recordings. Frontiers in neuroinformatics, 18, 1303993.

Birgiolas J, et al. (2023) NeuroML-DB: Sharing and characterizing data-driven neuroscience models described in NeuroML. PLoS computational biology, 19(3), e1010941.