

Resource Summary Report

Generated by SPARC SAWG on Sep 17, 2026

NeuronDB

RRID:SCR_003105

Type: Tool

Proper Citation

NeuronDB (RRID:SCR_003105)

Resource Information

URL: <http://senselab.med.yale.edu/neurondb>

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Description: Database of three types of neuronal properties: voltage gated conductances, neurotransmitter receptors, and neurotransmitter substances. It contains tools that provide for integration of these properties in a given type of neuron and compartment, and for comparison of properties across different types of neurons and compartments.

Abbreviations: NeuronDB

Synonyms: Neuron DB, Neuron database, Neuron DataBase

Resource Type: analysis service resource, data analysis service, data or information resource, database, production service resource, service resource

Defining Citation: [PMID:17510162](#), [PMID:10223520](#)

Keywords: NMDA, LTP, brain, cellular, cerebellum, cortex, dendrite, human, invertebrate, ion channel, molecular, mouse, neuroinformatics, neuron, neuronal property, neurotransmitter receptor, neurotransmitter substance, olfactory, physiology, rat, receptor, retina, voltage gated conductance, rodent, rat, non-human animal

Funding: Human Brain Project ;
Multidisciplinary University Research Initiative (MURI) ;
NIDCD RO1 DC 009977

Availability: Free, Available for download, Freely available

Resource Name: NeuronDB

Resource ID: SCR_003105

Alternate IDs: nif-0000-00054

Alternate URLs: <https://bioregistry.io/registry/neurondb>

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260912T195551+0000

Ratings and Alerts

No rating or validation information has been found for NeuronDB.

No alerts have been found for NeuronDB.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Garcia JD, et al. (2025) Differential roles of NaV1.2 and NaV1.6 in neocortical pyramidal cell excitability. eLife, 14.

Zhou JJ, et al. (2020) Group III metabotropic glutamate receptors regulate hypothalamic presympathetic neurons through opposing presynaptic and postsynaptic actions in hypertension. Neuropharmacology, 174, 108159.

McDougal RA, et al. (2015) 3D-printer visualization of neuron models. Frontiers in neuroinformatics, 9, 18.

Sobolev A, et al. (2014) Integrated platform and API for electrophysiological data. Frontiers in neuroinformatics, 8, 32.

Dr??ger A, et al. (2014) Improving collaboration by standardization efforts in systems biology. Frontiers in bioengineering and biotechnology, 2, 61.

Gulledge AT, et al. (2012) Electrical advantages of dendritic spines. PloS one, 7(4), e36007.

Imam FT, et al. (2012) Development and use of Ontologies Inside the Neuroscience Information Framework: A Practical Approach. Frontiers in genetics, 3, 111.

Yan B, et al. (2011) Reduced order modeling of passive and quasi-active dendrites for nervous system simulation. Journal of computational neuroscience, 31(2), 247.

Marenco L, et al. (2010) The NIF DISCO Framework: facilitating automated integration of neuroscience content on the web. Neuroinformatics, 8(2), 101.

Morse TM, et al. (2008) Neuroinformatics: from bioinformatics to databasing the brain. Bioinformatics and biology insights, 2, 253.