Resource Summary Report

Generated by dkNET on Aug 12, 2026

NeuronStudio

RRID:SCR_013798
Type: Tool

Proper Citation

NeuronStudio (RRID:SCR_013798)

Resource Information

URL: http://research.mssm.edu/cnic/tools-ns.html

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Description: A software application which allows reconstruction of neuronal structures from confocal and multi-photon images. NeuronStudio provides tools for manual, semi-manual, and automatic tracing of the dendritic arbor, as well as manual and automatic detection and classification of dendritic spines. Advanced 2D and 3D visualization techniques facilitate the verification of the reconstruction, as well as allowing accurate manual editing. The most current version is Version 0.9.92 which was last updated on November 19, 2009.

Synonyms: NeuronStudio (Beta)

Resource Type: software resource

Keywords: software application, dendritic arbor, dendritic spines, trace, reconstruction, confocal image, multi-photon image

Availability: Free, Public, Must cite

Resource Name: NeuronStudio

Resource ID: SCR_013798

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Record Creation Time: 20220129T080318+0000

Record Last Update: 20260808T190017+0000

Ratings and Alerts

No rating or validation information has been found for NeuronStudio.

No alerts have been found for NeuronStudio.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 403 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Liiwand M, et al. (2026) Loss of the Mecp2 gene in parvalbumin interneurons leads to an inhibitory deficit in the amygdala and affects its functional connectivity. Molecular autism, 17(1), 4.

Wani MA, et al. (2026) Reversible synaptic deficits in early-stage batten disease. Journal of translational medicine, 24(1).

Onimus O, et al. (2026) The gut-brain vagal axis governs mesolimbic dopamine dynamics and reward events. Science advances, 12(5), eadz0828.

Zhang YQ, et al. (2026) Schizophrenia-Related Synaptic Dysfunction and Abnormal Sensorimotor Gating in Akap11-Deficient Mice. Schizophrenia bulletin, 52(1).

Huber N, et al. (2026) Frontotemporal dementia patient-derived iPSC neurons show cell pathological hallmarks and evidence for synaptic dysfunction and DNA damage. Molecular psychiatry, 31(3), 1500.

Liu Y, et al. (2026) Functional variants at 1p36.23 confer risk of schizophrenia through modulating RERE. Nature communications, 17(1), 1742.

Huang N, et al. (2026) Targeting the HDAC4-NHE6-endosomal pH axis restores amyloid-? clearance and cognitive function in Alzheimer's disease mice. Journal of nanobiotechnology, 24(1).

Santos-Gómez A, et al. (2025) Spermidine Treatment Improves GRIN2B Loss-Of-Function, A Primary Disorder of Glutamatergic Neurotransmission. Journal of inherited metabolic disease, 48(2), e70015.

Suminaite D, et al. (2025) Automated gait analysis indicates efficacy of T-type calcium channel inhibition for mitigation of disrupted calcium signalling in an SCA5 mouse model. Scientific reports, 15(1), 20990.

Chahin M, et al. (2025) Repetitive concussions promote microglia-mediated engulfment of presynaptic excitatory input associated with cognitive dysfunction. Communications biology, 8(1), 335.

Lish AM, et al. (2025) Astrocyte induction of disease-associated microglia is suppressed by acute exposure to fAD neurons in human iPSC triple cultures. Cell reports, 44(6), 115777.

Bjornson KJ, et al. (2025) Identification of ARHGEF11 (PDZ-RhoGEF) as an in vivo regulator of synapses and cognition. Proceedings of the National Academy of Sciences of the United States of America, 122(4), e2415316122.

Jabeen A, et al. (2025) Expression, Subcellular Localization, and Mechanistic Analysis of Intellectual Disability Syndrome Protein ABBA. Molecular neurobiology, 63(1), 271.

Thakur P, et al. (2025) An antisense oligonucleotide-based strategy to ameliorate cognitive dysfunction in the 22q11.2 Deletion Syndrome. eLife, 13.

Zhai S, et al. (2025) State-dependent modulation of spiny projection neurons controls levodopa-induced dyskinesia in a mouse model of Parkinson's disease. bioRxiv : the preprint server for biology.

Bosworth AP, et al. (2025) Astrocyte glypican 5 regulates synapse maturation and stabilization. Cell reports, 44(3), 115374.

Siqueira E, et al. (2025) NEAT1-mediated regulation of proteostasis and mRNA localization impacts autophagy dysregulation in Rett syndrome. Nucleic acids research, 53(4).

Sun L, et al. (2025) Selective Inactivation of Astrocytic Monoacylglycerol Lipase for Alzheimer's Disease Therapy. bioRxiv : the preprint server for biology.

Zhu Y, et al. (2025) Acute REM sleep deprivation alleviated depression-like behavior mediated by inhibiting VIP neurons in the mPFC. Science advances, 11(37), eadx2666.

Brandebura AN, et al. (2025) Dysregulation of astrocyte-secreted pleiotrophin contributes to neuronal structural and functional deficits in Down syndrome. Cell reports, 44(10), 116300.