

Resource Summary Report

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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

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 395 mentions in open access literature.

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

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

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.

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.

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

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.

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.

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

53(4).

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

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.

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

Poliński P, et al. (2025) A highly conserved neuronal microexon in DAAM1 controls actin dynamics, RHOA/ROCK signaling, and memory formation. *Nature communications*, 16(1), 4210.

Stein G, et al. (2025) Npbwr1 signaling mediates fast antidepressant action. *Molecular psychiatry*, 30(5), 1828.

Stein G, et al. (2025) Transthyretin Orchestrates Vitamin B12-Induced Stress Resilience. *Biological psychiatry*, 97(1), 54.

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.

Zhai S, et al. (2025) State-dependent modulation of spiny projection neurons controls levodopa-induced dyskinesia in a mouse model of Parkinson's disease. *Science advances*, 11(49), eadv8224.

Minere M, et al. (2025) Presynaptic hyperexcitability reversed by positive allosteric modulation of a GABABR epilepsy variant. *Brain : a journal of neurology*, 148(2), 533.

Dong W, et al. (2025) Mazdutide, a dual agonist targeting GLP-1R and GCGR, mitigates diabetes-associated cognitive dysfunction: mechanistic insights from multi-omics analysis. *EBioMedicine*, 117, 105791.

Busch SE, et al. (2025) Non-allometric expansion and enhanced compartmentalization of Purkinje cell dendrites in the human cerebellum. *eLife*, 14.