Resource Summary Report

Generated by NIF on Apr 22, 2025

Neurolucida 360

RRID:SCR_016788
Type: Tool

Proper Citation

Neurolucida 360 (RRID:SCR_016788)

Resource Information

URL: https://www.mbfbioscience.com/neurolucida360

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Description: Software for automatic neuron 3D reconstruction and analysis. Used by neuroscientists to reconstruct intricate neuronal structures that range in scale from complex, multicellular networks of neurons to sub-cellular dendritic spines and putative synapses.

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

Keywords: mbf Bioscience, automatic, image, 3D, reconstruction, analysis, neuron, synapse, data

Funding:

Availability: Commercially available, Free trial available

Resource Name: Neurolucida 360

Resource ID: SCR_016788

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250422T055950+0000

Ratings and Alerts

No rating or validation information has been found for Neurolucida 360.

No alerts have been found for Neurolucida 360.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 40 mentions in open access literature.

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

Shohayeb B, et al. (2024) BDNF-dependent nano-organization of Neogenin and the WAVE regulatory complex promotes actin remodeling in dendritic spines. iScience, 27(9), 110621.

Sutley-Koury SN, et al. (2024) EphB2 Signaling Is Implicated in Astrocyte-Mediated Parvalbumin Inhibitory Synapse Development. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(45).

Foucault L, et al. (2024) Neonatal brain injury unravels transcriptional and signaling changes underlying the reactivation of cortical progenitors. Cell reports, 43(2), 113734.

Bhembre N, et al. (2024) Learning-induced remodelling of inhibitory synapses in the motor cortex. Open biology, 14(11), 240109.

Drake AW, et al. (2024) Somatostatin interneuron fate-mapping and structure in a Pten knockout model of epilepsy. Frontiers in cellular neuroscience, 18, 1474613.

Buchan MJ, et al. (2024) Higher-order thalamocortical circuits are specified by embryonic cortical progenitor types in the mouse brain. Cell reports, 43(5), 114157.

Zhou Y, et al. (2023) Mesenchymal-Derived Extracellular Vesicles Enhance Microglia-mediated Synapse Remodeling after Cortical Injury in Rhesus Monkeys. Research square.

Ma J, et al. (2023) Spinal afferent innervation in flat-mounts of the rat stomach: anterograde tracing. Scientific reports, 13(1), 17675.

Zhou Y, et al. (2023) Mesenchymal-derived extracellular vesicles enhance microglia-mediated synapse remodeling after cortical injury in aging Rhesus monkeys. Journal of neuroinflammation, 20(1), 201.

Parkins EV, et al. (2023) Mir324 knockout regulates the structure of dendritic spines and impairs hippocampal long-term potentiation. Scientific reports, 13(1), 21919.

Ma J, et al. (2023) Mapping the Organization and Morphology of Calcitonin Gene-Related

Peptide (CGRP)-IR Axons in the Whole Mouse Stomach. bioRxiv : the preprint server for biology.

Balkaya M, et al. (2023) Conditional deletion of LRRC8A in the brain reduces stroke damage independently of swelling-activated glutamate release. iScience, 26(5), 106669.

Wu SJ, et al. (2023) Cortical somatostatin interneuron subtypes form cell-type-specific circuits. Neuron, 111(17), 2675.

Ma J, et al. (2023) Organization and morphology of calcitonin gene-related peptide-immunoreactive axons in the whole mouse stomach. The Journal of comparative neurology, 531(16), 1608.

Fournel R, et al. (2022) Digital reconstruction and quantitative morphometric analysis of bipolar cells in live rat retinal slices. The Journal of comparative neurology, 530(10), 1700.

Liu JH, et al. (2022) The mosaic of AII amacrine cell bodies in rat retina is indistinguishable from a random distribution. Visual neuroscience, 39, E004.

Hartveit E, et al. (2022) Dendritic Morphology of an Inhibitory Retinal Interneuron Enables Simultaneous Local and Global Synaptic Integration. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(9), 1630.

Wang S, et al. (2022) Loss-of-function variants in the schizophrenia risk gene SETD1A alter neuronal network activity in human neurons through the cAMP/PKA pathway. Cell reports, 39(5), 110790.

Godale CM, et al. (2022) Impact of Raptor and Rictor Deletion on Hippocampal Pathology Following Status Epilepticus. Journal of molecular neuroscience : MN, 72(6), 1243.

Surles-Zeigler MC, et al. (2022) Extending and using anatomical vocabularies in the stimulating peripheral activity to relieve conditions project. Frontiers in neuroinformatics, 16, 819198.