Resource Summary Report

Generated by ASWG on Aug 26, 2026

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

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

Availability: Commercially available, Free trial available

Resource Name: Neurolucida 360

Resource ID: SCR_016788

Record Creation Time: 20220129T080332+0000

Record Last Update: 20260821T194057+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 49 mentions in open access literature.

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

Godale CM, et al. (2026) Cell-Intrinsic Regulation of Epilepsy-Associated Pathology by mTORC1 and mTORC2. The Journal of neuroscience : the official journal of the Society for Neuroscience, 46(17).

Hasegawa K, et al. (2026) Age-related decline in nuclear envelope LINC complex drives neuronal aging via axon initial segment dysfunction. EMBO reports, 27(13), 3788.

Chaudhari K, et al. (2026) Temporally segregated functions for Gfi1 in the development and maintenance of direction selectivity in the vertebrate retina. Current biology : CB, 36(15), 3877.

Ho C, et al. (2025) CXCL12 Engages Cortical Inhibitory Neurons to Enhance Dendritic Spine Plasticity and Structured Network Activity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(24).

Samokhina E, et al. (2025) Potassium homeostasis during disease progression of Alzheimer's disease. The Journal of physiology, 603(11), 3405.

Fuller-Jackson JP, et al. (2025) A 3D Atlas of Visceral and Somatic Pelvic Motor Neurons in Whole Mounts of Female and Male Rat Spinal Cords. The Journal of comparative neurology, 533(11), e70109.

Veruki ML, et al. (2025) Activation of Dopamine D1 Receptors at the Axon Initial Segment-Like Process of Retinal AII Amacrine Cells Modulates Action Potential Firing. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(33).

Verpoort B, et al. (2025) A postsynaptic GPR158-PLCXD2 complex controls spine apparatus abundance and dendritic spine maturation. Developmental cell.

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).

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

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

Reimer ML, et al. (2024) A FAIR, open-source virtual reality platform for dendritic spine analysis. Patterns (New York, N.Y.), 5(9), 101041.

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.

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

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

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.

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

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.