Resource Summary Report

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NeuronJ: An ImageJ Plugin for Neurite Tracing and Quantification

RRID:SCR_002074
Type: Tool

Proper Citation

NeuronJ: An ImageJ Plugin for Neurite Tracing and Quantification (RRID:SCR_002074)

Resource Information

URL: http://www.imagescience.org/meijering/software/neuronj/

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Description: NeuronJ is an ImageJ plugin to facilitate the tracing and quantification of elongated structures in two-dimensional (2D) images (8-bit gray-scale and indexed color), in particular neurites in fluorescence microscopy images. Sponsors: The development of NeuronJ started while the primary developer (Dr. Erik Meijering, PhD) was with the Biomedical Imaging Group (collaborating with people from the Laboratory of Cellular Neurobiology) of the Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland, and was finished while Dr. Meijering was with the Biomedical Imaging Group Rotterdam in the Netherlands.

Synonyms: NeuronJ

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

Keywords: fluorescence, application, imaging processing software, java, measurement, microscope, microscopy, neurite, neuroinformatics, neuron, plugin, statistic, two-dimentional, image

Availability: Free, Available for download, Freely available

Resource Name: NeuronJ: An ImageJ Plugin for Neurite Tracing and Quantification

Resource ID: SCR_002074

Alternate IDs: nif-0000-00108

Alternate URLs: http://www.nitrc.org/projects/neuronj

Record Creation Time: 20220129T080211+0000

Record Last Update: 20260808T190300+0000

Ratings and Alerts

No rating or validation information has been found for NeuronJ: An ImageJ Plugin for Neurite Tracing and Quantification.

No alerts have been found for NeuronJ: An ImageJ Plugin for Neurite Tracing and Quantification.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1028 mentions in open access literature.

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

Bossen J, et al. (2026) Tracheal terminal cells of Drosophila are immune privileged to maintain their Foxo-dependent structural plasticity. eLife, 13.

Elaswad K, et al. (2026) Deficiency of Tissue Nonspecific Alkaline Phosphatase Dysregulates Microglial Morphology and Function in a Mouse Model of Infantile Hypophosphatasia. Journal of neurochemistry, 170(3), e70398.

Geni?can S, et al. (2026) Enhancing neural stem cell integration in the injured spinal cord through targeted PTEN modulation. Neural regeneration research, 21(4), 1586.

Nishijo T, et al. (2026) Kcnq2 R213 knock-in mice reveal variant- and region-specific mechanisms underlying self-limited familial neonatal-infantile epilepsy and early infantile developmental and epileptic encephalopathy. Acta neuropathologica communications, 14(1).

Kroon J, et al. (2026) Endothelial RhoGEF Trio is involved in angiogenesis. Vascular biology (Bristol, England), 8(1).

Castro AF, et al. (2026) Embryonic spinocerebellar ataxia type 37-associated AUUUC repeat RNA causes neurodevelopmental defects. Disease models & mechanisms, 19(4).

Pedraza N, et al. (2026) Cytoplasmic cyclin D1 modulates brain cortex development. Cellular and molecular life sciences : CMLS, 83(1).

Zainuddin MS, et al. (2026) In-vitro modelling of Alzheimer's disease using cholinergic neurons derived from human neuroblastoma (SH-SY5Y) retinoic acid-induced differentiation. Molecular biology reports, 53(1).

Eciroglu-Sarban H, et al. (2026) Hesperidin Attenuates H?O?-Induced Neurotoxicity via Modulation of Inflammatory Pathways and MMP Activity in Differentiated SH-SY5Y Cells: In Vitro and In Silico Models. Journal of biochemical and molecular toxicology, 40(3), e70774.

Ji M, et al. (2026) Deep learning-based segmentation and density estimation of corneal nerves and dendritic cells from In Vivo confocal microscopy images. Scientific reports, 16(1), 1620.

Sperlich K, et al. (2026) In vivo corneal microscopy: from image to insight - where are we going? Zeitschrift fur medizinische Physik, 36(2), 134.

Savasan-Sogut M, et al. (2026) 3'UTR variants of ALS-linked RNAs modify subcellular and cellular phenotypes. The FEBS journal, 293(8), 2500.

Kittock C, et al. (2026) The conserved microtubule-associated protein Mini Spindles promotes dendrite branching and limits terminal branch elongation in Drosophila class III and IV dendritic arborization neurons. microPublication biology, 2026.

Hebisch M, et al. (2026) Recapitulation of plaque formation, tau pathology, and neurodegeneration in a human 3D matrix model of Alzheimer's disease. Cell reports methods, 6(4), 101365.

Hamada N, et al. (2026) Distinct pathophysiological mechanisms of CEP152 variants in microcephaly and brain abnormalities. EMBO molecular medicine, 18(6), 2180.

Matos VUS, et al. (2026) AAV-Driven miR-146a Promotes Neurite Outgrowth and Axonal Regeneration in Cortical Neurons. Journal of neurochemistry, 170(2), e70372.

Coppini A, et al. (2026) Molecular resilience of neurons to repetitive mechanical compression. Communications biology, 9(1).

Poth V, et al. (2026) Alternatively spliced STIM2.3 is an evolutionarily late store-operated Ca2+ entry regulator expressed in brain. Journal of cell science, 139(8).

Shomron A, et al. (2026) A Chickpea NCR Peptide Suppresses Postharvest Alternaria alternata Infection by Disrupting Fungal Membranes, Mitochondria and Respiration. Molecular plant pathology, 27(5), e70266.

Zhang W, et al. (2026) Microbiota-Derived SCFAs Mediate the Synergistic Antidepressant Effects of Dajianzhong Decoction and Ketamine via FFAR2-NLRP3-IL-1? Signaling. Pharmaceuticals (Basel, Switzerland), 19(6).