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 application, image analysis software, software resource, 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: 20260728T043123+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 966 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

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.

Kobayashi H, et al. (2025) Neuro-Mesenchymal Interaction Mediated by a ?2-Adrenergic Nerve Growth Factor Feedforward Loop Promotes Colorectal Cancer Progression. Cancer discovery, 15(1), 202.

Lucchin A, et al. (2025) The calcium sensor AtCML8 contributes to Arabidopsis plant cell growth by modulating the brassinosteroid signaling pathway. The Plant journal : for cell and molecular biology, 121(1), e17179.

Thorwald MA, et al. (2025) Chimpanzee and human ApoE isoforms differ in the stimulation of neurite differentiation consistent with structural predictions with relevance to brain development and aging. bioRxiv : the preprint server for biology.

Riquelme D, et al. (2025) Long-term muscarinic inhibition increases intrinsic excitability through the upregulation of A-type potassium currents in cortical neurons. Frontiers in cell and developmental biology, 13, 1570424.

Galeotti AA, et al. (2025) Mechanical stimulation prevents impairment of axon growth and overcompensates microtubule destabilization in cellular models of Alzheimer's disease and related Tau pathologies. Frontiers in medicine, 12, 1519628.

Wang KS, et al. (2025) C9ORF72 poly-PR disrupts expression of ALS/FTD-implicated STMN2 through SRSF7. Acta neuropathologica communications, 13(1), 67.

Irisarri A, et al. (2025) FTO inhibition mitigates high-fat diet-induced metabolic disturbances and cognitive decline in SAMP8 mice. Molecular medicine (Cambridge, Mass.), 31(1), 73.

Atak N, et al. (2025) Roll-to-Roll (R2R) High-Throughput Manufacturing of Foil-Based Microfluidic Chips for Neurite Outgrowth Studies. Micromachines, 16(6).

Khoshandam M, et al. (2025) In vivo inhibition of angiogenesis by htsFLT01/MiRGD nano complex. Translational oncology, 56, 102400.

Eciroglu-Sarban H, et al. (2025) Neuroprotective Effects of Hesperidin and CK2 Inhibitor DRB on A?1-42-Induced Neurotoxicity in Differentiated SH-SY5Y Cells. Molecular neurobiology, 62(10), 12722.

Wang Y, et al. (2025) Predictive value of dry eye disease signs and corneal in vivo confocal microscopy on serological activity in primary Sjögren disease. Medicine, 104(14), e42054.

Diego-Santiago MDP, et al. (2025) Bioelectric stimulation outperforms brain derived neurotrophic factor in promoting neuronal maturation. Scientific reports, 15(1), 4772.

Villani E, et al. (2025) Hydroxypropyl-Methylcellulose and GlicoPro® Eyedrops in the Treatment of Dry Eye Disease: In Vitro and Clinical Study. Ophthalmology and therapy, 14(4), 787.

Chistyakov DV, et al. (2025) A role of pigment epithelium-derived factor in zinc-mediated mechanism of neurodegeneration in glaucoma. Communications biology, 8(1), 965.

Chen R, et al. (2025) Analyses of GWAS and Sub-Threshold Loci Lead to the Discovery of Dendrite Development and Morphology Dysfunction Underlying Schizophrenia Genetic Risk. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(39), e08519.

Wang L, et al. (2025) Chronic 40 Hz light flicker mitigates epileptogenesis through a visual pathway associated with the dorsal lateral geniculate nucleus shell. Nature communications, 16(1), 9228.

Prisacar M, et al. (2025) Systematic Analysis of SH-SY5Y Differentiation Protocols and Neuronal Subtype Abundance. Cellular and molecular neurobiology, 45(1), 104.

Carrese AM, et al. (2025) Sustained Depolarization Induces Gene Expression Pattern Changes Related to Synaptic Plasticity in a Human Cholinergic Cellular Model. Molecular neurobiology, 62(1), 935.

Halte M, et al. (2025) Bacterial motility depends on a critical flagellum length and energy-optimized assembly. Proceedings of the National Academy of Sciences of the United States of America, 122(11), e2413488122.