

Resource Summary Report

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Sholl Analysis

RRID:SCR_022758

Type: Tool

Proper Citation

Sholl Analysis (RRID:SCR_022758)

Resource Information

URL: <https://imagej.net/plugins/sholl-analysis>

Proper Citation: Sholl Analysis (RRID:SCR_022758)

Description: Open source program for ImageJ/Fiji. Automated and multithreaded Sholl for direct analysis of fluorescent images and/or traced morphologies. Features quantifications based on curve fitting. Analysis of profiles obtained by other software is also possible.

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

Defining Citation: [PMID:25264773](#)

Keywords: ImageJ, Fiji, analysis of fluorescent images, quantifications based on curve fitting,

Funding: Canada Foundation for Innovation ;
Canadian Institutes of Health Research ;
Natural Sciences and Engineering Research Council of Canada ;
UK Medical Research Council

Availability: Free, Available for download, Freely available

Resource Name: Sholl Analysis

Resource ID: SCR_022758

Record Creation Time: 20220917T050153+0000

Record Last Update: 20260905T133100+0000

Ratings and Alerts

No rating or validation information has been found for Sholl Analysis.

No alerts have been found for Sholl Analysis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Souder DC, et al. (2025) Neuron-specific isoform of PGC-1 β regulates neuronal metabolism and brain aging. *Nature communications*, 16(1), 2053.

Adamiak K, et al. (2025) Primary astrocytes as a cellular depot of polystyrene nanoparticles. *Scientific reports*, 15(1), 6502.

Ben Mahmoud M, et al. (2025) Multifactorial approach is needed to unravel the maturation phases of human neurons derived from induced pluripotent stem cells. *Scientific reports*, 15(1), 2627.

Asadipour B, et al. (2025) Label-free nonlinear microscopy probes cellular metabolism and myelin dynamics in live tissue. *Communications biology*, 8(1), 1811.

Ruan E, et al. (2025) Mutant THAP11 causes cerebellar neurodegeneration and triggers TREM2-mediated microglial activation in mice. *The Journal of clinical investigation*, 135(14).

Blasco-Agell L, et al. (2025) LRRK2-mutant microglia and neuromelanin synergize to drive dopaminergic neurodegeneration in an iPSC-based Parkinson's disease model. *Communications biology*, 8(1), 1203.

Bouargane Z, et al. (2025) Hippocampal Morphological Alterations and Oxidative Stress in Autism Spectrum Disorder Model Induced by Prenatal Exposure to Valproic Acid in Male and Female Mice. *Hippocampus*, 35(4), e70024.

Martín-González AM, et al. (2025) Cooperative control of neuron-specific repressive chromatin states by intellectual-disability-linked KDM1A and KDM5C demethylases. *Cell reports*, 44(9), 116201.

Souder DC, et al. (2023) Mitochondrial regulator PGC-1 α in neuronal metabolism and brain aging. *bioRxiv : the preprint server for biology*.

Maschi D, et al. (2023) The RNA-binding protein NANOS1 controls hippocampal synaptogenesis. *PloS one*, 18(4), e0284589.

Acutain MF, et al. (2023) Reduced expression of GluN2A induces a delay in neuron maturation. *Journal of neurochemistry*.

Brivio E, et al. (2023) Sex shapes cell-type-specific transcriptional signatures of stress exposure in the mouse hypothalamus. *Cell reports*, 42(8), 112874.

Lattanzi D, et al. (2022) Short-Term, Voluntary Exercise Affects Morpho-Functional Maturation of Adult-Generated Neurons in Rat Hippocampus. *International journal of molecular sciences*, 23(12).

Wegrzyn D, et al. (2021) Vav3-Deficient Astrocytes Enhance the Dendritic Development of Hippocampal Neurons in an Indirect Co-culture System. *Frontiers in cellular neuroscience*, 15, 817277.