

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

GRatio for ImageJ

RRID:SCR_015580

Type: Tool

Proper Citation

GRatio for ImageJ (RRID:SCR_015580)

Resource Information

URL: <http://gratio.efil.de/>

Proper Citation: GRatio for ImageJ (RRID:SCR_015580)

Description: ImageJ plugin that performs semiautomated analysis of randomly selected sets of nervous system fibers.

Synonyms: GRatio

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

Keywords: myelin sheath, axon diameter, fiber diameter, g ratio, plugin

Related Condition: neurodegeneration

Availability: Available for download

Resource Name: GRatio for ImageJ

Resource ID: SCR_015580

License: GLP3+

Record Creation Time: 20220129T080326+0000

Record Last Update: 20260731T042937+0000

Ratings and Alerts

No rating or validation information has been found for GRatio for ImageJ.

No alerts have been found for GRatio for ImageJ.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Tokarska N, et al. (2026) Acute Intermittent Hypoxia Exerts Beneficial Effects and Promotes Repair in Male Mice in the Experimental Autoimmune Encephalomyelitis Model of Multiple Sclerosis. *Glia*, 74(2), e70127.

Hasegawa H, et al. (2025) Therapeutic effects of conditioned medium of immortalized dental pulp stem cells from human exfoliated deciduous teeth against experimental autoimmune neuritis. *Scientific reports*, 15(1), 38554.

Mather ML, et al. (2025) Myelin Lipid Composition in the Central Nervous System Is Regionally Distinct and Requires Mechanistic Target of Rapamycin Signaling. *Glia*, 73(9), 1841.

Beirowski B, et al. (2025) Death receptor 6 does not regulate axon degeneration and Schwann cell injury responses during Wallerian degeneration. *bioRxiv : the preprint server for biology*.

Aisenberg WH, et al. (2025) Direct microglia replacement reveals pathologic and therapeutic contributions of brain macrophages to a monogenic neurological disease. *Immunity*, 58(5), 1254.

Yoo K, et al. (2024) Muscle-resident mesenchymal progenitors sense and repair peripheral nerve injury via the GDNF-BDNF axis. *eLife*, 13.

Oost W, et al. (2023) Pathological ultrastructural alterations of myelinated axons in normal appearing white matter in progressive multiple sclerosis. *Acta neuropathologica communications*, 11(1), 100.

Kim HW, et al. (2023) Long-term tactile hypersensitivity after nerve crush injury in mice is characterized by the persistence of intact sensory axons. *Pain*, 164(10), 2327.

Takenaka T, et al. (2023) Glycolytic System in Axons Supplement Decreased ATP Levels after Axotomy of the Peripheral Nerve. *eNeuro*, 10(3).

Ezaka M, et al. (2022) Oral Administration of Glutathione Trisulfide Increases Reactive Sulfur Levels in Dorsal Root Ganglion and Ameliorates Paclitaxel-Induced Peripheral Neuropathy in Mice. *Antioxidants (Basel, Switzerland)*, 11(11).

Wang MJ, et al. (2022) Effects of delayed HIF-1 α expression in astrocytes on myelination following hypoxia-ischaemia white matter injury in immature rats. *Translational pediatrics*, 11(1), 20.

Zainul Z, et al. (2022) Novel roles of phentolamine in protecting axon myelination, muscle atrophy, and functional recovery following nerve injury. *Scientific reports*, 12(1), 3344.

Song W, et al. (2021) Jinmaitong ameliorates diabetes-induced peripheral neuropathy in rats through Wnt/ β -catenin signaling pathway. *Journal of ethnopharmacology*, 266, 113461.

Malheiro A, et al. (2020) A three-dimensional biomimetic peripheral nerve model for drug testing and disease modelling. *Biomaterials*, 257, 120230.

Dietzmeyer N, et al. (2020) In Vivo and In Vitro Evaluation of a Novel Hyaluronic Acid-Laminin Hydrogel as Luminal Filler and Carrier System for Genetically Engineered Schwann Cells in Critical Gap Length Tubular Peripheral Nerve Graft in Rats. *Cell transplantation*, 29, 963689720910095.

Lee NC, et al. (2020) Ultrastructural and diffusion tensor imaging studies reveal axon abnormalities in Pompe disease mice. *Scientific reports*, 10(1), 20239.

Sele M, et al. (2019) Optimization of ultrastructural preservation of human brain for transmission electron microscopy after long post-mortem intervals. *Acta neuropathologica communications*, 7(1), 144.

Guillaumot MA, et al. (2019) Oxaliplatin-induced neuropathy: the preventive effect of a new super-oxide dismutase modulator. *Oncotarget*, 10(60), 6418.

Cerles O, et al. (2019) Preventive action of benztropine on platinum-induced peripheral neuropathies and tumor growth. *Acta neuropathologica communications*, 7(1), 9.

Dietzmeyer N, et al. (2019) Two-Chambered Chitosan Nerve Guides With Increased Bendability Support Recovery of Skilled Forelimb Reaching Similar to Autologous Nerve Grafts in the Rat 10 mm Median Nerve Injury and Repair Model. *Frontiers in cellular neuroscience*, 13, 149.