

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

Nanotomy

RRID:SCR_018565

Type: Tool

Proper Citation

Nanotomy (RRID:SCR_018565)

Resource Information

URL: <http://nanotomy.org/>

Proper Citation: Nanotomy (RRID:SCR_018565)

Description: Large scale electron microscopy datasets. Large scale electron microscopy database for Human Type 1 Diabetes.

Synonyms: nano-anatomy, Anatomy at nanoscale, nanotomy

Resource Type: data or information resource, data repository, data set, database, image collection, service resource, storage service resource

Defining Citation: [PMID:32424134](#)

Keywords: Large scale, electron microscopy, data set, Human Type 1 Diabetes, image collection

Related Condition: Type 1 diabetes, Diabetes

Availability: Free, Freely available

Resource Name: Nanotomy

Resource ID: SCR_018565

Alternate IDs: SCR_020961

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Record Creation Time: 20220129T080340+0000

Record Last Update: 20260905T132838+0000

Ratings and Alerts

No rating or validation information has been found for Nanotomy.

No alerts have been found for Nanotomy.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

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

Kievits AJ, et al. (2026) Mitigation of artifacts in imaging biosamples with optical scanning transmission electron microscopy. *Applied microscopy*, 56(1).

Bhardwaj A, et al. (2026) NucleoNet and DropNet: Generalist deep learning models for instance segmentation of nuclei and lipid droplets from electron microscopy images. *bioRxiv : the preprint server for biology*.

Sun C, et al. (2026) Microvillus inclusion disease-associated MYO5B deficiency impairs endosome-to-mitochondrion iron transfer. *Gastroenterology report*, 14, goag016.

Gorter RP, et al. (2025) Unexpected Remyelination in the Absence of Matrix Metalloproteinase 7. *Glia*, 73(6), 1288.

Pegoretti V, et al. (2025) Single intracerebroventricular TNFR2 agonist injection impacts remyelination in the cuprizone model. *Journal of molecular medicine (Berlin, Germany)*, 103(7), 795.

Feenstra L, et al. (2025) Calciprotein particle-activated endothelial cells aggravate smooth muscle cell calcification via paracrine signalling. *Cellular and molecular life sciences : CMLS*, 82(1), 177.

Son R, et al. (2024) Morphomics via next-generation electron microscopy. *Journal of molecular cell biology*, 15(12).

Stroo E, et al. (2023) Deletion of SERF2 in mice delays embryonic development and alters amyloid deposit structure in the brain. *Life science alliance*, 6(7).

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.

Smith P, et al. (2023) Online citizen science with the Zooniverse for analysis of biological volumetric data. *Histochemistry and cell biology*, 160(3), 253.

Nijholt KT, et al. (2023) A Kinase Interacting Protein 1 (AKIP1) promotes cardiomyocyte elongation and physiological cardiac remodelling. *Scientific reports*, 13(1), 4046.

van Tienhoven R, et al. (2023) Presence of immunogenic alternatively spliced insulin gene product in human pancreatic delta cells. *Diabetologia*, 66(5), 884.

Nijholt KT, et al. (2023) A Kinase Interacting Protein 1 regulates mitochondrial protein levels in energy metabolism and promotes mitochondrial turnover after exercise. *Scientific reports*, 13(1), 18822.

Preusse C, et al. (2022) Endoplasmic reticulum-stress and unfolded protein response-activation in immune-mediated necrotizing myopathy. *Brain pathology (Zurich, Switzerland)*, 32(6), e13084.

Krasemann S, et al. (2022) Assessing and improving the validity of COVID-19 autopsy studies - A multicentre approach to establish essential standards for immunohistochemical and ultrastructural analyses. *EBioMedicine*, 83, 104193.

Dittmayer C, et al. (2022) Identification of coronavirus particles by electron microscopy requires demonstration of specific ultrastructural features. *The European respiratory journal*, 60(3).

Dittmayer C, et al. (2022) Continued False-Positive Detection of SARS-CoV-2 by Electron Microscopy. *Annals of neurology*, 92(2), 340.

Schmidt C, et al. (2022) Research data management for bioimaging: the 2021 NFDI4BIOIMAGE community survey. *F1000Research*, 11, 638.

Li R, et al. (2021) Low production of 12 α -hydroxylated bile acids prevents hepatic steatosis in Cyp2c70 $^{-/-}$ mice by reducing fat absorption. *Journal of lipid research*, 62, 100134.

Nijholt KT, et al. (2021) The erythropoietin receptor expressed in skeletal muscle is essential for mitochondrial biogenesis and physiological exercise. *Pflugers Archiv : European journal of physiology*, 473(8), 1301.