

Resource Summary Report

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Microscopy Image Browser

RRID:SCR_016560

Type: Tool

Proper Citation

Microscopy Image Browser (RRID:SCR_016560)

Resource Information

URL: <http://mib.helsinki.fi/>

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Description: Software package for advanced image processing, analysis, segmentation and visualization of multi-dimensional (2D-4D) light and electron microscopy datasets.

Abbreviations: MIB

Synonyms: MIB, Microscopy Image Browser

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

Defining Citation: [PMID:26727152](#)

Keywords: segmentation, analysis, multidimensional, dataset, light, electron, microscopy, image, processing, visualization, data, bio.tools

Funding: Biocenter Finland ;
Biological Imaging Network Academy of Finland ;
University of Helsinki

Availability: Free, Available for download, Freely available

Resource Name: Microscopy Image Browser

Resource ID: SCR_016560

Alternate IDs: biotools:mib

Alternate URLs:

https://www.youtube.com/watch?v=I9FWmJX_nl0&index=1&list=PLGkFvW985wz8cj8CWmXOFkXp

<https://bio.tools/mib>

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Ratings and Alerts

No rating or validation information has been found for Microscopy Image Browser.

No alerts have been found for Microscopy Image Browser.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 143 mentions in open access literature.

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

Rudinskiy M, et al. (2025) The intrinsically disordered regions of organellophagy receptors are interchangeable and control organelle fragmentation, ER-phagy and mitophagy flux. Nature cell biology, 27(9), 1431.

Ezure T, et al. (2025) Three-dimensional ultrastructural analysis of human skin with the arrector pili muscle interacting with the hair follicle epithelium. Scientific reports, 15(1), 4195.

Albargothy MJ, et al. (2025) 3D electron microscopy reveals novel ultrastructural changes in the diabetic retinal neurovascular unit. Diabetologia, 68(12), 2899.

Abdollahzadeh A, et al. (2025) Scattering approach to diffusion quantifies axonal damage in brain injury. ArXiv.

Fatima K, et al. (2025) Ribosome-binding protein 1 maintains peroxisome biogenesis. Journal of cell science, 138(24).

Adams R, et al. (2025) How the Topology of the Mitochondrial Inner Membrane Modulates ATP Production. Cells, 14(4).

Padman BS, et al. (2025) AI-directed voxel extraction and volume EM identify intrusions as sites of mitochondrial contact. The Journal of cell biology, 224(10).

Molteni R, et al. (2025) Mechanisms of hematopoietic clonal dominance in VEXAS syndrome. Nature medicine, 31(6), 1911.

- Buhr A, et al. (2025) Neprilysin 4 controls acrosome structure and male fertility in *Drosophila melanogaster*. *Communications biology*, 8(1), 1701.
- Li W, et al. (2025) An apical ring protein essential for conoid complex assembly and daughter cell formation in *Toxoplasma gondii*. *Nature communications*, 16(1), 10149.
- Nilsson CI, et al. (2025) Somatostatin triggers local cAMP and Ca²⁺ signaling in primary cilia to modulate pancreatic β -cell function. *The EMBO journal*, 44(6), 1663.
- Suvanto MT, et al. (2025) Isolation and genetic characterization of a novel Kevo orbivirus and a strain of Mobuck virus from *Ochlerotatus communis* mosquitoes in Finland. *The Journal of general virology*, 106(6).
- Miyata T, et al. (2025) Phagophores originate from endoplasmic reticulum membranes in vasopressin neurons in a mouse model of familial neurohypophysial diabetes insipidus. *Cell and tissue research*, 402(2), 139.
- Sakthivelu V, et al. (2025) Functional synapses between neurons and small cell lung cancer. *Nature*, 646(8087), 1243.
- Eli S, et al. (2025) Localized Wnt-signaling promotes asymmetric NuMA-dependent oriented divisions and unequal apportioning of mitochondria. *Nature communications*, 16(1), 10690.
- Szkalitsy Á, et al. (2025) Nuclear envelope-associated lipid droplets are enriched in cholesteryl esters and increase during inflammatory signaling. *The EMBO journal*, 44(10), 2774.
- Mangin CC, et al. (2025) Magnetotactic bacteria affiliated with diverse *Pseudomonadota* families biomineralize intracellular Ca-carbonate. *The ISME journal*, 19(1).
- Strnad M, et al. (2025) Targeted volume imaging reveals early vascular interactions of Lyme disease pathogen in skin. *Nature communications*, 16(1), 9330.
- Abdollahzadeh A, et al. (2025) Scattering approach to diffusion quantifies axonal damage in brain injury. *Nature communications*, 16(1), 9808.
- Jürgens K, et al. (2025) The ARVC-5-associated protein TMEM43 controls mitochondrial energy metabolism by stabilising ER-mitochondrial contact sites. *Cellular and molecular life sciences : CMLS*, 82(1), 400.