

Resource Summary Report

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Cell Image Library (CIL)

RRID:SCR_003510

Type: Tool

Proper Citation

Cell Image Library (CIL) (RRID:SCR_003510)

Resource Information

URL: <http://www.cellimagelibrary.org/>

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Description: Freely accessible, public repository of vetted and annotated microscopic images, videos, and animations of cells from a variety of organisms, showcasing cell architecture, intracellular functionalities, and both normal and abnormal processes. Explore by Cell Process, Cell Component, Cell Type or Organism. The Cell includes images acquired from historical and modern collections, publications, and by recruitment.

Abbreviations: CIL

Synonyms: Cell Image Library. CIL, Cell Image Library (CIL)

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

Defining Citation: [PMID:34218671](#), [PMID:34218673](#)

Keywords: microscopic image repository, microscopic video repository, cell animation repository, bio.tools

Funding: NIGMS RC2 GM092708

Availability: Free, Freely available

Resource Name: Cell Image Library (CIL)

Resource ID: SCR_003510

Alternate IDs: biotools:cellimagelibrary, nif-0000-37639, r3d100011601

Alternate URLs: <http://www.cellimagelibrary.org/pages/about>,
<https://bio.tools/cellimagelibrary>, <https://doi.org/10.17616/R3N92J>

Record Creation Time: 20220129T080219+0000

Record Last Update: 20260821T042627+0000

Ratings and Alerts

No rating or validation information has been found for Cell Image Library (CIL).

No alerts have been found for Cell Image Library (CIL).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Cavalcante GC, et al. (2026) An open-source code to analyze mitochondrial intracellular distribution from fluorescence microscopy images. Bioscience reports, 46(7).

Narwaria M, et al. (2026) Deep learning-based image super-resolution in microscopy: Why more pixels do not imply higher resolving ability? Journal of microscopy.

Varikasuvu SR, et al. (2026) Mitochondria and moon: footprints shaping life's evolution and cosmic exploration. Advances in physiology education, 50(2), 370.

Pang M, et al. (2025) CelloType: a unified model for segmentation and classification of tissue images. Nature methods, 22(2), 348.

Choy J, et al. (2025) Population-level morphological analysis of paired CO₂ - and odor-sensing olfactory neurons in *D. melanogaster* via volume electron microscopy. bioRxiv : the preprint server for biology.

Mun SK, et al. (2023) Visualization of Metastatic Lung Cancer with TiNIR. Tomography (Ann Arbor, Mich.), 9(4), 1187.

Shrestha P, et al. (2023) Efficient end-to-end learning for cell segmentation with machine generated weak annotations. Communications biology, 6(1), 232.

van Hemert F, et al. (2021) A Novel Dual Antibody Staining Assay to Measure Estrogen Receptor Transcriptional Activity. Journal of fluorescence, 31(1), 219.

Murphy F, et al. (2021) A tool for assessing alignment of biomedical data repositories with open, FAIR, citation and trustworthy principles. PloS one, 16(7), e0253538.

Zegarra-Valdivia JA, et al. (2021) Reduced Insulin-Like Growth Factor-I Effects in the Basal Forebrain of Aging Mouse. Frontiers in aging neuroscience, 13, 682388.

Kim YK, et al. (2021) Morphometric Analysis of Retinal Pigment Epithelial Cells From C57BL/6J Mice During Aging. *Investigative ophthalmology & visual science*, 62(2), 32.

Lee CT, et al. (2020) An Open-Source Mesh Generation Platform for Biophysical Modeling Using Realistic Cellular Geometries. *Biophysical journal*, 118(5), 1003.

Nishimoto S, et al. (2019) Predicting the future direction of cell movement with convolutional neural networks. *PloS one*, 14(9), e0221245.

Lee JK, et al. (2018) Replication-dependent size reduction precedes differentiation in *Chlamydia trachomatis*. *Nature communications*, 9(1), 45.

Katchalski T, et al. (2018) Iron-specific Signal Separation from within Heavy Metal Stained Biological Samples Using X-Ray Microtomography with Polychromatic Source and Energy-Integrating Detectors. *Scientific reports*, 8(1), 7553.

Wen Y, et al. (2017) Quantitative analysis and comparison of 3D morphology between viable and apoptotic MCF-7 breast cancer cells and characterization of nuclear fragmentation. *PloS one*, 12(9), e0184726.

Hammerling BC, et al. (2017) A Rab5 endosomal pathway mediates Parkin-dependent mitochondrial clearance. *Nature communications*, 8, 14050.

Kitayama J, et al. (2016) Intraperitoneal Mesenchymal Cells Promote the Development of Peritoneal Metastasis Partly by Supporting Long Migration of Disseminated Tumor Cells. *PloS one*, 11(5), e0154542.

Boassa D, et al. (2014) Pannexin2 oligomers localize in the membranes of endosomal vesicles in mammalian cells while Pannexin1 channels traffic to the plasma membrane. *Frontiers in cellular neuroscience*, 8, 468.

Wu L, et al. (2013) A prescribed Chinese herbal medicine improves glucose profile and ameliorates oxidative stress in Goto-Kakisaki rats fed with high fat diet. *PloS one*, 8(4), e60262.