

Resource Summary Report

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University of Massachusetts Light Microscopy Core Facility

RRID:SCR_021148

Type: Tool

Proper Citation

University of Massachusetts Light Microscopy Core Facility (RRID:SCR_021148)

Resource Information

URL: <https://www.umass.edu/ials/light-microscopy>

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Description: Core provides resources for imaging model organisms, tissue, cells, biomaterials, and artificial structures and houses equipment including almost every light microscopy imaging modality presently available. Cell culture facilities are also available nearby as well as other routine items necessary for biological imaging and material imaging. This facility has been designated Nikon Centers of Excellence, thus providing unique opportunity for training, demonstration, instrument development, and research. We excel in use of telemicroscopy through use of remote imaging sessions, remote control of all instruments, and remote data analysis sessions available to all users. Provides training to all users that plan to conduct experimentation. Following an initial consultation in which experimental requirements, expected outcomes, and careful scrutiny of feasibility, training and/or access is arranged through the Director.

Synonyms: UMass-Amherst Light Microscopy Facility, University of Massachusetts Amherst UMass-Amherst Light Microscopy Facility

Resource Type: access service resource, core facility, service resource

Keywords: USEDit, imaging model organisms, tissue imaging, cells imaging, biomaterials imaging, light microscopy imaging, ABRF, ABRF

Resource Name: University of Massachusetts Light Microscopy Core Facility

Resource ID: SCR_021148

Alternate IDs: ABRF_1170

Alternate URLs: <https://coremarketplace.org/?FacilityID=1170>

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260829T183323+0000

Ratings and Alerts

No rating or validation information has been found for University of Massachusetts Light Microscopy Core Facility.

No alerts have been found for University of Massachusetts Light Microscopy Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Rompfrey MJ, et al. (2026) A trypanosome trifecta: an independently tunable triple inducible system for genetic studies in *Trypanosoma brucei*. *mSphere*, 11(4), e0059625.

Xie T, et al. (2026) Self-organized anteroposterior regionalization of early midbrain and hindbrain/spinal cords using micropatterned human pluripotent stem cells. *SLAS technology*, 38, 100419.

Lu RH, et al. (2026) Polymeric Lysosome-Targeting Chimeras (PolyTACs): Extracellular Targeted Protein Degradation without Co-Opting Lysosome-Targeting Receptors. *Journal of the American Chemical Society*, 148(1), 1259.

Pham TG, et al. (2026) Orthogonal RNA-regulated destabilization domains for three-color RNA imaging with minimal RNA perturbation. *Nature methods*, 23(1), 165.

Armstrong R, et al. (2025) An independently tunable dual control system for RNAi complementation in *Trypanosoma brucei*. *PloS one*, 20(5), e0321334.

Nayyab S, et al. (2025) Identification of TSSK1 and TSSK2 as Novel Targets for Male Contraception. *Biomolecules*, 15(4).

Garman G, et al. (2025) An Automated Analysis Pipeline for Microglia Morphology in Nikon NIS-Elements. *Journal of biomolecular techniques : JBT*, 36(2).

Agrohia DK, et al. (2024) Suborgan Level Quantitation of Proteins in Tissues Delivered by Polymeric Nanocarriers. *ACS nano*, 18(26), 16808.

Canniff NP, et al. (2023) TTC17 is an endoplasmic reticulum resident TPR-containing adaptor protein. *The Journal of biological chemistry*, 299(12), 105450.

Nan Q, et al. (2023) The OPAQUE1/DISCORDIA2 myosin XI is required for phragmoplast guidance during asymmetric cell division in maize. *The Plant cell*, 35(7), 2678.

Tourzani DA, et al. (2022) Sperm Energy Restriction and Recovery (SER) Alters Epigenetic Marks during the First Cell Cycle of Development in Mice. *International journal of molecular sciences*, 24(1).

Cueto C, et al. (2022) Polystyrene-based Macromolecular Ammonium Halides for Tuning Color and Exchange Kinetics of Perovskite Nanocrystals. *Angewandte Chemie (International ed. in English)*, 61(37), e202207126.

Fan X, et al. (2022) Graphene-Enabled High-Performance Electrokinetic Focusing and Sensing. *ACS nano*, 16(7), 10852.

Spool JA, et al. (2021) Genetically identified neurons in avian auditory pallium mirror core principles of their mammalian counterparts. *Current biology : CB*, 31(13), 2831.

Tourzani DA, et al. (2021) Caput Ligation Renders Immature Mouse Sperm Motile and Capable to Undergo cAMP-Dependent Phosphorylation. *International journal of molecular sciences*, 22(19).

Kim M, et al. (2021) mTERF18 and ATAD3 are required for mitochondrial nucleoid structure and their disruption confers heat tolerance in *Arabidopsis thaliana*. *The New phytologist*, 232(5), 2026.