

Resource Summary Report

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Colorado University Boulder BioFrontiers Advanced Light Microscopy Core Facility

RRID:SCR_018302

Type: Tool

Proper Citation

Colorado University Boulder BioFrontiers Advanced Light Microscopy Core Facility
(RRID:SCR_018302)

Resource Information

URL: <https://www.colorado.edu/sharedinstrumentation/biofrontiers-advanced-light-microscopy-core-rrid-scr018302>

Proper Citation: Colorado University Boulder BioFrontiers Advanced Light Microscopy Core Facility (RRID:SCR_018302)

Description: Facility designed to advance biological discovery through quantitative microscopy techniques. Houses multiple imaging technologies ranging from conventional widefield to state-of-the-art Super Resolution/localization microscopies. Offers N-STORM Super Resolution Microscopy, Laser Scanning Confocal Microscopy, Widefield Fluorescence Microscopy, Spinning Disc Confocal Microscopy, Total Internal Reflection Fluorescence (TIRF) Microscopy, Long-Term Imaging with Temperature, Oxygen, Carbon Dioxide, and Humidity Control, High-Content Screening, Analysis Workstation.

Synonyms: BioFrontiers Advanced Light Microscopy Core, University of Colorado Boulder BioFrontiers Advanced Light Microscopy Core

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

Keywords: Quantitative microscopy, imaging technology, microscope, laser scanning, confocal microscopy, fluorescence microscopy, analysis, ABRF

Availability: Open

Resource Name: Colorado University Boulder BioFrontiers Advanced Light Microscopy Core Facility

Resource ID: SCR_018302

Alternate IDs: ABRF_1008

Alternate URLs: <https://coremarketplace.org/?FacilityID=1008>

Old URLs: <https://bficores.colorado.edu/imaging-facility>

Record Creation Time: 20220129T080339+0000

Record Last Update: 20260905T133416+0000

Ratings and Alerts

No rating or validation information has been found for Colorado University Boulder BioFrontiers Advanced Light Microscopy Core Facility.

No alerts have been found for Colorado University Boulder BioFrontiers Advanced Light Microscopy Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 118 mentions in open access literature.

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

Passanisi V, et al. (2026) Replicative senescence induction in single cells is not predicted by telomere length, dysfunction, or oxidation. *iScience*, 29(3), 114801.

Khang A, et al. (2026) Integration and harmonization of cell shape images for generative modeling. *bioRxiv* : the preprint server for biology.

Nebenfuehr B, et al. (2026) Uncovering genetic interactions in the DNA repair network in response to endogenous damage and ionizing radiation. *Cell reports*, 45(1), 116850.

Strand KA, et al. (2026) Atomic Layering Thermostable Antigen and Adjuvant (ALTA ®) platform provides unique antigen delivery system through controlled release to improve immune response to vaccination. *bioRxiv* : the preprint server for biology.

Chang TL, et al. (2026) Activating FGFR1 restores Integrin- α 1-mediated fibronectin sensing in satellite cells of aged mice. *bioRxiv* : the preprint server for biology.

Lee ES, et al. (2026) Single-molecule tracking of DNMT1 in living cells reveals its cell cycle dynamics and its redistribution upon drug treatment. *Nucleic acids research*, 54(4).

Ordonez AD, et al. (2026) An ancient retrotransposon provides species-specific tuning of IL-18 inflammatory signaling. *bioRxiv* : the preprint server for biology.

Chaudhary N, et al. (2026) Atomic layer deposition for core-shell microparticle vaccines enabling programmable antigen delivery to lymph nodes enhance humoral immune

responses. bioRxiv : the preprint server for biology.

Nakamura K, et al. (2026) Dynamic Regulation of Granular Hydrogels Through Guest-Host Interactions to Spatiotemporally Guide Cellular Migration. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(5), e12971.

Matthews AM, et al. (2026) The retroelement-derived human protein PEG10 is a regulator of mRNA splicing in neurons. bioRxiv : the preprint server for biology.

Wierzba AJ, et al. (2026) Enhancement of RNA Imaging Platforms by the Use of Peptide Nucleic Acid-Based Linkers. *Bio-protocol*, 16(12), e5453.

Trindade D, et al. (2026) Bioactive and Injectable Granular Hydrogels Incorporating Decellularized Extracellular Matrix. *ACS biomaterials science & engineering*, 12(3), 1787.

Decker CJ, et al. (2026) Nuclear tau aggregates inhibit RNA export and form by secondary seeding from cytosolic tau aggregates. bioRxiv : the preprint server for biology.

Zlotnick HM, et al. (2026) Synovial fibroblasts modulate endothelial activation in an acute injury-on-a-chip model. *Proceedings of the National Academy of Sciences of the United States of America*, 123(20), e2524677123.

Taylor ER, et al. (2026) Local heterochromatin enrichment promotes telomere clustering and PML nuclear body assembly at telomeres. *Cell reports*, 45(3), 117004.

Strand KA, et al. (2026) Atomic layering thermostable antigen and adjuvant (ALTA®) provides unique, controlled antigen release to improve immune response to vaccination. *Journal of controlled release : official journal of the Controlled Release Society*, 395, 114984.

Boyer NP, et al. (2026) Spectrin condensates provide a nidus for assembling the axonal membrane-associated periodic skeleton. *iScience*, 29(1), 114454.

Riffe MB, et al. (2026) Injectable Bi-layered Cryogel Scaffolds for Targeted Adhesion to Tissues. *ACS macro letters*, 15(2), 244.

Borelli AN, et al. (2025) Ligand presentation controls collective MSC response to matrix stress relaxation in hybrid PEG-HA hydrogels. *Bioactive materials*, 44, 152.

Dahlgren K, et al. (2025) Spatial proteomics reveals signal sequence characteristics correlated with localization in cyanobacteria. *Plant physiology*, 198(4).