

# 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, service resource, core facility

**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:** 20260729T044443+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 96 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [nidm-terms](#) .

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

Martin TG, et al. (2025) Cytoplasmic CaMKII $\gamma$ -B prevents myocardial recovery in heart failure. bioRxiv : the preprint server for biology.

Khong A, et al. (2025) Stress granules promote quiescence by enhancing p21 levels and reducing phospho-Rb. RNA (New York, N.Y.), 31(10), 1472.

Wu G, et al. (2025) Rapid dynamics allow the low-abundance RTEL1 helicase to promote telomere replication. Nucleic acids research, 53(5).

Fernandez B, et al. (2025) Single-cell RNA sequencing reveals distinct senotypes and a quiescence-senescence continuum at the transcriptome level following chemotherapy. bioRxiv : the preprint server for biology.

Zlotnick HM, et al. (2025) Synovial fibroblasts support vascular function in an acute injury-on-a-chip model. bioRxiv : the preprint server for biology.

Sullivan AE, et al. (2025) The Panoptes system uses decoy cyclic nucleotides to defend against phage. Nature, 647(8091), 988.

Bera K, et al. (2025) Nuclei sense complex tissue shape and direct intestinal stem cell fate. bioRxiv : the preprint server for biology.

Di Caprio N, et al. (2025) Programmed shape transformations in cell-laden granular composites. *Science advances*, 11(3), eadq5011.

Cheng LY, et al. (2025) Impact of G-tract RNAs and the DHX36 helicase on stress granule composition and formation. *bioRxiv : the preprint server for biology*.

Curry SD, et al. (2025) Binding affinity and transport studies of engineered photocrosslinkable affibody-enzyme-nanoparticle constructs. *Nanoscale advances*, 7(8), 2239.

Palacio M, et al. (2025) Real-time visualization of reconstituted transcription reveals RNA polymerase II activation mechanisms at single promoters. *bioRxiv : the preprint server for biology*.

Palacio M, et al. (2025) Real-time visualization of reconstituted transcription reveals RNAPII activation mechanisms at single promoters. *Cell reports*, 44(9), 116251.

Wierzbaj AJ, et al. (2025) Unveiling the promise of peptide nucleic acids as functional linkers for an RNA imaging platform. *RSC chemical biology*, 6(2), 249.

Parker DM, et al. (2025) Protocol for determining the contribution of protein and RNA to condensate organization by permeabilizing and enzyme-treating live U-2 OS cells. *STAR protocols*, 6(2), 103744.

Caro TA, et al. (2025) Dissolved inorganic carbon supports robust anabolism and methanogenesis in actively serpentinizing rocks. *bioRxiv : the preprint server for biology*.

Cheng LY, et al. (2025) DHX36 modulates stress granule assembly independent of recruitment of mRNAs with G-quadruplex sequence motifs. *Nucleic acids research*, 53(18).

Skillin NP, et al. (2025) Anisotropic liquid crystalline hydrogels direct 2D and 3D myoblast alignment. *Advanced functional materials*.

Ouyang JPT, et al. (2025) DM1 repeat-expanded RNAs confer RNA toxicity as individual nuclear-retained RNAs. *Cell reports*, 44(5), 115582.

Ledvina HE, et al. (2025) Functional amyloid proteins confer defence against predatory bacteria. *Nature*, 644(8075), 197.