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

Funding:

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

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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.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 60 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID.

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

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.

Powell WC, et al. (2024) Post-Translational Modifications Control Phase Transitions of Tau. bioRxiv : the preprint server for biology.

Saemundsson SA, et al. (2024) Controlling cellular packing and hypoxia in 3D tumor spheroids via DNA interactions. Biomaterials science, 12(18), 4759.

Harrell AG, et al. (2024) Dissolved gases from pressure changes in the lungs elicit an immune response in human peripheral blood. Bioengineering & translational medicine, 9(5),

e10657.

Ripin N, et al. (2024) DDX6 modulates P-body and stress granule assembly, composition, and docking. The Journal of cell biology, 223(6).

Crocini C, et al. (2024) Postprandial cardiac hypertrophy is sustained by mechanics, epigenetic, and metabolic reprogramming in pythons. Proceedings of the National Academy of Sciences of the United States of America, 121(36), e2322726121.

Miller SG, et al. (2024) Cooperative polarization of MCAM/CD146 and ERM family proteins in melanoma. Molecular biology of the cell, 35(3), ar31.

Skillin NP, et al. (2024) Stiffness anisotropy coordinates supracellular contractility driving long-range myotube-ECM alignment. Science advances, 10(22), eadn0235.

Hebner TS, et al. (2024) Radical-Mediated Degradation of Thiol-Maleimide Hydrogels. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(25), e2402191.

Erickson KD, et al. (2024) Proteome profiling of polyomavirus nuclear replication centers using iPOND. Journal of virology, 98(11), e0079024.

Ill CR, et al. (2024) BRAFV600 and ErbB inhibitors directly activate GCN2 in an off-target manner to limit cancer cell proliferation. bioRxiv : the preprint server for biology.

Kirkpatrick BE, et al. (2024) Photochemical Control of Network Topology in PEG Hydrogels. Advanced materials (Deerfield Beach, Fla.), e2409603.

Buvoli M, et al. (2024) A Laing distal myopathy-associated proline substitution in the ?-myosin rod perturbs myosin cross-bridging activity. The Journal of clinical investigation, 134(9).

Ohnsorg ML, et al. (2024) Nonlinear Elastic Bottlebrush Polymer Hydrogels Modulate Actomyosin Mediated Protrusion Formation in Mesenchymal Stromal Cells. Advanced materials (Deerfield Beach, Fla.), 36(28), e2403198.

Jaeschke MW, et al. (2024) Engineering a Hydrazone and Triazole Crosslinked Hydrogel for Extrusion-Based Printing and Cell Delivery. Advanced healthcare materials, 13(20), e2400062.

Sekar RP, et al. (2024) Poly(l-glutamic acid) augments the transfection performance of lipophilic polycations by overcoming tradeoffs among cytotoxicity, pDNA delivery efficiency, and serum stability. RSC applied polymers, 2(4), 701.

Green-Fulgham SM, et al. (2024) Interleukin-1beta and inflammasome expression in spinal cord following chronic constriction injury in male and female rats. Brain, behavior, and immunity, 115, 157.

Day NB, et al. (2024) Magnetic Cellular Backpacks for Spatial Targeting, Imaging, and Immunotherapy. ACS applied bio materials, 7(8), 4843.

Bassett S, et al. (2024) Light-Driven Metabolic Pathways in Non-Photosynthetic Biohybrid Bacteria. Chembiochem : a European journal of chemical biology, 25(2), e202300572.