Resource Summary Report

Generated by NIF on Aug 23, 2026

University of California at Los Angeles California NanoSystems Institute Advanced Light Microscopy and Spectroscopy Core Facility

RRID:SCR_022789
Type: Tool

Proper Citation

University of California at Los Angeles California NanoSystems Institute Advanced Light Microscopy and Spectroscopy Core Facility (RRID:SCR_022789)

Resource Information

URL: https://alms.cnsi.ucla.edu/become-a-user/

Proper Citation: University of California at Los Angeles California NanoSystems Institute Advanced Light Microscopy and Spectroscopy Core Facility (RRID:SCR_022789)

Description: Offers microscopy services, consultation, and support for application of novel microscopic and spectroscopic methods and advanced image analysis techniques for study of macromolecules, cellular dynamics and nano-scale characterization of bio-materials. Provides collection of customized biological fluorescence microscopes and small-animal imaging devices to study biological processes with high spatial and temporal resolution in whole organisms and in living cells down to single molecule detection level with nanometer accuracy. Located in basement and second floor of CNSI building, two optical suites designed to house microscopes with the required environment control (low vibration, air-filtered, air-conditioned and light-tight) and services. Services include Wide-field Fluorescence Imaging Microscopy (on a limited basis), Confocal One-Photon and Two-Photon Laser Scanning Microscopy, (both point scanning and spinning disk), Fluorescence Correlation Spectroscopy (FCS), Fluorescence Resonance Energy Transfer (FRET), microscopic and macroscopic Fluorescence Lifetime Imaging (FLIM) with Time-Correlated-Single-Photon-Counting (TCSPC) and Near-Infrared (NIR) Detection, Stimulated Emission Depletion laser-scanning microscopy (STED) (a super-resolution technique), both microscopic and macroscopic (small animal) spectral unmixing and laser capture microdissection.

Abbreviations: ALMS

Synonyms: UCLA CNSI Advanced Light Microscopy & Spectroscopy Core, Advanced Light Microscopy & Spectroscopy Core

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

Keywords: USEDit, ABRF, Wide-field Fluorescence Imaging Microscopy, Confocal One-Photon and Two-Photon Laser Scanning Microscopy, Fluorescence Correlation Spectroscopy, Fluorescence Resonance Energy Transfer, microscopic and macroscopic Fluorescence Lifetime Imaging, Time-Correlated-Single-Photon-Counting, Near-Infrared Detection, Stimulated Emission Depletion laser-scanning microscopy, microscopic and macroscopic spectral unmixing, laser capture microdissection

Resource Name: University of California at Los Angeles California NanoSystems Institute Advanced Light Microscopy and Spectroscopy Core Facility

Resource ID: SCR_022789

Alternate IDs: ABRF_1567

Alternate URLs: https://coremarketplace.org/?FacilityID=1567&citation=1

License URLs: https://alms.cnsi.ucla.edu/policies/

Record Creation Time: 20220928T050155+0000

Record Last Update: 20260821T194225+0000

Ratings and Alerts

No rating or validation information has been found for University of California at Los Angeles California NanoSystems Institute Advanced Light Microscopy and Spectroscopy Core Facility.

No alerts have been found for University of California at Los Angeles California NanoSystems Institute Advanced Light Microscopy and Spectroscopy Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Schmidt WC, et al. (2026) Intercalated bacterial biofilms are intrinsic internal components of calcium-based kidney stones. Proceedings of the National Academy of Sciences of the United States of America, 123(5), e2517066123.

Wang J, et al. (2026) A Continuum of Atrial Peristalsis Initiates the Bicuspid to Quadricuspid Valve Transition. bioRxiv : the preprint server for biology.

Schwartz LA, et al. (2026) Tre-DST: A Drug Susceptibility Test for Mycobacterium tuberculosis Using Solvatochromic Trehalose Probes. ACS infectious diseases, 12(1), 460.

Kashani Ligumsky L, et al. (2026) Placenta accreta spectrum: disrupted collagen architecture at a previous scar is a defining characteristic of placental adherence. American journal of obstetrics and gynecology, 233(6S), S645.

Xu H, et al. (2026) Investigation of the myelin-amyloid interplay in Alzheimer's disease: insights from novel dsCMA imaging in mouse and human brains. Acta neuropathologica communications, 14(1).

Storey CM, et al. (2025) Development of a leucine-rich repeat-containing protein 15-targeted radio-immunotheranostic approach to deplete pro-tumorigenic mechanisms and immunotherapy resistance. Signal transduction and targeted therapy, 10(1), 319.

Daskou M, et al. (2025) Phosphatidylserine receptors TIM-1 and AXL mediate tick-borne Powassan virus entry. iScience, 28(12), 113930.

Wang J, et al. (2025) Mechanically activated snai1b coordinates the initiation of myocardial delamination for trabeculation. Nature communications, 16(1), 8363.

Jeyachandran AV, et al. (2025) Differential tropisms of old and new world hantaviruses influence virulence and developing host-directed antiviral candidates. PLoS pathogens, 21(8), e1013401.

Valencia DA, et al. (2025) Human formin FHOD3-mediated actin elongation is required for sarcomere integrity in cardiomyocytes. eLife, 13.

Jenkins RA, et al. (2025) Leveraging bioorthogonal conjugation for alpha synuclein fibril surveillance. bioRxiv : the preprint server for biology.

Schwartz LA, et al. (2025) Tre-DST: A new drug susceptibility test for Mycobacterium tuberculosis using solvatochromic trehalose probes. bioRxiv : the preprint server for biology.

Davoodi E, et al. (2025) Imaging-guided deep tissue in vivo sound printing. Science (New York, N.Y.), 388(6747), 616.

Moffatt C, et al. (2025) Radiation Fibrosis of the Epiglottis: Histopathology and Multiphoton Imaging of Collagen and Elastin. The Laryngoscope.

Fiala M, et al. (2025) Inhibitors of soluble epoxide hydrolase and cGAS/STING repair defects in amyloid-?? clearance underlying vascular complications of Alzheimer's disease. Journal of Alzheimer's disease : JAD, 104(1), 150.

Carmona J, et al. (2025) Transverse Sheet Illumination Microscopy. bioRxiv : the preprint server for biology.

Rajasenan V, et al. (2025) Pressurized photobonding for 3D-printed inertial and droplet microfluidics. Lab on a chip, 25(21), 5663.

Valencia DA, et al. (2024) Human formin FHOD3-mediated actin elongation is required for sarcomere integrity in cardiomyocytes. bioRxiv : the preprint server for biology.

Du W, et al. (2024) Myosin II mediates Shh signals to shape dental epithelia via control of cell adhesion and movement. PLoS genetics, 20(6), e1011326.

Kim PH, et al. (2024) Progerin forms an abnormal meshwork and has a dominant-negative effect on the nuclear lamina. Proceedings of the National Academy of Sciences of the United States of America, 121(27), e2406946121.