

Resource Summary Report

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University of California at Berkeley Cancer Research Laboratory Molecular Imaging Center Core Facility

RRID:SCR_017852

Type: Tool

Proper Citation

University of California at Berkeley Cancer Research Laboratory Molecular Imaging Center Core Facility (RRID:SCR_017852)

Resource Information

URL: <http://crl.berkeley.edu/molecular-imaging-center/>

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Description: Microscopy core specializing in laser based fluorescence techniques. Offers training and expertise in 20 different microscope systems, including live cell and in vivo imaging, laser scanning (LSM) and spinning disk (SDC) confocal, multi-photon (2p), fluorescent lifetime imaging (FLIM), light-sheet microscopy (SPIM), super resolution (Airyscan), slide scanning and patterned illumination for optogenetic manipulation and readout. Provides offline computer analysis workstations for image processing, visualization and analysis, including GPU workstations. MIC operates in 3 different buildings on campus, with primary locations in Life Sciences Addition (LSA), North-side core in Barker Hall, and small outpost in Li Ka Shing Center for Biomedical and Health Sciences (LKS). Provides equipment in categories: Confocal and multi photon laser scanning microscopes, Spinning disk confocal microscopes, Lightsheet (SPIM) microscopes, Epifluorescence/widefield scopes and Computer workstations.

Abbreviations: MIC

Synonyms: CRL Molecular Imaging Center

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

Keywords: Molecular, imaging, microscopy, system, laser, based, fluorescent, technique, live, cell, in vivo, slide, scanning, image, processing, visualization, analysis, service, core

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NCRR S10 RR027696;
NEI R01 EY015514;
NSF DBI 0116016

Availability: Open

Resource Name: University of California at Berkeley Cancer Research Laboratory
Molecular Imaging Center Core Facility

Resource ID: SCR_017852

Alternate IDs: ABRF_659

Record Creation Time: 20220129T080337+0000

Record Last Update: 20260805T044413+0000

Ratings and Alerts

No rating or validation information has been found for University of California at Berkeley Cancer Research Laboratory Molecular Imaging Center Core Facility.

No alerts have been found for University of California at Berkeley Cancer Research Laboratory Molecular Imaging Center Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 64 mentions in open access literature.

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

Bakshinska D, et al. (2025) Synapse-specific catecholaminergic modulation of neuronal glutamate release. Proceedings of the National Academy of Sciences of the United States of America, 122(1), e2420496121.

Hu M, et al. (2025) Druggable genome CRISPRi screen in 3D hydrogels reveals regulators of cortactin-driven actin remodeling in invading glioblastoma cells. bioRxiv : the preprint server for biology.

Turner MA, et al. (2025) Novel Fluorescent and Photoconvertible Fusions Reveal Dorsal Activator Dynamics. bioRxiv : the preprint server for biology.

Fong VC, et al. (2025) Optogenetic restoration of high-sensitivity vision using ChRmine- and ChroME-based channelrhodopsins. *Scientific reports*, 15(1), 21204.

Craig RJ, et al. (2025) Targeted genetic manipulation and yeast-like evolutionary genomics in the green alga *Auxenochlorella*. *The Plant cell*, 37(11).

Kumar M, et al. (2025) Lipoxin B4 Mitigates TRPV4-Activated Müller Cell Gliosis During Ocular Hypertension. *bioRxiv : the preprint server for biology*.

Plitt MH, et al. (2025) Octopamine instructs head direction plasticity. *bioRxiv : the preprint server for biology*.

He Y, et al. (2025) Bioenergetic responses to α -adrenergic stimulation in beige adipocyte depend on actomyosin driven forces. *bioRxiv : the preprint server for biology*.

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Voke E, et al. (2025) Protein corona formed on lipid nanoparticles compromises delivery efficiency of mRNA cargo. *Nature communications*, 16(1), 8699.

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Craig RJ, et al. (2025) Targeted genetic manipulation and yeast-like evolutionary genomics in the green alga *Auxenochlorella*. *bioRxiv : the preprint server for biology*.

Llacsahuanga-Allicca LE, et al. (2025) The Kaposi's sarcoma-associated herpesvirus TBP mimic uses a noncanonical DNA-binding mode to promote viral late gene transcription. *Nucleic acids research*, 53(19).

Hsiao Y, et al. (2025) Persistent large-scale changes in alternative splicing in prefrontal cortical neuron types following psychedelic exposure. *bioRxiv : the preprint server for biology*.

Tommasini D, et al. (2025) Comparative transcriptomic insights into the evolution of vertebrate photoreceptor types. *Current biology : CB*, 35(10), 2228.

Aisenberg EE, et al. (2025) Gastrin-releasing peptide signaling in the nucleus accumbens medial shell regulates neuronal excitability and motivation. *Nature communications*, 16(1), 9314.

Squire HJ, et al. (2025) Best Practices and Pitfalls in Developing Nanomaterial Delivery Tools for Plants. *ACS nano*, 19(1), 7.

Manohar BD, et al. (2025) Efficient in vivo mammalian neuron editing using peptide-mediated CRISPR enzyme delivery. *bioRxiv : the preprint server for biology*.

Comito D, et al. (2025) The distribution of gonadotropin-inhibitory hormone (GnIH) and its receptor in zebra finch (*Taeniopygia guttata*) spinal cord. *General and comparative endocrinology*, 368, 114733.

Mao X, et al. (2025) Cytoplasmic mRNA decay by the anti-viral nuclease RNase L promotes transcriptional repression. bioRxiv : the preprint server for biology.