

Resource Summary Report

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Laboratory for Fluorescence Dynamics

RRID:SCR_001437

Type: Tool

Proper Citation

Laboratory for Fluorescence Dynamics (RRID:SCR_001437)

Resource Information

URL: <http://www.lfd.uci.edu/>

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Description: Biomedical technology research center and training resource that develops novel fluorescence technologies, including instrumentation, methods and software applicable to cellular imaging and the elucidation of dynamic processes in cells. The LFD's main activities are: * Services and Resources: the LFD provides a state-of-the-art laboratory for fluorescence measurements, microscopy and spectroscopy, with technical assistance to visiting scientists. * Research and Development: the LFD designs, tests, and implements advances in the technology of hardware, software, and biomedical applications. * Training and Dissemination: the LFD disseminates knowledge of fluorescence spectroscopic principles, instrumentation, and applications to the scientific community.

Abbreviations: LFD

Synonyms: Laboratory for Fluorescence Dynamics (LFD)

Resource Type: biomedical technology research center, training resource, service resource, access service resource

Keywords: fluorescence, measurement, microscopy, spectroscopy, biochemistry, cell culture, data analysis, biomolecule, membrane, in-vitro, optical spectroscopy, biological process, tissue culture, fluorescence microscopy, optical and laser technology center

Funding: NIGMS 8P41GM103540;
NCRR 5P41RR003155

Availability: Restricted

Resource Name: Laboratory for Fluorescence Dynamics

Resource ID: SCR_001437

Alternate IDs: nlx_152663

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260728T043112+0000

Ratings and Alerts

No rating or validation information has been found for Laboratory for Fluorescence Dynamics.

No alerts have been found for Laboratory for Fluorescence Dynamics.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Tan W, et al. (2025) MORC2 is a phosphorylation-dependent DNA compaction machine. Nature communications, 16(1), 5606.

Keenan SN, et al. (2025) HSD17 β 11 regulates PLIN5-ATGL mediated lipolysis, but not hepatic lipid metabolism in mice. Journal of lipid research, 66(12), 100943.

Young TA, et al. (2024) Glutamate Transport Proteins and Metabolic Enzymes are Poor Prognostic Factors in Invasive Lobular Carcinoma. bioRxiv : the preprint server for biology.

Pan A, et al. (2024) Identification of homologous protein models via 3D comparisons using predicted structures. STAR protocols, 5(1), 102814.

Freda I, et al. (2023) Structural insights into the DNA recognition mechanism by the bacterial transcription factor PdxR. Nucleic acids research, 51(15), 8237.

Hachey SJ, et al. (2023) A human vascularized microtumor model of patient-derived colorectal cancer recapitulates clinical disease. Translational research : the journal of laboratory and clinical medicine, 255, 97.

Qifti A, et al. (2022) Deformation of caveolae impacts global transcription and translation processes through relocalization of cavin-1. The Journal of biological chemistry, 298(6), 102005.

Sallaberry I, et al. (2021) In vivo pair correlation microscopy reveals dengue virus capsid protein nucleocytoplasmic bidirectional movement in mammalian infected cells. Scientific

reports, 11(1), 24415.

McCann AJ, et al. (2021) A dominant-negative SOX18 mutant disrupts multiple regulatory layers essential to transcription factor activity. *Nucleic acids research*, 49(19), 10931.

Hu T, et al. (2021) Bioinformatics resources for SARS-CoV-2 discovery and surveillance. *Briefings in bioinformatics*, 22(2), 631.

Keenan SN, et al. (2021) Perilipin 5 S155 phosphorylation by PKA is required for the control of hepatic lipid metabolism and glycemic control. *Journal of lipid research*, 62, 100016.

Oltmanns S, et al. (2020) NOSA, an Analytical Toolbox for Multicellular Optical Electrophysiology. *Frontiers in neuroscience*, 14, 712.

Lou J, et al. (2020) Spatiotemporal dynamics of 53BP1 dimer recruitment to a DNA double strand break. *Nature communications*, 11(1), 5776.

Zhou C, et al. (2020) A Novel Greenhouse-Based System for the Detection and Plumpness Assessment of Strawberry Using an Improved Deep Learning Technique. *Frontiers in plant science*, 11, 559.

Gabriel M, et al. (2020) Dengue Virus Capsid Protein Dynamics Reveals Spatially Heterogeneous Motion in Live-Infected-Cells. *Scientific reports*, 10(1), 8751.

Makaremi S, et al. (2020) Lateral diffusion of CD14 and TLR2 in macrophage plasma membrane assessed by raster image correlation spectroscopy and single particle tracking. *Scientific reports*, 10(1), 19375.

Shi W, et al. (2020) Pre-processing visualization of hyperspectral fluorescent data with Spectrally Encoded Enhanced Representations. *Nature communications*, 11(1), 726.

Boutant E, et al. (2020) Zinc Fingers in HIV-1 Gag Precursor Are Not Equivalent for gRNA Recruitment at the Plasma Membrane. *Biophysical journal*, 119(2), 419.

Zhang S, et al. (2020) Nuclear bodies formed by polyQ-ataxin-1 protein are liquid RNA/protein droplets with tunable dynamics. *Scientific reports*, 10(1), 1557.

Eamegdool SS, et al. (2020) Extracellular matrix and oxidative stress regulate human retinal pigment epithelium growth. *Free radical biology & medicine*, 146, 357.