Resource Summary Report

Generated by NIF on Apr 8, 2025

Laser Microbeam and Medical Program

RRID:SCR_001409
Type: Tool

Proper Citation

Laser Microbeam and Medical Program (RRID:SCR_001409)

Resource Information

URL: http://lammp.bli.uci.edu/

Proper Citation: Laser Microbeam and Medical Program (RRID:SCR_001409)

Description: Biomedical technology research center dedicated to the use of lasers and optics in biology and medicine with activities in technological research and development, collaborative research, service, training, and dissemination. One of the primary goals of LAMMP is to facilitate translational research by rapidly moving basic science and technology discoveries from blackboard to benchtop to bedside. This is accomplished by combining state of the art optical technologies with specialized resource facilities for cell and tissue engineering, histopathology, pre-clinical animal models, and clinical care. The resource center has been organized into 3 cores: * Microscopy and Microbeam Technologies (MMT) for high-resolution functional imaging and manipulation of living cells and tissues * Medical Translational Technologies (MTT) for non- and minimally-invasive monitoring, treating, and imaging pre-clinical animal models and human subjects, and * Virtual Photonics Technologies (VPT) for developing computational models and methods that advance the performance of biophotonic technologies, and enhance the information content derived from optical measurements. LAMMP cores contain complementary technologies that are capable of quantitatively characterizing, imaging, and perturbing structure and biochemical function in cells and tissues with scalable resolution and depth sensitivity ranging from micrometers to centimeters.

Abbreviations: LAMMP

Resource Type: biomedical technology research center, training resource

Keywords: laser, optics, biology, medicine, imaging, microscopy, microbeam, photonics, computational model, cell, tissue

Funding: NIBIB P41EB015890

Resource Name: Laser Microbeam and Medical Program

Resource ID: SCR_001409

Alternate IDs: nlx_152631

Record Creation Time: 20220129T080207+0000

Record Last Update: 20250407T215209+0000

Ratings and Alerts

No rating or validation information has been found for Laser Microbeam and Medical Program.

No alerts have been found for Laser Microbeam and Medical Program.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Ganesan G, et al. (2016) Diffuse optical spectroscopic imaging of subcutaneous adipose tissue metabolic changes during weight loss. International journal of obesity (2005), 40(8), 1292.

Martins-Green M, et al. (2014) Cigarette smoke toxins deposited on surfaces: implications for human health. PloS one, 9(1), e86391.

Mazhar A, et al. (2011) Laser speckle imaging in the spatial frequency domain. Biomedical optics express, 2(6), 1553.

Hirschberg H, et al. (2009) Targeted delivery of bleomycin to the brain using photo-chemical internalization of Clostridium perfringens epsilon prototoxin. Journal of neuro-oncology, 95(3), 317.