Resource Summary Report

Generated by NIF on May 19, 2025

Vermont University Larner College of Medicine Microscopy Imaging Center Core Facility

RRID:SCR_018821
Type: Tool

Proper Citation

Vermont University Larner College of Medicine Microscopy Imaging Center Core Facility (RRID:SCR_018821)

Resource Information

URL: http://www.med.uvm.edu/mic

Proper Citation: Vermont University Larner College of Medicine Microscopy Imaging Center Core Facility (RRID:SCR_018821)

Description: Core provides imaging equipment including JEOL 1400 transmission electron microscope with AMT 11 megapixel digital camera,JEOL JSM 6060 scanning electron microscope with attached Oxford INCA energy dispersive spectroscopy detector for element analysis,Nikon Air HD confocal scanning laser microscope, Nikon C2 confocal scanning laser microscope, Andor Spinning Disk confocal microscope, Zeiss LSM 7 Multiphoton confocal microscope, Nikon STORM super-resolution light microscope, Olympus BX50 research microscope for transmitted light, phase contrast, and epi-fluorescence microscopy, Asylum Research MFP-3D BIO atomic force microscope, Asylum Research Cypher Environmental atomic force microscope,Arcturus XT-Ti Laser Capture Microdissector system, Olympus IX70 inverted microscope with associated Applied BioPhysics Electri Cell-Substrate Impedance Sensing (ECIS Ztheta) system, Leica VERSA 8 whole slide imager, Dell workstations containing Molecular Devices MetaMorph image analysis software for complex quantitative image analysis, Indica Labs HALO software, Improvision Volocity, MBR StereoInvestigator.

Abbreviations: MIC

Synonyms: UVM - Microscopy Imaging Center, Vermont University Larner College of Medicine Microscopy Imaging Center

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

Keywords: USEDit, microscopy imaging, transmission electron microscope, microscope, image analysis service, ABRF

Funding: NCRR S10RR025498;
NIH Office of the Director 1S10OD025030

Availability: Open

Resource Name: Vermont University Larner College of Medicine Microscopy Imaging Center Core Facility

Resource ID: SCR_018821

Alternate IDs: ABRF_22

Alternate URLs: https://coremarketplace.org/?FacilityID=22

Record Creation Time: 20220129T080342+0000

Record Last Update: 20250517T060405+0000

Ratings and Alerts

No rating or validation information has been found for Vermont University Larner College of Medicine Microscopy Imaging Center Core Facility.

No alerts have been found for Vermont University Larner College of Medicine Microscopy Imaging Center Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 35 mentions in open access literature.

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

Li Z, et al. (2024) P. aeruginosa tRNA-fMet halves secreted in outer membrane vesicles suppress lung inflammation in cystic fibrosis. American journal of physiology. Lung cellular and molecular physiology, 326(5), L574.

Sarkar S, et al. (2024) Extracellular vesicles secreted by primary human bronchial epithelial

cells reduce Pseudomonas aeruginosa burden and inflammation in cystic fibrosis mouse lung. American journal of physiology. Lung cellular and molecular physiology, 326(2), L164.

Fabian-Fine R, et al. (2024) Myelinated Glial Cells: Their Proposed Role in Waste Clearance and Neurodegeneration in Arachnid and Human Brain. The Journal of comparative neurology, 532(11), e70000.

Shore AN, et al. (2024) Heterozygous expression of a Kcnt1 gain-of-function variant has differential effects on somatostatin- and parvalbumin-expressing cortical GABAergic neurons. eLife, 13.

Mead AF, et al. (2024) Functional role of myosin-binding protein H in thick filaments of developing vertebrate fast-twitch skeletal muscle. bioRxiv : the preprint server for biology.

Lombardo AT, et al. (2024) ARHGAP18-ezrin functions as an autoregulatory module for RhoA in the assembly of distinct actin-based structures. eLife, 13.

Charron PN, et al. (2024) Whey Protein Isolate Composites as Potential Scaffolds for Cultivated Meat. ACS applied bio materials, 7(4), 2153.

Gagna CE, et al. (2024) Novel B-DNA dermatophyte assay for demonstration of canonical DNA in dermatophytes: Histopathologic characterization by artificial intelligence. Clinics in dermatology.

Li Z, et al. (2024) P. aeruginosa tRNA-fMet halves secreted in outer membrane vesicles suppress lung inflammation in Cystic Fibrosis. bioRxiv : the preprint server for biology.

Bensel BM, et al. (2024) Kinesin-1-transported liposomes prefer to go straight in 3D microtubule intersections by a mechanism shared by other molecular motors. Proceedings of the National Academy of Sciences of the United States of America, 121(29), e2407330121.

Bensel BM, et al. (2023) "Spatial Relationships Matter: Kinesin-1 Molecular Motors Transport Liposome Cargo Through 3D Microtubule Intersections In Vitro". bioRxiv : the preprint server for biology.

Shore AN, et al. (2023) Heterozygous expression of a Kcnt1 gain-of-function variant has differential effects on SST- and PV-expressing cortical GABAergic neurons. bioRxiv : the preprint server for biology.

Hoffman ET, et al. (2023) Human alveolar hydrogels promote morphological and transcriptional differentiation in iPSC-derived alveolar type 2 epithelial cells. Scientific reports, 13(1), 12057.

Bouffard NA, et al. (2023) Novel post-acquisition image processing to attenuate red blood cell autofluorescence for quantitative image analysis. Histochemistry and cell biology, 159(2), 119.

Kiyokage E, et al. (2023) Effects of estradiol on dopaminergic synapse formation in the mouse olfactory bulb. The Journal of comparative neurology, 531(4), 528.

Korwin-Mihavics BR, et al. (2023) Organoid-based in vitro systems to model Cryptosporidium parvum infection in 2D and 3D. bioRxiv : the preprint server for biology.

Snoke DB, et al. (2023) Skeletal muscle adaptations in patients with lung cancer: Longitudinal observations from the whole body to cellular level. Journal of cachexia, sarcopenia and muscle, 14(6), 2579.

Villalba N, et al. (2023) The Polyanionic Drug Suramin Neutralizes Histones and Prevents Endotheliopathy. Journal of immunology (Baltimore, Md. : 1950), 211(4), 648.

Bruno S, et al. (2023) Deletion of Miro1 in airway club cells potentiates allergic asthma phenotypes. Frontiers in allergy, 4, 1187945.

Dragon J, et al. (2023) Perfluoroalkyl Substances (PFAS) Affect Inflammation in Lung Cells and Tissues. International journal of molecular sciences, 24(10).