Resource Summary Report

Generated by dkNET on Jul 29, 2026

University of Massachusetts Medical School Sanderson Center for Optical Experimentation Core Facility

RRID:SCR_022721
Type: Tool

Proper Citation

University of Massachusetts Medical School Sanderson Center for Optical Experimentation Core Facility (RRID:SCR_022721)

Resource Information

URL: https://www.umassmed.edu/scope/

Proper Citation: University of Massachusetts Medical School Sanderson Center for Optical Experimentation Core Facility (RRID:SCR_022721)

Description: Offers tools and expertise for quantitative microscopy techniques including super resolution imaging, multi photon intravital and live tissue imaging, confocal microscopy, and high speed time lapse imaging.Offers commercial and custom built microscopes, training and access to light microscopes, imaging services including whole slide scanning, MERFISH spatial transcriptomics, NanoString GeoMx DSP services, and image analysis support. Wet lab facilities, including cell culture, are also available at this BL2 facility. Imaging at BSL3 is available upon request.Offers remote imaging and data analysis sessions, including remote control of all instruments and workstations. All users are trained individually prior to use of the SCOPE equipment and workstations.

Abbreviations: UMass Chan - SCOPE

Synonyms: University of Massachusetts Medical School UMass Chan - SCOPE, UMass Chan - SCOPE

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

Keywords: USEDit, ABRF, quantitative microscopy, super resolution imaging, multi photon intravital and live tissue imaging, confocal microscopy, high speed time lapse imaging

Availability: open

Resource Name: University of Massachusetts Medical School Sanderson Center for Optical Experimentation Core Facility

Resource ID: SCR_022721

Alternate IDs: ABRF_1524

Alternate URLs: https://coremarketplace.org/?FacilityID=1524&citation=1

Record Creation Time: 20220902T050154+0000

Record Last Update: 20260729T044541+0000

Ratings and Alerts

No rating or validation information has been found for University of Massachusetts Medical School Sanderson Center for Optical Experimentation Core Facility.

No alerts have been found for University of Massachusetts Medical School Sanderson Center for Optical Experimentation Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Jeffries AM, et al. (2025) Single-cell transcriptomic and genomic changes in the ageing human brain. Nature, 646(8085), 657.

Oomen ME, et al. (2025) Mitotic chromosomes harbor cell type- and species-specific structural features within a universal loop array conformation. Genome research, 35(8), 1733.

Shaib AH, et al. (2025) One-step nanoscale expansion microscopy reveals individual protein shapes. Nature biotechnology, 43(9), 1539.

McConnell J, et al. (2025) The HDL-transporting scavenger receptor B1 promotes viral infection through endolysosomal acidification. iScience, 28(6), 112501.

Fike AJ, et al. (2025) IRF7 controls spontaneous autoimmune germinal center and plasma cell checkpoints. bioRxiv : the preprint server for biology.

Bazzone LE, et al. (2024) ADAM9 promotes type I interferon-mediated innate immunity during encephalomyocarditis virus infection. Nature communications, 15(1), 4153.

Shakiba S, et al. (2024) Spatial characterization of interface dermatitis in cutaneous lupus reveals novel chemokine ligand-receptor pairs that drive disease. bioRxiv : the preprint server for biology.

Smullen M, et al. (2023) Reliable multiplex generation of pooled induced pluripotent stem cells. Cell reports methods, 3(9), 100570.

Chibaya L, et al. (2023) EZH2 inhibition remodels the inflammatory senescence-associated secretory phenotype to potentiate pancreatic cancer immune surveillance. Nature cancer.

Lotun A, et al. (2023) Renewal of oligodendrocyte lineage reverses dysmyelination and CNS neurodegeneration through corrected N-acetylaspartate metabolism. Progress in neurobiology, 226, 102460.