

Resource Summary Report

Generated by SPARC SAWG on Sep 17, 2026

University of Nebraska Medical Center Multiphoton Intravital and Tissue Imaging Core Facility

RRID:SCR_022478

Type: Tool

Proper Citation

University of Nebraska Medical Center Multiphoton Intravital and Tissue Imaging Core Facility (RRID:SCR_022478)

Resource Information

URL: <https://www.unmc.edu/vcr/cores/vcr-cores/small-animal-imaging/miti/index.html>

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Description: Core provides intravital imaging equipment to acquire advanced descriptive and quantitative data for imaging studies. Includes Olympus FVMPE-RS advanced multiphoton microscope, multichannel, multiphoton excitation system specifically tailored for intravital and deep tissue imaging. System is additionally equipped with 458 and 588 nm stimulation laser lines for photobleaching, light stimulation and/or photoactivation of various fluorescent or caged constructs. Uses Spectra-Physics InSight X3 dual-line, tunable multiphoton laser for ultrafast, multichannel imaging. Available Neurotar Mobile Home Cage allows researchers to integrate real-time imaging with behavioral/locomotion tracking. Offers training and access to imaging system, support in design of experimental procedures, acquisition of image data, and analysis of acquired images.

Abbreviations: MITI

Synonyms: University of Nebraska Medical Center UNMC Multiphoton Intravital & Tissue Imaging (MITI) Core, UNMC Multiphoton Intravital & Tissue Imaging (MITI) Core

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

Keywords: USEDit, ABRF, intravital imaging, imaging studies, tissue imaging

Availability: open

Resource Name: University of Nebraska Medical Center Multiphoton Intravital and Tissue Imaging Core Facility

Resource ID: SCR_022478

Alternate IDs: ABRF_1376

Alternate URLs: <https://coremarketplace.org/?FacilityID=1376&citation=1>

Record Creation Time: 20220614T050142+0000

Record Last Update: 20260912T200417+0000

Ratings and Alerts

No rating or validation information has been found for University of Nebraska Medical Center Multiphoton Intravital and Tissue Imaging Core Facility.

No alerts have been found for University of Nebraska Medical Center Multiphoton Intravital and Tissue Imaging Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Dunne JB, et al. (2026) Spatial Proteomics of the Normal Breast Collagen Stroma: Links to Density and Body Mass Index. Journal of proteome research, 25(3), 1403.

Hussein HA, et al. (2026) Peptide-Based Dual-Readout Biosensor for the Detection of the Anti-Foot and Mouth Disease Virus Nonstructural Protein Antibodies. ACS sensors, 11(3), 1977.

Kitzerow O, et al. (2025) Anatomical mapping of neural lineages expressing the transient receptor potential vanilloid type 1 receptor using a modified and combined PACT and CUBIC protocol for rapid tissue clearance. Acta physiologica (Oxford, England), 241(2), e14275.

Dunne JB, et al. (2025) Spatial Proteomics of the Normal Breast Collagen Stroma: Links to BI-RADS Categories and Body Mass Index. bioRxiv : the preprint server for biology.

Alsamraae M, et al. (2023) Androgen receptor inhibition suppresses anti-tumor neutrophil response against bone metastatic prostate cancer via regulation of T??RI expression. Cancer letters, 579, 216468.