

Resource Summary Report

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Geisel School of Medicine at Dartmouth DCC Irradiation, Imaging, Microscopy and Animal Cancer Models Core Facility

RRID:SCR_025077

Type: Tool

Proper Citation

Geisel School of Medicine at Dartmouth DCC Irradiation, Imaging, Microscopy and Animal Cancer Models Core Facility (RRID:SCR_025077)

Resource Information

URL: <https://cancer.dartmouth.edu/scientists-researchers/irradiation-imaging-microscopy-animal-resource>

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Description: Integrated core offers services in Irradiation, pre-clinical imaging of small and large animals, light and electron microscopy, large and small animal cancer models. Irradiation Section assists investigators in radiation treatment planning and delivery of ionizing irradiation to cells, rodents and large animals with engineered, transplanted or spontaneous tumors. Imaging Section provides technologies for non-invasive, whole-animal imaging of animals used in preclinical research studies. Microscopy Section provides access to point scanning confocal microscopy with Airyscan super resolution, conventional bright field and fluorescence light microscopy, high throughput live imaging, automated slide scanning and image analysis resources. Electron microscopy resource provides scanning transmission electron microscopy. Animal Cancer Models section supports generation and utilization of large and small animals for modeling cancer and other human diseases. Section has expertise in generating cancer models using wild type or genetically engineered animals in immunocompetent and immunocompromised backgrounds, as well as mice with humanized immune system.

Synonyms: , Microscopy and Animal Cancer Models, Geisel School of Medicine at Dartmouth DCC Irradiation, Imaging, DCC-Irradiation

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

Keywords: ABRF, Irradiation, Imaging, Microscopy, Animal Cancer Models,

Resource Name: Geisel School of Medicine at Dartmouth DCC Irradiation, Imaging, Microscopy and Animal Cancer Models Core Facility

Resource ID: SCR_025077

Alternate IDs: ABRF_2657

Alternate URLs: <https://coremarketplace.org/?FacilityID=2657&citation=1>

Record Creation Time: 20240305T200905+0000

Record Last Update: 20260912T200437+0000

Ratings and Alerts

No rating or validation information has been found for Geisel School of Medicine at Dartmouth DCC Irradiation, Imaging, Microscopy and Animal Cancer Models Core Facility.

No alerts have been found for Geisel School of Medicine at Dartmouth DCC Irradiation, Imaging, Microscopy and Animal Cancer Models Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Ubert CS, et al. (2026) Combining Oxygen-Enhanced MRI and Electron Paramagnetic Resonance Oximetry for Quantitative OE-MRI (qOE-MRI) as a Method for Mapping Absolute Oxygen Levels (pO₂) in Tumors. *Magnetic resonance in medicine*, 96(3), 1502.

Garc??a HA, et al. (2026) Evaluation of analytical models to estimate depth of fluorescence objects in biological media. *Journal of biomedical optics*, 31(2), 026003.

Graber DJ, et al. (2026) 5xFAD-NSG mice: a preclinical Alzheimer model for human cell therapy studies. *bioRxiv : the preprint server for biology*.

Marshall AC, et al. (2026) Mapping breast cancer lineage in radiation and immunotherapy using the REMAP mouse. *bioRxiv : the preprint server for biology*.

Bostwick-Galaviz AM, et al. (2026) Redox index and capacity analysis (RICA) reveals NAD biology changes in T cell responses in vitro and ex vivo. *Journal of immunology* (Baltimore, Md. : 1950), 215(4).

Ubert CS, et al. (2026) A Flexible RF Coil Design (OxyTrack) for Oxygen Measurements in Body Cavities. *Magnetic resonance in medicine*, 95(3), 1879.

Ubert CS, et al. (2026) Oxygen Response Index: A Potential OE-MRI-Derived Non-Invasive Biomarker for Assessing Radiation Treatment Efficacy. *Magnetic resonance in medicine*, 96(4), 1893.

Ubert CS, et al. (2026) A high-performance ceramic volume coil for preclinical MRI. *Journal of magnetic resonance (San Diego, Calif. : 1997)*, 383, 108019.

Li X, et al. (2026) A programmable bioresorbable electrochemical microneedle sensor array for perioperative monitoring of organ health. *Nature biomedical engineering*.

Demidova N, et al. (2025) Optical coherence tomography for label-free detection and characterization of methicillin-resistant *S. aureus* biofilms. *Journal of biomedical optics*, 30(4), 046003.

Demidov VV, et al. (2025) Integrating optical coherence tomography and bioluminescence with predictive modeling for quantitative assessment of methicillin-resistant *S. aureus* biofilms. *Journal of biomedical optics*, 30(Suppl 3), S34111.

Kamerkar SC, et al. (2025) The tumor suppressor LACTB remodels mitochondria to promote cytochrome c release and apoptosis. *Science advances*, 11(46), eadx7809.