Resource Summary Report

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Northeastern University Institute for Chemical Imaging of Living Systems Core Facility

RRID:SCR_022681
Type: Tool

Proper Citation

Northeastern University Institute for Chemical Imaging of Living Systems Core Facility (RRID:SCR_022681)

Resource Information

URL: http://cils.northeastern.edu/facilities

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Description: Located in ISEC research center and includes advanced imaging instruments. CILS has three core facilities: Microscopy Core (confocal/multi-photon/lightsheet microscopes), Flow Cytometry Core (cell analyzer/sorter) and Preclinical Imaging Core (3T small animal MRI and ultrasound).

Abbreviations: CILS

Synonyms: NU-Institute for Chemical Imaging of Living Systems, Northeastern University NU-Institute for Chemical Imaging of Living Systems Core Facility

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

Keywords: USEDit, ABRF, Lightsheet, Multi-photon, MRI, Ultrasound, MST, AFM

Resource Name: Northeastern University Institute for Chemical Imaging of Living Systems Core Facility

Resource ID: SCR_022681

Alternate IDs: ABRF_1499

Alternate URLs: https://coremarketplace.org/?FacilityID=1499&citation=1

Record Creation Time: 20220818T050143+0000

Record Last Update: 20260804T043746+0000

Ratings and Alerts

No rating or validation information has been found for Northeastern University Institute for Chemical Imaging of Living Systems Core Facility.

No alerts have been found for Northeastern University Institute for Chemical Imaging of Living Systems Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 20 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Raustad N, et al. (2025) A phosphorylation signal activates genome-wide transcriptional control by BfmR, the global regulator of Acinetobacter resistance and virulence. Nucleic acids research, 53(4).

Zhong X, et al. (2025) Elemental Composition and Degradation Rate Impact the Biocompatibility of Copper Chalcogenide Nanocrystals. bioRxiv : the preprint server for biology.

Cavanaugh M, et al. (2025) Mechanotransductive N-cadherin binding induces differentiation in human neural stem cells. Mechanobiology in medicine, 3(1), 100099.

Reich-Veillette K, et al. (2025) A Multi-Tetracycline Responsive Induction System for Gene Expression in Bacillus subtilis. bioRxiv : the preprint server for biology.

Timilsina S, et al. (2025) Methods for assessing and removing non-specific photoimmunotherapy damage in patient-derived tumor cell culture models. Photochemistry and photobiology, 101(1), 4.

Liu C, et al. (2025) Systemic inflammation reduces astrocyte Ca 2+ and neurovascular coupling in a mouse model of Alzheimer's disease. bioRxiv : the preprint server for biology.

Griffiths JR, et al. (2025) A Characterization of Axolotl Digit Regeneration: Conserved Mechanisms, Divergent Patterning, and a Critical Role for Hedgehog Signaling. bioRxiv : the preprint server for biology.

Hamrangsekachaee M, et al. (2025) Engineering Mechanical Microenvironments: Integration of Substrate and Flow Mechanics Reveals the Impact on the Endothelial Glycocalyx. ACS biomaterials science & engineering, 11(6), 3416.

Meslier QA, et al. (2025) Combined Effects of Mechanical Loading and Piezo1 Chemical Activation on 22-Months-Old Female Mouse Bone Adaptation. Aging cell, 24(8), e70087.

Timilsina S, et al. (2025) Identification of potential cell surface targets in patient-derived cultures toward photoimmunotherapy of high-grade serous ovarian cancer. Photochemistry and photobiology.

Mitra R, et al. (2025) Co-therapy with S1P and heparan sulfate derivatives to restore endothelial glycocalyx and combat pro-atherosclerotic endothelial dysfunction. Life sciences, 377, 123662.

Meslier QA, et al. (2025) 3D spatial distribution of Sost mRNA and sclerostin protein expression in response to in vivo tibia loading in female mice. Bone, 193, 117422.

Lynch WB, et al. (2024) Validation studies and multi-omics analysis of Zhx2 as a candidate quantitative trait gene underlying brain oxycodone metabolite (oxymorphone) levels and behavior. bioRxiv : the preprint server for biology.

Silverman AA, et al. (2024) Tension in the ranks: Cooperative cell contractions drive force-dependent collagen assembly in human fibroblast culture. Matter, 7(4), 1533.

Perera-Gonzalez M, et al. (2024) Fast quantitative MRI: Spiral Acquisition Matching-Based Algorithm (SAMBA) for Robust T1 and T2 Mapping. Journal of magnetic resonance open, 20.

Mitra R, et al. (2024) Co-Therapy with S1P and Heparan Sulfate Derivatives to Restore Endothelial Glycocalyx and Combat Pro-Atherosclerotic Endothelial Dysfunction. bioRxiv : the preprint server for biology.

Ma KY, et al. (2024) pH-responsive i-motif-conjugated nanoparticles for MRI analysis. Sensors & diagnostics, 3(4), 623.

Okorafor CC, et al. (2024) Mechanisms of triple-negative breast cancer extravasation: Impact of the physical environment and endothelial glycocalyx. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 38(13), e23785.

Altamia MA, et al. (2024) Wooden steps to shallow depths: A new bathymodiolin mussel, Vadumodiolus teredinicola, inhabits shipworm burrows in an ancient submarine forest. Deep-sea research. Part I, Oceanographic research papers, 204.

Bertucci T, et al. (2023) Direct differentiation of human pluripotent stem cells into vascular network along with supporting mural cells. APL bioengineering, 7(3), 036107.