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: access service resource, core facility, service resource

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: 20260821T194229+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 28 mentions in open access literature.

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

Zhong X, et al. (2026) Elemental Composition and Degradation Rate Impact the Biocompatibility of Copper Chalcogenide Nanocrystals. ACS applied materials & interfaces, 18(9), 14169.

Reich-Veillette K, et al. (2026) A multi-tetracycline responsive induction system for gene expression in Bacillus subtilis. Applied and environmental microbiology, 92(5), e0021026.

Griffiths JR, et al. (2026) A characterization of axolotl digit regeneration: conserved mechanisms, divergent patterning, and a critical role for hedgehog signaling. NPJ Regenerative medicine, 11(1).

Xu M, et al. (2026) Mammalian-like steroidogenesis in plants gives rise to endocrine-mimetic cardenolides. Science advances, 12(16), eaeb5460.

Cardenas-Rivera A, et al. (2026) Chronic Aerobic Exercise Alleviates Amyloid-induced Capillary Dysfunction. bioRxiv : the preprint server for biology.

Baig MMJ, et al. (2026) An Integrated Multiphoton Imaging Workflow for Quantitative Analysis of Aortic Tissue Microstructure. bioRxiv : the preprint server for biology.

Liu C, et al. (2026) Prolonged systemic inflammation worsens impairments to astrocyte Ca2+ and functional hyperemia in Alzheimer's disease. Alzheimer's & dementia : the journal of the Alzheimer's Association, 22(7), e71607.

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.

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.

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.

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.

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.

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. (2025) Validation studies and multiomics analysis of Zhx2 as a candidate quantitative trait gene underlying brain oxycodone metabolite (oxymorphone) levels and behavior. The Journal of pharmacology and experimental therapeutics, 392(5), 103557.

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.