

Resource Summary Report

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Northwestern University NUANCE BioCryo Core Facility

RRID:SCR_021288

Type: Tool

Proper Citation

Northwestern University NUANCE BioCryo Core Facility (RRID:SCR_021288)

Resource Information

URL: <https://nuance.northwestern.edu/facilities/biocryo/index.html>

Proper Citation: Northwestern University NUANCE BioCryo Core Facility (RRID:SCR_021288)

Description: Provides source for characterization of biological, soft matter, and hybrid samples with TEM (Transmission Electron Microscopy), SEM (Scanning Electron Microscopy), and STEM (Scanning Transmission Electron Microscopy) at cryogenic or at ambient temperature. Provide expertise and access to equipment for cryofixation and processing of frozen hydrated samples by high pressure freezing, plunge freezing, freeze fracturing, cryo ultramicrotomy, freeze substitution, and turbo freeze-drying. Conventional samples can be processed at ambient temperature with chemical fixation, dehydration, and resin embedding, or critical point drying. Offers EDX (Energy Dispersive X-ray Spectroscopy) for elemental analysis. Offers training on instruments and sample preparation techniques. BioCryo staff mentors new users, advises on experimental design, and collaborates with researchers in experiments with challenging and unconventional samples. BioCryo Facility participates in numerous educational and outreach events, e.g. workshops, seminars, demos, and facility tours.

Synonyms: BioCryo Facility - part of NUANCE

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

Keywords: USEDit, ABRF

Resource Name: Northwestern University NUANCE BioCryo Core Facility

Resource ID: SCR_021288

Alternate IDs: ABRF_836

Alternate URLs: <https://coremarketplace.org/?FacilityID=836>

Old URLs: <http://www.nuance.northwestern.edu/biocryo/index.html>

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260905T133421+0000

Ratings and Alerts

No rating or validation information has been found for Northwestern University NUANCE BioCryo Core Facility.

No alerts have been found for Northwestern University NUANCE BioCryo Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Lewis JA, et al. (2026) Nonionic peptide amphiphiles and their supramolecular co-assemblies tune charge density and bioactivity. *Journal of materials chemistry. B*, 14(20), 6252.

Jankoski PE, et al. (2026) Cell-Laden Supramolecular and Covalent Polymer Hydrogels for High-Shear Delivery: A Design of Experiments Approach. *Chemistry of materials : a publication of the American Chemical Society*, 38(5), 2357.

Boucher JD, et al. (2026) Distinguishing Pseudotransduction and True Transduction Enables Characterization and Bioengineering of Extracellular Vesicle-Adeno-Associated Virus Vectors. *Journal of extracellular vesicles*, 15(4), e70258.

Metlushko A, et al. (2026) Design of Neuronal Supramolecular Scaffolds Integrating Cell Signaling and Electrical Conductivity. *ACS biomaterials science & engineering*, 12(4), 2285.

Pavlovi? RZ, et al. (2026) Probing Supramolecular Motion with Nuclear Magnetic Resonance in Bioactive Scaffolds that Promote Neural Regeneration in the Central Nervous System. *Journal of the American Chemical Society*, 148(17), 18004.

Christenson GN, et al. (2026) Vibronic Dynamics Localize Charge in Photoexcited CoFe Prussian Blue Analogue Nanoparticles. *The journal of physical chemistry letters*, 17(10), 2871.

Chiu J, et al. (2026) High-Curvature Features Improve Targeting of Nanoconstructs with Small-Molecule Ligands. *Nano letters*, 26(13), 4394.

Almunif S, et al. (2025) Engineering the Size of Bicontinuous Nanospheres via Multi-Inlet Vortex Mixing. *Nano letters*, 25(50), 17398.

Li Y, et al. (2025) Cocrystals combining order and correlated disorder via colloidal crystal engineering with DNA. *Science advances*, 11(16), eadu4919.

Boucher JD, et al. (2025) Distinguishing Protein and Gene Delivery Enables Characterization and Bioengineering of Extracellular Vesicle-Adeno-Associated Virus Vectors. *bioRxiv : the preprint server for biology*.

Seale JSW, et al. (2025) Active Transport of Macrocycles into Micelles Using Molecular Pumps. *Angewandte Chemie (International ed. in English)*, 64(46), e202512899.

Li WS, et al. (2025) Mature chromatin packing domains persist after RAD21 depletion in 3D. *Science advances*, 11(4), eadp0855.

Vijayan V, et al. (2025) Structure-specific Mini-Prion Model for Alzheimer's Disease Tau Fibrils. *bioRxiv : the preprint server for biology*.

Kranz DL, et al. (2025) Identification of a glia-associated amyloid γ oligomer subtype and the rescue from reactive astrogliosis by inhibitor NU-9. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(12), e70968.

Almassalha LM, et al. (2025) Chromatin conformation, gene transcription, and nucleosome remodeling as an emergent system. *Science advances*, 11(2), eadq6652.

Diloknawarit B, et al. (2025) High-Curvature Features on Branched Nanoconstructs Circumvent Protein Corona Interference. *ACS applied materials & interfaces*, 17(10), 15187.

Han Z, et al. (2025) Inverse Design of DNA-Programmable Protein Colloidal Crystals. *Journal of the American Chemical Society*, 147(44), 41087.