

# Resource Summary Report

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## Yale University Chemical and Biophysical Instrumentation Center Core Facility

RRID:SCR\_021738

Type: Tool

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### Proper Citation

Yale University Chemical and Biophysical Instrumentation Center Core Facility  
(RRID:SCR\_021738)

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### Resource Information

**URL:** <http://cbic.yale.edu>

**Proper Citation:** Yale University Chemical and Biophysical Instrumentation Center Core Facility (RRID:SCR\_021738)

**Description:** Core has range of instruments for characterization and structure elucidation of chemical and biophysical samples. Our staff maintains instruments and provides data collection services as well as training and support for self use of many of our instruments. We are most equipped in areas of NMR spectroscopy, Mass spectrometry and X-ray crystallography, but we also have optical and calorimetric instruments.

**Abbreviations:** CBIC

**Synonyms:** Yale Chemical and Biophysical Instrumentation Center

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

**Keywords:** USEDit, ABRF, NMR spectroscopy, Mass spectrometry, X-ray crystallography

**Resource Name:** Yale University Chemical and Biophysical Instrumentation Center Core Facility

**Resource ID:** SCR\_021738

**Alternate IDs:** ABRF\_1217

**Alternate URLs:** <https://coremarketplace.org/?FacilityID=1217>

**Record Creation Time:** 20220129T080357+0000

**Record Last Update:** 20260729T044531+0000

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## Ratings and Alerts

No rating or validation information has been found for Yale University Chemical and Biophysical Instrumentation Center Core Facility.

No alerts have been found for Yale University Chemical and Biophysical Instrumentation Center Core Facility.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 32 mentions in open access literature.

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

Patel S, et al. (2026) Biocatalytic Enantioselective Oxidation of N-Acyl-S-Methyl Sulfenamides for the Asymmetric Synthesis of S-Methyl Sulfoximines. *Organic letters*, 28(1), 304.

Um HS, et al. (2026) Asymmetric Desymmetrizing Sulfonylation of Diarylmethanes via Peptidyl-Cu(I)-Catalysis with Remote Stereocontrol. *Journal of the American Chemical Society*, 148(2), 2810.

Tampellini N, et al. (2025) Peptide-Catalyzed Asymmetric Amination of Sulfenamides Enabled by DFT-Guided Catalyst Optimization. *Journal of the American Chemical Society*, 147(44), 41122.

Fang D, et al. (2025) Investigation of TRMT61B methyltransferase activity on mRNA and its effects on translation. *bioRxiv : the preprint server for biology*.

Patel B, et al. (2025) Phase Separation Oppositely Modulates G-quadruplex and i-Motif DNA Folding in the Nuclei of Living Cells. *bioRxiv : the preprint server for biology*.

Peterson PO, et al. (2025) Catalyst-Controlled Site-Selective and Epimer-Selective Hydrogenations of Thiostrepton. *Journal of the American Chemical Society*, 147(20), 17161.

Dover TL, et al. (2025) Further Confirmation of the Structure of 3'-(2-Pyridyldithio)-3'-deoxyadenosine and 3'-Thio-3'-deoxyadenosine: Synthetic Convergence with Cordycepin. *The Journal of organic chemistry*, 90(26), 9295.

Yu J, et al. (2025) Phosphatidylcholine-derived carriers facilitate brain tumor delivery and enhance glioblastoma therapy. *Journal of controlled release : official journal of the Controlled Release Society*, 385, 113999.

Patel S, et al. (2025) Studies on the Mechanism of Styrene Elimination from Sulfilimines: Hammett and Kinetic Isotope Effect Analysis and Computation. *The Journal of organic*

chemistry, 90(32), 11597.

Long K, et al. (2025) A clinical-stage oncology compound selectively targets drug-resistant cancers. *bioRxiv : the preprint server for biology*.

Hegg AS, et al. (2025) Bypassing the Nitrido Wall Using a Redox-Active Isocyanide: Nucleophilic Attack on CO by a Rhenium Nitride Complex. *Angewandte Chemie (International ed. in English)*, 64(29), e202504245.

Coste SC, et al. (2025) Minisci Substitution with C-C Bond Formation in Reactions of Trityl Radicals with a Ruthenium-Bound Pyridyl-Imidazole Ligand. *Inorganic chemistry*, 64(39), 19573.

Backhaus A, et al. (2025) High-Concentration Multibranched Gold Nanoparticle Synthesis via Controllable Seeding. *Langmuir : the ACS journal of surfaces and colloids*, 41(29), 19354.

Fisher KJ, et al. (2025) Metal-Dependent Asynchronicity of Concerted Proton-Electron Transfer to a High-Valent Copper(III) Complex and Its Nickel(III) Analogue. *Inorganic chemistry*, 64(28), 14552.

Roe LT, et al. (2025) Site-selective protein editing by backbone extension acyl rearrangements. *Nature chemical biology*.

Pupavac D, et al. (2025) Computational Rational Design of Bridgehead Nitrogen Heterocyclic Azobenzene Photoswitches. *The Journal of organic chemistry*, 90(21), 7081.

Pinto Pereira Junior MV, et al. (2025) Enantioselective Hydrodifluoroalkylation of Alkenes with Conformationally Tuned Peptidyl Hydrogen Atom Transfer Catalysts. *Journal of the American Chemical Society*, 147(13), 11412.

Subbotina E, et al. (2024) Room temperature catalytic upgrading of unpurified lignin depolymerization oil into bisphenols and butene-2. *Nature communications*, 15(1), 5892.

Guo MC, et al. (2024) Catalyst-Substrate Pairings for Carbocyclic and Heterocyclic Systems in Atroposelective Quinazolinone Synthesis. *ACS catalysis*, 14(23), 17226.

Howell RA, et al. (2024) Bifunctional Molecules That Induce Both Targeted Degradation and Transcytosis of Extracellular Proteins in Brain Cells. *Journal of the American Chemical Society*.