

Resource Summary Report

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UMass Amherst Mass Spectrometry Core Facility

RRID:SCR_019063

Type: Tool

Proper Citation

UMass Amherst Mass Spectrometry Core Facility (RRID:SCR_019063)

Resource Information

URL: <http://www.umass.edu/ials/mass-spectrometry>

Proper Citation: UMass Amherst Mass Spectrometry Core Facility (RRID:SCR_019063)

Description: Core offers instrumentation for characterizing elements and compounds across the entire mass range. Specialized mass spectrometers encompass variety of ionization techniques and separation devices to cover wide range of analytical capabilities. Facility accepts samples and will perform requested analysis. Offers training to conduct experimentation. Instruments include Bruker Solarix FT-ICR, Bruker MicroTOF II ESI, Bruker MicroFLEX MALDI, JEOL MStation sector with EI and FAB sources.

Synonyms: UMass Amherst Mass Spectrometry Core

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

Keywords: USEDit, mass spectrometry, ABRF

Resource Name: UMass Amherst Mass Spectrometry Core Facility

Resource ID: SCR_019063

Alternate IDs: ABRF_1054

Alternate URLs: <https://coremarketplace.org/?FacilityID=1054>

Record Creation Time: 20220129T080343+0000

Record Last Update: 20260804T043709+0000

Ratings and Alerts

No rating or validation information has been found for UMass Amherst Mass Spectrometry Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 70 mentions in open access literature.

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

Wang C, et al. (2026) LPS-induced structural reorganization and polymerization drive noncanonical inflammasome activation. *Science advances*, 12(1), eadz4623.

Williams RV, et al. (2025) The cysteine-rich domain of SEP15, a selenoprotein co-chaperone of the ER chaperone, UDP-glucose:glycoprotein glucosyltransferase, adopts a novel fold. *bioRxiv* : the preprint server for biology.

Li Y, et al. (2025) Site-Specific Nanobody Inhibitors of the Proteasomal Deubiquitinase UCH37. *bioRxiv* : the preprint server for biology.

Shestoperova EI, et al. (2025) Computationally Driven Top-Down Mass Spectrometry of Ubiquitinated Proteins. *bioRxiv* : the preprint server for biology.

Tomlinson SJ, et al. (2025) Induced ubiquitination bypasses canonical ERAD to drive ER protein degradation. *bioRxiv* : the preprint server for biology.

Maqtedar A, et al. (2025) The nucleotide exchange factor, GrpE, modulates substrate affinity by interaction of its N-terminal tails with the DnaK substrate-binding domain. *bioRxiv* : the preprint server for biology.

Qi Y, et al. (2025) Odd-Even Effects Leading to Alternating Polymerization and Macrocyclization in Nitroaldol Reaction Systems. *Chemistry (Weinheim an der Bergstrasse, Germany)*, 31(27), e202404720.

Doungchawee J, et al. (2025) Mass Spectrometry Imaging Reveals That Gold Nanomaterial Surface Chemistry Affects Transport and Excretion in Mice over Time. *Chemical & biomedical imaging*, 3(7), 443.

Steppan CG, et al. (2025) Hydrophobic Polymer Zwitterions: Impacts of Silylsilane Substitution on Solution and Interfacial Properties. *Angewandte Chemie (International ed. in English)*, e202513143.

Bao H, et al. (2025) High-Precision Micro-Total Analysis of Sodium Ions in Breast Milk. *Sensors and actuators. B, Chemical*, 422.

Winters KJ, et al. (2025) Chemical Surface Modification Tolerance of Primary and Immortalized Macrophages and Stem Cells. *Chembiochem : a European journal of chemical biology*, 26(24), e202500185.

Rampal A, et al. (2025) Decellularization and Enzymatic Digestion Methods to Enhance ECM Protein Detection via MALDI-MS Imaging. *Analytical chemistry*, 97(1), 886.

Santarossa CC, et al. (2025) LetA defines a structurally distinct transporter family involved in lipid trafficking. *bioRxiv : the preprint server for biology*.

Khamnong K, et al. (2025) High-Throughput Screening of Amyloid Inhibitors via Covalent-Labeling Mass Spectrometry. *Analytical chemistry*, 97(25), 12989.

Hendrickson H, et al. (2024) Biochemical analysis of the TPS-a subfamily in *Medicago truncatula*. *Frontiers in plant science*, 15, 1349009.

Mathiowetz AJ, et al. (2024) CLCC1 promotes hepatic neutral lipid flux and nuclear pore complex assembly. *bioRxiv : the preprint server for biology*.

Williams RV, et al. (2024) Insights into the interaction between UGGT, the gatekeeper of folding in the ER, and its partner, the selenoprotein SEP15. *Proceedings of the National Academy of Sciences of the United States of America*, 121(34), e2315009121.

Qi Y, et al. (2024) Spontaneous and Selective Macrocyclization in Nitroaldol Reaction Systems. *The Journal of organic chemistry*, 89(2), 1091.

Fallon MA, et al. (2024) Molecular basis of one-step methyl anthranilate biosynthesis in grapes, sweet orange, and maize. *The Plant journal : for cell and molecular biology*, 119(5), 2363.

Raviranga NGH, et al. (2024) Antimicrobial Delivery Using Metallophore-Responsive Dynamic Nanocarriers. *ACS applied bio materials*, 7(7), 4785.