

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: The mass spectrometry core facility offers instrumentation for characterizing elements and compounds across the entire mass range from quantitative metal analysis to intact protein mass measurement. Instrumentation is also available for proteomics, metabolomics, MALDI imaging and HDX-MS. Specialized mass spectrometers encompass variety of ionization techniques and separation devices to cover wide range of analytical capabilities. The facility accepts samples and will perform requested analysis. Staff can also offer training to conduct experimentation. Instrumentation include Bruker timsTOF fleX, Thermo Orbitrap Fusion, Bruker Microflex and ultrafleXtreme MALDI-TOF, Agilent GC-MS, Waters Xevo TQD with UPLC, Waters Synapt G2Si with full HDX automation, Perkin Elmer NexION ICP-MS

Synonyms: UMass Amherst Mass Spectrometry Core

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

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: 20260912T200408+0000

Ratings and Alerts

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

No alerts have been found for UMass Amherst Mass Spectrometry Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 75 mentions in open access literature.

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

Santarossa CC, et al. (2026) LetA defines a structurally distinct transporter family. *Nature*, 651(8107), 1097.

Pandey A, et al. (2026) Adam13 interacts with large protein complexes to regulate histone modification and gene expression. *Frontiers in cell and developmental biology*, 14, 1824619.

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

Carroll M, et al. (2026) Rapid and Accurate ED-XRF Quantification of Trace Arsenic in Rice-Based Foods Employing ANNs to Resolve Lead Spectral Interference. *Foods (Basel, Switzerland)*, 15(7).

Cheng R, et al. (2026) A Native-MS Study of Charge-Driven Interactions of Glycosaminoglycans with Lactoferrin Underlying Its Immunoprotective and Immunomodulatory Properties. *Journal of the American Society for Mass Spectrometry*, 37(2), 539.

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.

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

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*.

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.

Shestoperova EI, et al. (2025) Computationally Driven Top-Down Mass Spectrometry of Ubiquitinated Proteins. 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.

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

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

Makhaik S, et al. (2025) A robust fluorogenic substrate for chikungunya virus protease (nsP2) activity. Protein science : a publication of the Protein Society, 34(3), e70069.

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.