



CUNY ASRC

BIOMOLECULAR

MASS SPECTROMETRY

FACILITY

About

The Biomolecular Mass Spectrometry Facility provides researchers access to cutting-edge instrumentation, while also providing technical support and training. Current services support projects from structural biology, chemistry, and bio-nanotechnology areas. Capabilities include characterization of proteins, small-molecule and complex-peptide mixtures, new self-assembling biomaterials, and PEGylated biopolymers.

Researchers can perform on-site testing and submit samples for analysis. The facility welcomes users from CUNY, other academic institutions, start-up companies, and industry

Learn more about the Biomolecular Mass Spectrometry facility at <https://bit.ly/4ih8fTm>

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Location

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Available Instrumentation

Maxis II ETD ESI-QqTOF

- Sub-ppm mass accuracy and high spectral accuracy
- Mass resolution – 80,000

Bruker Neoflex MALDI TOF-TOF

- Mass range – up to 500,000 m/z
- Mass accuracy < 6ppm with external calibrant
- Applications: mass analysis of proteins, peptides, small molecules, polymers, PEGylated biopolymers

Bruker timsTOF-fleX MALDI-2

- High-resolution ion mobility; sub-ppm mass accuracy; high spectral accuracy; MS/MS sampling rate > 100Hz in DDA mode
- Mass resolution – 60,000

About the CUNY ASRC

The [Advanced Science Research Center](#) at the CUNY Graduate Center (CUNY ASRC) is a world-leading center of scientific excellence that elevates STEM inquiry and education at CUNY and beyond. The CUNY ASRC's research initiatives span five distinctive, but broadly interconnected disciplines: nanoscience, photonics, neuroscience, structural biology, and environmental sciences. The center promotes a collaborative, interdisciplinary research culture where renowned and emerging scientists advance their discoveries using state-of-the-art equipment and cutting-edge core facilities.

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