

Resource Summary Report

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National Bio-Organic Biomedical Mass Spectrometry Resource Center

RRID:SCR_009004

Type: Tool

Proper Citation

National Bio-Organic Biomedical Mass Spectrometry Resource Center
(RRID:SCR_009004)

Resource Information

URL: <http://msf.ucsf.edu/>

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Description: Provides high-performance tandem mass spectrometry and proteomics, including multiplexed quantitative comparative analysis of protein and post-translational modifications, and a suite of tools for the analysis of mass spectrometry proteomics data. It provides both scientific and technical expertise and state-of-the-art high-performance, tandem mass spectrometric instrumentation. The facility also provides a service for small molecule analysis. Significant instrumentation in the facility includes three QSTAR quadrupole orthogonal time of flight instruments, and both an LTQ-Orbitrap platform with electron transfer dissociation (ETD) and an LTQ-FT linear ion trap FT-ICR instrument equipped with the ability to perform electron capture dissociation (ECD). The Center also has a 4700 Proteomic Analyzer MALDI tandem time of flight instrument; as well as a QTRAP 5500 hybrid triple quadrupole linear ion trap instrument; and a Thermo Fisher LTQ Orbitrap Velos. Major research focuses within the Center are the analysis of post-translational modifications, including phosphorylation and O-GlcNAcylation and development of methods for quantitative comparative analysis of protein and post-translational modification levels. The program also continues to develop one of the leading suites of tools for analysis of mass spectrometry proteomics data, Protein Prospector. The current web-based release allows unrestricted searching of MS and MSMS data, as well as the ability to perform comparative quantitative analysis of samples using isotopic-labeling reagents. It is the only freely-available web-based resource that allows this type of analysis.

Abbreviations: Mass Spectrometry Facility

Synonyms: UCSF Mass Spectrometry Facility

Resource Type: biomedical technology research center, training resource

Keywords: systems biology technology center, mass spectrometry, proteomics

Funding: NCRR ;
NIGMS P41GM103481

Resource Name: National Bio-Organic Biomedical Mass Spectrometry Resource Center

Resource ID: SCR_009004

Alternate IDs: nlx_152680

Record Creation Time: 20220129T080250+0000

Record Last Update: 20260912T200318+0000

Ratings and Alerts

No rating or validation information has been found for National Bio-Organic Biomedical Mass Spectrometry Resource Center.

No alerts have been found for National Bio-Organic Biomedical Mass Spectrometry Resource Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Cibichakravarthy B, et al. (2022) Comparative Proteomics of Coxiella like Endosymbionts (CLEs) in the Symbiotic Organs of Rhipicephalus sanguineus Ticks. Microbiology spectrum, 10(1), e0167321.

Berglund ED, et al. (2008) Glucose metabolism in vivo in four commonly used inbred mouse strains. Diabetes, 57(7), 1790.