

Resource Summary Report

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University of Nebraska Lincoln Nebraska Center for Biotechnology Proteomics and Metabolomics Core Facility

RRID:SCR_021314

Type: Tool

Proper Citation

University of Nebraska Lincoln Nebraska Center for Biotechnology Proteomics and Metabolomics Core Facility (RRID:SCR_021314)

Resource Information

URL: <https://biotech.unl.edu/proteomics-and-metabolomics#tab1>

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Description: Provides services using mass spectrometry, including identification and relative quantification of proteins and several advanced methods for profiling and quantitation of small molecules. Provides outreach and education program including workshops, seminars and courses. Proteomics services include Bottom-up Proteomics of whole organisms, organs, organelles, tissues, cell pellets, pulldowns, complex or single protein mixes from solutions or gels; Quantification by label-free or multiplexed labeling techniques with microscale subfractionation to increase coverage; Post Translational Modification Characterization especially phosphopeptide enrichment from whole organism digests, but also ubiquitylation, acetylation, etc. Metabolomics services include Untargeted Quantification of small molecules; Primary metabolism using GC-MS and NIST/Fiehn Libraries; Secondary metabolism using LC-MS and Progenesis QI, NIST Library, mzCloud; Targeted Quantification using HPLC or LCMS.

Abbreviations: PMF

Synonyms: UNL Proteomics and Metabolomics Facility

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

Keywords: USEDit, ABRF, mass spectrometry, protein identification, protein relative quantification, small molecules, proteomics, metabolomics

Availability: open

Resource Name: University of Nebraska Lincoln Nebraska Center for Biotechnology Proteomics and Metabolomics Core Facility

Resource ID: SCR_021314

Alternate IDs: ABRF_1189

Alternate URLs: <https://coremarketplace.org/?FacilityID=1189>

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260731T043059+0000

Ratings and Alerts

No rating or validation information has been found for University of Nebraska Lincoln Nebraska Center for Biotechnology Proteomics and Metabolomics Core Facility.

No alerts have been found for University of Nebraska Lincoln Nebraska Center for Biotechnology Proteomics and Metabolomics Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Van Haute MJ, et al. (2025) Comparative genomic and phenotypic analysis of potential beneficial properties of *Bifidobacterium adolescentis*. *mSphere*, 10(11), e0067325.

Qian P, et al. (2025) Evolutionarily convergent mechanism of formin regulation coordinates actin polymerization in apicomplexan parasites. *Science advances*, 11(50), eaea2136.

Doran MH, et al. (2025) Evolutionary adaptations of doublet microtubules in trypanosomatid parasites. *Science (New York, N.Y.)*, 387(6739), eadr5507.

Liu B, et al. (2025) Identification of novel protein biomarkers of macrophage polarization using comparative proteomic analyses of murine primary macrophages. *Journal of immunology (Baltimore, Md. : 1950)*.

Wallin S, et al. (2025) Surveying the Proteome-Wide Landscape of Mitoxantrone and Examining Drug Sensitivity in BRCA1-Deficient Ovarian Cancer Using Quantitative Proteomics. *Proteomes*, 13(4).

- Kathol M, et al. (2025) High enzyme promiscuity in lignin degradation mechanisms in *Rhodopseudomonas palustris* CGA009. *Applied and environmental microbiology*, 91(8), e0057325.
- Hernandez JB, et al. (2025) Microbiome and metabolome association network analysis identifies *Clostridium_sensu_stricto_1* as a stronger keystone genus candidate than *Bifidobacterium* in the gut of common marmosets. *mSystems*, 10(8), e0021425.
- Mallareddy JR, et al. (2025) Fluorescence based live cell imaging identifies exon 14 skipped hepatocyte growth factor receptor (MET) degraders. *RSC advances*, 15(13), 10419.
- Fu Y, et al. (2025) *Toxoplasma* chitinase-like protein orchestrates cyst wall glycosylation to facilitate effector export and cyst turnover. *Proceedings of the National Academy of Sciences of the United States of America*, 122(5), e2416870122.
- Roy P, et al. (2025) A Phosphoinositide Interacting Protein Coordinates Stress Precursor Activities. *bioRxiv : the preprint server for biology*.
- Xu R, et al. (2024) Multiple pathways for glucose phosphate transport and utilization support growth of *Cryptosporidium parvum*. *Nature communications*, 15(1), 380.
- Hayer SS, et al. (2024) Antibiotic-induced gut dysbiosis elicits gut-brain axis relevant multi-omic signatures and behavioral and neuroendocrine changes in a nonhuman primate model. *Gut microbes*, 16(1), 2305476.
- Barboza Bispo R, et al. (2024) Unraveling the Mechanisms of Efficient Phosphorus Utilization in Popcorn (*Zea mays* L. var. *everta*): Insights from Proteomic and Metabolite Analysis. *Journal of proteome research*, 23(8), 3108.
- Henry B, et al. (2024) A combination of four *Toxoplasma gondii* nuclear-targeted effectors protects against interferon gamma-driven human host cell death. *mBio*, 15(10), e0212424.
- Rinkenberger N, et al. (2024) Susceptibility of *Toxoplasma gondii* to autophagy in human cells relies on multiple interacting parasite loci. *mBio*, 15(1), e0259523.
- Andrabi SM, et al. (2024) Injectable and rapidly expandable thrombin-decorated cryogels achieve rapid hemostasis and high survival rates in a swine model of lethal junctional hemorrhage. *Bioactive materials*, 38, 154.
- Prado-Fernández MF, et al. (2024) *Pereskia sacharosa* Griseb. (Cactaceae) Prevents Lipopolysaccharide-Induced Neuroinflammation in Rodents via Down-Regulating TLR4/CD14 Pathway and GABAA $\alpha 2$ Activity. *Current issues in molecular biology*, 46(7), 6885.
- Batt MC, et al. (2024) An autosomal recessive variant in PYGM causes myophosphorylase deficiency in Red Angus composite cattle. *BMC genomics*, 25(1), 417.
- Gallegos-Saucedo R, et al. (2024) Cytotoxic Activity of *Lepidium virginicum* L. Methanolic Extract on Human Colorectal Cancer Cells, Caco-2, through p53-Mediated Apoptosis. *Molecules (Basel, Switzerland)*, 29(16).

Sharma S, et al. (2024) Affinity-Driven Aryl Diazonium Labeling of Peptide Receptors on Living Cells. *Journal of the American Chemical Society*, 146(19), 13676.