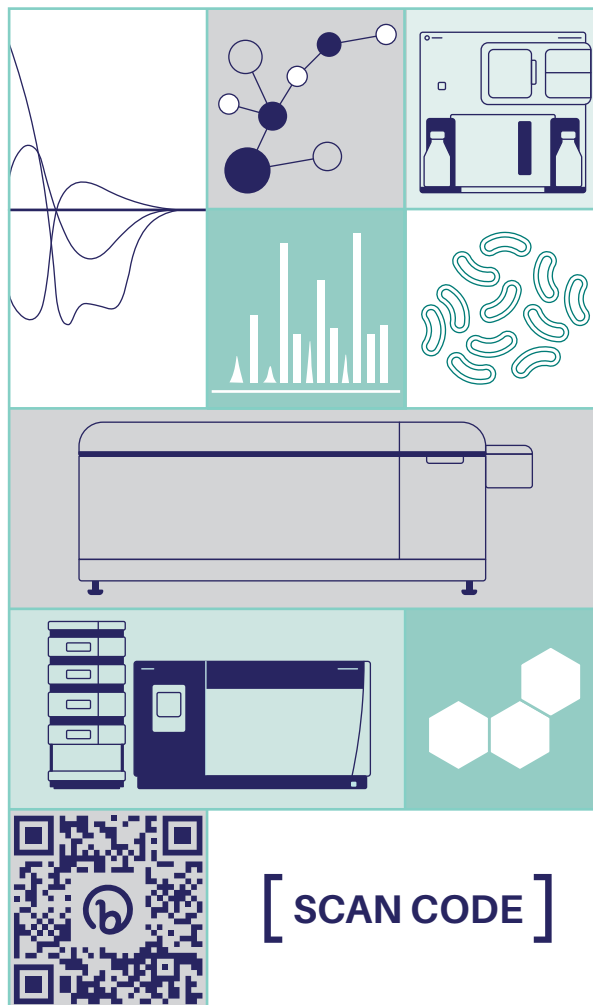




The PPMF is highly involved in protein characterization and OMICS-related research for health, agriculture, and forensics. We invite you to partner and collaborate with us for your research. You may email us for collaboration opportunities.



Contact Us

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LANDLINE	+63 • 2 • 8981 • 8500 local 4711
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UNIVERSITY OF THE PHILIPPINES
PHILIPPINE GENOME CENTER

Protein, Proteomics, and Metabolomics Facility



ABOUT THE FACILITY

Further characterization of key proteins may be done with the PPMF Suite of protein analysis services. These cover applications for the production, purification, and biophysical analysis of target protein samples.

By providing a hub for collaborative research, the PPMF aims to enhance the capabilities of Filipino Scientists to do functional studies for the development of applied technologies.

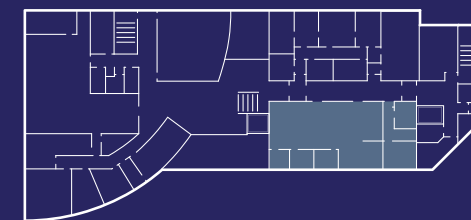
MISSION

The Protein, Proteomics, and Metabolomics Facility is the country's premier laboratory for proteomics, metabolomics, and biophysical analysis. We, therefore, aim to train and provide growth opportunities to our scientists, collaborators, and partners in their utilization of these technologies for relevant research.

VISION

Expanding the capabilities for conducting and applying omics technology in the Philippines.

LOCATION



L2

PROTEIN ANALYSIS SERVICES

- + Sample Preparation
 - Centrifugation
 - Lyophilization
 - Buffer Exchange
- + Protein Extraction
 - Ultrasonication
 - French Pressure Cell
 - Lysozyme
 - Enzymatic Lysis
- + Protein Purification
 - Fast Protein Liquid Chromatography
- + Protein Quantification and Characterization
 - Multiwavelength Spectrophotometry (Absorbance, Fluorescence, Chemiluminescence)
 - 1D & 2D Polyacrylamide Gel Electrophoresis (PAGE)
 - Western Blot Analysis
 - Multipurpose Imaging System
 - Surface Plasmon Resonance (SPR)
 - Circular Dichroism-Optical Rotatory Dispersion (CD-ORD) Spectroscopy
 - Spectropolarimetry (CD-ORD)

LC-MS PROTEOMICS AND METABOLOMICS ANALYSES

- + MS Sample Preparation
 - Proteomics
 - Reduction/Alkylation
 - Proteolytic Digestion
 - Spin Column Treatment
 - Isobaric Labeling
 - Metabolomics
 - Sample Drying
 - Methanol Extraction
 - Solid-Phase Extraction (SPE) Treatment
- + UHPLC Analysis
 - Nano Ultra High-Performance LC (Ultimate 3000 RSLC)
 - Ultra High-Performance LC (Vanquish Horizon)
- + MS Analysis
 - Full Scan Analysis
 - MSn Scan Analysis
 - Label-Free Quantification
 - Quantification by SIM

- + Data Processing
 - Mass Orientation
 - Library Search/Peptide Annotation
 - Statistical Analysis
- + MS Data Post-Processing & Validation

OTHER SERVICES

- + Equipment Rental
- + Cold Condition Handling (Liquid Nitrogen Generator)
- + Method Development
- + Service Consultation
- + Training

WORKFLOW

Sample

Extraction

Purification

Quantification

Characterization

LC-MS

Data Processing
Bioinformatics