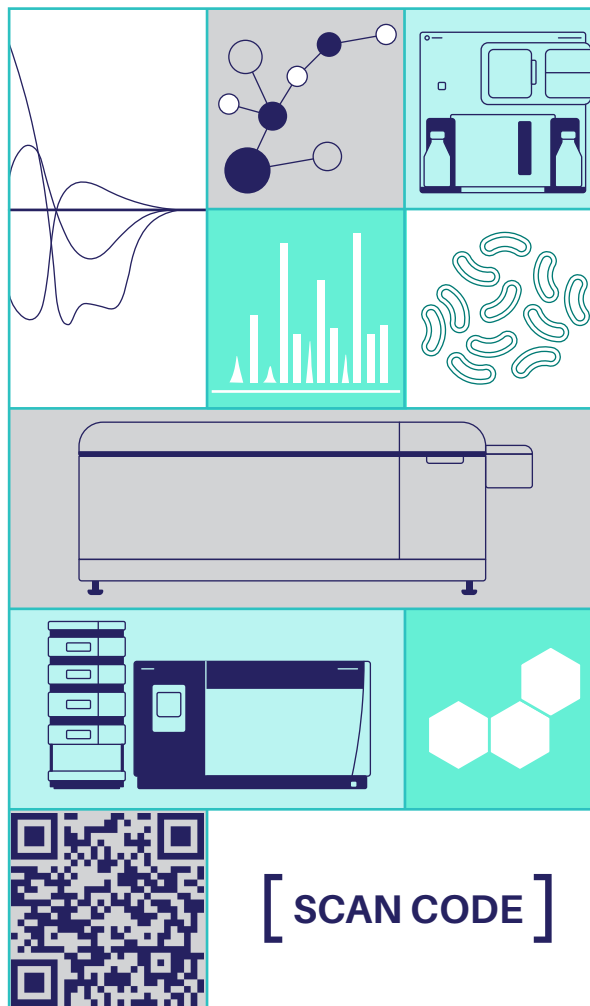



*PPMF Services focus on the assessment of total protein expression and total metabolite populations in test samples.*

The Philippine Genome Center continues to expand its capabilities for Omics Analysis with the establishment of the Protein, Proteomics and Metabolomics Facility (PPMF). The facility will host research projects, and offer services centered on the assessment of total protein expression (proteomics) as well as total metabolite populations in test samples (metabolomics). These provide the capability to assess how genomic potentials are translated to functional traits.





[ SCAN CODE ]

## Contact Us

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## Protein, Proteomics, and Metabolomics Facility

# PPM MMF

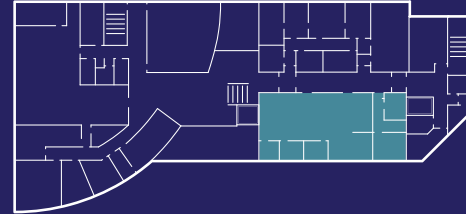


## ABOUT THE FACILITY

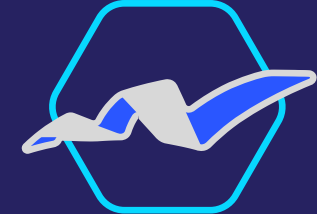
Further characterization of key proteins may be done with the PPMF Suite of protein analysis services. These cover applications for the production, purification, and biophysical analysis of target protein samples.

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.

## LOCATION



L2



### SERVICES OFFERED

- + High Resolution Mass Spectrometry (Orbitrap Fusion Tribrid)
  - Molecular Mass Determination of Pure Samples
  - Putative Identification of Pure Samples via Database Search
  - Protein Identification by Proteomics
  - Metabolite Identification by Metabolomics
  - Post-Translational Modifications (PTMs) Identification (for Proteomics)
  - Label-free and TMT Quantitation
- + Cell Lysis (Protein Extraction)
  - Sonication
  - French Pressure Cell
- + Sample Preparation
  - Ultracentrifugation
  - Lyophilization
  - Centrifugal Vacuum Concentration
  - Buffer Exchange
- + Protein Purification
  - Ion-exchange Chromatography
  - Metal Affinity Chromatography
  - Size Exclusion Chromatography
- + Biomolecule Quantification
  - Bradford Reagent Quantification
  - Absorbance, Fluorescence, or Luminescence Spectroscopy
- + Protein Characterization
  - Polyacrylamide Gel Electrophoresis (1D and 2D)
  - Western Blot
  - Binding kinetics (SPR)
  - Secondary Structure Determination (CD Spectrometry)
- + Equipment Use
- + Personnel Training (available upon request)

### AVAILABLE TECHNOLOGY

- + High Resolution Mass Spectrometry (Orbitrap Fusion Tribrid)
- + Ultra High Performance Liquid Chromatography
- + Fast Protein Liquid Chromatography
- + Multiwavelength Spectrophotometer
- + Surface Plasmon Resonance
- + Circular Dichroism Spectrometer

### OMICS PLATFORMS

Genomics Transcriptomics Proteomics Metabolomics

DNA Sequencing  
Core Facility

Protein, Proteomics,  
and Metabolomics  
Facility

## WORKFLOW

Sample

Extraction

Purification

Confirmatory  
TestsMS  
ProcessingSoftware  
AnalysisData  
Interpretation