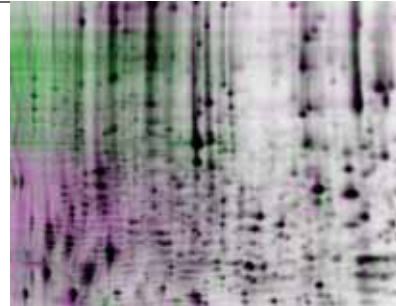


MICHIGAN

PROTEOME CONSORTIUM



The Michigan Proteome Consortium is a distributed organization with nodes at four major research institutions in the State of Michigan. Each node functions as part of the Consortium to provide services to both academic and industry investigators. The Consortium is administered by the Senior Director (Philip Andrews) and the Steering Committee, with the help of the Scientific Advisory Committee.

The three primary core services are:

- Proteome Mapping (Director, Philip Andrews; Associate Directors, Curtis Wilkerson, Greg Cavey)
- High-throughput Yeast Two-Hybrid Screening (Director, Russell Finley)
- Proteome Informatics (Director, Philip Andrews)

Access to services is through the main web site at www.proteomeconsortium.org.



MPC

SERVICES

The Proteome Mapping Laboratory is focused on provision of high-throughput proteomics services. The Yeast Two-Hybrid Laboratory provides high-throughput generation of interaction maps and performs library screening. Services offered include:

- Consulting
- High-throughput pair-wise analysis of protein interactions by yeast two-hybrid screens
- Phosphoproteomics
- LC MS/MS and 2DLC MS/MS
- High resolution, high mass accuracy MS
- Analysis of protein complexes
- Mapping sites of post-translational modifications
- Proteome informatics
- 2D gel electrophoresis and image analysis

M I C H I G A N P R O T E O M E C O N S O R T I U M

- De novo sequencing
- Protein Expression Profiling
 - by 2D electrophoresis
 - by 2D LC MS/MS
- Areas of particular expertise include protein interaction maps, analysis of membrane proteins, bacterial pathogens, tumor and tissue samples as well as mapping sites of post-translational modifications.
- Finnigan LTQ
- Micromass QTOF Ultima mass spectrometer with capillary HPLC
- Offgel electrophoresis
- Biomek Fx liquid-handling robot with a 96-channel pipetting arm and a variable 8-channel arm
- 4x96 head thermocycler
- Micromass MassPrep sample preparation robot
- Biorad FX Plus laser scanners

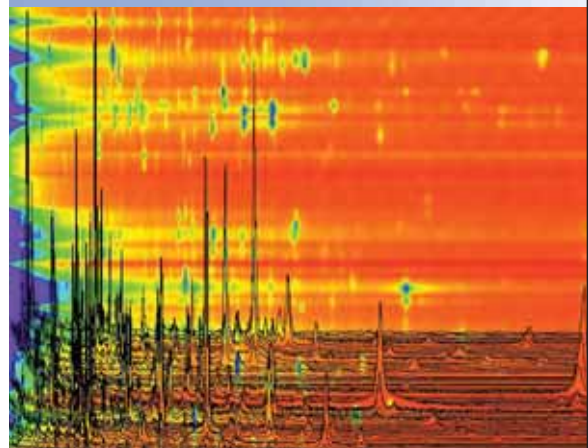
EQUIPMENT

In addition to equipment for 2D gel electrophoresis and HPLC, major equipment in the Proteome Mapping Core includes:

- Three Sciex model 4800 MALDI TOF/TOFs
- Micromass MALDI QTOF tandem mass spectrometer with extended mass range
- Finnigan Orbitrap
- Finnigan LTQ-FTMS
- Eldex capillary HPLC

ACCESS

Samples for analysis are submitted by the client and run by facility personnel on a fee-for-service basis. Under some circumstances, qualified investigators trained to use the instruments may make arrangements for access at specific times on a first come, first served basis. Sample preparation must be done in their own labs. Fees are incurred for training and for equipment usage. Investigators are responsible for all costs incurred by their use of MPC equipment.



New technology separations

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