Proteomics Facility at the University of Vermont is a core facility funded by the Vermont Genetics Network to serve the Lead Institution and research throughout the state as part of the IDeA Program mission of building research infrastructure. The facility provides a central resource of mass spectrometry-based proteomics technologies to identify, characterize and quantify proteins in various biological and biomedical samples. We strive to establish a highly efficient research and educational environment for sharing ideas, experiences, and knowledge of proteomics application in systems biology, biomedical and clinical studies.

**Facility Information**

Marsh Life Science 335

VGN Proteomics
University of Vermont
Marsh Life Science 335
Burlington, VT 05405
http://vgn.uvm.edu/proteomics

VGN is funded by a grant from the National Institutes of Health
Sample Submission, and Data Management

Step 1: Initial consultation: Investigators should contact the facility prior to sample submission to ensure a clear understanding of sample requirements for processing through the facility. To arrange a consultation, online consultation signups are available on our website or you can contact Drs. Wai Lam / Bin Deng by phone (802-656-4709, 802-656-5099) or email (ylam@uvm.edu, bdeng@uvm.edu).

Step 2: Sample preparation: For gel samples, please provide an image of the gel and indicate the bands or spots that are to be analyzed. We need to be sure that your samples and sample preparation methods are compatible with mass spectrometry and that your sample has an adequate amount of the target protein(s) to be measured by mass spectrometry. Usually, a visible silver or Coomassie Blue-stained gel band/spot that corresponds to 20 femtomole - 1 picomole of protein is needed to identify the protein.

For protein samples in solution, you must provide the expected protein concentration and composition of the solution. Samples submitted for phosphorylation analysis must be Coomassie-stainable (in gel) or with a concentration higher than 5 pmole (in solution).

Step 3: Fill out the sample submission form and answer the questions listed: Each sample must be accompanied by a completed form — please go to our website for online submission. The information you provide will help us to ensure proper handling and analysis of your samples.

Step 4: Analysis: Only trained personnel directly operate the mass spectrometers in the facility. However, users are welcome to learn and participate in data analysis.

Step 5: Results: Results will be sent via e-mail or provided as a printed copy. Raw data will be provided upon request.

It is best to send your samples via overnight shipping if you are a non-UVM user, otherwise please drop them off in person. Please note that drop-off hours are Monday through Friday, 9:00 AM to 4:00 PM, and you are encouraged to give us a call before dropping off. If you have any questions, please feel free to contact us!

The higher the quality of your samples, the quicker you will receive your successful results!!!