The Proteomics Shared Resource (PSR) provides expertise and instrumentation to assist the OHSU research community with mass spectrometric analysis of proteins.

**Introduction**
Proteomics, the global analysis of proteins in biological samples, is becoming an increasingly important discipline in biomedical research. The rapid advances in instrumentation and methodology requires centralization of facilities to enhance productivity, provide expertise, and control costs for investigators. The PSR provides access to the very latest instrumentation and techniques in proteomics to OHSU researchers. The highly experienced staff work collaboratively with students, post-docs and faculty to move projects to a successful completion.

**Services**
3. Protein identification from 1D gel bands and 2D gel spots.
5. Biomarker discovery in human serum/plasma, saliva, urine, cerebrospinal and amniotic fluid.
6. Analysis of exosomes from biological fluids.
7. Targeted quantitation of specific proteins in biological samples.
8. Detection and quantification of post-translational modifications, such as phosphorylation and acetylation.
10. In house informatics support for all experiments.
11. Assistance in grant submissions and preparations of manuscripts.
12. Partnering with investigators to secure new instrumentation to support emerging technologies.

**Instrumentation/Informatics Support**
- Orbitrap Fusion Tribrid instrument with ETD fragmentation
- Q-Exactive HF
- Two LTQ Velos linear ion traps
- Forte Bio Octet Red Biolayer Interferometer
- Nano and capillary HPLC and UPLC systems
- HPLC for sample prep (ion exchange, gel filtration, and reverse phase)
- Computers and a large suite of software for informatics support

**Consultation and Preliminary Results**
Free initial consultations with PSR staff are strongly encouraged before beginning projects. Limited funds for generation of preliminary data for new grant submissions are also available.