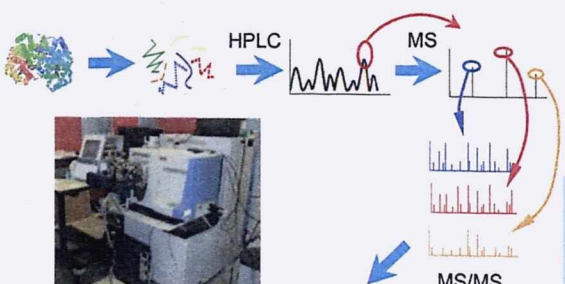
Arizona Proteomics Consortium

The Arizona Proteomics Consortium offers expertise in biomolecule analysis to the University of Arizona scientific community. Our services in mass spectrometry, SPR, HPLC, and FPLC assist researchers in exploring today's most interesting biological systems and questions.

Mass Spectrometry and Proteomics

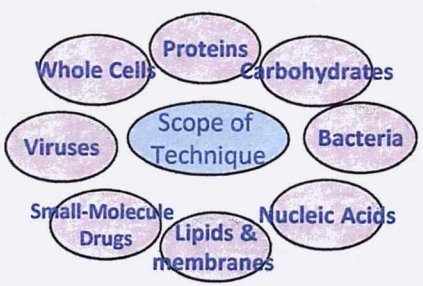
A mass spectrometer measures molecular masses in the gas phase. Our mass specs are configured for the analysis of peptides, small proteins, and low MW compounds. They:

- Can be used to determine the identity of an unknown protein or analyze a complex mixture (Proteomics)
- Can identify protein post-translational modifications such as phosphorylation
- Can identify and quantitate small molecules in a complex mixture



Proteins identified by database searching

Surface Plasmon Resonance



Real time label-free molecular interaction information:

- Kinetic analysis (rate constants, k_{on}, k_{off}, K_D)
- Affinity constants
- Concentration determination
- Binding specificity (yes/no)
- Thermodynamic measurements

Main Location
Keating Bioresearch Building Room 106 (Bio5)
(520) 626-4161

www.proteomics.arizona.edu

Services

- LC-MS/MS Protein Identification and Database Searching
- 1D- and 2D-PAGE Protein Separations
- Postranslational Modifications e.g. Phosphorylation
- Small Molecule Characterization and Quantification (MRMs)
- Molecular Interactions (SPR using Biacore T100)
- Depletion of Abundant Proteins in Biological Fluids
- Protein Purification (FPLC)
- HPLC Chromatography
- Training •Workshops •Free Consulting

Contact Information

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