

Biological Mass Spectrometry

March 9 and 16, 2006

Proteins and Proteomics

- I. Strategies for an individual protein
- II. Proteomics
 - A. What's on my gel? In gel Digestion.
 - B. Database searches
 1. peptide maps
 2. microsequences
 3. production spectra —
 - C. Gel free strategies
 - D. Top down vs. bottom up
- III. Quantitative Comparative Proteomics
 - A. Isotope labeling
 - B. Time/mass tagging