



Abbott Lectures

Dr. Catherine Fenselau, Professor - University of Maryland

26 April, 2007 at 7:00 PM

Abbott Hall 138

AIRBORNE MICROORGANISMS: DETECT TO PROTECT.

The false alarm in the Senate Office Building last year reminds us that rapid and reliable analysis of chemicals and airborne microorganisms is required in public buildings as well as on the battlefield. Biological agents present a particularly complex challenge, and a number of analytical methods have been evaluated for speed, reliability, ruggedness and automatability. This talk will discuss how well mass spectrometry meets these requirements, what its strengths and weaknesses are, and how genome sequencing and bioinformatics are being combined with mass spectrometry to provide flexibility as well as reliability.

April 27, 2007 at 12:00 PM

Abbott Hall 101

Proteomics: the Genome was Easy.

Although mass spectrometry is widely recognized as the Rosetta stone enabling proteomics, sample fractionation is currently viewed as the bottleneck. The proteomics stool has at least three legs—mass spectrometry, bioinformatics and sample preparation. The requirements of the latter vary according to the source and nature of the protein sample. Additional considerations are required for quantitative analysis. This talk will discuss considerations and implementation of comparative analyses of proteins from different sub-cellular organelles in drug susceptible and resistant cancer cells.

Local Section Dinner and EXEC Committee Meeting:

5:30 pm at the China Garden
2550 32nd Avenue South.