

**Calibration & Validation Group
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Scarborough, Ontario, Canada, M1J 3N8**

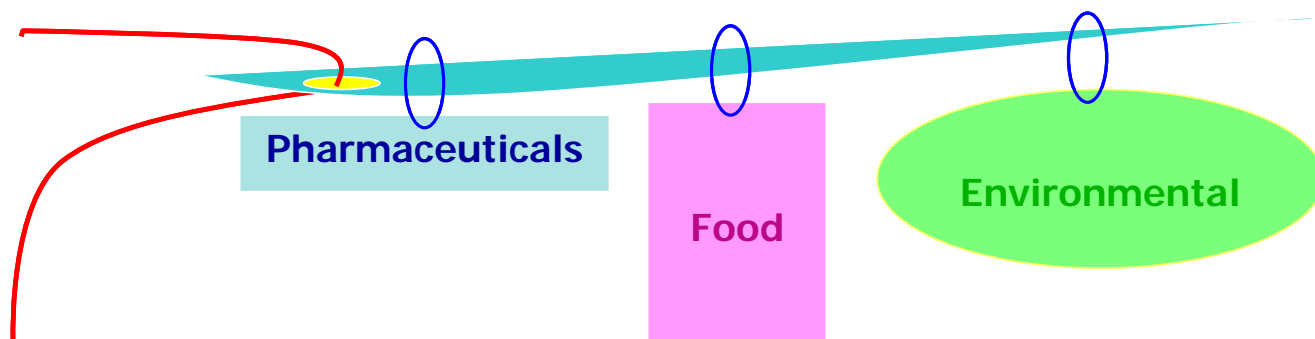
2012 Annual General Meeting and Evening Seminar

Time and Date: 17:30 to 20:10, Wednesday December 7th 2011

Location: Auditorium, Laboratory Services Branch
125 Resources Road
Etobicoke, Ontario M9P 3V6

**This event is free. Registration is required for after
hours access to government building.**

Please register at cvg@cvg.ca to facilitate local operation



Agenda

- 17:30 to 18:00 Registration
Pizza dinner (courtesy of Abbott Ibis Biosciences and Bruker)

Social networking and information gathering
- 18:00 to 18:15 CVG Annual Meeting & Preamble
- 18:15 to 19:00 "PLEX-ID: A New Genotypic Approach for Screening and Identification of Known & Unexpected Microbes / Overview and Use in Food and Environmental Samples", Terry D. Cagle / Abbott - Ibis Biosciences
- 19:00 to 19:25 Break

Social networking and information gathering
- 19:25 to 20:10 "A new mass spectrometry platform for the identification of microorganisms in food products", Laurie Allan, Ph.D. Bruker Ltd.
- 20:10 Adjourn

Abstract: "PLEX-ID: A New Genotypic Approach for Screening and Identification of Known & Unexpected Microbes / Overview and Use in Food and Environmental Samples", **Terry D. Cagle / Abbott - Ibis Biosciences**

Outline of Presentation:

- Design Concept of PLEX-ID Technology
- Enabling Components
- System Workflow
- Primer Design Strategy & Bioinformatics
- Details of Operation
- Broad Offering of Assay Kits and Applications
- Food and Water Analysis Assays
- Enteric Pathogen Assay
- Data Analysis Reporting Examples
- Summary / Key Technology Benefits

Abstract: "A new mass spectrometry platform for the identification of micro organisms in food products", **Laurie Allan, Ph.D., Bruker Ltd.**

Microorganisms such as bacteria and fungi are normally ubiquitous but abnormal amounts or types can cause serious health or other problems. For example, abnormal growth of microorganisms in food products may be a health hazard to those who consume them or may contribute to food spoilage which can be costly. Identification of the type of microorganism is critical to determine the severity of the health risk, if any, and also what treatment may be necessary to reduce or eliminate the microorganism.

Traditional microorganism identification methods can be time consuming, costly, or fail to properly identify the microorganism. A new platform based on mass spectrometry has been developed for microorganism identification. Matrix-assisted laser desorption ionization (MALDI) coupled to time-of-flight (TOF) mass spectrometry is used to generate a protein mass profile for a microorganism sample and compare it to profiles (mass spectra) in a comprehensive database of known microorganisms.

This technique is applicable to a wide range of microorganisms in clinical, veterinary, environmental and food applications. Examples will be shown for the determination of Salmonella and Listeria from food samples.