November 2, 2011 (13:15-14:30)

VENDOR SEMINAR:

INNOVATIVE NOMINAL AND ACCURATE MASS BASED LCMSMS WORKFLOWS AND SOLUTIONS FOR ADVANCED QUALITATIVE AND QUANTITATIVE FOOD ANALYSIS

The Use of LC/MS/MS for the Routine Screening of Food Contaminants Using High Resolution Mass Spectrometry Systems

Dr. Andre Schreiber

Food Technical Marketing Manager, AB SCIEX, Canada

Brief introduction to the TripleTOF 5600 System and the description of workflows, including the software tools (XIC Manager, MarkerView), in the screening of food contaminants will be provided. The quantitation using high resolution in both MS (TOF) and MS/MS (MRM^{HR}) modes will be discussed.

Fighting Background Using Improved Selectivity for Better Quantitation Limits in LC/MS/MS

Stefanie Kreppenhofer

Support Specialist, AB SCIEX, Germany

Detection limits in quantitative LC/MS/MS analysis are often compromised in heavy matrices by isobaric interferences detected in MRM mode. Possible solutions to overcome this limitation include a) high resolution MS, b) multiple steps of MS/MS (MRM^3), or c) Differential Mobility Spectrometry (DMS). SelexION technology based on DMS will be introduced. Examples of all techniques to minimize background will be presented.

Easy Adoption of LC/MS/MS in Routine Food Laboratory

Brent Lefebvre

Product Mgr. Food & Environmental, AB SCIEX, Canada

Cliquid® Software, with its simple four step workflow, and pre-configured iMethod™ Tests are designed to reduce the barriers to adoption of LC/MS/MS in routine laboratory. New iMethods, as well as iDQuant™ Standards Kit for pesticide analysis will be introduced.

Detection of Allergens by LC-MS/MS Using a Multi-Allergen Assay

Stephen Lock, Mgr.

Applications , AB SCIEX, United Kingdom

The Codex Alimentarius recommends that eight potential allergens should always be declared on pre-packaged foods: peanuts, tree nuts, eggs, milk, cereals containing gluten, shellfish, fish, and sulphites. Methodology of detection of most of these allergens utilizing LC/MS/MS is presented.