Method Development for Pesticide Residue Analysis and Use of Data in Risk Analysis

Course Description
This course provides lectures on the regulation in place in the United States regarding pesticide residues in fresh fruits and produce, the FDA compliance program, theoretical and hands-on practice of FDA fit-for-purpose laboratory methods. Method development is taught for the techniques of gas chromatography, liquid chromatography and mass spectrometry (including tandem mass spectrometry). Risk analysis concepts will be presented and practical exercises will teach the important considerations for the use of laboratory data in risk analysis.

Learning Objectives
- Learn and practice sample preparation using QuEChERS method
- Understand the concepts for action levels, compliance, and the role of the FDA in the control of domestic and imported foods
- Perform tests and interpret results for identification, confirmation and quantitation of drug residues
- Become aware of the requirements for the submission of results in international trade
- Become aware of the requirements for the use of laboratory data in risk assessment

Topics Covered
- FDA regulations and compliance programs
- Sample preparation, emphasis on QuEChERS
- Chromatographic separation (GC and LC)
- Fluorescence and mass detection
- Emphasis on multi-residue methods using LC/MS/MS
- Principles and data for risk analysis

Who should attend?
Text

Tuition: 3,500$
Register at: www.ifstl.org/registration

Registration deadline: 30 days prior to course

Internship option? This course can be combined into an internship.