

**TWO-DAY COURSE, Saturday and Sunday
13 Quantitative Mass Spectrometry**

Instructors



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Independent Contractor



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This introductory/intermediate level course explores the principles of quantitative mass spectrometry as they apply primarily to small molecule analyses. Topics that will be discussed include: (a) MS instrumentation used for quantitative analyses; (b) how a quantitative assay is set up including statistics for quantitation, preparation and evaluation of standard curves and analysis of variance; (c) LC/MS/MS method development for target quantitative analysis of small molecules, including instrument and assay optimization procedures; (d) real world approaches to assessing problems and improving method ruggedness; (e) general guidelines for method validation in a regulated environment; (f) an introduction to quantitation of endogenous compounds in biological matrices; and (g) an introduction to quantitation in proteomics. Ample time will be provided for general discussion of the topics presented and other current topics in quantitative MS.

Prerequisite: Familiarity with the basic principles of mass spectrometry.