



## **SCIEX QTRAP® 4500, 5500 & 6500 LC/MS/MS System Small Molecule Training Class Agenda**

### **Day 1: 9:30 a.m. – 5:30 p.m.\***

- Welcome
- Lecture: Triple Quadrupole Theory – Sample Introduction, Ion Production, Ion Transfer, Quadrupole Theory, QTRAP® Theory
- Lecture: MS and MS/MS Scan Modes, QTRAP® Scan Modes, Ion Detection
- Lab: Analyst® Software Overview – Configure, Tune, Acquire, Explore, Quantitate, and Project Structure
- Lab: Automated PPG Tuning and Mass Calibration
- Lab: QTRAP® Tuning and Mass Calibration

### **Day 2: 9:30 a.m. – 5:30 p.m.\***

- Lab (interactive): Analyst® Software Tune Mode: Compound Optimization – Manual vs. Automated Optimization
- Lab: Analyst® Software Tune Mode: Introducing QTRAP® Scans (EMS, EPI, ER, MRM<sup>3</sup>) and their Parameters
- Lab (interactive): Analyst® Software Tune Mode: Source Optimization – Manual vs. Automated Optimization
- Lab: Analyst® Software Acquire Mode: Writing LC/MS/MS Methods and IDA Methods (MRM/EPI, MRM/MRM<sup>3</sup>), Batch Submission

### **Day 3: 9:30 a.m. – 5:30 p.m.\***

- Lecture: Review
- Lecture (interactive): Analyst® Software Explore Mode: File Info, Smooth, S/N Ratio, Extracting of Data, Number of Data points, Reviewing IDA Data, Library
- Lecture (interactive): Analyst® Software Quantitate Mode: Creating of Integration Methods (IQAII and MQIII), Calibration Curve Setup, Peak Review, Statistics, Export of Data, Analyst® Software Reporter
- Demonstration: Preventative Maintenance (PC, Cleaning the Interface, Ion Source)
- Certificates and Evaluations

*\*end time is approximate and may vary.*

**Online agenda version 1.0**

**The information in this document is subject to change.**