

Agenda for 3 day introduction to X500R QTOF system at SCIEX

SCIEX training courses follow the proven spaced learning approach to maximize learning retention. The training process includes a blend of instructor-led training, hands-on laboratory exercises and self-paced eLearning provided at a SCIEX location.

Course goals and outcome

This course is an introductory course designed to provide new users with an overview of the main quantitative and qualitative workflows for small molecule analysis on the X500R QTOF system. It is delivered at a SCIEX location by an experienced SCIEX instructor using a combination of instructor-led and hands-on approaches.

The course covers software familiarization, instrument tuning and calibration, compound and method optimization, MRM^{HR} for quantitative workflows, IDA for targeted and non-targeted workflows, SWATH acquisition for quantitative, targeted and non-targeted workflows, and instrument maintenance. Library searching will be covered in detail as part of the qualitative workflows. There is a significant emphasis on data processing using SCIEX OS.

Upon completion of the course, you should be able to navigate fluidly through the various workspaces in SCIEX OS, create MRM^{HR}, IDA and SWATH acquisition methods and process data from both quantitative and qualitative workflows.

This course offers a workflow certificate upon completion of a final knowledge assessment.

Course agenda

DAY 1

- **Lecture:** Fundamentals of high resolution mass spectrometry
- **Lab exercise:** SCIEX OS overview
- **Lab exercise:** Tuning procedures for the X500R QTOF system
- **Lecture:** Quantitation using MRM^{HR}
- **Lab exercise:** MRM^{HR} acquisition & data processing

DAY 2

- Knowledge review and discussion
- **Lecture:** IDA workflow overview
- **Lab exercise:** IDA acquisition
- **Lecture:** Library searching in SCIEX OS
- **Lab exercise:** IDA data processing

DAY 3

- Knowledge review and discussion
- **Lecture:** SWATH workflow overview
- **Lab exercise:** SWATH acquisition
- **Lab exercise:** SWATH data processing – quant & targeted identification
- **Lab exercise:** SWATH data processing – non-targeted screening & unknown ID
- **Demonstration:** Instrument maintenance
- Knowledge evaluation and survey wrap up

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