Syllabus for 3 day introduction to the 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.

Training program overview

Your training includes the following:

- 3 days of instructor-led and hands-on training provided at a SCIEX location by an experienced instructor
- Related self-paced eLearning courses, lectures, reference material and lab exercises
- Access to SCIEX Now Learning Hub database of >100 eLearning courses
- Access to SCIEX Now online support tools
- P.A.C.E.® Continuing Education Credits

- Workflow certificate upon successful completion of final exam and permanent access to all course materials for reference

Instructor-led training topics

- Fundamentals of high resolution mass spectrometry
- Mass spectrometer tuning and calibration
- Compound optimization for quantitative workflows
- Creation of LC-MS acquisition methods:
  - MRM^{HR}
  - IDA
  - SWATH acquisition
- Batch creation and submission
- Quantitative data processing for MRM^{HR}
- Qualitative & quantitative data processing for targeted and non-targeted workflows
  - IDA
  - SWATH data
- Unknown identification workflow
  - Formula Finder and ChemSpider
- Instrument maintenance

P.A.C.E.® certification

SCIEX is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. Learners interested in obtaining a P.A.C.E.® certificate and P.A.C.E.® accreditation for taking this course (equal to 18 P.A.C.E.® credits) must attend the entire training session and complete a brief evaluation survey.

SCIEX

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