SKYLINE COURSE 2026

Venue   ISAS e. V., Otto-Hahn-Straße 6b, 44227 Dortmund, Germany
Date   March 02 to 05, 2026

+++ DAYS 2 to 4, from 8 to 9 am: "Sky-Jam" with Brendan MacLean +++

DAY 1: Monday, March 02, 9 am, ISAS lecture hall

Introduction to Targeted Quantitative Proteomics & Skyline, SRM Assay Development

Instructors   Brendan MacLean, Dr Andreas Hentschel, Prof. Dr Robert Heyer

Content
- Differences between SRM and PRM, introduction to DIA
- Introduction to Skyline
- Introduction to selected reaction monitoring (SRM) and quantitative analysis
- Hands-on SRM assay development
- Use of predicted and empirical spectral libraries for method development

DAY 2: Tuesday, March 03, 9 am, ISAS lecture hall

Parallel Reaction Monitoring (PRM), Indexed Retention Time & Absolute Quantification

Instructors   Brendan MacLean, Dr Andreas Hentschel, Dr Yvonne Reinders, Dr Jörg Reinders, Prof. Dr Robert Heyer

Content
- Indexed retention time (iRT) principle
- Hands-on manual revision of data in Skyline
- Signal calibration and absolute quantification for peptides and metabolites

DAY 3: Wednesday, March 04, 9 am, ISAS lecture hall

MS1 Filtering, DIA Data Analysis & Further Advanced Topics

Instructors   Brendan MacLean, Dr Juan Camilo Rojas Echeverri, Dr. Robert Hardt

Content

- Working with ion mobility
- DIA PASEF data analysis
- Quality control using panorama
- Analysis of own data sets

DAY 4: Thursday, March 05, 9 am, ISAS lecture hall

Small Molecules Data Analysis

Instructors   Brendan MacLean, Dr Noortje de Haan, Dr Michele Wölk, Dr Jörg Reinders

Content

- Data analysis for peptides and small molecules in Skyline (keynote by Dr Jörg Reinders)
- Introduction to lipidomics
- Hands-on lipidomics data analysis
- Introduction to glycomics
- Hands-on glycomics data analysis

Please note:
There will be sufficient time for discussion as well as for interactions among participants and instructors. The course also includes the popular morning "Sky-Jam" sessions led by Brendan MacLean with hands-on Skyline processing. As instructors continually update their content for this course, the schedule may change slightly.