



Proteome Discoverer Workshop

Data processing with **CHIMERYS** search engine

April 18, 2024

New York 10:00 – 13:30

Chicago 9:00 – 12:30

Berlin 16:00 – 19:30

You are being invited to join a virtual **Proteome Discoverer Workshop** delivered via Microsoft Teams.

The workshop is designed to get **current active users** updated with new features in Thermo Scientific™ Proteome Discoverer™ (PD) sw package, with primary focus on CHIMERYS search engine. The on-line session will feature introduction to CHIMERYS, overview of its main parameters, recommended settings for different types of experiments, and hands-on exercises.

Having the most recent PD 3.1 version (Demo license sufficient) would be advantageous. Demo access to CHIMERYS Cloud service could also be obtained. Details will be provided shortly after the registration deadline, together with the links to the training session and download of the training materials.

Registration deadline April 10, 2024.

The sessions will be recorded, and recordings made available to all registered participants.

Please register using the link below.

[Registration link](#)

 Learn more at thermofisher.com/proteomediscoverer
or email us at Pd.support@thermofisher.com

Agenda

Part 1

Introducing CHIMERYS search engine

[Daniel Zolg/Martin Frejno \(MSAID\)](#)

- The problem of chimeric spectra
- Spectrum-centric deconvolution of chimeric spectra
- The CHIMERYS workflow
- Exemplary results for DDA data
- Contribution-based quantification in MS2
- Exemplary results for PRM data
- Exemplary results for DIA data
- How to properly compare search engines

Part 2

Identifications with CHIMERYS

[Michaela Scigelova \(ThermoFisher Scientific\)](#)

- CHIMERYS node in PD
- Discussion of parameters
- Search space considerations
- Processing time considerations
- Hands-on session (Hela sample, Q Exactive; Study setup; Sequest x CHIMERYS comparison)

Part 3

Quantitation with CHIMERYS

[Michaela Scigelova \(ThermoFisher Scientific\)](#)

- Match-between-runs
- CHIMERYS inclusion file
- Hands-on session (DIA three-proteome mix, Exploris 240; Study setup; CHIMERYS results review)
- Tips&Tricks&Bugs

About the presenters:

[Martin Frejno](#) In his role as Chief Executive Officer, Martin is responsible for the long-term strategy of MSAID. He is based in Cologne, Germany.

[Daniel Zolg](#) In his role as Chief Operating Officer, Daniel oversees the operations at MSAID. He is based in Garching, Germany.

[Michaela Scigelova](#) provides customer support to Proteome Discoverer users. She has been working at Thermo Fisher Scientific at various roles since 2000. She is based in Bremen, Germany.