Proteome Discoverer Workshop

March 8-11, 2022 10:00-13:00 CET (GMT+1)

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

The workshop is designed to get novice to intermediate users up to speed with PD 2.5. The workshop is planned as four interactive on-line sessions, focusing on hands-on exercises as well as the discussion of PD features, parameters, and optimized settings. That should also allow ample time for the participants to get their PD-related questions answered in real time.

Please refer to the agenda on the second page and registration link below.

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https://forms.office.com/r/EihzHwb9WX

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

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Agenda

Session 1 (~3 hours)

Agenda

1. **Getting started**
   Study
   Default workflows
2. **Processing data - basics**
   Identification
   Different MS2 types
   Hands-on working with simple LC-MS/MS data sets
3. **Reviewing results – Hands-on**
   Results tables
   Filtering results
   Graphics
   Result Summaries
   Exporting data from PD

Session 2 (~3 hours)

Agenda

1. **Processing more complex data files**
   Hands-on
   Processing tribrid data
   Multiconsensus report
   Iterative searches
   Spectral libraryChimeric spectra
2. **Maximizing IDs**
   Hands-on working with HeLa dataset
3. **Nodes overview**
   Parameters of processing/consensus nodes discussed
   Recommended parameter settings

Session 3 (~3 hours)

Agenda

1. **PTM analysis**
   ptmRS
   Modifications and Isoforms results tables
   Review of phosphopeptide data set - **Hands-on**
2. **Partial Reprocessing Hands-on**
   Adding protein annotation/pathways
3. **Understanding quantification in PD**
   Study factors
   Handling replicates
   Calculating ratios
4. **Quantification experiment setup Hands-on**
   Label-free quan (LFQ)
   SILAC
   TMT/iTRAQ
5. **Validating ratios and statistics**
   ANOVA
   Background protein t-test
   Volcano plots
   PCA

Session 4 (~3 hours)

Agenda

1. **Considerations related to TMT quan**
   Sample complexity
   Multiplexing
   Instrument acquisition methods
   Data processing
2. **Reporter ion quantitation Hands-on**
   Create/edit quan method
   Study setup, study factor definition
   Study variable selection, ratios
3. **Processing TMT 10plex data**
   Hands-on working with TKO TMT 10plex data set
   Reporter Ions Quantifier node parameters explained
   Comments on processing SPS MS3 data
   Comments on processing TMT-labeled phosphopeptides

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