

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





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 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 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 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



