Skyline Tutorial Webinar #10

Working with Modifications in Skyline

With Brendan MacLean (Principal Developer)

Agenda

- Welcome from the Skyline team!
- Working with Modifications in Skyline
- Introduction and overview with Brendan MacLean
 - Setting up and importing PTMs and neutral losses
 - Adding peptides with isotope labeling
 - Importing large assay libraries
- Tutorial

Audience Q&A – submit questions to Google Form:
https://skyline.gs.washington.edu/labkey/qa4skyline.url

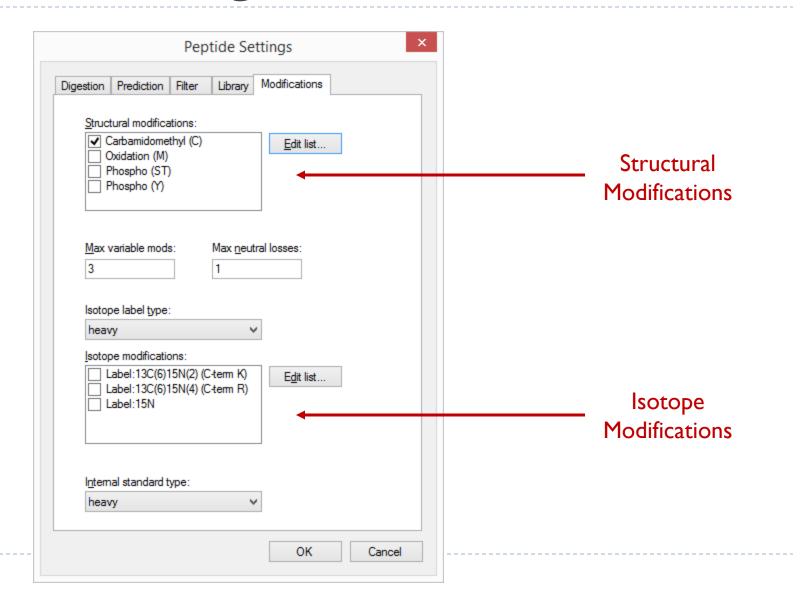


Overview

- Control Center Peptide Settings Modifications tab
 - Defining modifications and neutral losses
- Modified sequence formats
- Skyline guesses modifications
 - Import > Peptide Search
 - View > Spectral Libraries
 - Insert > Peptides
 - Insert > Transition List
- Tips and tricks
 - Filtering for modifications
 - Targeting charged losses
 - Accepting modified peptide states
 - Modified sequences in reports



Peptide Settings - Modifications



Modified Sequence Formats

- Skyline Internal delta-mass to 1 decimal place
 - PEPC[+57.0]IDER
 - Spectral libraries
 - ▶ iRT calculators
 - Optimization libraries
 - Ion mobility libraries
- Skyline Display delta-mass short
 - ▶ PEPC[+57]IDER
 - P[+1]E[+1]P[+1]C[+58]I[+1]D[+1]E[+1]R[+4]
- Explicit isotope labeling
 - PEPC[+57]IDER{+10}



Modified Sequence Formats (continued)

- Named
 - PEPC[Carbomidomethyl (C)]IDER[Label:13C(6)15N(4) (C-term R)]
- Short names (SCIEX)
 - PEPC[CAM]IDER
 - PES[Pho]T[Pho]IC[CAM]IDER
- Unimod
 - ▶ PEPC(unimod: 4)IDER
 - PES(unimod: 21)T(unimod: 21)IC(unimod: 4)IDER



Tutorial



Learn More

- Webinar #11: Panorama AutoQC and Panorama Public
 - Tuesday, October 20th
- Webinar #12: Isotope Labeled Standards in Skyline
 - Tuesday, December 1st
- Workshop in Tokyo, October 13
- Workshop in Puerto Vallarta, November 8 & 9
- Weeklong Course at IIT-Bombay
 - December 10-14
- Weeklong Courses 2016
 - ► ETH, Zurich February 8-12
 - Buck Institute, San Francisco March 7-11
 - ▶ Northeastern, Boston May 2-6
 - University of Washington, Seattle July 18-22



Questions?

Ask any questions you have on modifications in Skyline at the following form:

http://tinyurl.com/QA4Skyline

▶ Take the post-webinar survey:

http://tinyurl.com/Survey4Webinar



This ends this Skyline Tutorial Webinar.

Please give us feedback on the webinar at the following survey: http://tinyurl.com/Survey4Webinar

A recording of today's meeting will be available shortly at the Skyline website.

We look forward to seeing you at a future Skyline Tutorial Webinar.

