

PTM Analysis — Phospho Acetyl Ubiquityl Glyco — Hands-on

Learn how to design, execute and interpret post translational modification centric proteomics studies with a focus on phosphorylation, acetylation, ubiquitylation and glycosylation. From enrichment strategies and LC MS acquisition settings to PTM site localization, FDR control, motif analysis and pathway level interpretation, you will build complete PTM analysis workflows that are ready for publication.

PTM Analysis — Phospho Acetyl Ubiquityl Glyco

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Session 1

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PTM Biology, Types & Study Design

PTM landscape and functional roles

phospho, acetyl, ubiquitin, glyco **signal transduction**
stability and localization

PTM centric experimental design

stimulus and time course **inhibitors and controls**

replicates and depth planning

Sample prep considerations for PTMs

phosphatase and deacetylase inhibitors **denaturation and digestion conditions** **avoiding PTM loss and artefacts**

Session 2

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Phosphoproteomics Workflows & Enrichment

Phosphopeptide enrichment strategies

IMAC and TiO2 concepts **mono vs multi step enrichment** **pH and buffer optimization**

LC MS settings for phosphoproteomics

collision energy tuning **neutral loss behavior** **scan ranges and dynamic exclusion**

Phosphosite centric data handling

phospho tables vs protein tables **class I site concepts** **handling multi phospho peptides**

Session 3

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Acetyl, Ubiquityl & Glyco Workflows

Acetyl and ubiquitin remnant enrichment

antibody based enrichment **K epsilon GG remnant peptides** **on bead digestion ideas**

Glycopeptide analysis basics

lectin and HILIC enrichment **N linked vs O linked focus** **glycan vs peptide fragmentation balance**

Search and annotation for non phospho PTMs

[variable mods and search space control](#) [open search](#)
[style PTM discovery ideas](#) [PTM annotation tools](#)
[overview](#)

Session 4

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Site Localization, Motifs & Reporting

PTM site localization and scoring

[localization scores and probabilities](#) [class I site](#)
[definitions](#) [site level FDR concepts](#)

Motif and pathway level analysis

[sequence logo and motif finders](#) [kinase substrate](#)
[enrichment ideas](#) [mapping to KEGG and Reactome](#)

PTM reports, repositories and checklists

[PTM specific result tables](#) [figure panels for](#)
[reviewers](#) [PRIDE and ProteomeXchange PTM](#)
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