

**TWO-DAY SHORT COURSE, Saturday and Sunday
14 Case Studies in Quantitative Proteomics**

Instructors



Jake Jaffe
The Broad Institute



Michael MacCoss
University of
Washington



Brendan MacLean
University of
Washington



Olga Vitek
Northeastern University

Preliminary Agenda

Day 1

- Intro to Protein Quantification
 - Challenges unique to proteins and peptides
- Principles of Study Design
 - Examples of failed studies, e.g. for lack of randomization (mouse label-free?)
- System Suitability and Quality Control for Proteomics
 - Getting used to looking at your data.
 - Show and Tell: What's wrong with my data?
- Case Study: Targeted Method Refinement
- Statistical Analysis of Proteomics Datasets and Intro to MSStats

Day 2

- Case Study: MS1 Quantification
- Intro to Data Independent Acquisition
- Case Study: Cellular Signatures based on a Phosphoproteomics Assay