

Workshop: H/D Exchange, Covalent Labeling, and Cross-Linking Interest Group  
Date: 7 June 2016  
Organizers: Prof. Joshua Sharp, University of Mississippi  
Prof. David Weis, University of Kansas

Attendance: 160 (standing room only)

This year the interest group meeting was a discussion on recent developments in labeling methodologies.

Four contributors gave ten-minute technique-oriented presentations followed by discussion of their topics with the audience. Ample time was devoted to an active discussion of each topic in turn. New and experienced researchers were able to ask questions and offer comments and suggestions.

The contributors were

Prof. Lisa Jones, Indiana University Purdue University Indianapolis  
Prof. Lars Konermann, University of Western Ontario  
Dr. Miklos Guttman, University of Washington  
Dr. Benjamin Walters, Genentech

Some of the major points of discussion were:

- New methods for in vivo fast photochemical oxidation of proteins (FPOP) in *C. elegans*
- New developments in the understanding of radical chemistry in FPOP experiments. How much of the oxidation reaction takes place on the  $\mu\text{sec}$  timescale? Does the timescale of the slow portion of the reaction matter?
- Tips and tricks for monitoring HX in glycopeptides including how to find and assign the peptides, approaches to improve digestion, and cautions about monitoring HX in glycopeptides.
- New approaches for quantifying peptide-level protection in HX-MS based on HX time shifts.