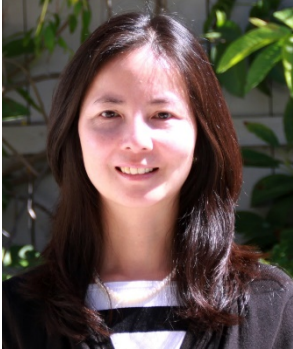


ONE-DAY COURSE  
Cross-linking Mass Spectrometry

Instructors



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**Introduction:** Cross-linking mass spectrometry (XL-MS) is a powerful and emergent technology for interactomics and structural proteomics. It possesses unparalleled capabilities for studying protein-protein interactions and characterizing structures of protein complexes *in vitro* and *in vivo*. This course is designed to introduce basic principles and practical uses of XL-MS technologies to new comers in the field.

**Topics to be covered include**

- basic principles of XL-MS
- structures and selections of cross-linking reagents
- sample preparation
- common XL-MS strategies
- experimental designs
- data acquisition and analysis
- quantitative XL-MS strategies
- bioinformatics tools for cross-link identification, visualization and validation
- biological applications
- results validation, interpretation, and usages
- case studies for proteins and protein complexes

**Prerequisites:** Working knowledge of mass spectrometry for protein identification