



NATIONAL CENTER FOR

QUANTITATIVE BIOLOGY
OF COMPLEX SYSTEMS

Chemical Tags for Quantitative Omics Workshop

August 2, 2024

Hybrid In Person (Room 1116 Rennebohm Hall)/Via Zoom (zoom link will be sent to registered attendees)

All times are US Central (CST)

- 9:00-10:00 **Fundamentals and overview of chemical labeling approaches to quantitative proteomics**
By **Zicong Wang** and **Peng-Kai Liu** (Li Group, UW-Madison)
- 10:00-11:00 **Data Processing and Analysis**
By **Dr. Haiyan Lu** and **Feixuan Wu** (Li Group, UW-Madison)
- 11:00-12:00 **High-throughput quantitative top-down proteomics using intact protein-level tandem mass tag (TMT) labeling**
Research Lecture by **Dr. Si Wu** (University of Alabama)
- 12:00-12:30 Lunch break (Pizzas will be provided for in-person attendees)
- 12:30-1:00 **Platforms and Resources for Proteomics and Beyond**
Special Lunch Seminar by **Dr. Tao Chen** (Absea Biotechnology Ltd.)
- 1:15-2:15 **Applications of DiLeu tags for quantitative PTM analysis and biomarker discovery**
By **Dr. Haiyan Lu** and **Feixuan Wu** (Li Group, UW-Madison)
- 2:15-3:15 **Development and application of isobaric tags for quantitative glycomics and lipidomics**
By **Zicong Wang** and **Peng-Kai Liu** (Li Group, UW-Madison)
- 3:15-3:30 **Break**
- 3:30-4:30 **Unlocking the secrets of complex proteotypes with sample multiplexing-based quantitative proteomics**
Research Lecture by **Dr. Qing Yu** (UMass Chan Medical School)
- 4:30-5:00 **Q&A**