NIST BMD/IBBR Seminar: Extracting Information from LC-MS/MS Data to Support Biopharmaceutical Development

**Event Type:** IBBR Seminar Series  
**Contact Person:** Nicole Tenly

**Event Info**

**Date:** Dec 1 2020 - 11:00am to 12:00pm  
**Location:** Virtual

**Details**

**Speaker/Presenter:** Zhongqi Zhang  
**Speaker Affiliation:** Amgen  
**Event Description:**
Mass spectrometry plays an important role at every stage of biopharmaceutical development. With the advancement of modern instrumentations, collecting high-quality data becomes routine, while translating data into results becomes the new bottleneck. This presentation describes a battery of computational methods we have developed over the past 20 years to extract information from LC-MS/MS data, together with a few real-world applications. Methods to be discussed include component detection, mass determination, retention time alignment, peptide identification based on theoretical MS/MS prediction, and quantitation. Method for complete extraction of protein dynamics information from H/D exchange data will also be discussed.

**Meeting link:**
https://umd.webex.com/umd/j.php?MTID=m201486642d5d80ecb40562b3ae7bacc0

**Meeting number:**  
120 684 5940

**Password:**