Matt Bush

University of Washington

Gusatavus CHE-399 Chemistry Seminar Presentation

Friday, September 26, 2014

Title: “Ion Mobility Mass Spectrometry of Intact Protein Complexes”

Abstract:

Native mass spectrometry is an emerging approach for characterizing the stoichiometry, assembly, and shapes of protein complexes in solution. Native mass spectrometry is especially useful for investigating proteins and protein complexes that are challenging to characterize using condensed-phase experiments, including those that are heterogeneous, have large mass, and are membrane bound. I will discuss how my lab uses ion mobility mass spectrometry and ion/ion chemistry to probe the structures and dynamics of proteins and protein complexes, including an E3 ubiquitin ligase complex involved in regulating the circadian clock of mammals.

Matt Bush | Asst. Prof. | 206 543 7835 [mattbush@uw.edu](mailto:mattbush@uw.edu)  |<http://depts.washington.edu/bushlab/mattbush>