



DEPARTMENT OF  
**Chemistry**  
UNIVERSITY OF WISCONSIN-MADISON

## ***Ph.D. Dissertation Defense***

**Emily Wilkerson**

Coon Research Group

*“Method optimization and application of mass spectrometry to the field of hematology”*

The work described will cover a range of proteomic techniques from global analysis to more targeted studies of a modification or protein-protein interactions. All of these proteomic techniques can be applied to biological questions, such as the ones relating to the field of hematology discussed within this thesis. We use mass spectrometry-based proteomics to probe protein-protein interactions of mitochondrial proteins of unknown function, better characterize the eosinophil proteome, and validate sites of novel gamma carboxylation on a coagulation factor.

**September 5, 2017 at 2 p.m. in Biotech Auditorium**