

CMSP Proteomics Workshop Itinerary

August 9–11, 2016

August 9, 2016 Tuesday

- 8:45 – 9:00 **Welcome** *Pratik Jagtap* (Gort 239)
- 9:00 – 9:45 **Introduction to Proteomics** *Tim Griffin* (Gort 239)
- 9:50– 10:45 **Introduction to Proteomics II.** *Susan Van Riper* (Gort 239)
- 10:45– 10:55 Break
- 10:55– 12:00 **Sample Preparation Basics,** *Todd Markowski* (Gort 239)
- 12:00 – 1:00 Lunch Break
- 1:00 – 4:00 **Workshops Ia, Ib and Ic** (Gort 43) (*split into three groups*)*
- Workshop Ia*** **Stage-tip and preparation for MALDI-TOF analysis** *Todd Markowski*
- Workshop Ib*** **Protein estimation methods.** *Stephen Harvey*
- Workshop Ic*** **Sample Preparation Technologies and Instrumentation.** *Bruce Witthuhn*

August 10, 2016 Wednesday

- 9:00 – 9:45 **Introduction to Mass Spectrometry: Mass Spec 101.** *Tom Krick* (Gort 239)
- 9:50 – 11:05 **Tandem MS and Intro to Liquid Chromatography-MS.,** *LeeAnn Higgins* (Gort 239)
- 11:05 – 11:15 Break
- 11:15 – 12:30 **Specialized Applications in mass spectrometry.** *Bruce Witthuhn* (Gort 239)
- 12:30 – 1:30 Lunch Break
- 1:30 – 4:00 **Workshops IIa, IIb, IIc** (Gort 43) (*split into groups*)*
(*Take Breaks as necessary in between workstations*)
- Workshop IIa** **MALDI-TOF Analysis** (Gort 43) *Tom Krick*
- Workshop IIb** **ESI-Ion Trap MS: Peptide MSMS and intact protein** (Gort 43) *LeeAnn Higgins*
- Workshop IIc** **Manual interpretation of MS/MS spectrum.** (Gort 43) *Candace Guerrero*

August 11, 2016 Thursday

- 9:00 – 9:40 **ProteoInformatics Overview.** *Pratik Jagtap* (Gort 239)
- 9:40– 9:45 Break
- 9:45 – 10:45 **Protein Identification.** *LeeAnn Higgins* (Gort 239)
- 10:50 – 12:30 **Protein Validation and Quantification** *Susan Van Riper* (Gort 239)
- 12:30 – 1:30 Lunch Break
- 1:30 – 4:00 **ProteoInformatics Workshop** (Cargill Building SCI 138 (MSI computer lab))
- 1:00 – 1:30 **Peptide Mass Fingerprinting (PMF) Analysis,** *LeeAnn Higgins*
- 1:30 – 2:40 **MS/MS analysis and database searching: Galaxy-P,** *Pratik Jagtap*
- 2:40 - 3:30 **Viewing peptide and protein results: Scaffold,** *LeeAnn Higgins*
- 3:30 – 4:00 **Wrap-up and questions**