



michigan regional comprehensive  
metabolomics resource core

## Metabolomics Summer Workshop

### June 25, 2013

8:00 – 8:30	Registration
8:30 – 9:15	Introduction to Metabolomics ( <i>Subramaniam Pennathur</i> )
9:15 – 9:45	Study Design and Sample Collection ( <i>Anna Matthew</i> )
9:45 – 10:15	Sample Preparation and Techniques ( <i>Li Zhang</i> )
10:15 – 10:30	Break
10:30 – 11:00	Submitting Your Samples ( <i>Stephen Brown</i> )
11:00 – 12:00	Hardware and Techniques ( <i>Charles Evans</i> )
<b>12:00 – 1:00</b>	<b>Lunch</b>
1:00 – 1:30	NMR ( <i>Ayyalusamy Ramamoorthy</i> )
1:30 – 2:15	Data Processing ( <i>Tanu Soni</i> )
2:15 – 4:30	Demonstrations <ul style="list-style-type: none"><li>○ Sample Preparation (<i>Li Zhang and Stephen Brown</i>)</li><li>○ Instruments (<i>Charles Evans and Chunhai Ruan</i>)</li></ul>

### June 26, 2013

8:00 – 8:30	Check-in
8:30 – 9:15	Statistical Analysis ( <i>Kerby Shedden</i> )
9:15 – 10:15	Bioinformatics Analysis ( <i>Alla Karnovsky</i> )
10:15 – 10:30	Break
10:30 – 11:30	Case Presentation ( <i>Chuck Burant</i> )
<b>11:30 – 1:00</b>	<b>Lunch</b>
1:00 – 3:00	<ul style="list-style-type: none"><li>• Software Demonstrations<ul style="list-style-type: none"><li>○ Metscape (<i>Alla Karnovsky</i>)</li><li>○ Metab2MeSH (<i>Alla Karnovsky</i>)</li><li>○ MetLIMS and Data Management Tools Demonstration (<i>Sasha Raskind</i>)</li></ul></li></ul>
3:00 – 4:00	Q&A Session with Experts