



**ASMS Fall Workshop
MALDI Imaging Mass
Spectrometry**

October 30 – 31, 2021

Pennsylvania Convention Center

Organizers

Peggi Angel, *Medical University of South Carolina*
& Richard Drake, *Medical University of South Carolina*

SATURDAY, OCTOBER 30

8:00 – 9:00 **Badge pick-up**, *Grand Hall*

9:00 – 9:05 Opening Remarks

DAY 1: BASIC SAMPLE PREPARATION

9:05 – 9:50 **Overview of Imaging Mass Spectrometry**
Kevin Schey, *Vanderbilt University*

10:00 -10:45 **MALDI Sources and Instrumentation**
Michelle Reyzer, *Vanderbilt University*

11:00 - 11:15 Break

11:15-12:00 **Preparation of Mammalian Cells & Microbes for Imaging Mass Spectrometry**
Laura Sanchez, *University of California, Santa Cruz*

12:00 - 1:00 Box lunches provided by ASMS

1:00 – 1:45 **Organoid & Spheroid Preparation for Imaging Mass Spectrometry**
Amanda Hummon & Emily Sekera, *Ohio State University*

2:00 – 2:45 **Tissue Preparation for Imaging Mass Spectrometry**
Michelle Reyzer, *Vanderbilt University*

3:00 - 3:30 Break

3:30 - 4:15 **Array Imaging of Cells, Biofluids and Target Proteins**
Peggi Angel & Richard Drake, *Medical University of South Carolina*

4:15 – 4: 45 **Ask the Teachers: Discussion**

5:00- 6:00 Happy Hour

SUNDAY, OCTOBER 31

DAY 2: SAMPLE PREPARATION FOR TARGET ANALYTES

- 9:00-9:45 **Lipid & Metabolites, Approaches and Pitfalls**
Pierre Chaurand, *Université de Montréal*
- 10:00 -10:45 **Drug Imaging & Approaches to Drug Quantification**
Reid Groseclose, *GlaxoSmithKline*
- 11:00-11:15 Break
- 11:15-12:00 **Peptide Imaging & Parallel LC-MS/MS Workflows**
Peggi Angel, *Medical University of South Carolina*
- 12:00- 1:00 Lunch
- 1:00 – 1:45 **Glycan Imaging MS In Tissues, Targets and Strategies**
Richard Drake, *Medical University of South Carolina*
- 2:00 – 2:45 **Protein Imaging, Identification, and Validation Strategies**
Jessica Moore, *Frontier Diagnostics*
- 3:00 – 3:30 Break
- 3:30 - 4:30 **Data Analysis Overview & Discussion**
Alison Scott, *University of Maryland*