



**12:00 pm-2:00 pm**

- Lunch will be provided daily
- Limited registrations available
- Optional daily demos and lab tours 2:30-3:30 pm for hands-on experience.

RSVP by June 3rd to Anna Augustin  
([araugust@purdue.edu](mailto:araugust@purdue.edu)) or use QR  
code provided below.

## INSTRUCTORS

- **Bruce R. Cooper**, Metabolite Profiling Facility Director and Bindley Bioscience Center Scientific Director
- **Christina R. Ferreira**, Metabolite Profiling Facility Lipidomics Scientist and Assistant Research Professor
- **Nate Lichti**, Biostatistician, Bindley Bioscience Center
- **Nicolas M. Morato**, Assistant Research Professor, Purdue Institute for Cancer Research (PICR)
- **Priyanka Ramesh**, Bioinformatician
- Bindley Bioscience Center
- **Thomas C. Sams**, Graduate Student
- **Yu Han-Hallett**, Metabolomics Research Scientist, Metabolite Profiling Facility
- **Yunfei (Veronica) Feng**, Graduate Student, Metabolite Profiling Facility



# MASS SPECTROMETRY SUMMER CLINIC

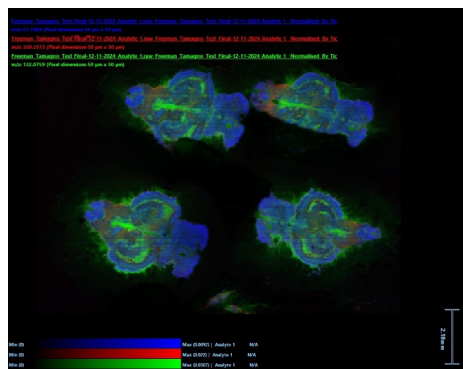
- Basic concepts in MS
- Ionization sources
- Mass analyzers
- MS/MS scan modes

- Overview of Liquid Chromatography (LC)
- Introduction to Gas Chromatography (GC)

- Absolute quantification principles
- Best practices for targeted quantification

- Lipid class identification
- Data acquisition and interpretation

- Desorption electrospray ionization (DESI) principles
- DESI-MS imaging and biological applications
- High-throughput screening and drug discovery



Overlaid DESI-MS ion images showing the distribution of three metabolites in zebrafish brain. (Credit: Wagner Tamagno and Jennifer Freeman)

# ***BINDLEY BIOSCIENCE CENTER*** **MASS SPECTROMETRY SUMMER CLINIC**



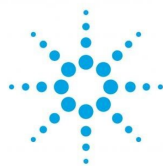
Purdue Institute of Inflammation,  
Immunology and Infectious Disease



Purdue Institute for Drug Discovery



College of Agriculture



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