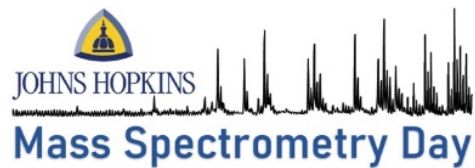


Please join us and register at the following link for  
<https://forms.gle/VVTkrksHNhHUWrKn9>



## 4TH JHMI MASS SPECTROMETRY DAY FOR BASIC AND CLINICAL RESEARCH

**MAY 30<sup>TH</sup>, 2025, 9 AM – 5:30 PM**

JOHNS HOPKINS SCHOOL OF MEDICINE, E. BALTIMORE CAMPUS – [MOUNTCASTLE AUDITORIUM, PTCB](#)

### **Session I**

**“Structural Proteomics”** Dr. Stephen Fried, Chair

- 9:00-9:05 am** Welcome (Dr. Svetlana Lutsenko)
- 9:05-9:25 am** **Dr. Francis O’Reilly** (NIH, CDI) – Architecture of protein complexes in situ by structural proteomics
- 9:30-9:50 am** **Dr. Mike Fitzgerald** (Duke University) – Characterization disease phenotypes using mass spectrometry-based methods for protein folding stability profiling
- 9:55-10:15 am** **Dr. Hugo Amedei** (Johns Hopkins) – Serially integrated and mutually validated De Novo protein networks (SIMUV) by crosslinking mass spectrometry and complexome profiling

*20 min Coffee Break*

### **Session II**

**“Mass Spectrometry in Cancer Biology and Drug Development”** Dr. Jan Beumer, Chair

- 10:35-10:55 am** **Dr. Thomas P. Conrads** (DOD) – TBD
- 11:00-11:20 am** **Dr. Beth Kelly** (Johns Hopkins) – Sulfur metabolism controls T cell immunity
- 11:25-11:45 am** **Dr. Matt MacDonald** (University of Pittsburgh) – Synaptic Proteome alterations in human cortex
- 11:45-1:30pm** **Lunch Poster Session** (All labs using mass spectrometry are encouraged to participate)

### **Session III**

**“New Mass Spectrometry Instrumentation/ Method Development”** Dr. Kristine Glunde, Chair

- 1:30-1:35 pm** Thank you to sponsors (Dr. Svetlana Lutsenko)
- 1:40-2:00 pm** **Dr. Asher Newsome** (Smithsonian Institute) – Hand held probe with position sensor feedback for real-time minimally-invasion, high resolution analysis of complex objects in situ
- 2:05-2:25 pm** **Dr. Bindesh Shethra** (Waters) – Advancements in desorption electrospray ionization (DESI) imaging from tissues towards cells
- 2:30-2:50 pm** **Dr. Klaus Dreisewerd** (University of Münster) – MALDI-2 and correlative t-MALDI-2 mass spectrometry imaging molecular insights into tissues and cell cultures at the micrometer scale

*20 min Coffee Break*

### **Session IV**

**“Mass Spectrometry in Cardiology”** Dr. Brian Foster, Chair

- 3:10-3:30 pm** **Dr. Jennifer Van Eyk** (Cedars-Sinai) – Proteomics: solving clinical challenges in diseases
- 3:35-3:55 pm** **Dr. Ying Ge** (University of Wisconsin, Madison) – Unveiling cardiovascular proteoform through proteomics for precision medicine
- 4:00-4:20 pm** **Dr. Mark Kohr** (JHSPH) – Protecting the heart from ischemic injury: what does SNO have to do with it?
- 4:25-4:45 pm** **Keynote Lecture: Dr. John Yates** (Scripps) – Unraveling the effects of a single mutation on the Cystic Fibrosis ion transport regulator’s protein interactions, PTMs, and structure
- 4:45-5:30 pm** Reception

**Hopkins Organizers:** Dr. Jan Beumer, Dr. Brian Foster, Dr. Stephen Fried, Dr. Kristine Glunde, Dr. Svetlana Lutsenko, Dr. Chan-Hyun Na, Dr. Ana Rule and Felicia McGowan