thermoscientific

Bound Together: The Perfect Marriage of Mass Spectrometry and Cryo-EM

February 27th, 2023 at 10 am PST

In this seminar, you'll learn:

- The basics of Mass Spectrometry and Cryo-EM techniques
- The details of how the integration of Mass Spectrometry and cryo-EM will help you in your research

Website:

https://dornsife.usc.edu/bridge-institute/ms-and-cryo-em-seminar/

Registration encouraged:

Location:

Michelson Center
For Convergent Bioscience
1002 Childs Way , MCB 101
Los Angeles, California 90089

For more info please contact USC Bridge Institute:

bridgeinstitute@usc.edu

213-821-9823

Structural biologists face several challenges when trying to solve the structure of large and dynamic complexes. However, the combination of different techniques as Mass Spectrometry and Cryo-EM, an approach known as integrative structural biology, is revolutionizing the understanding of protein structure, function and dynamics.

Program:

9.30 am – 10.00 am: **Check-in and Coffee**

10.00 am – 10.45 am: **Natalia de Val PhD**, Thermo Fisher
Introduction to Cryo-EM and Its Integration with Mass Spectrometry, Application Results

10.45 am – 11.00 am: Q&A

11.00 am – 11.30 am: **Rosa Viner PhD,** Thermo Fisher
Introduction to Mass Spectrometry and Its Integration with Electron Microscopy, Application Results

11.30 am – 11.45 am: Q&A

11.45 am – 12.45 pm: **Lunch**

12.45pm – 1.15 pm: **Vadim Cherezov PhD,** USC
Structural Studies of G Protein-Coupled Receptors

1.15 pm – 1.45 pm: **Iain D. G. Campuzano PhD FRSC,** Amgen
Hydrophobic Protein Analysis in Industry: From Native-MS to High Throughput-MS Therapeutic Project Support

1.45 pm – 2.15 pm: **Rachel Loo PhD,** UCLA
Complementary MS and CryoEM: Macromolecular Complexes and Post-Translational Modifications

2.15 pm – 2.45 pm: **Coffee Break**

2.45 pm – 3.15 pm: **Cornelius Gati PhD,** USC
Structural Basis of GABA Reuptake Inhibition

3.15 pm – 3.45 pm: **Lan Huang PhD,** UCIrvine
Structural Analysis of Protein Complexes Using Cross-linking Mass Spectrometry

3.45 pm – 4.00pm: **Wrap-up**

USC Michelson Center for Convergent Bioscience
Bridge Institute

ThermoFisher SCIENTIFIC