

Inserm Workshop 262

Spectrométrie de Masse pour la Biologie Structurale Mass Spectrometry for Structural Biology

11-13 Janvier 2022 / January 11-13, 2022 ■ Bordeaux

Mardi 11 Janvier 2022 ■ Tuesday January, 11th 2022

14:45 - 15:15	Reception of participants
15:15 - 15:30	Welcome and presentation by the organizers
SESSION I	Top-Down Mass Spectrometry
15:30 - 16:15	Introduction to Top Down MS and data interpretation Frank Sobott (University of Leeds, United Kingdom)
16:15 - 17:00	Top-Down MS in native conditions Michal Sharon (Weizmann Institute, Tel-Aviv, Israel)
17:00 - 17:30	Coffee break
17:30 - 18:15	Top-Down MS to elucidate proteoforms from <i>actinomycetes</i> Julien Marcoux (Institut de Pharmacologie et de Biologie Structurale, Toulouse, France)
18:15 - 19:00	Analysis of BioTherapeutics by Structural MS Alain Beck (Pierre Fabre, St Julien en Genevois, France)
19:00 - 19:30	Poster Session 1
19:30	Dinner

Mercredi 12 Janvier 2022 ■ Wednesday January, 12th 2022

06:30 - 08:30	Breakfast
SESSION II	Native Mass Spectrometry & Ion Mobility
08:30 - 09:15	Introduction to Native Mass Spectrometry and data interpretation Justin Benesch (University of Oxford, United Kingdom)
09:15 - 10:00	Introduction to Ion Mobility and data interpretation Valérie Gabelica (Institut Européen de Chimie et Biologie, Bordeaux, France)
10:00 - 10:30	Coffee break
10:30 - 11:15	IM-MS for the structural characterization of proteins Kostas Thalassinos (University College London, United Kingdom)
11:15 - 12:00	Analysis of Membrane proteins by Native MS and IM-MS Cherine Bechara (Institut de Génomique Fonctionnelle, Montpellier, France)
12:00 - 14:00	Lunch

14:00 - 14:45	Analysis of Viruses by Native MS and IM-MS Charlotte Uetrecht (Heinrich Pette Institute, Hamburg, Germany)
SESSION III	Hydrogen-Deuterium eXchange coupled to Mass Spectrometry (HDX-MS)
14:45 - 15:30	Introduction to HDX-MS and data interpretation Sébastien Brier (Institut Pasteur, Paris, France)
15:30 - 16:15	HDX-MS of membrane proteins and data analysis Argyris Politis (King's College, London, United Kingdom)
16:15 - 16:45	Coffee Break / Poster Session 2
16:45 - 17:30	Protein-ligand interaction by Structural MS Sarah Cianférani (Institut Pluridisciplinaire Hubert Curien, Strasbourg, France)
19:30 - 20:15	Cocktail
20:15	Dinner

Jeudi 13 Janvier 2022 ■ **Thursday January, 13th 2022**

06:30 - 08:30	Breakfast
SESSION IV	Cross-linking and Integrative Modeling
08:30 - 09:15	Introduction to Cross-Linking MS and data interpretation Carla Schmidt (Martin Luther University, Halle, Germany)
09:15 - 10:00	Combining Cross-Linking MS with other Structural MS methods Petr Man (BioCev, Prag, Czech Republic)
10:00 - 10:30	Coffee Break
10:30 - 11:15	Integrating Structural MS data to model protein complexes Matteo Degiacomi (Durham University, Durham, United Kingdom)
11:15 - 12:00	Round Table / Pros & Cons, Complementarity of each method / Open Discussion
12:00 - 14:00	Lunch
14:00	Departure