



Mass spectrometry in structural biology

First FRISBI/Profi meeting

Program



November 21, 2017, CNRS, salle La Terrasse, Gif sur Yvette

09.30 - 09.45 *Registration*

09.45 – 10.00 Welcome/Introduction: **Myriam Ferro/Jean-Baptiste Charbonnier**

10.00 - 11.00 Session Presentation of the national infrastructures and common interests
(Moderator: Myriam Ferro)

10.00 - 10.30 Profi Infrastructure
Sarah Cianférani (IPHC Strasbourg) and **Julien Marcoux** (IPBS, Toulouse)

10.30 - 10.45 FRISBI infrastructure
Gilles Labesse (CBS Montpellier)

10.50 - 11.00 IFB infrastructure
Christophe Caron (Ingenum)

11.00 - 12.10 Session Structural studies and Mass Spectrometry I (moderator: Julien Marcoux)

11.00 - 11.30 Synthetic Biology meets Structural Biology: Enabling Tools to Study Multiprotein Complex Structure and Mechanism
Imre Berger (Bristol university, UK)

11.30 – 11.50 Modeling macromolecular complexes from conflicting and ambiguous data
Michael Nilges (Institut Pasteur, Paris)

11.50 – 12.10 Combining HD/X, NMR and MD for studies of nuclear receptors dynamics
Annick Dejeagere (IGBMC, Strasbourg)

12.10 - 13.30 *Lunch*

13.30 - 14.50 Session Structural studies and Mass Spectrometry II (moderator: Jean-Baptiste Charbonnier)

13.30 - 13.50 Crystallographers rescued by HDX-MS: integrative structural biology to study enzymes modifying factors involved in translation
Marc Graille (École Polytechnique)

13.50 - 14.10 The protein transporter FhaC: relationships between function and dynamics
Françoise Jacob- Dubuisson (Institut Pasteur, Lille)

14.10 - 14.30 Native mass-spectrometry as a tool to investigate covalent and non-covalent nuclear receptor interactions
William Bourguet (CBS, Montpellier)

14.30 – 14.50 Probing the conformational changes of multidrug ABC transporters by H/D exchange
Jean-Michel Jault (IBCP, Lyon)

14.50 - 15.30 Discussion on the interface and developments between mass spectrometry and structural biology (moderators: Sarah Cianférani, Odile Schiltz)

15.30 *End of the meeting*