

Satellite workshop

**ivMX 2018**

In vivo macromolecular crystallography: Advances and Perspectives

16-17 January 2018

## Synchrotron SOLEIL

### Programme

#### Tuesday, January 16<sup>th</sup>

- 11:30 - 14:00    Registration
- 13:00 - 14:00    Welcome coffee
- 14:00 - 14:40    Setting up an In-vivo crystallography platform at SOLEIL  
*Pierre Montaville – Synchrotron SOLEIL, France*
- 14:40 - 15:20    **Invited Talk**  
Mammalian crystalline proteins in vivo see the light  
*Savvas Savvides – Ghent University, Belgium*
- 15:20 - 15:40    Lipid Membrane Architectures Promoting Ordering and Crystallization of Proteins  
*Angeliva Angelova – CNRS/Institut Galien Paris Sud, France*
- 15:40 - 16:00    Pulse-chase experiments to study in vivo crystal formation in a Coccolithophore  
*Benedikt Lassalle – Synchrotron SOLEIL, France*
- 16:00 - 16:40    *Coffee break and group photo*
- 16:40 - 17:20    **Invited Talk**  
Structure of a heterogeneous, glycosylated, lipid-bound, in vivo grown protein crystal at atomic resolution  
*Subramanian Ramaswamy – INSTEM, India*
- 17:20 - 18:00    **Invited Talk**  
In vivo-grown protein microcrystals: the arms and armour of insect viruses  
*Fasseli Coulibaly – Monash University, Australia*
- 19:00 – 21:00    *Aperitif and dinner at SOLEIL Canteen*

## Wednesday, January 17<sup>th</sup>

- 08:30 - 09:00 *Coffee break*
- 09:00 - 09:40 **Invited Talk**  
Artificial photo-convertible fluorescence proteins: engineering, mechanism, and in vivo crystallization  
**Hidekazu Tsutsui** – JAIST, Japan
- 09:40 - 10:20 **Invited Talk**  
A potent binary mosquito larvicide revealed by *de novo* phasing with an X-ray free-electron laser  
**Jacques-Philippe Colletier** – IBS, France
- 10:20 - 11:00 *Coffee break*
- 11:00 - 11:40 **Invited Talk**  
Protein Crystallography in Living Insect Cells  
**Lars Redecke** - Lübeck University, Germany
- 11:40 - 12:10 Second-order Nonlinear Imaging : Application in Detection and Characterisation of Protein Crystals  
**Frederic Jamme** – Synchrotron SOLEIL, France
- 12:10 - 12:40 **Invited Talk**  
Microfluidic Positioning of biological macromolecular crystals for serial X-rays Diffraction on the Proxima-1 Beamline  
**Igor Chaussavoine** – Synchrotron SOLEIL, France
- 12:45 - 14:00 *Lunch at SOLEIL*
- 14:00 – 15:00 *Round Table*
- 15:00 – 16:30 *Visit of Synchrotron SOLEIL*