



Current Challenges in Integrated Structural Biology

October 3-4, 2016

IGBMC auditorium, Illkirch, France

Day 1: Monday, October 3rd

12.00 - 13.45 *Lunch buffet and Registration*

14.00 Welcome

14.00 - 14:30 Current Challenges in Integrated Structural Biology **Bruno Klaholz**

14.30 - 15.05 Engineering nano discs for studies of membrane protein **Gerhard Wagner**

15.15 - 15.50 Structure of the Zika virus **Michael Rossmann**

16.00 - 16.15 Extending the frontier of Cryo-EM with the K2 Quantum **Daniel Monville**

16.15 - 16.45 *Coffee break*

16.45 - 17.20 The HIV-1 pre-integration complex: structure function and dynamics **Marc Ruff**

17.30 - 18.05 Perspectives in Chemistry: Molecular, Supramolecular Adaptive Chemistry **Jean-Marie Lehn**

18.15 - 19.30 Poster session & visit of the CBI facilities

Day 2: Tuesday, October 4th

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| 9.00 - 9.35 | Cryo-EM studies of the spliceosome | Kiyoshi Nagai |
| 9.45 - 10.20 | Structural Basis for the Inhibition of the Eukaryotic Ribosome | Marat Yusupov |
| 10.30 - 10.45 | Structural insights into Staphylococcus aureus ribosome in complex with antibiotics, mRNA and tRNAs | Zohar Eyal |
| 10.45 - 11.15 | <i>Coffee break</i> | |
| 11.15 - 11.50 | Integrated structural biology at a synchrotron source - some possibilities from SOLEIL | Andrew Thompson |
| 12.00 - 12.35 | Modeling your way out of systematic errors by simulating XFEL diffraction patterns | James Holton |
| 12.45 - 13.00 | Pushing the limits of photon detection with EIGER (DECTRIS) | Sacha De Carlo |
| 13.00 - 14.00 | <i>Lunch buffet</i> | |
| 14.00 - 14.35 | Pore forming proteins in pathogen attack and immune defence | Helen Saibil |
| 14.45 - 15.05 | Towards atomic models with cryo-electron tomography and subtomogram averaging | Florian Schur (John Briggs lab) |
| 15.15 - 15.30 | A user-friendly DNA modeling software for the interpretation of cryo-electron microscopy data | Damien Larivière |
| 15.30 - 15.45 | High resolution reconstruction of the nucleosome core particle by phase-plate cryoEM | Eugene Chua |
| 15.45 - 16.20 | Perspectives & challenges in cryo-EM image processing | Marin van Heel |
| 16.30 - 17.30 | <i>Coffee break, specific discussions, posters, visits, preparations for workshop 5-8 Oct</i> | |