



## DAY 1 - Thursday 4th July 2019

9.15-10.15	Registration	
10:00-12:00	Tours of PSB facilities - <b>Optional</b>	
11.30-14.00	Registration	
11.30-13:45	Lunch in the canteen	
13.45-14:00	<b>Stephen Cusack</b> European Molecular Biology Laboratory Grenoble (FR)	<i>Conference Welcome</i>
14:00-15:00	<b>Opening keynote lecture</b>	Chair: Stephen Cusack (EMBL)
	<b>Judy Hirst</b> MRC- Mitochondrial Biology Unit (UK)	<i>CryoEM Structure of Mammalian Respiratory Complex I, an Asymmetric 1 MDa Energy-Converting Enzyme</i>
15:00-16:25	<b>Session 1: Molecular machines</b> Chair: Florent Bernaudat (PSB)	
15:00	<b>Frank Gabel</b> Institut de Biologie Structurale / Institut Laue-Langevin (FR)	<i>SANS as a unique tool for structural biology of biomacromolecular assemblies</i>
15:35	<b>Sigrid Milles</b> Institut de Biologie Structurale (FR)	<i>Studying intrinsically disordered proteins by integrated NMR and fluorescence spectroscopies</i>
16:10	<b>Gang Dong</b> University of Vienna (AT)	<i>Assembly and function of BILBO1, a multidomain cytoskeletal protein from the human parasite Trypanosoma brucei</i>
16:25-16:55	Coffee break (30 min)	
16:55-19:10	<b>Session 2: Machines on genes</b> Chair: Marc Jamin (IBS)	
16:55	<b>Xiaodong Zhang</b> Imperial College London (UK)	<i>Structures and Mechanisms of Transcription Initiation and Its Regulation</i>
17:30	<b>Andrea Musacchio</b> Max Planck Institute Dortmund (DE)	<i>The kinetochore: the ultimate divisive machine</i>
18:05	<b>Wei Yang</b> National Institutes of Health (US)	<i>Structure, assembly and reaction chemistry of the DNA replisome</i>
18:40	<b>Thomas Miller</b> The Francis Crick Institute (UK)	<i>Mechanism of head-to-head MCM double-hexamer formation revealed by cryo-EM</i>
18:55	<b>Susanne Kassube</b> Friedrich Miescher Institute (CH)	<i>Structural basis of Fe-S cluster biogenesis in DNA replication and repair proteins</i>
19:10	<b>Clip session for selected abstracts</b>	
19:25-21:30	Cocktail reception Buffet dinner + poster session	

## DAY 2 - Friday 5th July 2019

### 9:00-11:55 **Session 3: Machines on RNA**

Chair: Eva Kowalinski (EMBL)

09:00 **Michael Sattler**  
Technical University of Munich (DE) *NMR and integrative structural biology to study dynamics in regulatory biomolecular interactions*

09:35 **Kathleen Collins**  
University of California, Berkeley, (US) *Biogenesis and Structure of Human Telomerase*

10:10 Group photo + Coffee break (40 minutes)

10:50 **Martin Jinek**  
Zurich University (CH)  
(EMBO Young Investigator Lecture) *CRISPR-Cas genome editors: structures, mechanisms and applications*

11:25 **Moamen Abdelkareem**  
Institute of Genetics and Molecular and Cellular Biology (FR) *Structural Basis of Transcription: RNA Polymerase backtracking and its reactivation*

11:40 **Sebastian Fica**  
MRC - Laboratory of Molecular Biology (UK) *A human post-catalytic spliceosome structure reveals essential roles of metazoan factors for exon ligation*

11:55 **Poster awards**

12:00-13:00 Lunch in the canteen

### 13:00-15:15 **Session 4: Cross membrane talk**

Chair: Eaazhisai Kandiah (ESRF)

13:00 **Henning Tidow**  
Hamburg University (DE) *Hybrid approaches for structural studies of integral membrane proteins*

13:35 **Elena Seiradake**  
University of Oxford (UK)  
(EMBO Young Investigator Lecture) *A combinatorial code in brain development: how do cell surface receptors guide neurons by forming different structures?*

14:10 **Poul Nissen**  
Aarhus University (DK) *Structure and Dynamics of Membrane Transport Proteins*

14:45 **Valentina Palmerini**  
European Institute of Oncology (IT) *Structural insights into the TNFR Grindelwald, coupling loss of cell polarity with neoplastic growth*

15:00 **Ian White**  
Stanford University (US) *Structural analysis of the NSF reaction coordinate by single-particle cryo-EM*

15:15-15:45 Coffee break (30 min)

### 15:45-18:45 **Session 5: Technology advancements**

Chair: Trevor Forsyth (ILL)

15:45 **Julia Mahamid**  
European Molecular Biology Laboratory Heidelberg (DE) *Molecular Views into Cellular Functions by in situ Cryo-Electron Tomography*

16:20 **Petra Fromme**  
Arizona State University (US) *Time-Resolved Femtosecond Crystallography with XFELs*

16:55 **Gaël McGill**  
Harvard Medical School (US) *Visualizing Molecular Choreography: Tools, Techniques and Design*

17:30 **Matthew Blakeley**  
Institut Laue-Langevin (FR)

*Neutron crystallography*

17:45-18:45 **Closing keynote lecture**

**James Naismith**  
University of Oxford (UK)

*Putting enzymes to work; making macrocyclic peptide hybrids*

18:45 Closing remarks

Transfer from EPN to Conference Dinner venue by tram and cable car

20:00:00 Reception and Conference Dinner at Le Per'Gras