13th Symposium **Trends in Structural Biology**

August 19 – 20, 2019

Lecture Hall Y 15 G 20
University of Zurich
Winterthurerstrasse 190
8057 Zurich
Monday August 19, 2019

08:15 Registration in front of Y 15 G 20

08:45 Michael Schaepman, Vice President of Research, UZH
Andreas Plückthun, UZH
«Welcome Address and Opening of the Meeting»

Session 1
Chair: Andreas Plückthun, UZH

09:00 Jason Chin, MRC, Cambridge (UK)
«Reprogramming the Genetic Code»

10:00 Todd Yeates, UCLA (USA)
«Giant Protein Assemblies in Nature and by Design»

11:00 Coffee Break

Session 2
Chair: Ben Schuler, UZH

11:30 Scott Blanchard, St. Jude’s Research Hospital, Memphis (USA)
«Single-Molecule Recordings of Secondary Transporter Activity with Single-Turnover Resolution»

12:30 Pétur Heiðarsson, University of Iceland/UZH
«Disordered Proteins Enable Histone Chaperoning on the Nucleosome»

12:45 Lunch Break

Session 3
Chair: Eilika Ban-Weber, ETHZ

14:00 Brenda Schulman, MPI of Biochemistry, Martinsried (DE)
«How a Ubiquitin-Like Protein Brings Ubiquitylation to Life»

15:00 Andreas Müller, ETHZ
«Functional and Structural Insight into DNA Damage Response Regulator PaFBC Encoded in the Mycobacterial Proteasome Gene Locus»

15:15 Coffee Break

Session 4
Chair: Amedeo Caflisch, UZH

16:00 Karen Glass, Albany College, Vermont (USA)
«Combinatorial Recognition of Histone Modifications»

17:00 Cassiano Langini, UZH
«Is the Mechanism of Binding of Histone Tails Conserved Across the Bromodomain Family?»

17:15 Leonidas Emmanouilidis, ETHZ
«Mechanisms and Biophysical Characterization of Protein Phase Separation»

17:30 Volodymyr Korkhov, PSI & ETHZ
«Structures of a Membrane Adenylyl Cyclase-G Protein Complex Reveal a Novel Mechanism of cAMP Signaling Pathway Regulation»

17:45 End of Program Day 1

19:00 Gala Dinner at UniTurm
Tuesday August 20, 2019

Session 5
Chair: Nenad Ban, ETHZ
09:00 Dame Carol Robinson, University of Oxford (UK) «Mass Spectrometry: From Plasma Proteins to Mitochondrial Membranes»
10:00 Albert Heck, Utrecht University and Netherlands Proteomics Center (NL) «The Diverse and Expanding Role of Mass Spectrometry in Structural and Molecular Biology»
11:00 Coffee Break

Session 6
Chair: Kaspar Locher, ETHZ
11:30 Stephen Harrison, Harvard Medical School (USA) «Molecular Machinery of Chromosome Segregation: Structure of a Budding-Yeast Kinetochore»
12:30 Bruno Martins, UZH «Resolving Actin Polarity in Cells by Using in-situ Cryo-Electron Tomography»
12:45 Martin Saurer, ETHZ «Mitoribosomal Small Subunit Biogenesis in Trypanosomes Involves an Extensive Assembly Machinery»
13:00 Lunch with Speaker Tables for Informal Discussions

Session 7
Chair: Ohad Medalia, UZH
14:15 Jendrik Schöppe, UZH «Protein Engineering-Enabled Structure Determination of GPCRs»
14:30 Justin Walter, UZH «On the Boundary Between Channels and Transporters — Structure and Function of Slc26a9»
14:45 Gregor Weiss, ETHZ «Septal Junctions: a Bacterial Gap Junction Analog»
15:00 Werner Kühlbrandt, MPI of Biophysics, Frankfurt (DE) «New Insights into the Structure and Mechanisms of ATP Synthases by High-Resolution Cryo-EM»
16:00 Nenad Ban, ETHZ «Concluding Remarks»
16:05 Coffee Break

Session 8
Chair: Rudi Glockshuber, ETHZ
Rainer Rudolph Awards 2019 for the Best PhD Theses in Protein Biochemistry
16:30 Sabine Studer, Harvard Medical School (USA) «From Structure to Function: Evolving De Novo Metalloenzymes»
16:50 Markus Schmid, Roche Diagnostics (DE) «Development of an Adenoviral Gene Vector with Designed Shield and Adapter for Paracrine Delivery and Therapeutics»
17:15 Reception