University of Zurich

12th Symposium **Trends in Structural Biology**

February 6. - 7., 2017

Lecture Hall KOL G 201, Aula University of Zurich,
Rämistr. 71, 8006 Zurich
Monday February 6, 2017

8:15  Registration
8:45  Welcome Address
  Andreas Plückthun, UZH
  Nenad Ban, ETHZ

Session 1
Chair: Nenad Ban, ETHZ

9:00  Stephen Cusack
  EMBL, Grenoble
  «Structural Insights into RNA Synthesis by the Influenza Virus Transcription-Replication Machine»

9:45  Discussion

10:00 Karl-Peter Hopfner,
  Gene Center, University Munich
  «Structural Mechanisms of Swi2/Snf2 Protein:DNA Remodeller»

10:45  Discussion

11:00  Coffee Break

Session 2
Chair: Nenad Ban, ETHZ

11:30  James Williamson,
  Scripps Research Institute, La Jolla
  «Parallel Assembly Channels in the Bacterial 50S Ribosomal Subunit»

12:15  Discussion

12:30  Philipp Bieri, ETHZ
  «The Complete Structure of Chloroplast 70S Ribosome in Complex with Translation Factor pY»

12:45  Lunch Break

Session 3
Chair: Ohad Medalia, UZH

14:00  Sriram Subramaniam,
  NIH, National Cancer Institute, Bethesda
  «Recent Advances in Cryo-EM: Applications to Drug Discovery»

14:45  Discussion

15:00  Yagmur Turgay, UZH
  «The Structure of Lamins in Somatic Cells»

15:15  Coffee Break

Session 4
Chair: Kaspar Locher, ETHZ

16:00  Judy Hirst,
  MRC Cambridge, UK
  «Cryo-EM Structure of Mammalian Respiratory Complex I, an Asymmetric 1 MDa Energy-Converting Enzyme»

16:45  Discussion

17:00  Daan Swarts, UZH
  «Structural Basis for Guide RNA Processing and Target DNA Binding by Cpf1»

17:15  Sébastien Campagne, ETHZ
  «Structural Studies of Alternative Splicing Regulation»

17:30  Roderick Lim, Bio Center Basle
  «Spatiotemporal Dynamics of the Nuclear Pore Complex Transport Barrier»

17:45  End of Day 1
Tuesday February 7, 2017

**Session 5**
Chair: Andreas Plückthun, UZH

9:00  Jesse Rinehart, Yale School of Medicine, West Haven  
«A General Synthetic Gateway to Study the Function of Protein Phosphorylation»

9:45 Discussion

10:00 Dorothee Kern, Brandeis University, Waltham  
«Evolution of Kinase Energy Landscapes over Several Billion Years»

10:45 Discussion

11:00 Coffee Break

**Session 6**
Chair: Andreas Plückthun, UZH

11:30 Todd Yeates, UCLA, Los Angeles  
«Giant Protein Assemblies in Nature and by Design»

12:15 Discussion

12:30 Yufan Wu, UZH  
«Adapting DARPin-Based Rigid Fusions for Crystallography»

12:45 Lunch Break

**Session 7**
Chair: Raimund Dutzler, UZH

14:00 Stephen Long, Sloane Kettering Cancer Center, New York  
«Structure and Function of BEST1: a Calcium Activated Chloride Channel»

14:45 Discussion

15:00 Cristina Manatschal, UZH  
«Structural and Mechanistic Basis of Proton-coupled Metal Ion Transport in the SLC11/NRAMP Family»

15:15 Xavier Deupi, PSI  
«Molecular Mechanisms of G Protein-coupled Receptor Activation»

15:30 Franziska Zosel, UZH  
«Dynamics and Interactions of Intrinsically Disordered Proteins Probed with Single-molecule Spectroscopy»

15:45 Nenad Ban, ETHZ  
«Concluding Remarks»

16:00 End of Meeting