



University of
Zurich^{UZH}

ETH zürich

Zurich Center for Structural Biology

13th Symposium **Trends in Structural Biology**

August 19 – 20, 2019

**Lecture Hall Y 15 G 20
University of Zurich
Winterthurerstrasse 190
8057 Zurich**

13th Symposium **Trends in Structural Biology**

Monday August 19, 2019

08:15 Registration in front of Y 15 G 20

08:45 **Michael Schaeppman**,
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 Caffisch, 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

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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**