

PROGRAMME

Friday June 16

16:30 – 18:00 Conference desk open

18:00 – 19:30 Dinner

20:00 – 21:00 **Session I: Opening and The Svedberg award**

Chair: Mats Hansson

20:00 – 20:15 Welcome and prize award

20:15 – 21:00 Presentation from the The Svedberg Awardee

21:00 – 21:40 PI meeting

Saturday June 17

07:00 – 08:45 Breakfast

09:00 – 12:00 **Session II: Recent advances in cryo-EM**

Chair: Stefan Knight

09:00 – 09:45 Eva Nogales (University of California Berkley):

Microtubule structure, dynamics, and regulatory interactions visualized by cryo-EM

09:50 – 10:10 Kenta Okamoto (Uppsala University):

Three-dimensional imaging of giant amoebal viruses

10:15 – 10:45 Coffee

10:45 – 11:30 Alexey Amunts (Stockholm University):

Protein synthesis in organelles at cryo-EM resolution

11:35 – 11:55 Hongyi Xu (Stockholm University):

Lysozyme structure solved from sub-micrometer needle shaped crystals by electron crystallography

12:00 – 13:30 Lunch

13:30 – 15:10 **Session III: Folding and dynamics**

Chair: Magnus Johansson

13:30 – 14:15 Patricia Clark (University of Notre Dame):

Cellular strategies to enhance protein folding

14:20 – 14:40 Björn M. Burmann (University of Gothenburg):

Chaperone-substrate complexes: Discerning their crucial role in the physiological function and toxicity of Parkinson's disease related α -Synuclein

14:45 – 15:05 Annika Söderholm (Uppsala University):

Functional and structural innovations in the real-time evolution of the $\beta\alpha$ -barrel enzyme HisA

15:10 – 15:40 Coffee

15:40 – 17:50 **Session IV: Nucleic acids and emerging methods**

Chair: Daniel Larsson

15:40 – 16:25 Janosch Hennig (EMBL Heidelberg):

Integrating NMR and small-angle scattering to investigate protein-RNA complexes

16:30 – 16:50 Ivan Volkov (Uppsala University):

Single-molecule tRNA tracking in live bacterial cells

16:55 – 17:15 Oskar Berntsson (University of Gothenburg):

Signal transduction in drosophila melanogaster cryptochrome

17:20 – 17:40 Hugo LeBrette (Stockholm University):

Structural study of a metalloprotein using a drop-on demand sample delivery at a X-ray free-electron laser

18:00 – 19:30 Dinner

20:00 – 21:30 **Poster Session I**

21:45 – 22:45 Quiz

Sunday June 18

07:00 – 08:45 Breakfast

09:00 – 12:00 **Session V: Protein complexes**

Chair: Maria Selmer

09:00 – 09:45 Cynthia Wolberger (John Hopkins University):

Structural basis for histone H2B deubiquitination by the SAGA DUB module.

09:50 – 10:10 Michael Jarva (La Trobe University):

The X-ray structure of a defensin reveals a unique oligomeric membrane disruption complex upon binding phosphatidic acid

10:15 – 10:45 Coffee

10:45 – 11:05 Isha Raj (Karolinska Institutet):

Structural basis of egg coat-sperm recognition at fertilization

11:10 – 11:30 Geoffrey Masuyer (Stockholm University):

The structure of the tetanus toxin reveals pH-mediated domain dynamics

11:35-11:55 Laura H. Gunn (Uppsala University):

The novel Methanococcoides burtonii rubisco assembly domain facilitates protein oligomerisation

12:00 – 13:30 Lunch

13:30 – 15:10 **Session VI: Structural biology & disease**

Chair: Terese Bergfors

13:30 – 14:15 Tom Blundell (University of Cambridge):

Structural biology and drug discovery: combating the emergence of resistance in cancer and mycobacterial infections

14:20 – 14:40 Anna Munke (Uppsala University):

Phage display and kinetic selection of antibodies that selectively

inhibit amyloid self-replication

14:45 – 15:05 Andreas Schmitt (Umeå University):
Structural and functional characterization of Gram+ T4SS adhesion components

15:10 – 15:40 Coffee

15:40 – 18:00 Annual football match and rowing on Lake Siljan

18:00 – 19:30 Dinner

20:00 – 21:30 Poster Session II

21:45 – 22:45 Sing along / Table tennis tournament

Monday 19th June

07:00 – 08:45 Breakfast

09:00 – 11:50 **Session VII: Membrane proteins**

Chair: Henrik Hansson

09:00 – 09:45 Changjiang Dong (University of East Anglia):
Structural insight into the Gram-negative bacterial outer membrane biogenesis and assembly

09:50 – 10:10 Rebecca J. Howard (Stockholm University):
Multi-site allosteric modulation by general anesthetics revealed by structural, functional, and computational studies in a model pentameric ligand-gated ion channel

10:15 – 10:45 Coffee

10:45 – 11:05 Florian Schmitz (University of Gothenburg):
Applying bimolecular fluorescence complementation to screen and purify aquaporin protein:protein complexes

11:10 – 11:30 Rachel North (University of Gothenburg):
Bacterial sialic acid transport

11:35 – 11:50 Closing of meeting and award of prizes for best presentation and poster

12:00 – 13:00 Lunch