

5TH CRYONET SYMPOSIUM 2022

HADERUP AUDITORIUM, PANUM INSTITUTE, 24-25 OCTOBER 2022

MONDAY 24 OCTOBER

8:30 – 9:00 REGISTRATION AND COFFEE

9:10 – WELCOME

Guillermo Montoya, University of Copenhagen, Novo Nordisk Foundation Centre for Protein Research

9:15 – KEYNOTE SPEAKER

Wolfgang Baumeister, Max Planck Institute of Biochemistry

Cryo-electron tomography - The Power of Seeing the Whole Picture

10:00 – INVITED SPEAKER

Dari Kimanius, MRC Laboratory of Molecular Biology

Cryo-EM reconstruction computational method development in RELION and beyond

10:30 – 11:00 - BREAK

11:00 – INVITED SPEAKER

Carlos Oscar Sorzano Sánchez, National Center for Biotechnology (CNB), Macromolecular Structure

Machine learning needs and trends for Single Particle Analysis

11:30 – INVITED SPEAKER

Arjen Jakobi, Delft University of Technology, Kavli Institute of Nanoscience

TBA

12:00 – SPEAKER SELECTED FROM ABSTRACT

Ipsita Banerjee, Lund University, Department of Biochemistry and Structural biology

Novel mechanism of dATP-induced allosteric inhibition of a ribonucleotide reductase through an unusual ATP-cone on the small subunit

12:15 – SPEAKER SELECTED FROM ABSTRACT

Olivia Andén, Stockholm University, Science for Life Laboratory

Structural characterization of pH- and calcium-modulated closed and open states in a pentameric ligand-gated ion channel

12:30 – 13:30 – LUNCH

13:30 – INVITED SPEAKER

Christopher Aylett, Imperial College London, Department of Infectious Disease

Structural characterization of pH- and calcium-modulated closed and open states in a pentameric ligand-gated ion channel

14:00 – INVITED SPEAKER

Björn Wallner, Linköping University, Department of Physics Chemistry and Biology

Improved AlphaFold Conformational Sampling Applied to CryoEM Data

14:30 – SPEAKER SELECTED FROM ABSTRACT

Francisco Tenjo-Castaño, University of Copenhagen, Novo Nordisk Foundation Centre for Protein Research

Structure of the TnsB transposase-DNA complex of type V-K CRISPR-associated transposon

14:45 – SPEAKER SELECTED FROM ABSTRACT

LineMarie Christiansen, Aarhus University, Molecular Biology & Genetics

Structural and functional clues on a P4B-ATPase

15:00 – 15:30 – BREAK

15:30 – 16:45 - SPECIAL FOCUS LECTURE

Juri Rappsilber, University of Edinburg, Technische Universität Berlin

Integrative modelling with in-cell crosslinking mass spectrometry and AlphaFold

17:00 – 18.45 POSTER SESSION

19:00 – DINNER AT NØRREBRO BRYGHUS

Venue: Nørrebro Bryghus, Rymsgade 3, 2200 København (10 minutes walk from Panum)

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TUESDAY 25 OCTOBER

9:15 – INVITED SPEAKER

Thomas Marlovits, University Medical Center Hamburg-Eppendorf, Centre for Structural Systems Biology

Dynamics in Bacterial Molecular Machines

9:45 – INVITED SPEAKER

Ignacio Mir-Sanchis, Umeå University, Department of Medical Biochemistry and Biophysics

Replicating virus satellites in Staphylococcus aureus

10:15 – SPEAKER SELECTED FROM ABSTRACT

Matthias Vorländer, Research Institute of Molecular Pathology (IMP) Vienna

Structural basis of nuclear mRNP selection by the Transcription-Export complex

10:30 – 11:00 – BREAK

11:00 – INVITED SPEAKER

Maia Azubel, Stanford University, Department of Structural Biology

Gold Nanoparticles and CryoET: Towards High Resolution Structural Determination In Vivo

11:30 – INVITED SPEAKER

Ariane Briegel, Leiden University, Institute of Biology Leiden

Cryo-Electron Tomography contributes to our understanding of bacterial interactions with their environment

12:00 – SPEAKER SELECTED FROM ABSTRACT

Mar Pérez Ruiz, University of Copenhagen, Novo Nordisk Foundation Centre for Protein Research

Elucidating the structure and function of the AAA+ Afp15 protein in Serratia entomophila

12:15 – SPEAKER SELECTED FROM ABSTRACT

Irina Iakovleva, Umeå University, Department of Chemistry

Cryo-EM structure of transthyretin amyloid fibrils derived from the eye

12:30 – 13:30 – LUNCH

13:30 – INVITED SPEAKER

Irina Gutsche, Institut de Biologie Structurale Grenoble

Cryo-EM of two microbial systems: does form follow function?

14:00 – INVITED SPEAKER

Gaurav Sharma, ThermoFisher

Recent developments in CryoEM

14:30 – SPEAKER SELECTED FROM ABSTRACT

Oleg Sitsel, Max Planck Institute of Molecular Physiology, Department of Structural Biology

TBA

14:45 – 15:15 – BREAK

15:15 – INVITED SPEAKER

Juergen Plitzko, Max Planck Institute of Biochemistry, Department of Molecular Structural Biology

TBA

15:45 – INVITED SPEAKER

Harald Hess, Howard Hughes Medical Institute

Large Volume Imaging with Electrons and Cryo- Superresolution Microscopy

16:15 – CLOSING REMARKS

Guillermo Montoya

The 5th CryoNET Symposium is supported by ThermoFisher Scientific

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S C I E N T I F I C