



**Protein Signaling**  
– in space and time

## Monday 27 November 2023

17:30 - 19:00 Dinner at Favrholm

19:00 - 19:15 **Official Opening by Novo Nordisk Foundation**  
Welcome by **Thomas Bentin**, Senior Scientific Manager, Novo Nordisk Foundation

### 19:15 - 20:15 SESSION 1: Opening session with keynote lecture

**Welcome by committee chair: Michael Lund Nielsen**

**INVITED SPEAKER: Drew Berry**, The Walter and Eliza Hall Institute of Medical Research (WEIH), Australia  
*Generative, dynamic models of organelles, chromatin and cytokine signaling*

**CHAIR: Lars Juhl Jensen**

20:15 - 22:30 Drinks & Networking

## Tuesday 28 November 2023

### 09:00 - 10:30 SESSION 2: Spatial omics technology

**INVITED SPEAKER: Rong Fan**, Yale University, United States  
*Spatial multi-omics sequencing to map tissue development, aging and diseases*

**SHORT TALK: Marco Hein**, Max Perutz Labs, Medical University of Vienna, Austria  
*Systematic immuno-capture of native organelles defines a spatial map of the human proteome*

**INVITED SPEAKER: Kathryn S Lilley**, University of Cambridge, United Kingdom  
*System-wide analysis of RNA and protein subcellular localisation dynamics*

**CHAIR: Jesper V Olsen**

10:30 - 11:00 Coffee break

### 11:00 - 12:45 SESSION 3: Protein structure

**INVITED SPEAKER: Jan Löwe**, MRC Laboratory of Molecular Biology, Cambridge (MRC-LMB), United Kingdom  
*Towards molecular understanding of FtsZ-based bacterial cell division*

**SHORT TALK: Eva Kummer**, Novo Nordisk Center for Protein Research, University of Copenhagen, Denmark  
*RNA maturation in the mitochondrial ribosome by GTPBP10*

**INVITED SPEAKER: Elizabeth R Wright**, University of Wisconsin – Madison, United States  
*Developments in correlative cryo-EM technologies to support in situ structural biology*

**SHORT TALK: Andreas Boland**, University of Geneva, Switzerland  
*The structure of an extracellular nanobody bound to the  $\mu$ OR guides the development of novel therapeutics*

**CHAIR: Nicholas Taylor**

12:45 - 13:45 Lunch

### 13:45 - 15:00 SESSION 4: Post-translational modifications

**INVITED SPEAKER: Pedro Beltrao**, ETH Zurich Institute of Molecular Systems Biology, Switzerland  
*Predicting mechanisms of regulation for protein phosphorylation*

**SHORT TALK: Gabriela Prus**, Novo Nordisk Center for Protein Research, University of Copenhagen, Denmark  
*A systems-scale, integrated view of the ubiquitylation site occupancy and dynamics*

**INVITED SPEAKER: Ivan Ahel**, University of Oxford, United Kingdom  
*ADP-ribosylation signalling in genome stability and beyond*

**CHAIR: Michael Lund Nielsen**

15:00 - 16:30 POSTER SESSION

**16:30 - 18:00** SESSION 5: Genome architecture

**INVITED SPEAKER: Giacomo Cavalli**, Chromatin and Cell Biology lab, Institute of Human Genetics – CNRS and University of Montpellier, France  
*Polycomb-mediated genome organization in development and cancer*

**SHORT TALK: Fena Ochs**, Biotech Research & Innovation Centre (BRIC), Denmark  
*Sister chromatid cohesion is mediated by individual cohesin complexes*

**INVITED SPEAKER: Daniel Gerlich**, Institute of Molecular Biotechnology, Austria  
*Chromosome dynamics during the cell cycle*

**CHAIR: Nils Krietenstein**

**18:00 - 20:00** Dinner

**20:00 - 22:00** PI Pub / Editors' Corner

## Wednesday 29 November 2023

**09:00 - 10:30** SESSION 6: Genome maintenance

**INVITED SPEAKER: Eva R Hoffmann**, University of Copenhagen, Denmark  
*Sex-biased origins of chromosomal rearrangements in humans*

**SHORT TALK: Sidrit Uruci**, Leiden University Medical Center, The Netherlands  
*Ciliary protein CFAP20 has a nuclear function in suppressing transcription-associated R-loops at promoter-proximal regions*

**SHORT TALK: Aga Gambus**, University of Birmingham, United Kingdom  
*Regulation of DONSON function during DNA replication initiation*

**SHORT TALK: Andrew Blackford**, University of Oxford, United Kingdom  
*BRCA1-BARD1 and BLM coordinate complementary mechanisms of joint DNA molecule resolution*

**CHAIR: Niels Mailand**

**10:30 - 11:00** Coffee break

**11:00 - 12:15** SESSION 7: Special guest keynote

**INVITED SPEAKER: Morten Meldal**, Department of Chemistry, University of Copenhagen, Denmark  
*Molecular click adventures. A leap from the shoulders of giants*

**CHAIR: Anja Groth**

**12:15 - 12:30** Group Photo

**12:30 - 13:30** Lunch

**13:30 - 15:00** POSTER SESSION

**15:00 - 16:30** SESSION 8: Protein design

**INVITED SPEAKER: Tom Muir**, Princeton University, United States  
*Harnessing inteins in synthetic biology: From triggers to logic gates*

**SHORT TALK: Julian Naderi**, Max Planck Institute for Molecular Genetics, Germany  
*Enhancement of cellular reprogramming with transcription factors optimized for phase separation*

**INVITED SPEAKER: Donald Hilvert**, Federal Institute of Technology Zurich, Switzerland  
*Design can pave the way to fully programmable enzyme catalysts*

**CHAIR: Guillermo Montoya**

**16:30 - 17:30** Transport to social outing

**17:30 - 21:30** Entertainment & Dinner

**21:30 - 22:30** Transport to Favrholm

## Thursday 30 November 2023

### 09:00 - 10:30 SESSION 9: Post-translational modifications

**INVITED SPEAKER: Mikhail Savitsky**, European Molecular Biology Laboratory (EMBL), Germany  
*Biophysical proteomics*

**SHORT TALK: Hui Si Kwok**, Harvard University, United States  
*H3K36 Histone Lysine Methyltransferases play distinct roles in EZH2-mutant B-cell lymphoma*

**INVITED SPEAKER: Michiel Vermeulen**, Radboud University, The Netherlands  
*Deciphering lineage specification during early embryogenesis using multi-layered proteomics*

**SHORT TALK: Julio Liu**, University of Copenhagen, Denmark  
*Concerted SUMO-targeted ubiquitin ligase activities of TOPORS and RNFA are essential for stress management and cell proliferation*

**CHAIR: Chuna Choudhary**

10:30 - 11:00 Coffee break

### 11:00 - 12:00 ROUND TABLE DISCUSSIONS

**Transition between Academia and Industry** with **Martin Miller** and **Mikhail Savitsky**

**Bridging Basic and Translational Research** with **Donald Hilvert** and **Guillermo Montoya**

**Transition to Independence: Junior PI's experience** with **Chiara Francavilla** and **Andrew Blackford**

**AI in Research: ChatGPT and beyond** with **Lars Juhl Jensen**, **Søren Brunak**, and **Pedro Beltrao**

**How to write a good paper** with **Dimitrios Typas**, **Giacomo Cavalli**, and **Jan Löwe**

12:00 - 13:00 Lunch

### 13:00 - 14:30 SESSION 10: Proteomics

**INVITED SPEAKER: Francesca Ciccarelli**, King's College London, United Kingdom  
*Protein quantification to study the tumour microenvironment*

**SHORT TALK: Thomas Naake**, European Molecular Biology Laboratory, Germany  
*MsQuality - an interoperable open-source package for the calculation of standardized quality metrics of mass spectrometry data*

**INVITED SPEAKER: Jesper V Olsen**, Novo Nordisk Foundation Center for Protein Research (CPR), Denmark  
*Single cell proteomics with narrow-window DIA provides high proteome coverage*

**CHAIR: Simon Rasmussen**

14:30 - 15:00 Coffee break

### 15:00 - 16:30 SESSION 11: Protein structure & applications

**INVITED SPEAKER: Guillermo Montoya**, Novo Nordisk Foundation Center for Protein Research (CPR), Denmark  
*Understanding CRISPR-Cas dynamics and its allosteric mechanisms by cryo-EM*

**SHORT TALK: Anna Jungblut**, European Molecular Biology Laboratory, Germany  
*Hexasome-INO80 complex reveals structural basis of non-canonical nucleosome remodeling*

**INVITED SPEAKER: Nicolas H Thomä**, Friedrich Miescher Institute for Biomedical Research, Switzerland  
*Design principles for cyclin K molecular glue degraders*

**CHAIR: Eva Kummer**

16:30 - 16:45 Closing remarks by **Michael Lund Nielsen**, Chair of the Scientific Committee

16:45 - 19:00 Transportation Favrholt → Hotel Hillerød → Favrholt

19:00 - 19:30 Welcome drinks at Favrholt

19:30 - 02:00 Dinner & party

## Friday 1 December 2023

09:00 Check-out from hotels

09:00 Bus departure from Hotel Hillerød → Favrholt Campus → City centre → Copenhagen airport