New Horizons in Protein Dynamics

SATURDAY 23RD AUGUST 2025

COPENHAGEN BIOCENTER, LUNDBECK AUDITORIUM, OLE MAALØES VEJ 5

8:30 – 9:00	Arrival and coffee
SESSION 1	**Chair: Emil Thomasen**
9:00 – 9:10	Welcome w. **Birthe Kragelund** and historical intro **Jeff Hoch, UCON, US**
9:10 – 9:40	**Ad Bax,** NIDDK, NIH, USA **Insights into the structures of metastable protein folding intermediates and Aβ oligomers from pressure-jump NMR**
9:40 – 9:55	**Wouter Boomsma**, Department of Computer Science, UCPH, DK **Protein variant effect prediction with uncertainties**
9:55 – 10:25	**Frauke Gräter-** HITS/Max Planck Institute for Polymer Res, Germany **Learning how proteins move and act**
10:25 – 11:00	Coffee break
SESSION 2	**Chair: Andreas Prestel**
11:00 – 11:30	**Sarah Shammas**, Oxford University, UK **Roles for intrinsically disordered regions in target search**
11:30 – 11:45	**Elena Papaleo**, Danish Cancer Institute/ DTU, Copenhagen, Denmark **A structure-based framework to investigate variant effects in cancer and other diseases**
11:45 – 12:00	**Magnus Kjaergaard**, Aarhus University, Denmark **Intrinsic disorder in the age of protein design**
12:00 – 13:00	Lunch and networking
SESSION 3	**Chair: Ketty Tamburrini**
13:00 – 13:30	**Mikael Akke**, Lund University, Sweden **Resolving Protein–Ligand Binding Pathways by NMR relaxation: Conformational Selection vs Induced Fit**
13:30 – 13:45	**Mathilde H. Lerche**, DTU, Denmark **Assessing Enzymatic Activity in Brain Metabolism Using Hyperpolarized 13C MRI**
13:45 – 14:00	**Petur O. Heidarsson**, Department of Biology, UCPH, Denmark **Integrating Single-Molecule FRET and NMR to study protein conformational dynamics**
14:00 – 14:15	**Kasper D. Rand**, Department of Pharmacy, UCPH, Denmark **Studying the conformation and dynamics of proteins in solution – by mass spectrometry!**
14:15 – 14:45	Coffee break
SESSION 4	**Chair: Upasana Mallimadugula**
14:45 – 15:00	**Yong Wang**, Zhejiang University, China **Enhance Explorations of Protein Dynamics with Machine Learning**
15:00 – 15:15	**Kristine S. Jensen**, Lund University, Sweden **Posttranslational modifications as trigger for conformational switching in amyloid formation**
15:15 – 15:45	**Harald Schwalbe**, Goethe-University Frankfurt, Germany **Time-resolved NMR to study biomolecular folding**
15:45 – 16:00	Outro and the future
16:00 – 17:30	Drinks and networking

CARLSBERG FOUNDATION