New Horizons in Protein Dynamics

A full-day anniversary symposium celebrating 25 years of biomolecular NMR at the Department of Biology, UCPH — Saturday 23rd August 2025

8:30 – 9:00	Arrival and coffee
9:00 – 9:10 9:10 – 9:40	Welcome and historical intro 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
11:00 – 11:30	Sarah Shammas, Oxford University, UK Boles 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
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 Health, Denmark Assessing Enzymatic Activity in Brain Metabolism Using Hyperpolarized 13C MRI
13:45 – 14:00	Petur O. Heidarsson, Department of Biology, Copenhagen Integrating Single-Molecule FRET and NMR to study protein conformational dynamics
14:00 – 14:15	Kasper D. Rand, Department of Pharmacy, UCPH, Denmark TBA
14:15 – 14:45	Coffee break
15:15 – 15:30	Kristine S. Jensen, Lund University, Sweden, Posttranslational modifications as trigger for conformational switching in amyloid formation
15:30 – 16:00	Harald Schwalbe, Goethe-University Frankfurt, Germany Time-resolved NMR to study biomolecular folding
16:00 – 16:15	Outro and the future

Drinks and networking, celebratory lecture by Jeff Hoch, UCONN, US