

PROTEIN ENGINEERING AND DESIGN: FROM DEVELOPMENT TO IMPACT

Friday November 15, 2024

Hotel Radisson Blu Scandinavia, Copenhagen

Amager boulevard 70, 2300 Copenhagen

PROGRAM

08:30 – 09:00 **Breakfast snack**

09:00 – 09:05 Jakob Winther (Linderstrøm-Lang Centre)

Welcome

SESSION 1 **Chair: Kresten Lindorff-Larsen (Linderstrøm-Lang Centre)**

09:05 – 09:40 **Birte Höcker** (Universität Bayreuth, Germany)

Protein Design 2.0

09:40 – 9:55 **Nancy Forde** (Simon Fraser University, USA)

Repurposing non-motor proteins to make novel molecular motors

09:55 – 10:10 **Sören von Bülow** (Linderstrøm-Lang Centre)

Prediction of phase separation propensities of disordered proteins from sequence

10:10 – 10:40 **COFFEE BREAK + POSTER SET-UP**

SESSION 2 **Chair: Jakob Winther (Linderstrøm-Lang Centre)**

10:40 – 11:15 **Andrea Thorn** (Universität Hamburg, Germany)

Perspectives on the future of structural biology: Challenges and opportunities

11:15 – 11:30 **Fabian Hecker** (Technical University Denmark)

Hyperpolarized water via UV-generated radicals to study the hydration of proteins

11:30 – 11:45 **Bram Mylemans** (University of Bristol)

De novo design of minimal proteins for targeted protein degradation



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| 11:45 – 12:30 | LUNCH |
| 12:30 – 13:15 | POSTER SESSION |
| SESSION 3 | Chair: Birthe B. Kragelund (Linderstrøm-Lang Centre) |
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| 13:15 – 13:50 | Daniel Otzen (Århus University, Denmark) <i>The Hunt for Cushion Crusher: finding and developing enzymes to recycle plastic</i> |
| 13:50 – 14:25 | Sarel Fleishmann (Weizmann Institute of Science, Israel) <i>Computational protein design for health and sustainability research</i> |
| 14:25 – 15:40 | POSTER VIEWING AND COFFEE |
| SESSION 4 | Chair: Kaare Teilum (Linderstrøm-Lang Centre) |
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| 15:40 – 16:15 | Anastassia Vorobieva (Vrije Universiteit Brussel, Belgium) <i>De novo design of transmembrane beta-barrels with defined shapes and functions</i> |
| 16:15 – 16:50 | Dek Woolfson (University of Bristol, UK) <i>Combining rational and computational approaches to protein design</i> |
| 16.50 – 17:00 | Jakob Winther (Linderstrøm-Lang Centre) <i>Closing remarks</i> |
| 17:00 – 18:00 | Social event - Beer, Snacks & Posters |
| 18.00 – 21.00 | Symposium dinner in hotel restaurant |