



Protein.DTU – Linderstrøm-Lang Center
Joint Workshop

Current topics in protein chemistry

December 5, 2016

DTU Kemitorvet, Building 208, Lecture Hall 54

08:30 – 09:00 **Arrival & Breakfast**

09:00 – 09:10 **Welcome**

Jakob R. Winther, Professor, Linderstrøm-Lang Centre for Protein Science,
University of Copenhagen (UCPH)
Birte Svensson, Professor, DTU Bioengineering

Session 1. Chairs: Rasmus Hartman Pedersen, Professor, Linderstrøm-Lang
Centre for Protein Science, UCPH; Kristoffer Almdal, Professor, DTU Nanotech

09:10 – 09:40 *Function and evolution of protein phosphorylation*

Pedro Beltrao, Professor, European Bioinformatics Institute (EMBL-EBI),
Cambridge, U.K.

09:40 – 10:10 *A tertiary alphabet for the observable protein structural universe*

Gevorg Grigoryan, Assistant Professor of Computer Science, Dartmouth College
U.S.A.

10:10 – 10:40 **Coffee Break**

Session 2 Chairs: Kresten Lindorff-Larsen, Professor, Linderstrøm-Lang Centre
for Protein Science, University of Copenhagen; Flemming Jessen, Senior
Scientist, DTU Food

10:40 – 11:10 *Next-generation positional proteomics - charting proteolysis with digital
terminome maps*

Ulrich auf dem Keller, Group Leader, Institute of Molecular Health Sciences,
ETH, Zürich, Switzerland

11:10 – 11:40 *Protein engineering for the creation of bioactive silk materials*

My Hedhammer, Associate Professor, Div. of Protein Technology, KTH,
Stockholm, Sweden



11:40 – 12:20 **Lunch and poster viewing**

12:20 – 12:50 **Poster Session, coffee/tea, soft drinks & cake**

Chairs: Lars Ellgaard (UCPH), Jenny Emnéus (DTU), Karen Skriver (KU), Günther Peters (DTU)

Session 3. Chairs: Birthe B. Kragelund, Professor, Linderstrøm-Lang Centre for Protein Science, University of Copenhagen; Pernille Harris, Associate Professor, DTU Chemistry

12:50 – 13:20 *Understanding light detection in bacteria and plants - the structural photoactivation of phytochrome photosensors*

Sebastian Westenhoff, Professor, Dept. of Chemistry and Molecular Biology, University of Gothenburg, Sweden

13:20 – 13:50 *Assembly of adhesive type I pili of uropathogenic Escherichia coli strains and mechanism of force-dependent adhesion*

Rudi Glockshuber, Professor, Institute of Molecular Biology and Biophysics, ETH, Zürich, Switzerland

13:50 – 14:10 **Short Break, coffee/tea, soft drinks**

14:10 – 14:40 *Bacteriophage cell adhesion proteins as model systems to study fundamentals of protein-carbohydrate interactions*

Stefanie Barbirz, Group Leader, Physical Biochemistry, Potsdam University, Germany

Session 4. Chairs: Martin Willemoës, Associate Professor, Linderstrøm-Lang Centre for Protein Science, UCPH; Maher Abou Hachem, Associate Professor, DTU Bioengineering

14:40 – 15:10 *Molecular glues for protein assembly*

Peter B. Crowley, Senior lecturer, School of Chemistry, National University of Ireland, Galway

15:10 – 15:40 *Modelling human brain development in vitro with morphogenic microfluidic gradients*

Agnete Kirkeby, PhD, Dept. Human Neural Development, Wallenberg Neuroscience Center, Lund University, Sweden

15:40 – 16:10 *The sweet and sour attraction of microbes to mucin: a biochemical and structural perspective*

Nathalie Juge, Research Leader, Gut Health and Food Safety Program, Institute of Food Research, Norwich, U.K.

16:10 – 17:10 **End of day -“time for a beer” & posters**