



# Protein.DTU – Linderstrøm-Lang Centre 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**  
Birte Svensson, Professor, DTU Bioengineering and Jakob R. Winther, Professor, Linderstrøm-Lang Centre for Protein Science, University of Copenhagen (UCPH)
- 09:10 – 10:20     **Session 1** Chairs: Kresten Lindorff-Larsen, Professor, Linderstrøm-Lang Centre for Protein Science, UCPH; Flemming Jessen, Senior Scientist, DTU Food
- 09:10 – 09:45     *Function and evolution of protein phosphorylation*  
**Pedro Beltrao**, Professor, European Bioinformatics Institute (EMBL-EBI), Cambridge, U.K.
- 09:45 – 10:20     *A Tertiary Alphabet for the Observable Protein Structural Universe*  
**Gevorg Grigoryan**, Assistant Professor of Computer Science, Dartmouth College U.S.A.
- 10:20 – 10:50     **Coffee Break**
- 10:50 – 12:00     **Session 2.** Chairs: Rasmus Hartman Pedersen, Associate Professor, Linderstrøm-Lang Centre for Protein Science, UCPH; Kristoffer Almdal, Professor, DTU Nanotech
- 10:50 – 11:25     *Next-generation positional proteomics - charting proteolysis with digital terminome maps*  
**Ulrich auf dem Keller**, Group Leader, Institute of Molecular Health Sciences, ETH, Zürich, Switzerland



- 11:25 – 12:00 *Protein engineering for the creation of bioactive silk materials*  
**My Hedhammer**, Associate Professor, Div. of Protein Technology, KTH, Stockholm, Sweden
- 12:05 – 12:45 **Lunch and poster viewing**
- 12:45 – 13:20 **Poster Session, coffee/tea, soft drinks & cake**  
Chairs: Lars Ellgaard (UCPH), Jenny Emnéus (DTU), Günther Peters (DTU)
- 13:15 – 15:00 **Session 3.** Chairs: Birthe B. Kragelund, Professor, Linderstrøm-Lang Centre for Protein Science, UCPH; Pernille Harris, Associate Professor, DTU Chemistry
- 13:15 – 13:50 *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
- 13:50 – 14:25 *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,
- 14:25 – 15:00 *Bacteriophage cell adhesion proteins as model systems to study fundamentals of protein-carbohydrate interactions*  
**Stefanie Barbirz**, Group Leader, Physical Biochemistry, Potsdam University, Germany
- 15:00 – 15:20 **Coffee Break**
- Session 4.** Chairs: Martin Willemoës, Associate Professor, Linderstrøm-Lang Centre for Protein Science, UCPH; Maher Abou Hachem, Associate Professor, DTU Bioengineering
- 15:20 – 15:55 *Modelling human brain development in vitro with morphogenic microfluidic gradients*  
**Agnete Kirkeby**, PhD, Dept. Human Neural Development, Wallenberg Neuroscience Center, Lund University, Sweden
- 15:55 – 16:30 *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.



16:30 – 17:30    **End of day -“time for a beer” & posters**