

Future Trends in Protein Science

13th Workshop in Protein.DTU

December 1, 2015
Building 101, Lecture Hall Glassalen

- 08:30 – 09:00 **Arrival & Breakfast**
- 09:00 – 09:10 **Welcome**
Anders Overgaard Bjarklev, President DTU
Chair: Birte Svensson, Professor, DTU Systems Biology
- 09:10 – 09:40 ***Proteins in a crowded world***
Annalisa Pastore, Professor, MRC, Mill Hill, London, England
Chair: Maher Abou Hachem, Associate Professor, DTU Systems Biology
- 09:40 – 10:10 ***Imaging molecular machines at the single-molecule scale***
Sebastian Deindl, Assistant Professor, Wallenberg Academy Fellow, Program for Computational and Systems Biology, Uppsala University, Sweden
Chair: Kristoffer Almdal, Professor, DTU Nanotech
- 10:10 – 10:40 ***Biological photovoltaics to harness solar energy***
Hasan Kamrul, PhD Student, Biochemistry and Structural Biology Department, Lund University, Sweden
Chair: Jenny Emnéus, Professor, DTU Nanotech
- 10:40 – 11:05 **Coffee Break**
- 11:05 – 11:35 ***Mining low abundance proteins in vegetable and animal foodstuff via combinatorial ligand libraries***
Pier Giorgio Righetti, Professor, Politecnico di Milano, Materials and Chemical Engineering "Giulio Natta", Milano, Italy
Chair: Flemming Jessen, Senior Scientist, DTU Food
- 11:35 – 12:15 ***The Importance of Polyvalent Protein Binding in Immunology***
Thomas Vorup-Jensen, Professor, Department of Biomedicine, Aarhus University
Chair: Peter M.H. Heegaard, Professor, DTU Vet
- 12:15 – 12:45 **Lunch and poster viewing**

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- 12:45 – 13:30 **Poster Session, coffee/tea, soft drinks & cake**
Chair: Kristoffer Almdal, Peter Heegaard, Jenny Emnéus
- 13:30 – 14:00 ***Exploring bacterial pathogenicity with proteomics***
Julia Chamot-Rooke, Directeur de Recherche, Head of Structural Mass Spectrometry and Proteomics Unit, Institut Pasteur, Paris, France
Chair: Per Hägglund (Associate Professor, DTU Systems Biology)
- 14:00 – 14:30 ***How does nature make glycosidic bonds***
Carme Rovira, ICREA Research Professor, Experimental Sciences & Mathematics, Universitat de Barcelona, Spain
Chair: Günther Peters, Associate Professor, DTU Chemistry
- 14:30 – 15:00 ***An enzyme producing rocket fuel: The inner workings of the hydrazine synthase multiprotein complex***
Andreas Dietl, PhD Student, Department of Biomolecular Mechanisms, Max Planck Institute for Medical Research, Heidelberg, Germany
Chair: Pernille Harris, Associate Professor, DTU Chemistry
- 15:00 – 15:20 **Coffee Break**
- 15:20 – 15:50 ***Why reinvent the wheel? Designing new antibodies and enzymes using natural backbone fragments***
Sarel Fleishman, Principal Investigator, Computational protein design and engineering, screening, Department of Biological Chemistry, Weizmann Institute of Science, Rehovot, Israel
Chair: Ole Lund, Professor, DTU Systems Biology
- 15:50 – 16:20 ***Co-translational protein folding inside and outside the ribosome exit tunnel***
Gunnar von Heijne, Professor, Center for Biomembrane Research, Department of Biochemistry and Biophysics, Stockholm University, Sweden
Chair: Birte Svensson, Professor, DTU Systems Biology
- 16:20 – 17:30 **End of day -“time for a beer” & posters**