



Danish Biotechnological Society (DBS) announces:

Annual DBS lecture and Annual DBS awards

Thursday, 30 November, 2006 15.00 – 17.00.

Ingeniørforeningen (IDA), Kalvebod brygge 31-33, 1780 København V

Program:

15.00 – 16.00

Annual DBS Lecture 2006

Matthias Uhlen, Royal Institute of Technology, School of Biotechnology, AlbaNova University Center, Stockholm, Sweden: A human protein atlas for normal and cancer tissues.

16.00 – 17.00

Annual DBS Awards 2006

Simon Bekker-Jensen, Centre for Genotoxic Stress Research, Danish Cancer Society, Copenhagen: Spatio-temporal properties of the mammalian DNA damage response.

Ulrik de Lichtenberg, Center for Biological Sequence Analysis, Technical University of Denmark, Lyngby: Systems Biology of the Mitotic Cell Cycle- with an evolutionary twist.

Abstract:

Mathias Uhlen, Department of Biotechnology, AlbaNova University Center, Royal Institute of Technology, Stockholm, Sweden: A human protein atlas for normal and cancer tissues.

Antibody-based proteomics provides a powerful approach for the functional study of the human proteome involving the systematic generation of protein-specific affinity reagents. We have used this strategy to construct a comprehensive, antibody-based protein atlas for expression and localization profiles in 48 normal human tissues and 20 different cancers (1). The Human Protein Atlas is publicly available (www.proteinatlas.org) and contains, in the first version, approximately 400,000 high-resolution images corresponding to more than 700 antibodies towards human proteins. Each image has been annotated by certified pathologists to provide a knowledge base for functional studies and to allow queries about protein profiles in normal and disease tissues (2). We have recently (3) used the antibody reagents for validation of potential biomarkers to Mantle Cell Lymphoma (MCL) as well as high-throughput biomarker analysis of thousands of serum samples using a reverse array format (4). Our results suggest it should be possible to extend this analysis to the majority of all human proteins thus providing a valuable tool for medical and biological research, in particular for biomarker analysis in various patient cohorts.

References:

1. Uhlen M, Ponten F. Antibody-based Proteomics for Human Tissue Profiling. *Mol Cell Proteomics* 2005;4:384-93. 2. Uhlen et al. A human protein atlas for normal and cancer tissues. *Mol Cell Proteomics* 2005;4:1920-32. 3. Ek S et al. From Gene Expression Analysis to Tissue Microarrays: A Rational Approach to Identify Therapeutic and Diagnostic Targets in Lymphoid Malignancies. *Mol Cell Proteomics* 2006;5:1072-81. 4. Janzi et al. Serum microarrays for large scale screening of protein levels. *Mol Cell Proteomics*. 2005;4:1942-7.

Registration: www.ida.dk or www.biokemi.org

Everybody is welcome. Admission is free.

Information: Steen Gammeltoft, Department of Clinical Biochemistry, Glostrup Hospital: gast@glostruphosp.kbhamt.dk