

Glycomics: Challenges and Technologies

28 November 2006– Imperial College, London

- 09:00 – 09:30** **Registration – tea/coffee and biscuits**
- 09:30 – 09:35 **Introduction: Meeting Chair: Prof Jerry Turnbull (Liverpool University)**
 09:35 – 09:50 **Open Forum: What is Glycomics ?**
 Chair: *Prof J Turnbull*
- 09:50 – 10:20 **Chemical Glycines - From Synthesis to Microarrays and Vaccines**
Dr. B. Castagner, Swiss Federal Institute of Technology (ETH) Zurich
- 10:20 – 10:40 **Designer Glycoarrays**
Prof Ten Feizi, MRC Glycosciences Laboratory, Imperial College London, UK
- 10:40 – 10:45 **Gold-based glycoarrays: a Generic Platform for High Throughput Interrogation of Carbohydrate-Protein Interactions**
Dr Zheng-liang Zhi, Biological Sciences, Liverpool University.
- 10:55 - 11:20** **Mid-morning break: tea/coffee**
- 11.20 –11:40 **Counting Glycans and Glycan-binding Receptors**
Prof Kurt Drickamer, Division of Molecular Biosciences, Imperial College London, UK
- 11:40 – 12:00 **Mass spectrometric strategies for glycomics and glyco-proteomics**
Dr Stuart Haslam, Division of Molecular Biosciences, Imperial College London, UK
- 12:00 – 12:20 **Enhancing our Understanding of Glyco-Structure using MSn**
Dr Rachel Martin, Shimadzu Biotech, UK
- 12:20 – 12:25 **Novel Approach for high-throughput glycoprotein profiling in serum using a boronic acid glycochip and SELDI-tof.**
J L Stanta, Inst. of Biotechnology, University of Cambridge
- 12:25 – 12:45 **Predicting and exploiting glycoside biosynthesis**
Prof Rob Field, Dept Biological Chemistry, John Innes Institute, Norwich, UK
- 13.00 – 14:00** **Lunch**
- 14:00 – 14:20 **Glycoinformatics and molecular modelling**
Prof. Serge.Perez, CERMEV, National Center for Scientific Research, Grenoble, France.
- 14:20 – 14:40 **The role of informatics in glycomics**
Dr. Willi von der Lieth, Germany
- 14:40 - 15:00 **A strategy for discovery and testing of potential glycosylated cancer biomarkers**
Prof. Pauline Rudd, NIBRT Dublin Oxford Glycobiology Laboratory, UC Dublin
- 15:15 – 15:45** **Afternoon Tea/Coffee**
- 15:45 – 16:05 **Measurement and control of biopharmaceutical glycosylation - the changing regulatory landscape**
Dr Daryl Fernandes, Ludger Ltd, UK
- 16:05 – 16:25 **Glycomonitoring using lectin arrays**
Dr Andrew Sutcliffe, Procognia, Maidenhead
- 16:25 – 16:30 **Validation of CE/LC/MS coupled methods for improved microheterogeneity discrimination of glycoproteins**
P J Vickers, LGC, Teddington, Middlesex
- 16:30 – 16:50 **Engineering glycosylation of recombinant proteins**
Prof. Ben Davis, Department of Chemistry, University of Oxford UK
- 17:00** **Chairman's summing up & Open Discussion**

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