

Glycobiology – Challenges & Solutions - Minutes

Participants: Dr Stuart Haslam (Host), Dr Claire Doherty, Ben Sykes, Dr Richard Easton, Dr Yan Liu, Dr Roberto Castangia, Dr Jason Hallett, Dr Daryl Fernandes, Mr Sherif Abouelhadid, Bo Kara, Dr Charalampos Panagos, Mr John Liddell, Prof Maggie Smith, Dr Nicholas Read, Miss Tessa Keenan, Prof Ten Feizi, Dr Sarah Allman, Dr Aristotelis Antonopoulos, Ms Laura Bouche, Mr Matthew Cameron, Mr Qiushi Chen, Mr Kealan Exley, Dr Paola Grassi, Dr Poh-Choo Pang, Paul Hitchen, Dr Robert Howlett, Mr Basharat Hussain, Mr Nan Jia, Dr Anna Kozaczuk, Dr Chris Lawson, Dr Seung Lee, Dr Gavin Miller, Dr Dan Mitchell, Dr Angelica Ozanne, Dr Emmanuel Rossy, Ms Nathalie Safraoui, Dr Julia Smith, Dr Gerd Wagner, Dr Rod Watson

Apologies: Prof Sabine Flitsch (MIB, Manchester), Prof Jerry Turnbull (University of Liverpool), Dr Norihito Kawasaki (IFR, Norwich), Dr John Gardiner (MIB, Manchester), Mr Mitul Patel (GSK)

Introduction - Dr Stuart Haslam welcomed everyone to the meeting and explained about the event and IBCarb. **Ben Sykes** introduced the idea of the Networks in Biotechnology and Bioenergy (NIBB), which have been funded by the BBSRC to encourage development of industrial biotechnology in the UK. **Dr Claire Doherty** explained more about IBCarb's focus on glyco-biotechnology and how the network will organise and support events to develop academic-industry partnerships as well as the availability of funding to support project proposals from network members.

Selected presentations - A series of selected presentations then followed starting with **Richard Easton** (Team Leader, Carbohydrate Analysis, SGS) on 'Analysis of glycans from glycoproteins – working with heterogeneity'. Next, **Yan Liu** (Microarray Project Leader, Imperial College London) presented 'Glycan microarrays – Powerful tools for bio-recognition studies of glycans'. Followed by **Roberto Castangia** (Global MALDI Applications Specialist, Shimadzu on '*N-Glycans and Carbohydrates Structural elucidations using MALDI Quadruple – Iontrap - TOF Mass Spectrometry*'). Finally, **Dr Jason Hallett** (Imperial College London) '*Impact of Novel Ionic Liquid Solvents on Cellulosic Biofuel Production*'.

After a networking lunch, a series of **flash presentations** followed from a number of delegates:

Sherif Abouelhadid (LSHTM), **Bo Kara** (Fujifilm Diosynth Biotechnologies), **Charalampos Panagos** (University of Edinburgh/Glycomar Ltd), **Dr Poh-Choo Pang** (Imperial College London) who introduced members of the Haslam research group in the audience, **John Liddell** (Fujifilm Diosynth Biotechnologies), **Prof Maggie Smith** and two members of her research group, **Dr Nicholas Read** and **Miss Tessa Keenan** (University of York) **Prof Ten Feizi** (Imperial College London).

Dr Stuart Haslam then led a discussion about the IBCarb network, again highlighting the funding opportunities and also received some feedback from delegates and suggestions for future activities on behalf of the community.

After the coffee break and networking session, the key note speaker **Dr Daryl L. Fernandes** (Chief Executive, Ludger Ltd) presented a talk on 'The challenges of demonstrating comparability of biopharmaceutical glycosylation' which was followed with a brief discussion.

Summary and Close - Dr Stuart Haslam concluded the meeting and thanked everyone for their participation. Delegates enjoyed a final networking opportunity over a drinks reception.