

Genomes to High Value Biorenewable Products

17-18 June 2019

The Bull Hotel, Peterborough, UK

Day 1

14:00 Welcome – Professor Ian Graham, HVB Director

Genomic technologies for discovery

Chair – Ian Graham – HVB Director

14:10 Marnix Medema - Wageningen University: *Computational genome mining for natural product discovery*

14:40 Andrew Truman - John Innes Centre: *Bacterial production of antibacterial and anticancer peptides*

15:10 Sam Brockington - University of Cambridge: *Using phylogenomics to understand the evolution of specialised metabolites in Caryophyllales*

15:40 Afternoon break

16:10 Steve Hanley - Rothamsted Research: *Using genomics and genetics to understand useful secondary metabolism in Salix*

16:40 Ancheng Huang - John Innes Centre: *Genome-enabled discovery of novel plant natural products*

17:10 Offered presentations

Benjamin Lichman - University of York: *Interplay between enzyme and genome evolution characterises the re-emergence of iridoid biosynthesis in catnip*

Gregory Bulmer - University of Manchester: *Mass spectrometry labelled celooligosaccharides for the sensitive detection of LPMO and cellulase activity*

Tom Prescott - Kew Gardens: *Why a yeast chemical genetic screen should be your first assay*

17:55 Evening break and room registration

19:30 Workshop dinner

Dinner for all delegates will be served in the Broadway Room. There is no formal seating plan but please be seated by 19:30.

Day 2

Using gene tools for high value biorenewables

Chair – Anne Osbourn – HVB Co-Director

- 09:00 Andrew Collis - GSK: *Synthetic Biochemistry: industrial biotechnology making small molecule pharmaceuticals*
- 09:30 Ian Graham - University of York: *Genomics based discovery for improvement of plant and microbial alkaloid and terpenoid production platforms*
- 10:00 Offered presentations:
- Darren Greetham - University of Huddersfield: *Using a synthetic approach for conversion of cheap substrates into high value sugars*
- Holly Allen - University of Manchester: *Exploiting tree pathogens to improve biofuel feedstocks*
- Muhammad Javed - Biotech Consultants Limited: *Lactic acid production using thermophilic bacteria*

10:45 Coffee break

- 11:15 Jeremy Bartosiak-Jentys - Croda Europe Ltd: *Novel medium-sized biomolecules, too little attention in the large chemicals industry?*
- 11:45 Tim Davies - Rubus Scientific: *Process Commercialisation: Got your bug? Now what?*
- 12:15 Ian Graham, Anne Osbourn and Joe Ross - HVB Network: *Discussions and wrap up; Proof of Concept funding call 1*

12:45 Lunch

- 13:30 Consortium building activities – informal session: any delegates wishing to meet to discuss research and to plan funding applications are welcome to use the meeting space. Network Manager, Caroline Calvert will be available to answer questions on our Flexible Fund Proof of Concept Project call.
- Delegates are requested to complete any informal discussions and leave the meeting room by 16:00.