

DAY 1 - MONDAY SEPTEMBER 7

09:45 Introduction and Opening

10:00 Adrian Higson (NNFCC): Industrial Biotechnology and Bioenergy in the UK

10:25 Colin Miles (BBSRC): BBSRC support for industrial biotechnology

10:50 Alistair Elfick (Edinburgh): Standards and characterisation in Synthetic Biology

11:15 Coffee Break

11:30 José Jimenez (Surrey): Design of genetic circuits for efficient economics of cellular resources in bacteria

11:55 Eriko Takano (Manchester): Harnessing Synthetic Biology for Fine and Speciality Chemical Production

12:20 Nigel Minton (Nottingham): Low-carbon fuel and chemical production through systems and synthetic biology approaches

12:45 Discussion

13:00 LUNCH

14:00 Hugo Gramajo (Rosario): Metabolic engineering for the production of multi-methyl branched esters in E. coli

14:25 Patrik Jones (Imperial College): Engineered metabolic pathways for the biosynthesis of renewable biofuels.

14:50 Gavin Thomas (York): Engineering transporters for Industrial Biotechnology and Bioenergy

15:15 Discussion

15:30 COFFEE BREAK

15:45 Steven Martin (BioSyntha): C1 Fermentation - Creating Virtuous Circles

16:10 Preben Krabben (Green Biologics): Redox metabolism in solventogenic Clostridia

16:30 Liz Jenkinson (Green Biologics): Overcoming commercialization obstacles through strain development

16:50 Discussion

19:00 DINNER

DAY 2 - TUESDAY SEPTEMBER 8

09:00 Ana Arabolaza (Rosario): Metabolic engineering for triacylglycerol biosynthesis in *Escherichia coli*.

09:25 David Leak (Bath): Microbial metabolic engineering for production of chemicals from renewables

09:40 Hector Alvarez (Patagonia): Engineering oleaginous rhodococci for the production of oil-derived products.

10:05 Ian Tebble (ReBio): Biopolymer products from lignocellulosic feedstocks

10:30 BREAK

10:45 Nigel Saunders (Brunel): NGS approaches for design of synthetic biology strategies

11:10 Saul Purton (UCL): The algal chloroplast as a synthetic biology platform

11:35 Andrew Spicer (Algenuity): Title TBC

12:00 Discussion

12:15 LUNCH

13:00 Orkun Soyer (Warwick): Synthetic microbial communities for biotechnology and bioenergy.

13:25 Susana Molyneux-Hodgson (Sheffield): Design of communities

13:50 Claudio Avignone Rossa (Surrey): Engineering microbial communities for bioelectricity and other bioproducts

14:15 Discussion

14:30 BREAK

15:00 Andrzej Kierzek (Surrey): SurreyFBA: Tools for mechanistic modelling in Synthetic Biology.

15:25 David Fell (Oxford Brookes): Modelling metabolism for synthetic biology

15:50 Rainer Breitling (Manchester): Computational Tools for the Synthetic Biology of Natural Products

16:15 Emma Laing (Surrey): Omics analysis for synthetic Biology

16:40 Break, General Discussion and End of Workshop