Introduction to Opportunities in Synthetic Biology Workshop
Draft Programme

Date: May 21-22 2013
Venue: Exchange Building, Jubilee Campus, University of Nottingham, UK

Day 1
09:30  Registration
10:00  Welcome and introduction

Session 1: What is synthetic biology, and what can it be used for?
10:15  Jim Haseloff (University of Cambridge)
      Engineering plant form
10:40  June Medford (Colorado State)
      Rewiring a plant and Digital-like Controls
11:05  Michael Ball
      BBSRC perspective
11:50  Belinda Clarke
      TBC

Session 2: From molecules to cells and circuits
12:15  Dek Woolfson (University of Bristol)
      Generating and applying toolkits of de novo peptide components for synthetic biology
12:40  Lunch
13:30  Cameron Alexander (University of Nottingham)
      Synthetic polymers – new containers and communication materials for synthetic biology
13:55  Lee Cronin (University of Glasgow)
      Bottom up meets top down: From inorganic biology to synthetic biology manipulations in 3D printed wet-ware
14:20  Martin Howard (JIC)
      Implementation of analogue arithmetic circuitry in plants
14:45  Anne Osbourn (JIC)
      Making new molecules
15:10  Rob Edwards (University of York; FERA)
      Plant Synthetic Biology: a New Platform for Industrial Biotechnology?

Session 3: Plant synthetic biology
15:35  Nick Smirnoff (University of Exeter)
      Synthetic metabolons
16:00  Afternoon tea
16:25  Giles Oldroyd (JIC)
      Redesigning the symbiotic signalling pathway for rhizobial
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recognition

16:50 Sebastian Schornack (Sainsbury Laboratory Cambridge)
Targeted variation of genomes using TAL effectors

17:15 Breakout groups: What can plants do for synthetic biology?

Day 2
08:45 Tea and coffee

Session 5: Synthetic biology tools
09:00 Susan Rosser (University of Glasgow)
Recombinases as tools for synthetic biology
09:25 George Lomonossoff (JIC)
eVLPs for plant synthetic biology
09:50 Tom Ellis (Imperial College London)
Assembling designer genomes
10:15 Sylvestre Marillonnet (Icon Genetics)
Developing tools for synthetic biology: Golden Gate Cloning and the MoClo System
10:40 Jim Ajioka (University of Cambridge)
A guide to Gibson assembly

11:05 Coffee break
11:30 Breakout sessions to discuss future community needs
13:00 Lunch
13:45 Feedback from breakout groups

14:10 Alistair Elfick (University of Edinburgh)
iGEM
14:30 Natalio Krasnogor (University of Nottingham)
TBC
14:50 Jim Haseloff (University of Cambridge)
PlantFab registry of DNA parts for plants
15:10 Richard Kitney (Imperial College London)
Foundational Resources from cSynBi
15:30 Guy-Bart Stan (Imperial College London)
Taking a forward-engineering approach to the design of synthetic biology systems?
16:10 Claire Marris (Kings College London)
Responsible Research and Innovation for Synthetic Biology
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