

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		
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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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16:50	recognition 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: Syn	thetic 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)
10.15	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)
20110	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
16:10	biology systems? Claire Marris (Kings College London)
10.10	Responsible Research and Innovation for Synthetic Biology
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