TENTATIVE PROGRAMME

Day 1: 25 July (Thu)

Time	Activity/Event	Venue
0830	Registration	Foyer
0900	Welcome and Introduction	Bioinformatics lab/ Seminar hall
0910	Synthetic biotechnology talk session I	Bioinformatics lab/
	1. Introduction to synthetic biology and metabolic engineering	Seminar hall
	2. Use of CRISPR technology for metabolic pathway engineering	
	3. CRISPR-dCas mediated gene activation and RNA knockdown for pathway engineering in model and industrial microbes (<i>Escherichia coli</i> , PHA-producing strains etc.)	
1030	Coffee break	Foyer
1100	Hands-on session 1: Plasmid design for recombinant protein (dCas13a) expression	Bioinformatics lab/ Seminar hall
1230	Lunch	Foyer
1400	Demonstration session 1: One-step plasmid assembly for microbial RNA knockdown	Genomics Lab
	- RNA knockdown in engineered <i>E. coli</i>	
1700	End of session/Tea break	Foyer
1730	End of Day 1	

Day 2: 26 July (Fri)

Time	Activity/Event	Venue
0830	Introduction	Foyer
	- View results of RNA knockdown in engineered E. coli	
0900	Synthetic biotechnology talk session	Bioinformatics lab/
	1. Microbial production of PHA and bio-monomers using industrial strains	Seminar hall
1000	Hands-on session 2: In silico analysis of dCas13a guide RNA	Bioinformatics lab/ Seminar hall
1030	Coffee break	Foyer
1045	Hands-on session 3: Pick and design your own guide RNA for precise RNA knockdown	Bioinformatics lab/ Seminar hall
1215	Lunch	Foyer
1430	Demonstration session 2: Bioassay for PHA biopolymer analysis	Genomics Lab
1700	Summary, discussions and wrap-up	Foyer
1715	Closing speech and certificate presentation by INBIOSIS Director	
1730	End of session/Tea break	Foyer