Technical Program

10th May 2018

8:30AM - 9:15AM	Registration
9.15AM – 9:30AM	Opening Address
	Dr Peter Nagler, Executive Director, Institute of Chemical and Engineering
	Sciences, A*STAR
Opening Keynote	
9:30AM - 10:15AM	Towards a process model for continuous biotechnological processes
	Andreas Bommarius
Session 1: Parts Desi	gn and Engineering
10:15AM – 10:45AM	Engineering new cascade biotransformations for bio-based fine chemical synthesis
	Zhi Li
10:45AM - 11:15AM	New Wine from Old Barrels: Repurposing Biology through Synthetic Biology
	Wen Shan Yew
11:15AM - 11:45AM	Green Fluorination Technology: Engineering of the Fluorinase and a Coupled
	Halogenase System
	Ee Lui Ang
11:45AM - 1:00PM	Lunch / Poster session
1:00PM - 2:00PM	Lightning talks
Session 2: Foundation	onal Tools I
2:00PM - 2:30PM	CRISPR Genome Editing
	Jin-Soo Kim
2:30PM - 3:00PM	Development and Evaluation of Novel CRISRP-Cas Genome Engineering Tools
	Meng How Tan
3:00PM - 3:30PM	Genome engineering by DNA base editing
	Keiji Nishida
3:30PM - 4:00PM	Tea Break / Poster session
Session 3: Foundation	onal Tools II
4:00PM - 4:30PM	Rapid Engineering of Yeast Cell Factories using Iterative Cycles of Design, Build, Test,
	and Learn on a Genome Scale
	Huimin Zhao
4:30PM - 5:00PM	Optogenetics for cell and cell-free Synthetic Biology
	Chueh Loo Poh
5:00PM - 5:30PM	From gene to activity – Exploring the potential of the Nestlé Culture Collection
	Jeroen Muller
5:30PM - 6:00PM	Bacterial cellular engineering by ribosome engineering
	Kentaro Miyazaki

11th May 2018

8:30AM - 9:00AM	Registration
Session 4: Therapeu	tics
9:00AM - 9:30AM	Programmable biological functionalities for autonomous cell therapeutics Matthew Chang
9:30AM - 10:00AM	Synthetic Xenobiology using genetic alphabet expansion Ichiro Hirao
10:00AM - 10:30AM	GSK's SynBio Efforts towards Sustainable Manufacturing Steven Tan
10.30AM - 11:45AM	Young Investigator Session
11:45AM-1:00PM	Lunch / Poster Session
Session 5: Cell Factor	ries
1:00PM - 1:30PM	Understanding, design and rebuild of industrial superbugs for amino acid production Jibin Sun
1:30PM - 2:00PM	Lactic acid production using glucose or methane Ji-Sook Hahn
2:00PM - 2:30PM	A Generic Strategy to Maintain Stable, Multi-Member Microbial Consortia Kang Zhou
2:30PM - 3:00PM	Total industrial biosynthesis of astaxanthin and other natural products Simon Zhang
3:00PM - 3:30PM	Design and engineering of gas fermenting organisms for commercial scale production of fuels and chemicals from low-cost C1 feedstocks Michael Koepke
3:30PM - 4:00PM	Tea Break / Poster session
Session 6: Natural Pi	roducts Discovery and Development
4:00PM - 4:30PM	Discovery of New Molecules Via CRISPR/Cas9-Mediated Activation of Cryptic Gene Clusters Fong Tian Wong
4:30PM - 5:00PM	Blending Synthetic Chemistry with Synthetic Biology to Access Novel Natural Products Rebecca Goss
Closing Keynote	
5:00PM - 5:45PM	Expanding the Metabolic Power of the Mined Natural Products Pathways Zixin Deng
5:45PM - 6:00PM	Closing ceremony