

Wednesday - 16 October 2019

8:15 - 8:45

Registration, Tea & Coffee & Trade Display

8:45 - 10:35

Session VIII: Biocatalysis & Biomolecular Engineering

Sponsor: AIBN (University of Queensland) | Chair: TBA

8:45 - 9:05	Charlotte Williams <i>CSIRO</i>	Cofactor Biocatalysis: Enzymatic fusion proteins with tethered cofactors as Molecular Machines
9:05 - 9:25	Kirill Alexandrov <i>Queensland Uni. of Technology</i>	Connecting biology and electronics with artificial protein switches
9:25 - 9:45	Colin Jackson <i>The Australian National University</i>	Improved protein engineering through better understanding of protein evolution
9:45 - 10:05	Emily Parker <i>Victoria University of Wellington</i>	Reconstructing pathways for indole diterpene production
10:05 - 10:20	Li Chen Cheah <i>The University of Queensland</i>	Artificial Cell Compartments for Yeast Metabolic Engineering
10:20 - 10:35	Yu Heng Lau <i>The University of Sydney</i>	Exploring pore mutagenesis for controlling substrate diffusion into encapsulin nanocompartments

10:35 - 11:05

Morning Tea & Trade Display

11:05 - 12:15

Session IX: iGEM & Australian SynBio Challenge

Sponsor: CSIRO | Chair: TBA

11:05 - 12:05	iGEM Teams	<ul style="list-style-type: none">* University of Canterbury* Victoria University of Wellington* Macquarie University* University of New South Wales* Melbourne University* Sydney University
12:05 - 12:15	Australian SynBio Challenge	Australian SynBio Challenge

12:15 - 13:15

Lunch, Networking & Trade Display

13:15 - 14:45

Session X: Commercialisation

Sponsor: Australian Academy of Science | Chair: Tony Hunter

13:15 - 13:45	Dan Widmaier <i>Bolt Threads</i>	From Lab to Runway - Bolt Threads' journey in biomaterials
13:45 - 14:45	Panel Discussion: Kick-Starting the Australian Bio-Economy with Synthetic Biology	Facilitator: <ul style="list-style-type: none">* Mr Tony Hunter, Futurist for Food Panel Members: <ul style="list-style-type: none">* Dr Kym Barker, Patheon* Dr Nandhitha Subramanian, Codexis* Dr James Brown, Bondi Bioworks* Prof. Kirill Alexandrov, Molecular Warehouse* Mr Matt Gardner, California Technology Council

14:45 - 15:15

Afternoon Tea & Trade Display

15:15 - 16:45

Session XI: Tools II

Sponsor: New England Biolabs | Chair: TBA

15:15 - 15:20	Dr Selva Ramasubramanian <i>New England Biolabs</i>	Sponsor
15:20 - 15:40	Keith Shearwin <i>The University of Adelaide</i>	The loop-o-meter: an in vivo assay for DNA looping
15:40 - 16:00	Paul Jashke <i>Macquarie University</i>	Remodelling the genetic code: defining new start codons in E. coli
16:00 - 16:15	Nick Coleman <i>The University of Sydney</i>	An open source superfolder green fluorescent protein: Free-Use GFP (fuGFP)
16:15 - 16:30	Fatwa Adikusuma <i>The University of Adelaide</i>	Unexpected genome editing outcomes from DNA cleavage induced by CRISPR-Cas9
16:30 - 16:35	Claudia Vickers	Closing remarks