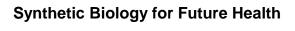
## Hybrid Conference Programme

Start	Finish	Presenter details
(GMT)	(GMT)	

Monday	Monday 13 March 2023		
12:00	13:00	Registration, lunch and networking	
12:45		Briefing for Keynote, Session 1 speakers, chair, moderator, all microphone runners & committee - Auditorium	
13:00	13:10	Welcome	
		Scientific Programme Committee:	
		<u>Yasunori Aizawa, Tokyo Institute of Technology, Japan</u>	
		Sonja Billerbeck, University of Groningen, Netherlands	
		Tom Ellis, Imperial College London, UK	
		Katie Galloway, Massachusetts Institute of Technology, USA	
13:10	14:10	Keynote 1	
		Chair: Tom Ellis, Imperial College London, UK	
		Moderator: Sonja Billerbeck, University of Groningen, Netherlands	
13:10	14:10	Engineering Next Congration T Calls for Congar Immunotherapy	
10.10	14.10	Engineering Next-Generation T Cells for Cancer Immunotherapy  Yvonne Chen, University of California, Los Angeles, USA	
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14:10	14:20	Comfort break	
14:20	15:50	Session 1: Cells Engineered as Therapies	
		Chair: Tom Ellis, Imperial College London, UK	
		Moderator: Jonas Koeppel, Wellcome Sanger Institute, UK	
14:20	14:50	Targeted engineering of human gut microbiome	
		Lei Dai, SIAT, Chinese Academy of Sciences, China	
44.50	45.00		
14:50	15:20	Synthetic biology in biomedicine: towards the design of improved T cell therapies	
		Velia Siciliano, Instituto Italiano de Tecnologia, Italy	
15:20	15:35	A rapid and efficient platform for targeted large gene insertions in human pluripotent stem cells	
		Albert Blanch Asensio, Leiden University Medical Center, Netherlands	
15:35	15:50	A pipeline for the evolution and delivery of therapeutic cargo by Salmonella	
10.00	10.00	Marc Biarnes Carrera, Prokarium Ltd, UK	
		maio Diamos Ganora, i Tokanam Eta, OK	
15:50	16:35	Refreshment break	





16:20		Briefing for Session 2 speakers, keynote 2, chair & moderator - Auditorium
16:35	18:05	Session 2: SocioTechnological readiness and entrepreneurship
		Chair: Sonja Billerbeck, University of Groningen, Netherlands Moderator: Alison Heggie, Imperial College London, UK
16:35	17:05	Synthetic Biology from Molecular to Social Scales  Megan Palmer, Stanford University, USA
17:05	17:35	Standardisation in Synthetic Biology: squaring the circle?  Manuel Porcar, Universidad de Valencia, Spain
17:35	17:50	Open source toolkits to enable synthetic biology for future health in the global South Jennifer Molloy, University of Cambridge, UK
17:50	18:05	Indirect human engineering as a societal concern for synthetic genomics  Erika Szymanski, Colorado State University, USA
18:05	18:15	Comfort break
18:15	19:15	Keynote 2
		Chair: Yasunori Aizawa, Tokyo Institute of Technology, Japan Moderator: Katie Galloway, Massachusetts Institute of Technology, USA
18:20	19:15	Reprogramming the Genetic Code Jason Chin, University of Cambridge , UK
19:15		Dinner
19:15	23:00	Bar open (card payments only)



Tuesday 14 March 2023		
09:15		Briefing for Session 3 speakers, chair & moderator - Auditorium
09:30	11:00	Session 3: Engineering Gene Regulation
		Chair: Katie Galloway, Massachusetts Institute of Technology, USA Moderator: Jacob Hepkema, Wellcome Sanger Institute, UK
09:30	10:00	Host-aware construct design in mammalian cells.  Francesca Ceroni, Imperial College London, UK
10:00	10:30	Teaching cells to perform new therapeutic functions  Mo Khalil, Boston University, USA VIRTUAL
10:30	10:45	Programming nuclear phase separation states and gene expression in human cells using precision targeting of synthetic intrinsically disordered regions  Isaac Hilton, Rice University, USA
10:45	11:00	Towards precision targeting of non-coding RNAs using oligonucleotide catalysts Maria Donde, University of Cambridge, UK
11:00	11:30	Refreshment break
11:15		Briefing for chair - Auditorium
11:30	12:15	Poster Pitches
11:30	12:15	Poster Pitches  Chair: Sonja Billerbeck, University of Groningen, Netherlands
<b>11:30</b> 12:15	<b>12:15</b> 14:15	
		Chair: Sonja Billerbeck, University of Groningen, Netherlands  Lunch with posters
12:15		Chair: Sonja Billerbeck, University of Groningen, Netherlands  Lunch with posters  Odd numbers 12:30 - 13:15 Even numbers 13:15-14:00
12:15 14:00	14:15	Chair: Sonja Billerbeck, University of Groningen, Netherlands  Lunch with posters Odd numbers 12:30 - 13:15 Even numbers 13:15-14:00  Briefing for Session 4 speakers, chair & moderator - Auditorium
12:15 14:00	14:15	Chair: Sonja Billerbeck, University of Groningen, Netherlands  Lunch with posters Odd numbers 12:30 - 13:15 Even numbers 13:15-14:00  Briefing for Session 4 speakers, chair & moderator - Auditorium  Session 4: Infectious Disease and Biosensing Chair: Yasunori Aizawa, Tokyo Institute of Technology, Japan
12:15 14:00 14:15	14:15 <b>15:45</b>	Chair: Sonja Billerbeck, University of Groningen, Netherlands  Lunch with posters Odd numbers 12:30 - 13:15 Even numbers 13:15-14:00  Briefing for Session 4 speakers, chair & moderator - Auditorium  Session 4: Infectious Disease and Biosensing Chair: Yasunori Aizawa, Tokyo Institute of Technology, Japan Moderator: Juliane Weller, Wellcome Sanger Institute, UK  Engineering sustainable resources for CRISPR-based diagnostics
12:15  14:00  14:15	14:15 15:45	Chair: Sonja Billerbeck, University of Groningen, Netherlands  Lunch with posters Odd numbers 12:30 - 13:15 Even numbers 13:15-14:00  Briefing for Session 4 speakers, chair & moderator - Auditorium  Session 4: Infectious Disease and Biosensing Chair: Yasunori Aizawa, Tokyo Institute of Technology, Japan Moderator: Juliane Weller, Wellcome Sanger Institute, UK  Engineering sustainable resources for CRISPR-based diagnostics Chayasith Uttamapinant, VISTEC, Thailand  Targeting fungal diseases using the secreted yeast toxicome
12:15  14:00  14:15  14:15  14:45	14:15 15:45 14:45 15:15	Chair: Sonja Billerbeck, University of Groningen, Netherlands  Lunch with posters Odd numbers 12:30 - 13:15 Even numbers 13:15-14:00  Briefing for Session 4 speakers, chair & moderator - Auditorium  Session 4: Infectious Disease and Biosensing Chair: Yasunori Aizawa, Tokyo Institute of Technology, Japan Moderator: Juliane Weller, Wellcome Sanger Institute, UK  Engineering sustainable resources for CRISPR-based diagnostics Chayasith Uttamapinant, VISTEC, Thailand  Targeting fungal diseases using the secreted yeast toxicome Sonja Billerbeck, University of Groningen, Netherlands  Resolving spatial variation in engineered biosensor response within the mammalian gut





16:15		Briefing for Session 5 speakers, chair & moderator - Auditorium
16:30	18:00	Session 5: Designing Synthetic Biomolecules
		Chair: Katie Galloway, Massachusetts Institute of Technology, USA Moderator: Clare Robinson, Imperial College London, UK
16:30	17:00	Build to understand the Secret Life of Feedback Circuits  Hana El-Samad, University of California, San Francisco/Altos Labs, USA
17:00	17:30	Engineered mammalian synthetic biology towards therapy  Roman Jerala, Kemijski Institute, Slovenia
17:30	17:45	Finding all our switches: biophysics at scale to understand, predict and engineer allostery Ben Lehner, Wellcome Sanger Institute, UK
17:45	18:00	Multi-input drug-controlled switches of mammalian gene expression based on engineered nuclear hormone receptors  Simon Kretschmer, University of California, San Francisco, USA
18:00	19:00	Reception/networking
19:00		Dinner
19:00	23:00	Bar open (card payments only)

Wednesday 15 March 2023		
09:15		Briefing for Session 6 speakers, chair & moderator - Auditorium
09:30	11:15	Session 6: Synthetic Genomes, Cells and Multicellularity
		Chair: Sonja Billerbeck, University of Groningen, Netherlands Moderator: Juliane Weller, Wellcome Sanger Institute, UK
09:30	10:00	Sub-megabase and biallelic genome writing technology creates multi-functional human iPS cells <u>Yasunori Aizawa, Tokyo Institute of Technology, Japan</u>
10:00	10:30	Limb regeneration rveals novel programming of development signaling modalities
		Elly Tanaka, Research Institute of Molecular Pathology, Austria
10:30	10:45	Drag-and-drop genome insertion of large sequences without double-strand DNA cleavage using CRISPR-directed integrases  Matthew Yarnall, MIT, USA
10:45	11:00	Temperature-responsive synthetic cells for advanced drug delivery  Carolina Monck, Imperial College London, UK
11:00	11:15	Randomizing gene regulatory regions using prime editing  Jonas Koeppel, Wellcome Sanger Institute, UK
11:15	11:45	Refreshment break
11:30		Briefing for panel members, chair, moderator & committee - Auditorium
11:45	12:45	Panel Session: Translating tools to therapies
		Chair: Adrian Woolfson, Replay Holding, LLC, USA Moderator: Yasunori Aizawa, Tokyo Institute of Technology, Japan
		Harold P. de Vladar, Ribbon Biolabs, Austria Jennifer Molloy, University of Cambridge, UK Anne-Marie Mooney, New England Biolabs UK Ltd, UK
		Serge Pampfer, EureKARE SAS, France - VIRTUAL
12:45	13:00	Closing remarks and prize presentation
		Scientific Programme Committee:
		Yasunori Aizawa, Tokyo Institute of Technology, Japan Sonja Billerbeck, University of Groningen, Netherlands
		Tom Ellis, Imperial College London, UK
		Katie Galloway, Massachusetts Institute of Technology, USA
13:00	13:50	Lunch and departures
13:50		Coach departures for Stansted and Heathrow airports
14:00		Coach departures for Cambridge train station and city centre