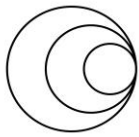
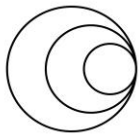


Hybrid Conference Programme

Start (BST)	Finish (BST)	Presenter details
Monday 22 April 2024		
12:00	13:00	Registration, lunch and networking
12:45	13:00	Briefing for Keynote & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium
13:00	13:15	Welcome
13:00	13:05	Wellcome Connecting Science: <i>Nagehan Ramazanoglu Bahadir, Wellcome Connecting Science, UK</i>
13:05	13:15	Scientific Programme Committee: Britt Adamson, Princeton University, USA Martin Kircher, Berlin Institute of Health, Germany Leopold Parts, Wellcome Sanger Institute, UK Lea Starita, University of Washington, USA
13:15	14:15	Keynote
		<i>Chair: Leopold Parts, Wellcome Sanger Institute, UK</i> <i>Moderator: Nazanin Esmaeili Anvar - MD Anderson Cancer Center, USA</i>
		Mapping genetic networks at scale Brenda Andrews, University of Toronto, Canada
14:15	14:20	Comfort break
14:20	15:50	Session 1: Emerging technologies and models
		<i>Chair: Britt Adamson, Princeton University, USA</i> <i>Moderator: Michael Herger – Francis Crick Institute, UK</i>
14:20	14:50	Saturation resistance profiling of EGFR variants against tyrosine kinase inhibitors using prime editing Hyongbum Henry Kim, Yonsei University, South Korea
14:50	15:20	Transcriptional linkage analysis with AAV-Perturb-seq Randall Platt, ETH Zurich, Switzerland
15:20	15:35	Building a genome-wide atlas of human cell morphology <i>JT Neal, Broad Institute of MIT & Harvard, USA</i>
15:35	15:50	High-throughput screening for combinatorial transcriptional modulators <i>Caroline Wilson, UCSF/Arc Institute, USA</i>
15:50	16:25	Refreshment break and networking



16:10	16:25	Briefing for Session 2 speakers, chair & moderator - Auditorium
16:25	17:55	Session 2: Precision editing and delivery systems
		<i>Chair: Lea Starita, University of Washington, USA</i> <i>Moderator: Jan Gleixner - German Cancer Research Center (DKFZ), Germany</i>
16:25	16:55	Base editing rescue of spinal muscular atrophy in cells and in mice - VIRTUAL Mandana Arbab, Boston Children's Hospital, USA
16:55	17:25	Precision editing for gene therapy in Fanconi anemia Paula Rio, The Centre for Energy, Environmental and Technological Research, Spain
17:25	17:40	Cas13d effectively targets the transcriptome in a functional genomic screen <i>Fernanda G. Arriaga-González, Wellcome Sanger Institute, UK</i>
17:40	17:55	A prime editing platform for multiplexed dropout screening <i>Ann Cirincione, Princeton University, USA</i>
17:55	18:40	Poster pitch talks for odd number posters
18:40	19:40	Poster session 1 - odd number posters with drinks reception
19:40	21:40	Dinner
19:40		Bar open (card payments only)



Tuesday 23 April 2024

09:15 09:30 Briefing for Session 3 speakers, chair & moderator - Auditorium

09:30 11:00 Session 3: Coding & non coding variation

Chair: Martin Kircher, Berlin Institute of Health, Germany

Moderator: Veronica Yumiceba - Universität zu Lübeck, Germany

09:30 10:00 Decoding large regulatory landscapes – one element at a time or start from scratch?

[Wendy Bickmore, University of Edinburgh, UK](#)

10:00 10:30 Non-linear transcriptional responses to gradual modulation of transcription factor dosage

[Tuuli Lappalainen, New York Genome Center, USA/KTH Royal Institute of Technology, Sweden](#)

10:30 10:45 Synthetic genomic dissection of enhancer context sensitivity and synergy

Matthew Maurano, NYU Institute for Systems Genetics, USA

10:45 11:00 Evolution and function of sex chromosome regulatory regions

Hannah Harris, Whitehead Institute, USA

11:00 11:35 Refreshment break and networking

11:20 11:35 Briefing for Session 4 speakers, chair & moderator - Auditorium

11:35 13:10 Session 4: Gene engineering technologies

Chair: Lea Starita, University of Washington, USA

Moderator: Florence Lichou – Sanger Institute, UK

11:35 12:05 Species-aware DNA language models

[Julien Gagneur, Technical University of Munich, Germany](#)

12:05 12:35 Generative modeling for cellular perturbation

[Mo Lotfollahi, Wellcome Sanger Institute, UK](#)

12:35 12:55 Multi-locus CRISPRi targeting with a single truncated guide RNA

Fadi Najm, Broad Institute, USA

12:55 13:10 Decoding the Role of Distal Enhancers in the Regulatory Circuitry of Human Astrocytes and their Impact on Neurodegeneration: Insights from Large-Scale Single-Cell CRISPRi Screening

Nicole Green, University of New South Wales, Australia

13:10 14:30 Lunch and networking

14:15	14:30	Briefing for Session 5 speakers, chair & moderator - Auditorium
14:30	16:00	Session 5: Genetic interactions
		<i>Chair: Britt Adamson, Princeton University, USA</i>
		<i>Moderator: Anjan Venkatesh - University College Dublin, Ireland</i>
14:30	15:00	Engineering transcriptional state with Perturb-seq Thomas Norman, Memorial Sloan Kettering Cancer Center, USA
15:00	15:30	CRISPR+Retrons: Precise Editing and Transcriptional Recording Seth Shipman, University of California, San Francisco
15:30	15:45	Global analysis of genetic suppression of partial loss-of-function alleles <i>Sabine van Schie, University of Lausanne, Switzerland</i>
15:45	16:00	Sequential genetic dependencies identified by time-resolved orthogonal gene editing <i>Ronay Cetin, Goethe University Frankfurt, Germany</i>
16:00	16:35	Refreshment break and networking
16:20	16:35	Briefing for Sponsored talk speaker, chair & moderator - Auditorium
16:35	16:50	Sponsored talk by Parse Biosciences
		<i>Chair: Britt Adamson, Princeton University, USA</i>
16:35	16:50	Multi-million cell CRISPR screens - the future is now with Parse Biosciences <i>Mike Day, Parse Biosciences</i>
16:50	17:35	Poster pitch talks for even number posters
17:35	18:35	Poster session 2 - even number posters with drinks reception
18:35	20:35	Dinner
18:35		Bar open (card payments only)

Wednesday 24 April 2024

09:15 09:30 Briefing for Session 6 speakers, chair & moderator - Auditorium

09:30 11:00 Session 6: Computational models and integration

Chair: Leopold Parts, Wellcome Sanger Institute, UK

Moderator: Olivier Belli – ETH Zurich, Switzerland

09:30 10:00 Inferring regulatory mechanisms from single cell CRISPR screens

[Britta Velten, Heidelberg University, Germany](#)

10:00 10:30 CRISPR-based second-generation of genetic-vulnerability-maps in cancer cells

[Francesco Iorio, Human Technopole, Italy](#)

10:30 10:45 Differentiable and multimodal feature selection for compressed genome-scale CRISPR screens

Aidan Winters, UCSF/Arc Institute, USA

10:45 11:00 Inferring context-specific essentiality networks using large-scale CRISPR- KO screens

Paula Weidemüller, EMBL-EBI, UK

11:00 11:35 Refreshment break and networking

11:20 11:35 Briefing for Panel members, chair, moderator & committee - Auditorium

11:35 12:35 Session 7: Panel Discussion - will AI ever replace experiments?

Chair: Martin Kircher, Berlin Institute of Health, Germany

Moderator: Leopold Parts, Wellcome Sanger Institute, UK

Panel members:

[Brenda Andrews, University of Toronto, Canada](#)

[Julien Gagneur, Technical University of Munich, Germany](#)

[Joshua Pan, Google DeepMind, UK](#)

[Britta Velten, Heidelberg University, Germany](#)

12:35 12:50 Closing remarks and prize presentation

Scientific Programme Committee:

[Britt Adamson, Princeton University, USA](#)

[Martin Kircher, Berlin Institute of Health, Germany](#)

[Leopold Parts, Wellcome Sanger Institute, UK](#)

[Lea Starita, University of Washington, USA](#)

12:50 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