

Virtual Conference Agenda

Start (GMT)	Finish (GMT)	Presenter details
Wednesday, 17 November 2021		
13:00	13:10	<p>Welcome</p> <p><i>Scientific Programme Committee:</i> Daniele Fallin, Johns Hopkins University, USA Bas Heijmans, Leiden University Medical Center, The Netherlands Nada Jabado, McGill University, Canada Jonathan Mill, University of Exeter, UK</p>
13:10	13:55	<p>Keynote 1</p> <p>Introduction to the session <i>Chair: Bas Heijmans, Leiden University Medical Center, The Netherlands</i></p>
13:10	13:40	<p>Replication of the Epigenome David Gilbert, San Diego Biomedical Institute, USA</p>
13:40	13:55	<p>Q&A <i>Chair: Bas Heijmans, Leiden University Medical Center, The Netherlands</i> <i>Moderator: Jonathan Mill, University of Exeter, UK</i></p>
13:55	14:15	Networking / Break
14:15	15:45	<p>Session 1: Population Epigenetics</p> <p>Introduction to the session <i>Chair: Daniele Fallin, Johns Hopkins University, USA</i></p>
14:15	14:35	<p>Talk title TBC Caroline Relton, University of Bristol, UK</p>
14:35	14:55	<p>Identical twins carry a persistent epigenetic signature of early genome programming Jenny van Dongen, Vrije Universiteit Amsterdam, Netherlands</p>
14:55	15:05	<p>Selection Inference on Epialleles: Implications for the evolution of promoter DNA methylation in the male germline and CpG <i>Leandros Boukas, Johns Hopkins University, USA</i></p>
15:05	15:15	<p>Exploring the Mediation of Maternal Substance Use and Neurodevelopmental Outcomes in Toddlers by DNA Methylation: A Methylation Risk Score Approach <i>Sarina Abrishamcar, Emory University Rollins School of Public Health, USA</i></p>
15:15	15:45	<p>Q&A <i>Chair: Daniele Fallin, Johns Hopkins University, USA</i> <i>Moderator: Bas Heijmans, Leiden University Medical Center, The Netherlands</i></p>
15:45	16:05	Networking / Break

16:05 17:35 Session 2: Technologies

Introduction to the session

Chair: Jonathan Mill, University of Exeter, UK

16:05 16:25 Single-cell Epigenomics of Oligodendroglia during Neural Development and in Multiple Sclerosis

[Goncalo Castelo-Branco, Karoliska Institutet, Sweden](#)

16:25 16:45 Exploring the genome and epigenome with long-read sequencing

[Winston Timp, Johns Hopkins University, USA](#)

16:45 16:55 Quantifying DNA Modification Kinetics in Dividing Cells with EDIMS

Kathleen Stewart-Morgan, Novo Nordisk Foundation Centre for Protein Research (CPR), Denmark

16:55 17:05 Neuronal Nsun2 deficiency causes epitranscriptomic dysregulation of Gly-tRNAs and proteomic shifts impacting synaptic function and behavior

Jennifer Blaze, Icahn School of Medicine at Mt. Sinai, USA

17:05 17:35 Q&A

Chair: Jonathan Mill, University of Exeter, UK

Moderator: Nada Jabado, McGill University, Canada

17:35 18:05 Networking

Thursday, 18 November 2021

13:00 14:30 Session 3: New Frontiers

Introduction to the session

Chair: Bas Heijmans, Leiden University Medical Center, The Netherlands

13:00 13:20 Genome-wide Programmable Transcriptional Memory by CRISPR-based Epigenome Editing

[Jonathan Weissman, Massachusetts Institute of Technology, USA](#)

13:20 13:40 Genetic and functional fine-mapping of immune disease associations

[Nicole Soranzo, Wellcome Sanger Institute, UK](#)

13:40 13:50 DNA methylation scores augment 10-year risk prediction of diabetes

Yipeng Cheng, Institute of Genetics and Cancer, UK

13:50 14:00 The Epiallelic Nature of the Mouse Ribosomal DNA

Francisco Rodriguez-Algarra, Queen Mary University of London, UK

14:00 14:30 Q&A

Chair: Bas Heijmans, Leiden University Medical Center, The Netherlands

Moderator: Nada Jabado, McGill University, Canada

14:30 14:50 Networking / Break

14:50 15:40 Poster Session I

14:50 15:10 Poster session I lightning talks

15:10 15:40 Poster session I

15:40 17:10 Session 4: Multi-omics

Introduction to the session

Chair: Jonathan Mill, University of Exeter, UK

15:40 16:00 PsychENCODE and integrative genomics

[Mike Gandall, University of California Los Angeles, USA](#)

16:00 16:20 Dissecting the impact of histone H3.3 oncomutations on genome maintenance

[Sophie Polo, University of Paris, France](#)

16:20 16:30 Chromatin and gene-regulatory dynamics of the developing human cerebral cortex at single-cell resolution

Fabian Mueller, Saarland University, Germany

16:30 16:40 Integrated single-cell genomics to predict cellular etiology of autoimmune risk loci

Hamish King, Queen Mary University of London, UK

16:40 17:10 Q&A

Chair: Jonathan Mill, University of Exeter, UK

Moderator: Daniele Fallin, Johns Hopkins University, USA

17:10 17:40 Networking

Friday, 19 November 2021

13:00 14:50 Session 5: Chromatin, Ageing and Disease

Introduction to the session

Chair: Nada Jabado, McGill University, Canada

13:00 13:20 Clinical epigenomics: DNA methylation epigraphatures in Mendelian disorders – from concepts to clinical care

[Berkim Sadikovic, University of Western Ontario, Canada](#)

13:20 13:40 Tau Epigenomic Score: properties of the summary score for the impact of tau proteinopathy on chromatin conformation at the tissue

[Philip De Jager, Columbia University Medical Center, USA](#)

13:40 14:00 Talk title TBC

[Anne Schaefer, Mount Sinai School of Medicine, USA](#)

14:00 14:10 DNA methylation is required to maintain both DNA replication timing precision and 3D genome organisation integrity

Qian Du, Garvan Institute of Medical Research, Australia

14:10 14:20 Widespread cortical DNA methylation differences associated with Alzheimer's disease neuropathology are primarily manifest in non-

Gemma Shireby, University of Exeter, UK

14:20 14:50 Q&A

Chair: Nada Jabado, McGill University, Canada

Moderator: Daniele Fallin, Johns Hopkins University, USA

14:50 15:10 Networking / Break

15:10 16:00 Poster session II

15:10 15:30 Poster session II lightning talks

15:30 16:00 Poster session II

16:00 17:00 Keynote 2

Introduction to the session

Chair: Nada Jabado, McGill University, Canada

16:00 16:30 Specialization of brain cell types is encoded by specific 3D genome architectures

[Ana Pombo, Berlin Institute for Medical Systems Biology, Germany](#)

16:30 17:00 Q&A

Chair: Nada Jabado, McGill University, Canada

Moderator: Bas Heijmans, Leiden University Medical Center, The Netherlands

17:00 17:10 Closing remarks

Scientific Programme Committee:

Daniele Fallin, Johns Hopkins University, USA

Bas Heijmans, Leiden University Medical Center, The Netherlands

Nada Jabado, McGill University, Canada

Jonathan Mill, University of Exeter, UK