

**Virtual Conference Agenda**

<b>Start (GMT)</b>	<b>Finish (GMT)</b>	<b>Presenter details</b>
------------------------	-------------------------	--------------------------

**Wednesday, 17 November 2021**

**13:00 13:10 Welcome**

**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](#)

**13:10 13:55 Keynote 1**

Introduction to the session

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

13:10 13:40 Replication of the Epigenome

[David Gilbert, San Diego Biomedical Institute, USA](#)

13:40 13:55 Q&A

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

*Moderator: Jonathan Mill, University of Exeter, UK*

13:55 14:15 Networking / Break

**14:15 15:45 Session 1: Population Epigenetics**

Introduction to the session

*Chair: Daniele Fallin, Johns Hopkins University, USA*

14:15 14:35 Genetics of DNA methylation: Insights from GoDMC

[Caroline Relton, University of Bristol, UK](#)

14:35 14:55 Identical twins carry a persistent epigenetic signature of early genome programming

[Jenny van Dongen, Vrije Universiteit Amsterdam, Netherlands](#)

14:55 15:05 Selection Inference on Epialleles: Implications for the evolution of promoter DNA methylation in the male germline and CpG dinucleotides

*Leandros Boukas, Johns Hopkins University, USA*

15:05 15:15 Exploring the Mediation of Maternal Substance Use and Neurodevelopmental Outcomes in Toddlers by DNA Methylation: A Methylation Risk Score Approach

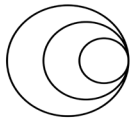
*Sarina Abrishamcar, Emory University Rollins School of Public Health, USA*

15:15 15:45 Q&A

*Chair: Daniele Fallin, Johns Hopkins University, USA*

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

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](#)

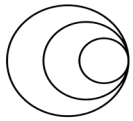
13:20 13:40 Genetic and functional fine-mapping of immune disease associations  
[Nicole Soranzo, Wellcome Sanger Institute, UK](#)

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\*](#)

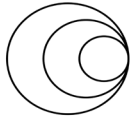
16:00 16:20 Dissecting the impact of histone H3.3 oncomutations on genome maintenance  
[\*Sophie Polo, University of Paris, France\*](#)

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 epesignatures 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 and single cell level  
[Philip De Jager, Columbia University Medical Center, USA](#)

13:40 14:00 Mechanisms of microglia specification and its implication for age-associated neurodegeneration  
[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-neuronal cell-types  
*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*