

Hybrid Conference Programme

Start (BST)	Finish (BST)	Presenter details
Wednesday 17 May		
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	13:10	Welcome <i>Scientific Programme Committee:</i> Cornelis Blauwendraat, NIH/National Institute on Aging, USA Kristen Brennand, Yale University, USA Anders Berglum, Aarhus University, Denmark Mina Ryten, UCL Great Ormond Street Institute of Child Health, UK
13:10	14:10	Keynote 1 <i>Chair: Anders Berglum</i> <i>Moderator: TBC</i> From GWAS to Function Danielle Posthuma, VU Amsterdam, Netherlands
14:10	14:15	Comfort break
14:15	15:45	Session 1: Modelling disease <i>Chair: Kristen Brennand</i> <i>Moderator: TBC</i>
14:15	14:45	Thinking big to see small: nanoscale to macroscale resolution in Parkinson's Sonia Gandhi, Crick Institute, UK
14:45	15:15	Gene regulatory networks and epigenetic mapping of human microglia Nicole Coufal, University of California, San Diego, USA
15:15	15:30	Modelling chromatin-related disorders with genetic and drug perturbations using bulk deconvolution Pau Puigdevall Costa, University of Helsinki, Finland
15:30	15:45	RNA editing contributes to the inflammatory astrocytic response in Parkinson's disease Aaron Wagen, University College London, UK
15:45	16:30	Refreshment break and networking
16:15	16:30	Briefing for Session 2 speakers, microphone runners, chair & moderator - Auditorium
16:30	18:00	Session 2: Scalable 'omics <i>Chair: Mina Ryten</i> <i>Moderator: TBC</i>
16:30	17:00	Cell-Type Specificity of Genetic Regulatory Mechanisms of Gene Expression Shapes Brain Disease Etiology Panos Roussos, Icahn Mount Sinai, USA
17:00	17:30	Systematic investigation of allelic regulatory activity of psychiatric disorder risk variants Hyejung Won, The University of North Carolina, USA
17:30	17:45	Influence of amyloid and tau pathology on local microenvironment gene expression in the human inferior temporal cortex in Alzheimer's disease Leonardo Collado Torres, Lieber Institute for Brain Development, USA
17:45	18:00	Progressive multiple sclerosis has defined spatial domains with biochemical disruption characteristic of neurodegenerative disorders Melissa Grant-Peters, University College London, UK
18:00	18:30	Poster Pitches for odd number posters <i>Chair: Mina Ryten</i>
18:30	19:30	Poster session 1 - odd number posters
19:30	21:00	Dinner
		Bar open (card payments only)

Thursday 18 May		
07:30	09:00	Breakfast
09:15	09:30	Briefing for Session 3 speakers, microphone runners, chair & moderator - Auditorium
09:30	11:00	Session 3: Methods of population studies <i>Chair: Cornelis Blauwendraat</i> <i>Moderator: TBC</i>
09:30	10:00	The effects of the brain on the rest of the body Hreinn Stefansson, deCODE Genetics, Iceland
10:00	10:30	Sub-diagnostic effects of genetic variants associated with autism Thomas Bourgeron, Institut Pasteur, France
10:30	10:45	The impact of rare coding variants in schizophrenia associated genes on cognition within the UK Biobank Eilidh Fenner, Cardiff University, UK
10:45	11:00	A Meta-Analysis and Assessment of Reproducibility of Single-Cell Transcriptomic Case-Control Studies Nathan Nakatsuka, New York Genome Center, USA - VIRTUAL
11:00	11:30	Refreshment break and networking
11:15	11:30	Briefing for Session 4 speakers, microphone runners, chair & moderator - Auditorium
11:30	13:15	Session 4: Complex genetic variation in brain diseases <i>Chair: Anders Børglum</i> <i>Moderator: TBC</i>
11:30	12:00	The re-emerging role of short tandem repeats in the genomic era Arianna Tucci, Queen Mary University of London, UK
12:00	12:30	Transcriptional convergence of rare and common variant risk for psychiatric disease within 16p and 22q Elise Robinson, Broad Institute, USA
12:30	12:45	New exome sequencing data provides preliminary evidence for three novel schizophrenia risk genes Sophie Chick, Cardiff University, UK
12:45	13:00	The influence of CNVs, genes and pathways on risk for six major psychiatric disorders Omar Shanta, University of California San Diego, USA
13:00	13:15	Breaking Free from GWAS Shackles: Uncovering Regulatory Drivers in Parkinson's Disease risk loci Sophie Farrow, University of Auckland, New Zealand
13:15	14:30	Lunch and networking
14:15	14:30	Briefing for Session 5 speakers, microphone runners, chair & moderator - Auditorium
14:30	16:00	Session 5: Genetic architecture <i>Chair: Cornelis Blauwendraat</i> <i>Moderator: TBC</i>
14:30	15:00	Polygenic architecture across neuropsychiatric disorders and brain phenotypes – potential clinical implications? Ole Andreassen, University of Oslo, Norway
15:00	15:30	Genes influence complex traits through environments that vary between geographic regions Abdel Abdellaoui, Amsterdam UMC, Netherlands
15:30	15:45	Genome-wide Polygenic Score for Attention Deficit Hyperactivity Disorder is Associated with Reduced Total Brain Volume and Cortical Surface Area in Neonates Harriet Cullen, Kings College London, UK
15:45	16:00	Joint multi-family history and multi-polygenic score prediction of major depressive disorder Rujia Wang, Kings College London, UK
16:00	16:30	Poster Pitches for odd number posters <i>Chair: Cornelis Blauwendraat</i>
16:30	16:45	Sponsored talk by Richard Capper, Illumina UK
16:45	17:45	Poster session 2 - even number posters
17:45	18:30	Free time
18:30	21:00	Dinner
		Bar open (card payments only)

Friday 19 May		
07:30	09:00	Breakfast
09:15	09:30	Briefing for Session 6 speakers, microphone runners, chair & moderator - Auditorium
09:30	11:00	Session 6: Using genomics to drive therapeutics
		<i>Chair: Kristen Brennand</i> <i>Moderator: TBC</i>
09:30	10:00	The Depression Genomics Revolution: unlocking complexity Gerome Breen, Kings College London, UK
10:00	10:15	Single-cell Mendelian randomisation identifies cell-type specific effects on human brain disease and behaviour <i>Michael Johnson, Imperial College London, UK</i>
10:15	10:30	Identification of Clinically-Relevant Genetic Subgroups in Parkinson's Disease <i>Neil Humphries-Kirilov, C4X Discovery, UK</i>
10:30	10:45	Convergent impact of schizophrenia risk genes <i>Kayla Townsley, Icahn School of Medicine at Mount Sinai, USA</i>
10:45	11:00	High-Content Mitophagy Screen of 503 Protein-Coding Parkinson's Disease Risk Genes Reveals Novel Regulators of PINK1/Parkin Mitophagy Process <i>Benjamin O'Callaghan, UCL Queen Square Institute of Neurology, UK</i>
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Keynote, microphone runners, chair, moderator & committee - Auditorium
11:45	12:45	Keynote 2
		<i>Chair: Mina Ryten</i> <i>Moderator: TBC</i>
		Genomic analyses of neurodegenerative diseases John Hardy, University College London, UK
12:45	13:00	Closing remarks and prize presentation
		Scientific Programme Committee: Cornelis Blauwendraat, NIH/National Institute on Aging, USA Kristen Brennand, Yale University, USA Anders Berglum, Aarhus University, Denmark Mina Ryten, UCL Great Ormond Street Institute of Child Health, UK
13:00	13:45	Lunch
13:45		Coach departures for Stansted and Heathrow airports
14:00		Coach departures for Cambridge train station and city centre