

Genomics of Brain Disorders

23-25 April 2018

Wellcome Genome Campus, Hinxton, Cambridge, UK

Draft Conference Programme

Day 1

12:30-14:00	Registration with Lunch
14:00-14:10	Welcome and Introduction <i>Programme Committee</i>
14:10-15:00	Keynote Lecture <i>Ruth McKernan</i> <i>Innovate UK</i>
15:00-16:00	Session 1: Genetic Architecture
	15:00 Embracing polygenicity <i>Naomi Wray</i> <i>The University of Queensland, Australia</i>
	15:30 Deciphering developmental disorders <i>Kaitlin Samocha</i> <i>Wellcome Trust Sanger Institute, UK</i>
16:00-16:30	Afternoon Tea
16:30-17:45	Session 1 continued:
	16:30 A genetic perspective on Huntington's disease pathogenesis <i>Lesley Jones</i> <i>Cardiff University, UK</i>
	17:00 Selected talk from submitted abstract
	17:15 Selected talk from submitted abstract
17.30-18.00	Lightning talks
18:00-19:30	Poster Session I (odd numbers) with Drinks Reception
19:30	Dinner

Day 2

09:00-10:30

Session 2: Connecting genetics to biology

09:00 The cellular phase of Alzheimer's disease
Bart De Strooper
University College London, UK

09:30 Novel genetic findings and their biological implications for
brain-related traits
Danielle Posthuma
VU University Amsterdam, The Netherlands

10:00 Selected talk from submitted abstract

10:15 Selected talk from submitted abstract

10:30-11:00

Morning Coffee

11:00-12:30

Session 3: Systems biology

11:00 A gene network view of epilepsy and drug discovery
Mike Johnson
Imperial College London, UK

11:30 Neurodegeneration: beyond the brain
Sarah Gagliano,
University of Michigan, USA

12:00 Selected talk from submitted abstract

12:15 Selected talk from submitted abstract

12:30-14:30

Lunch**Meet the speaker session & networking**

14.30-16:00

Session 4: Population studies

14:30 New research questions addressed through genome studies
in a biobank
Nancy Cox
Vanderbilt University, USA

15:00 Prediction of healthy cognitive ageing in the Lothian Birth
Cohorts
Stuart Ritchie

The University of Edinburgh, UK

15:30 Selected talk from submitted abstract

15:45 Selected talk from submitted abstract

16:00-16:30 **Afternoon Tea**

16:30-18:00 **Session 5: Modelling disease**

16:00 Insights into the cell and molecular biology of dementia from human stem cell systems

Rick Livesey

University of Cambridge, UK

16:30 Modelling the impact of common variants on schizophrenia risk using stem cells

Kirsten Brennand

Icahn School of Medicine at Mount Sinai, USA

17:00 Selected talk from submitted abstract

17.30- 18.00 **Lightning talks**

18:00-19:30 **Poster Session II (even numbers) with drinks reception**

19:30 **Dinner**

Day 3

09:00-10:30 **Session 6: Neuroimmunology**

09:00 More than bystanders: microglia destruct synapses in Alzheimer's disease

Soyon Hong

Harvard University, USA

09:30 Innate immune activation in Alzheimer disease

Michael Heneka,

University of Bonn, Germany

10:00 Selected talk from submitted abstract

10.15 Selected talk from submitted abstract.

10:30-11:00 **Morning Coffee**



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11:00-12:45

Session 7: Using genomics to drive precision medicine

11:30 Genetics of functions and dysfunctions of the brain

Kári Stefánsson

deCODE genetics, Iceland

12:00 Panel discussion on stratified medicine

12.30 Closing remarks:

12.45 -14:00

Lunch & depart