

CNS 2022: New Horizons - Programme

- 09:10-09:20 Welcome
09:10-09:20 Opening remarks, **Professor Paul Fletcher**
09:20-09:30 Intro to website, **Dr Dervila Glynn**, Cambridge Neuroscience

Theme 1 - Neurons, Circuits and Networks **Chaired by Professor Michael Hastings**



- 09:30-09:50 Dr Petra Vértés, Psychiatry
Neurons, Networks & Circuits – an overview across Cambridge
09:50-10:05 Dr Riccardo Beltramo, Physiology, Development and Neuroscience
An ancestral primary visual cortex
10:05-10:20 Dr Marta Costa, Zoology
From Sensory input to Motor output with Drosophila connectomics

Theme 2 - Adaptive Brain Computations **Chaired by Professor Paul Fletcher**



- 10:20-10:40 Professor Jeff Dalley, Psychology
Adaptive Brain Computations – an overview across Cambridge
10:40-10:55 Dr Elisa Galliano, Physiology, Development and Neuroscience
Neuronal plasticity: beyond the usual suspects
10:55-11:10 Dr Giacomo Bignardi, MRC Cognition and Brain Sciences Unit
How broadly does adversity impact development?
11:10-11:40 Refreshments

Theme 3 - Beyond the neurone: glia, vascular & immune cells **Chaired by Professor Ewan St John Smith**



- 11:40-12:00 Professor Thóra Káradóttir, Veterinary Medicine
Beyond the Neurone – an overview across Cambridge
12:00-12:15 Dr Clémence Blouet, Wellcome-MRC Institute of Metabolic Science
Peel off your myelin sheet, new food is coming
12:15-12:30 Dr Svetlana Khoronenkova, Biochemistry
Genome instability drives microglial dysfunction in Ataxia Telangiectasia
12:30-13:00 Early Career Investigator Data Blitz, convened by TBC
13:00-14:30 Lunch, Poster Session and Trade exhibition

Theme 4 - Lifelong Brain Development and brain ageing
Chaired by Professor Angela Roberts



- 14:30-14:50 Professor Rik Henson MRC Cognition and Brain Sciences Unit
Lifelong Brain Development – an overview across Cambridge
- 14:50-15:05 Dr Maura Malpetti, Clinical Neurosciences
Inflammation: risks, prodrome and prediction of dementia
- 15:05-15:20 Dr Laura Pellegrini, MRC Laboratory of Molecular Biology
Modelling CNS pathology with choroid plexus and brain organoids

Theme 5 - Social Behaviour and Communication
Chaired by Professor Tamsin Ford



- 15:20-15:40 Professor Simone Schnall, Psychology
Social Behaviour and Communication – an overview across Cambridge
- 15:40-15:55 Dr Amy Orben, MRC Cognition and Brain Sciences Unit
New Directions in Understanding the Impact of Social Media on Mental Health
- 15:55-16:10 Dr Varun Warriar, Psychiatry
Using large-scale genetic and non-genetic datasets to advance evidence in neurodevelopmental conditions?
- 16.10-16:40 Refreshments

Theme 6 - Brains and Machines
Chaired by Professor Zoe Kourtzi



- 16:40-17:00 Professor George Malliaras, Engineering
Brains and Machines – an overview across Cambridge
- 17:00-17:15 Dr Sarah Morgan, Computer Science and Technology and Psychiatry
Predicting outcomes for psychotic disorders, using brain connectivity and transcribed speech data
- 17:15-17:30 Dr Alejandro Carnicer-Lombarte, Engineering
Interfacing with the nervous system using flexible bioelectronics

17:30-18:00 **Closing remarks, next steps and awards**
18:30-19:30 Drinks reception
19:30-21:30 Conference dinner