CNS 2022: New Horizons - Programme
09:00-09:10 Welcome and opening remarks, Professor Paul Fletcher

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

09:10-09:30 Dr Petra Vértes, Psychiatry
Neurons, Networks & Circuits – an overview across Cambridge

09:30-09:45 Dr Riccardo Beltramo, Physiology, Development and Neuroscience
An ancestral primary visual cortex

09:45-10:00 Dr Marta Costa, Zoology
From Sensory input to Motor output with Drosophila connectomics

10:00-10:05 Additional Q&A

Theme 2 - Adaptive Brain Computations in association with Cambridge Phenotyping
Chaired by Professor Zoe Kourtzi

10:05-10:25 Professor Jeff Dalley, Psychology
Adaptive Brain Computations – an overview across Cambridge

10:25-10:40 Dr Elisa Galliano, Physiology, Development and Neuroscience
Neuronal plasticity: beyond the usual suspects

10:40-10:55 Dr Giacomo Bignardi, MRC Cognition and Brain Sciences Unit
How broadly does adversity impact development?

10:55-11:00 Additional Q&A

11:00-11:30 Refreshments

Theme 3 - Beyond the neurone: glia, vascular & immune cells in association with Bit.Bio
Chaired by Professor Ewan St John Smith

11:30-11:50 Professor Thóra Káradóttir, Veterinary Medicine
Beyond the Neurone – an overview across Cambridge

11:50-12:05 Dr Clémence Blouet, Wellcome-MRC Institute of Metabolic Science
Peel off your myelin sheet, new food is coming

12:05-12:20 Dr Svetlana Khoronenkova, Biochemistry
Genome instability drives microglial dysfunction in Ataxia Telangiectasia

12:20-13:00 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 Laura Pellegrini, MRC Laboratory of Molecular Biology  
Modelling CNS pathology with choroid plexus and brain organoids

15:05-15:20  Dr Maura Malpetti, Clinical Neurosciences  
Inflammation: risks, prodrome and prediction of dementia

15:20-15:25  Additional Q&A

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

15:25-15:45  Dr Kate Baker, MRC Cognition and Brains Sciences Unit  
Social Behaviour and Communication – an overview across Cambridge

15:45-16:00  Dr Amy Orben, MRC Cognition and Brain Sciences Unit  
New Directions in Understanding the Impact of Social Media on Mental Health

16:00-16:15  Dr Varun Warrier, Psychiatry  
Using large-scale genetic and non-genetic datasets to advance evidence in neurodevelopmental conditions?

16:15-16:20  Additional Q&A

16.20-16:50  Refreshments

**Theme 6 - Brains and Machines in association with DeepMind**  
Chaired by Dr Flavia Mancini

16:50-17:10  Professor George Malliaras, Engineering  
Brains and Machines – an overview across Cambridge
17:10-17:25  Dr Sarah Morgan, Computer Science and Technology and Psychiatry
Predicting outcomes for psychotic disorders, using brain connectivity and
transcribed speech data

17:25-17:40  Dr Alejandro Carnicer-Lombarte, Engineering
Interfacing with the nervous system using flexible bioelectronics

17:40-17:45  Additional Q&A

17:45-18:00  Closing remarks, next steps and awards

18:15-19:30  Drinks reception and music on Grove and Chapel lawn,
19:30-21:30  Conference dinner, Dining hall, Fitzwilliam College