



Oxford Autumn School in Neuroscience 2022

Thursday 6th October

09.25 Welcome: Professor Masud Husain, Chair Autumn School in Neuroscience

Dementia Research Oxford

Chair: Professor Masud Husain, Nuffield Department of Clinical Neurosciences, University of Oxford

09.30 - 10.10 Dr Emma Mead, Nuffield Department of Medicine, University of Oxford

Targeting Neuroinflammation in Alzheimer's Disease

10.10 - 10.50 Professor Yolande Pijnenburg, Medical Director, Alzheimer Center, Amsterdam

Frontotemporal dementia: state-of-the art and research challenges

10.50 - 11.20 Break

11.20 - 12.00 Dr Rimona Weil, Queen Square Institute of Neurology, University College, London

Visual hallucinations in Parkinson's and Dementia with Lewy Bodies

12.00 - 12.40 Professor George Tofaris, Nuffield Department of Clinical Neurosciences, University of Oxford

Extracellular vesicles as proxy biomarkers for mechanisms in Parkinson's disease

12.40 - 13.30 Break

Emotion and decision circuits: where old meets new

Chair: Dr Miriam Klein-Flugge, Wellcome Centre for Integrative Neuroimaging, University of Oxford

13.30 - 14.10 Professor Emma Robinson, School of Physiology, Pharmacology & Neuroscience, Bristol

Turning the glass from half empty to half full, a possible neuropsychological mechanism underlying rapid acting antidepressants

14.10 - 14.50 Professor Fabian Grabenhorst, Department of Experimental Psychology, University of Oxford

Role of primate amygdala neurons in decision-making and social decision simulation

14.50 - 15.20 Break

15.20 - 16.00 Dr Miriam Klein-Flugge, Wellcome Centre for Integrative Neuroimaging, University of Oxford

Learning and decision making in human cortical versus subcortical circuits

16.00 - 16.40 Dr Quentin Huys, Deputy Director, Max Planck UCL Centre for Computational Psychiatry and Ageing Research

Emotions and the rational choice of thoughts





Friday 7th October

Neuroimmunology in health and disease

Chair: Professor Sarosh Irani, Nuffield Dept of Clinical Neurosciences, Univ of Oxford

09.00 - 09.40 Dr Franziska Denk, Wolfson Centre for Age-Related Diseases, Kings College London

Chronic neuropathic pain – are we right to blame malfunctioning nerves?

09.40 - 10.20 Dr Sandro Da Mesquita, Mayo Clinic, Jacksonville, Florida

The rediscovery of meningeal lymphatics; implications for neurodegeneration

10.20 - 10.50 Break

10.50 - 11.30 Dr Ruth Dobson, Wolfson Institute of Population Health, Queen Mary, London

What's Epstein Barr Virus got to do with Multiple Sclerosis?

11.30 - 12.10 Professor Sarosh Irani, Nuffield Dept of Clinical Neurosciences, Univ of Oxford

The immunology underlying autoantibody-mediated CNS diseases

12.10 -13.10 Break

Malleability of the mind

Chair: Professor Randy Bruno, Department of Physiol. Anatomy and Genetics, University of Oxford

13.10 - 13.50 Professor Claudia Clopath, Department of Bioengineering, Imperial College and Sainsbury Wellcome Centre for Neural Circuits and Behaviour, London

Modelling plasticity in cortical circuits

13.50 – 14.30 Dr Jasper Poort, Dept. of Physiology, Development and Neuroscience and Dept. of Psychology, Cambridge

Selective vision: effects of learning and attention on mouse visual cortical circuits during visual discrimination

14.30 - 15.00 Break

15.00 - 15.40 Dr Nathalie Rochefort, Centre for Discovery Brain Sciences, Univ. Edinburgh

How does food availability impact energy usage and coding precision in neocortex

15.40 - 16.20 Professor Matthew Larkum, Department of Biology, Humboldt University/Neuroscience Research Centre, Berlin

Turning the lights on - Does the brain have a switch for consciousness?

16.20 - 16.35 Closing remarks

