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