

14th Annual Oxford Neuroscience Symposium 19 March 2025

Mathematical Institute, Andrew Wiles Building, University of Oxford

08.15	Registration opens
09.00	Welcome Professor Kevin Talbot, Head of the Nuffield Department of Clinical Neurosciences
	Session 1 Chair: Professor Esther Becker, Nuffield Department of Clinical Neurosciences
09.10	How sleep boosts memory Professor Bernhard Staresina, Department of Experimental Psychology
09.30	Using high-field MRI to characterize the neural correlates of motivation and anhedonia in depression Dr. Laurel Morris, Nuffield Department of Clinical Neurosciences
09.50	Neurophysiological Principles of Reward Dr. Annie Park, Dept. of Physiology Anatomy and Genetics
10.10	Reprogramming sensory cortex for adaptive task learning Dr. Abhishek Banerjee, Department of Pharmacology
10.30	Coffee and Posters
	Session 2 Rapid Fire Talks Chair: Professor Saad Jbabdi, Nuffield Dept. of Clinical Neurosciences
11.20	The involvement of thalamic circuits in primary and secondary tauopathies Barbara Sarkany, Dept. of Pharmacology
11.25	Interactions between serotonergic nuclei and prefrontal circuits driving persistence in human foraging decisions Johannes Algermissen, Dept. of Experimental Psychology
11.30	Prediction of future input explains lateral connectivity in primary visual cortex Sebastian Klavinskis-Whiting, Dept. of Physiology, Anatomy and Genetics
11.35	Attention and representational precision in human EEG Sammi Chekroud, Dept. of Experimental Psychology
11.40	Measuring instability to predict outcomes of severe mental illness Max Taquet, Dept. of Psychiatry
11.45	Investigating the role of peroxisomes in Alzheimer's Disease Sally Allison, Dept. of Pharmacology
11.50	Ketamine Effects on Negative Biases for Pre-infusion Acquired Emotional Memories Sara Costi, Dept. of Psychiatry
11.55	Rediscovering Stratum Lacunosum Dr. Demi Brizee, MRC Brain Network Dynamics Unit and Nuffield Dept. of Clinical Neurosciences
12.00	Lunch and Posters
	Session 3 Rapid Fire Talks Chair: Assoc Professor Susannah Murphy, Dept. of Psychiatry
13.00	The interplay between Developmental Language Disorders, Bullying Victimization and Mental Health Sînziana Ioana Oncioiu, Dept. of Experimental Psychology

13.05	Dopaminergic computations for perceptual decisions Matthias Fritsche, Dept. of Physiology, Anatomy and Genetics
13.10	Neuron-Microglia interactions in an iPSC-based model of Parkinson's disease Hung-Ju Chueh, Nuffield Dept. of Clinical Neurosciences
13.15	Direct serotonin release in humans shapes aversive learning and inhibition Michael Colwell, Dept. of Psychiatry
13.20	The developmental lineage of cortical subnetworks Dr. Gemma Gothard, Dept. of Pharmacology
13.25	Biofluid proteomics for early biomarker identification in amyotrophic lateral sclerosis Dr. Elizabeth Dellar, Nuffield Dept. of Clinical Neurosciences
13.30	Dopamine transporters promote membrane repolarisation to shape striatal dopamine release Bethan O'Connor, Dept. of Physiology, Anatomy and Genetics
13.40	Coffee and Posters
	Session 4 Chair: Professor Stuart Peirson, Nuffield Dept. of Clinical Neurosciences
14.20	Glycine Receptors regulate striatal cholinergic interneurons and dopamine release Dr. Simon Bossi, Dept. of Physiology, Anatomy and Genetics
14.40	Immuno-metabolic dysfunction and severe mental illness Professor Rachel Upthegrove, Dept. of Psychiatry
15.00	Network mechanisms of motor impairment in Parkinson's disease Dr. Ashwini Oswal, MRC Brain Network Dynamics Unit and Nuffield Dept. of Clinical Neurosciences
15.20	Towards precision in the diagnostic profiling of patients: Leveraging symptom dynamics in the assessment of mental disorders Dr. Omid Ebrahimi, Dept. of Experimental Psychology
15.40	Dopamine in Psychosis: Disease & Treatment Assoc. Professor Robert McCutcheon, Dept. of Psychiatry
16.00.	Closing remarks
16.15	Quick Break
16.30	PLENARY LECTURE Investigating Parafoveal Processing During Natural Visual Exploration and Reading Professor Ole Jensen Chair of Translational Cognitive Neuroscience Departments of Psychiatry, and Experimental Psychology
17.30	Drinks Reception