

13th Annual Oxford Neuroscience Symposium 20 March 2024

Mathematical Institute, Andrew Wiles Building, University of Oxford

08.15	Registration opens
09.00	Welcome Professor Paul Harrison, Chair, Oxford Neuroscience Strategy Committee
	Session 1 Chair: Assoc. Professor Kerry Walker, Dept. of Physiology, Anatomy and Genetics
09.10	The dream to control sleep Dr. Lukas Krone, Dept. of Physiology, Anatomy and Genetics
09.30	Cognitive maps in psychiatry and how to measure them Dr. Matthew Nour, Dept. of Psychiatry
09.50	Mechanisms of flexible behaviour in complex environments Dr. Thomas Akam, Dept. of Experimental Psychology
10.10	Comparing mouse and human brain organization Dr. Rogier Mars, Nuffield Dept. of Clinical Neurosciences
10.30	Coffee and Posters
	Session 2 Rapid Fire Talks Chair: Professor Saad Jbabdi, Nuffield Dept. of Clinical Neurosciences
11.20	Contribution of identified anterodorsal thalamic neurons to orientation coding and their dysfunction in Alzheimer's brain Shan Jiang, Dept. of Pharmacology
11.25	Coordinated inferential replay across hippocampal-neocortical circuits Cal Shearer, Dept. of Experimental Psychology
11.30	Chronically Manipulating Cortical Layer 6b Alters Neuroanatomy and Behaviour Marissa Mueller, Dept. of Physiology, Anatomy and Genetics
11.35	Dorsal raphe nucleus controls motivational state transitions in monkeys Luke Priestly, Dept. of Experimental Psychology
11.40	Physiological correlates of value-based decision-making between affective memories Dr. Erdem Pulcu, Dept. of Psychiatry
11.45	The role of 5-HT_{2A} receptor biased agonism in psychedelic drug action Aurelija Ippolito, Dept. of Pharmacology
11.50	Associations of Mid-Life Dementia Risks with Later-Life Brain Vascular Health, Longitudinal Brain Structure, and Cognitive Function in Healthy Aging Congxiyu Sherry Wang, Dept. of Psychiatry
11.55	Computational Phenotyping of Ocular Biomarkers in Parkinsonian Disorders Salil Patel, 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	Computation with program operations in replay Dr. Sebastijan Veselic, Dept. of Experimental Psychology
13.05	How do early thalamic innervation shape the development of the cerebral cortex in the human fetal brain? Dr. Sara Bandiera, Dept. of Physiology, Anatomy and Genetics

13.10	Using chemogenetic tools to silence sensory neuron driven pain Dr. Jimena Perez Sanchez, Nuffield Dept. of Clinical Neurosciences
13.15	Black racial minority young people with Psychiatric Disorders utilizing creative arts therapies (BLACK-ARTS) Briana Applewhite, Dept. of Psychiatry
13.20	Flexible and dynamic prioritisation of visual representations and action plans within working memory Irene Echeverria Altuna, Dept. of Experimental Psychology
13.25	Neuronally-derived extracellular vesicle α-synuclein as a serum biomarker for individuals at risk of developing Parkinson's disease Shijun Yan, Nuffield Dept. of Clinical Neurosciences
13.30	Striatal dopamine reflects individual long-term learning trajectories Samuel Liebana Garcia, Dept. of Physiology, Anatomy and Genetics
13.35	Child, adolescent, and parent mental health during the Covid-19 pandemic Dr. Simona Skripkauskaitė, Dept. of Experimental Psychology
13.40	Coffee and Posters
	Session 4 Chair: Professor Charlotte Stagg, Nuffield Dept. of Clinical Neurosciences
14.40	Stroke at younger ages Dr. Linxin Li, Nuffield Dept. of Clinical Neurosciences
15.00	The role of Tau on neuronal activity in head-direction cells and its subsequent effect on spatial disorientation Dr. Sara Hijazi, Dept. of Pharmacology
15.20	The problem with mental health awareness Dr. Lucy Foulkes, Dept. of Experimental Psychology
15.40	Violent victimisation as a risk factor for common psychiatric disorders: A cross-national sibling-comparison study Dr. Amir Sariaslan, Dept. of Psychiatry
16.00.	Closing remarks
16.15	Quick Break
16.30	PLENARY LECTURE Big data genomics of psychiatric disorders: what we know and where to go Professor Naomi Wray, PhD, FAA, FAHMS Michael Davys chair of neuroscience Department of Psychiatry
17.30	Drinks Reception