

# 11<sup>th</sup> Annual Oxford Neuroscience Symposium 24 March 2021

*Online: Zoom link will be sent to registered delegates*

09.00	<b>Welcome</b> Prof. Kia Nobre, Chair, Oxford Neuroscience Strategy Committee
	<b>Session 1: Pain</b> <b>Chair: Professor Rebecca Slater, Dept. of Paediatrics</b>
09.10	<b>Bridge the gap: Using translational sciences to improve our understanding of neuropathic pain</b> Associate Prof. Annina Schmid, Nuffield Dept. of Clinical Neurosciences
09.30	<b>Unravelling Pain in the Brain</b> Dr Ben Seymour, Nuffield Dept. of Clinical Neurosciences
09.50	<b>Neurosurgery in the management of terminal cancer pain</b> Prof. Tipu Aziz, Nuffield Dept. of Clinical Neurosciences
10.10	<b>TBC</b>
10.15	<b>Assessing pain perception under general anaesthesia</b> Jostein Holmgren, Nuffield Dept. of Clinical Neurosciences
10.20	<b>Improving the measurement of neonatal pain</b> Maria Cobo, Dept. of Paediatrics
10.25	<b>Autoantibodies and pain</b> Dr John Dawes, Nuffield Dept. of Clinical Neurosciences
10.30	<b>Break</b>
	<b>Session 2; Computational Neuroscience</b> <b>Chair: Professor Timothy Behrens, Nuffield Dept. of Clinical Neurosciences</b>
10.40	<b>Systems consolidation of memory: Learning structure from experience in an uncertain world</b> Assoc. Prof. Andrew Saxe, Dept. of Experimental Psychology
11.00	<b>Learning reward uncertainty in the basal ganglia</b> Prof Rafal Bogacz, MRC Brain Network Dynamics Unit
11.20	<b>Stimulating at the right time</b> Assoc. Prof. Hayriye Cagnan, MRC Brain Network Dynamics Unit
11.40	<b>Understanding neural representations with the help of deep learning</b> Dr James Whittington, Nuffield Dept. of Clinical Neurosciences
11.45	<b>Computational perspectives on NMDA receptor antagonism in psychiatry</b> Dr Lilian Weber, Dept. of Psychiatry
11.50	<b>Neural structure alignment in brains and recurrent networks</b> Dr Hannah Sheahan, Dept. of Experimental Psychology
11.55	<b>Lunch Break</b>
	<b>Session 3 Developmental Neuroscience</b> <b>Chair: Dr Anna Hoerder-Suabedissen, Dept. of Physiology Anatomy and Genetics</b>
12.30	<b>Did your brain develop normally? A role for transient circuits in cortical development</b> Assoc. Prof. Simon Butt, Dept. of Physiology Anatomy and Genetics
12.50	<b>Language development and brain reorganization in a child born without the left hemisphere</b> Dr Salomi Asaridou, Dept. of Experimental Psychology

13.10	<b>Linking neurodevelopment and neurodegeneration - lessons from epileptogenic human cortex</b> Assoc. Prof. Arjune Sen, Nuffield Dept. of Clinical Neurosciences
13.30	<b>Bioengineering iPSCs derived neural tissues with 3D patterns</b> Dr Linna Zhou, Nuffield Department of Medicine
13.35	<b>Disrupting oligodendrogenesis in adult mice leads to behavioural, structural, electrophysiological alterations</b> Dr Malte Kaller, Nuffield Dept. of Clinical Neurosciences
13.40	<b>Function of GABAergic networks in developing mouse visual cortex</b> Filippo Ghezzi, Dept. of Physiology Anatomy and Genetics
13.45	<b>Break</b>
	<b>Session 4: 400<sup>th</sup> Anniversary Celebrations</b> <b>Chair: Prof. John Geddes, Dept of Psychiatry</b>
14.00	<b>On the 400th anniversary of the birth of Thomas Willis, the founder of clinical neurology</b> Prof. Zoltán Molnár, Dept. of Physiology Anatomy and Genetics
14.30	<b>Anatomizing Melancholy in 1621</b> Dr Kathryn Murphy, Faculty of English
15.00	<b>Closing Remarks</b> Prof. Kia Nobre, Chair, Oxford Neuroscience Strategy Committee