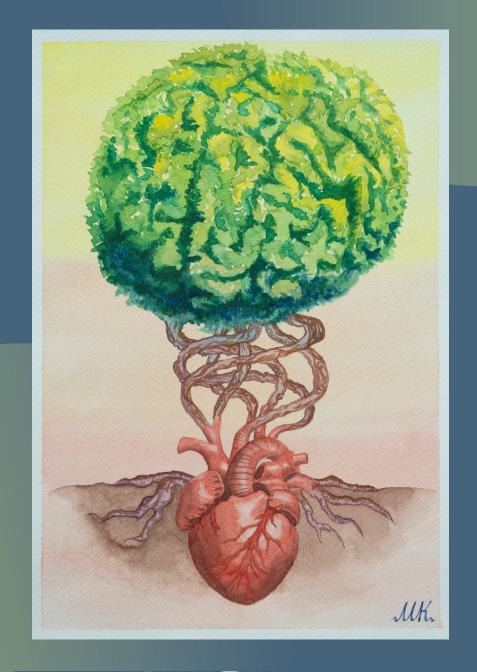


International Society for Autonomic Neuroscience



Cardiac Neurobiology: Concepts to Clinic 23rd-24th July 2024,
Oxford





DEPARTMENT OF PHYSIOLOGY, ANATOMY & GENETICS





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Programme: Tuesday 23rd July 2024

15:00	Registration
16:00	Refreshments
17:00	Optogenetics: opportunities for autonomic neuroscientists Professor Gero Miesenboeck, University of Oxford, UK
	Chaired by Professor David Paterson, University of Oxford, UK
18:00	Drinks Reception

Programme: Wednesday 24th July 2024

08:50	Overview of the day
	Professor David Paterson, University of Oxford, UK
09:00	Session 1: Central Nervous System to Peripheral Nervous System
	Chaired by Professor Andre Ng, University of Leicester, UK and Dr Peter Hanna, University of California, Los Angeles, USA
09:00	Setting the scene for cardiac autonomic neuroscience: challenges and opportunities
	Professor Kalyanam Shivkumar, University of California, Los Angeles, USA
09:45	Autonomic control of the heart during exercise
	Professor Alex Gourine, University College London, UK
10:15	Mechanisms of sympathetic hyperactivity in cardiovascular disease
	Professor Beth Habecker, Oregon Health and Science University, USA
10:45	Sympathetic neural networks and obesity
	Professor Ana Domingos, University of Oxford, UK
11:15	Refreshments

Programme: Wednesday 24th July 2024

11:50	Session 2: Cell-Cell Communication in the Heart
	Chaired by Dr Julia Shanks, University of Auckland, New Zealand and Professor Jack Cheng, University of Central Florida, USA
11:50	Parasympathetic neurons derived from human pluripotent stem cells model human diseases and development Dr Nadja Zeltner, University of Georgia, USA
12:10	Human iPSC derived cardiac myocytes and sympathetic neurons in CPVT Dr Dan Li, University of Oxford, UK
12:30	Central amplification of respiratory sinus arrhythmia: behavioural implications Dr Clement Menuet, Mediterranean Institute of Neurobiology, France
12:50	Neurocardiac aspects of the long QT syndrome Dr Annika Winbo, University of Auckland, New Zealand
13:10	Lunch and networking

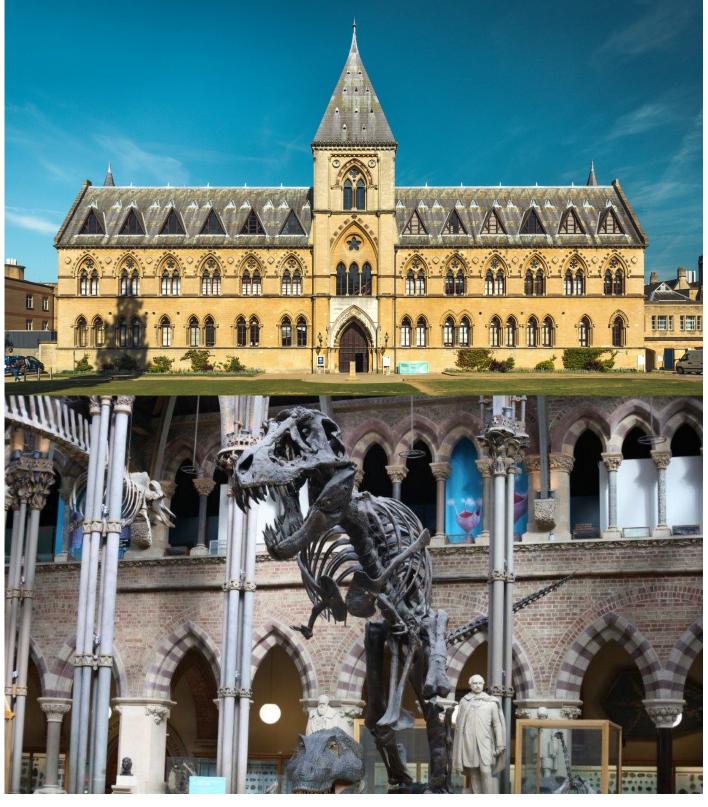
Programme: Wednesday 24th July 2024

14:10	Session 3: The Bridge to Translation: Model Systems
	Chaired by Dr Nadja Zeltner, University of Georgia, USA and Dr Marco Mongillo, Università degli Studi di Padova, Italy
14:10	Mimicking cardiac autonomic variability for therapeutic effective Professor Julian Paton, University of Auckland, New Zealand
14:40	Translational & clinical aspects of sympathetic neural remodeling after cardiac injury Dr Olu Ajijola, University of California, Los Angeles, USA
15:10	Neuralplasticity and its role in atrial fibrillation Professor Johanna Montgomery, University of Auckland, New Zealand
15:40	Cardiac sympathetic neuropathology supports the multicellularity of Arrhythmogenic Cardiomyopathy Dr Tania Zaglia, Università degli Studi di Padova, Italy
16:10	Autonomic neuromodulators as potential biomarkers and therapeutic targets Professor Neil Herring, University of Oxford, UK
16:30	Refreshments

Programme: Wednesday 24th July 2024

17:00	Session 4: Neuromodulation and Target Therapies to the Heart
	Chaired by Professor Igor Efimov, Northwestern University, Illinois, USA and Professor Beth Habecker, Oregon Health and Science University, USA
17:00	The "Research Evaluating Vagal Excitation and Anatomical Links" (REVEAL) study
	Professor John Osborn, University of Minnesota, USA
17:30	Neuromodulation network dynamics in the fast and slow lanes of the cardiac vagus
	Professor Rajanikanth Vadigepalli, Thomas Jefferson University, USA
17:50	Mapping ANS connectivity in the SPARC project
	Professor Sir Peter Hunter, University of Auckland, New Zealand
18:10	Using data-driven insights from the nervous system to build neural digital therapies - the next big trend in precision medicines
	Dr Emil Hewage, BIOS Health Neural Engineering, Cambridge, UK
18:30	End of meeting
19:00	Drinks and Dinner in Oxford University Museum of Natural History





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