International Society for
Autonomic Neuroscience
established 1995
www.autonomicneuroscience.info

ISAN Programme

Thursday 25th July 2024

Time	Session/ Activity	Venue
13:00 – 14:00	**Welcome, Refreshments and Registration**	Great Hall
14:00 – 15:10	**Keynote: Andrew Allen, University of Melbourne, Australia** Vital interactions: Exploring the relationships between respiratory and autonomic neural networks. Sponsor: Elsevier (with an introduction to Autonomic Neuroscience: Basic and Clinical)	Bramall
15:10 – 16:00	**Poster Session 1** **Theme: Basic - Bioelectronic Medicine** **Alberto Esteban-Linares** – A microfabricated Parylene cuff electrode for branched nerve stimulation (P1) **Dzifa Kwaku** – Exploring Hemodynamic Responses to Electrical Stimulation of Renal Nerves: A Potential Therapeutic Approach for Drug-Resistant Hypertension (P2) **Theme: Basic - Cardiovascular** **Aparaajita Bhatnaagar** – Microgravity induced impairment of baroreflex sensitivity in rats is associated with sympathovagal imbalance but not with changes in structure of carotid artery (P5) **Larissa Correa** – Temporal profile of changes in cholinesterase activity induced by Ketamine-Xylazine anaesthesia (P6) **Yu-Wen Dai** – A study of Schwann cells in human and murine heart (P7) **Mohanad Mahdi** – Correlation of staging and risk factors with cardiovascular autonomic neuropathy in patients with type II diabetes mellitus (P8) **Aline Barbosa Ribeiro** – Galectin-3 Inhibitor Modulates Autonomic Nervous System (P9) **Finbar Argus -** A Computation Model of the Postganglionic Sympathetic Neuron for predicting drug response (P10)	Great Hall

	Theme: Basic - Gut and metabolism **Tomoya Sawamura** – Evidence that inhibitory regulation of oxytocinergic neurons to the spinal defecation center is manifested by hindpaw inflammatory pain in rats (P25) **Theme: Basic - Integrative Control** **Joost Wagenar –** Towards sustainable scientific data management solutions in the age of scale and multi-modal data-integration (P29) **Mabelle Lin –** Scaffold Mapping Tools for Mapping Data to Anatomical Scaffolds (P30) **Christian Reynolds –** Exposure to a diet rich in linoleic acid promotes nociceptive hypersensitivity and elevated systemic blood pressure in both spinal-intact and spinalized rats (P31) **Deborah Romeu –** Exploring the connections between C1 and liver-related DMV neurons involved in the autonomic control of glucose homeostasis (P32) **Karla Sampaio –** Volatile and injectable anaesthetics effects on cardiorespiratory and biochemical parameters in rats: enlightening anaesthetic choice according to the outcome studied (P33)	
15:30 – 16:00	**Afternoon Refreshments**	Great Hall
16:00 – 18:00	**Symposium Presentations Session 1:** **Theme: Bioelectronic Medicine** **Symposium Title: Bioelectronic Medicine** *Chairs: Ellis Meng, University of Southern California and Victor Pikov, Medipace Inc* **Daniel Chew, Galvani Bioelectronics** - Recent studies on splenic nerve stimulation in pigs and humans 120 minutes) **Victor Pikov, Medipace** - Inc preliminary data on sacral nerve stimulation in humans to treat colitis (20 minutes) **Jeff Ardell, University of California** – Axonal modulation therapy for bioelectronic treatment of cardiovascular diseases (20 minutes) **Chris Wilson, Loma Linda University** – Saving premature infants from sudden death using vagus nerve stimulation (20 minutes) **Jon Waataja, ReShape Lifesciences** – Bioelectronics for treating diabetes (20 minutes) Selected Abstracts to follow	Bramall

16:00 – 18:00	**Symposium Presentations Session 1:** **Theme: Cardiovascular** **Symposium Title: Central nervous control of blood pressure, brain blood flow, and cognitive health** Chairs: Emma Hart, University of Bristol and Sam Lucas, University of Birmingham **Alex Gourine, University College London** – Regulation of arterial blood pressure by an intracranial baroreceptor (20 minutes) **Fiona McBryde, University of Auckland** – Defending blood flow to the brain in hypertension, diabetes and ischemic stroke (20 minutes) **Emma Hart, University of Bristol** – Cerebrovascular variants and the role of the selfish brain in hypertension (20 minutes) **Sam Lucas, University of Birmingham** – Cerebral blood flow, aging and physiological stress (20 minutes)	G33
16:00 – 18:00	**Symposium Presentations Session 1:** **Theme: Integrative control** **Symposium Title: Brainstem integrator for viscerosensation and autonomic regulation** *Chairs: Andrew M Allen, University of Melbourne and Julian FR Paton, University of Auckland* **Ambre Linossier, Aix-Marseille University** – GABAergic neurons of the pre-Bötzinger complex regulate respiratory sinus arrhythmia and blood pressure via the autonomic nervous system (20 minutes) **Davi Moraes, University of São Paulo** – Medullary parafacial neurons control sympathetic activity and vascular function in physiological and pathophysiological conditions (20 minutes) **Zoe Adams, University of Bristol** – New insights into deep stimulation for correcting autonomic imbalance (20 minutes) **James P Fisher, University of Auckland** – Sympathetic neurocirculatory responses to central chemoreflex activation in human hypertension (20 minutes)	WG5
18:00 – 20:00	**Welcome Reception**	Great Hall