



**BJA Research Forum - Programme  
22<sup>nd</sup> and 23<sup>rd</sup> November 2018**

**Thursday 22<sup>nd</sup> November**

09.30-11.00      **Abstracts -1**

Chair: Dr Angella Bryan, Manchester

**The International Physical Activity Questionnaire and its relationship to performance at Cardiopulmonary Exercise Testing in preoperative patients**

Jonathan L. Dumbrill, Daniel H. Conway, Dougal Atkinson, Angella Bryan, Rachel Powell

**Peak Workload Index during Cardiopulmonary Exercise Testing is better predictor of Length of Hospitalisation than Anaerobic threshold in Liver Transplant Patients**

Katyayani K, Wang Y, Taylor C, Nicholson C, Rigby A, Barber S, Sarma N, Milan Z.

**Do CPET results correlate with a fast track score developed to predict early extubation following liver transplant?**

James Arlidge, Peng Zhuofeng, Nathabalan Prashanth, Joe McMillan, Katyanya Katyaynia, Charles Taylor, Zoka Milan.

**Adding Objectivity to Submaximal Exercise testing by Assessment of heart Rate Recovery – a Healthy volunteer study (SEARCH)**

C Morton, BG Shelley.

**Enhanced extracellular calcium entry in the Malignant Hyperthermia mousemodel expressing the p.G2435R variant of RYR1.**

V Kaura, José R López, MA Shaw, PD Allen, PM Hopkins.

11.00-11.30      Break

11.30-13.00      **Abstracts -2**

Chair: Dr Ben Shelley, Glasgow

**Serum microRNAs and perioperative myocardial injury.**

SM May, TEF Abbott, AG Del Arroyo, BH Cuthbertson, DN Wijeyesundera, RM Pearse<sup>1</sup>, GL Ackland<sup>1</sup>.

**Perioperative plasma cortisol levels and myocardial injury after non-cardiac surgery.**

Manou-Stathopoulou V, Abbott TEF, May SM, Cuthbertson BH, Wijeyesundera DN, Pearse RM, Ackland GL.

**Melatonin increases endorphin production by pituitary cells**

John Chalmers, Lucia di Mascio, Bensita VJ Thottakam, Helen F Galley

**Circadian regulation of macrophage phagocytosis is mediated by a REV-ERB $\alpha$  independent Bmal1/RhoA pathway**

Gareth Kitchen, Thomas Hopwood, Peter Cunningham, Toryn Poolman, Nicola Begley, Andrew Loudon, John Blaikley, David Ray.

**Within subjects analysis of operator performance with and without needle tip tracking tracking during ultrasound-guided sciatic regional nerve block on the soft embalmed Thiel cadaver**

A Taylor, M McKendrick, A Sadler, J Halcrow, P Raju, A Mustafa, J Seeley, G McLeod

13.00-14.00 Lunch (Breakout room for ARS Exec)

14.00-15.45 **BJA Symposium**

**Chair:** Professor Tim Hales, Dundee

**The role of GABA<sub>A</sub> receptor subtypes in the behavioural effects of general anaesthetics.**

Jerry Lambert

Professor of Neuropharmacology, University of Dundee

**Chronic pain – is it predetermined?**

Lesley Colvin

Professor of Pain Medicine, Honorary Consultant in Anaesthesia and Pain Medicine, University of Dundee

**From gene to function: Understanding pathophysiology of life-threatening influenza**

Kenneth Baillie

Wellcome–Beit Fellow, Roslyn Institute, Honorary ICU Consultant Royal Infirmary Edinburgh

15.45-16.15 Break



16.15-17.15      **Abstracts -3**

Chair: Dr Brendan McGrath, Manchester

**Measuring the bias of morphine, oxycodone and buprenorphine for G protein activation versus  $\beta$ -arrestin2 recruitment to the  $\mu$  opioid receptor**

Samuel Singleton, Daniel Baptista-Hon, Fiona Bull and Tim G. Hales.

**Beta-arrestin 2 participates in the exacerbated morphine analgesic tolerance of mice exposed to fragmented maternal care.**

Claire Sneddon, Daniel Baptista-Hon, Jeremy Lambert and Tim Hales.

**Sensory mapping of lumbar facet joint pain**

Kasun D Fernando, Sudhindra Dharmavaram, Saravanakumar Kanakarajan and Helen F Galley

**Construct validation of metrics for translation of regional anaesthesia skills from the soft embalmed cadaver to patients**

A Sadler, M McKendrick, A Taylor, J Halcrow, P Raju, A Mustafa, J Seeley, G McLeod.

17.15-18.15      **Annual General Meeting**

19.30              **Dinner 172atthecairst**



**Friday 23<sup>rd</sup> November**

09.30-11.00      **Abstracts -4**

Chair: Dr Malachy Columb, Manchester

**Interventions to improve communication in mechanically ventilated patients: a review**

S. Talbot, B.A. McGrath.

**Which plasma biomarker may reflect severity of illness in the ICU patients with systemic inflammation?**

K Hirota, M Akaishi, E Hashiba D Takekawa, T Kushikata, M Kudo.

**Is there a relationship between frailty score at ICU admission and adverse-event incidence at one year? A retrospective observational cohort study.**

D Hewitt, M G Booth.

**Melatonin in doctors and nurses working nightshifts- the MIDNIGHT trial**

Bensita MVJ Thottakam, Nigel R Webster, Gary Cameron, Helen F Galley.

**Using computer simulation to explore mechanisms of Right Ventriculo-Arterial un-coupling following lung resection.**

Shafeer Rishad, Brian McKinlay, Philip McCall, Ben Shelley.

11.00-11.30      Break

11.30-12.30      **Guest lecture**

**New Psychoactive Substances**

Prof Niamh Nic Daeid

Director of the Leverhulme Research Centre for Forensic Science

12.30-13.30      Lunch

13.30-13.40      Medal winner award & photos



13.40-15.00      **Abstracts -5**

Chair: Dr Mike Sury, London

**Activation of the mu-opioid receptor by MT-45 and its synthetic and metabolic derivatives**

Mark Smith, Daniel Baptista-Hon, Lysbeth Antonides, Craig McKenzie, Niamh Nic Daeid and Tim G. Hales.

**Roles of presynaptic P/Q- and N-type calcium channels in inhibition of synaptic vesicle exocytosis by isoflurane in rat hippocampal neurones**

HC Hemmings Jr., Y. Koyanagi, C. L. Torturo, D. C. Cook, Z. Zhou.

**Comparison of cerebral autoregulation models in traumatic brain injury**

E Cahya, C Hawthorne, M Shaw.

**Change in arm position alters DC and AC components of photoplethysmogram signals**

C Keogh, G B Drummond.

**End of meeting – home or visit V&A Museum of Design / RSS Discovery**

***Organisers: Tim Hales and Cameron Weir***

***Approved for 11 CPD points by the Royal College of Anaesthetists***