



British Society for Neuroendocrinology (BSN) 2011 Annual Meeting

held in conjunction with the Turkish Neuroendocrine Society

July 3rd – 5th, 2011

Downing College, University of Cambridge

Programme

Sunday July 3rd

2-4pm *Steering committee meeting*

3-5pm Registration

5pm ***Opening Keynote Lecture***

Sex and drugs and sausage roll: the misbehaving brain

Professor Paul Fletcher

*Bernard Wolfe Professor of Health Neuroscience, Department of Psychiatry, Brain Mapping Unit,
University of Cambridge*

6pm *Welcome reception*

6.45pm ***Data Blitz***

Micro presentations for Poster session #1 – see page 4 for details

7.30pm *Dinner, Dining Hall*

Monday July 4th

8.30am Registration – Howard Theatre

9am **First symposium**

Dopaminergic and non-dopaminergic signalling in the brain reward circuitry: relevance to food and drug addiction

Dr Jeff Dalley, *University of Cambridge*

Daily rhythms in lean overweight and type 2 diabetic human subjects.

Dr Jon Johnston, *University of Surrey*

Metabolic oscillations in the circadian clockwork

Dr Akhilesh Reddy, *University of Cambridge*

The properties and network activity of neurones in the rat ventromedial nucleus of the hypothalamus *in vivo*

Dr Nancy Sabatier, *University of Edinburgh*

The structure of motivation and decision systems

Dr Ben Seymour, *University College London*

11.05am Coffee

11.30am **Poster session #1** (Odd numbers - Marquee)

1pm Lunch

2pm **Short oral presentations selected from abstracts**

Brief prenatal exposure to the synthetic glucocorticoid dexamethasone suppresses naturally occurring postnatal cell death in the midbrain dopaminergic nuclei (P46)

Dr Simon McArthur, *Imperial College, London*

Telencephalic distribution of oxytocin and vasopressin and their binding sites in Damaraland mole-rats: implications for eusocial behaviour (P19)

Ms Shuzhi Zhou, *King's College, London*

Effects of melatonin and memantine on brain injury and intracellular signaling: roles of AKT p38 p21 and ERK1/2 phosphorylation (P30)

Ms Sinem Eyuboglu, *Yeditepe, Istanbul, Turkey*

Neuropeptide-directed long-term neuronal silencing (P22)

Dr Bazbek Davletov, *MRC Laboratory of Molecular Biology, Cambridge*

3pm **BSN Annual Award Lecture**

Pituitary Dysfunction Due to Traumatic Brain Injury

Prof Fahrettin Kelestimur

Chairman of the Department of Endocrinology and Rector of Erciyes University, Turkey

4pm Coffee

4.20pm **Data Blitz**

Micro presentations for Poster session #2 – see page 5 for details

5pm-6pm **Annual General Meeting – Howard Theatre**

7.30pm *Conference Banquet – Dining Hall*

9-11pm *Live entertainment – Howard Building*

Tuesday July 5th

8.30am *Registration – Howard Theatre*

9am ***Mick Harbuz Lecture***

Impaired 5-HT_{2CR} mediated anorexia in a mouse model of Prader-Willi Syndrome
Dr Al Garfield, University of Cambridge

9.30am ***Second Symposium***

Dynamic adrenal steroidogenesis: dependence on an ultradian ACTH rhythm

Dr Francesca Spiga, University of Bristol

Neuroendocrine Regulation of Stress-induced Inflammation

Prof Berrak Yegan, Istanbul, Turkey

10.20 am *Coffee*

10.40am ***Second Symposium - continued***

Ovarian-cycle-linked changes in semaphorin 3A signalling controls GnRH axon plasticity in the hypothalamus

Dr Vincent Prevot, University of Lille

Neurokinin B signaling in human puberty

Dr Kemal Topaloglu, Adana, Turkey

Short oral presentations selected from abstracts

Ultradian corticosterone secretion is maintained in the absence of circadian cues (P66)

Dr Eleanor Waite, University of Bristol

11.45am ***Poster session #2*** (Even numbers - Marquee)

1pm *Lunch*

2pm ***Third Symposium***

Hypothalamic GPR50 modulates leptin signaling and adaptive thermogenesis

Dr David Bechtold, University of Manchester

Regulation of orexin/hypocretin neurons by nutrients

Dr Denis Burdakov, University of Cambridge

Gut hormones: the cure for obesity?

Dr Kevin Murphy, Imperial College, London

Short oral presentations selected from abstracts

Leptin does not meaningfully modulate serotonin neurons to influence appetite (P35)

Dr Lora Heisler, University of Cambridge

Changes in the intensity of maternal aggression and central oxytocin and vasopressin V1a receptors across the peripartum period in the rat (P47)

Dr Simone Meddle, University of Edinburgh

4pm *Prize giving*

End of meeting.

*** Data Blitz Presentations**

Data Blitz Session # 1 July 3rd 6.45pm – 7.30pm

- P11 The central WNT/ β -catenin pathway is essential for glucose homeostasis in mice
Jonas Benzler
- P13 5 α -reduced steroids reverse early life programming of neuroendocrine stress responses in rats
Paula Brunton
- P17 Pituitary phenotypes of mice lacking the Notch ligand Dlk1
Leonard Cheung
- P29 The Effect of Relaxing Music on Reproductive Performance in Mouse
Seref Erdogan
- P33 Neurokinin B acts upstream of Kisspeptin and Dynorphin A to suppress the gonadotrophin-releasing hormone pulse generator in the female rat
Pasha Grachev
- P39 The dietary flavonoids naringenin and quercetin acutely impair glucose metabolism in rodents possibly *via* hypothalamic insulin signaling
Christiane Koch
- P43 The role of GABAergic signalling in stress-induced suppression of GnRH pulse generator frequency in female rats
Yuan Shao Lin
- P49 Effects of fibroblast growth factor 21 administration on energy balance in a seasonal rodent
Michelle Murphy
- P57 The Gut Hormones PYY and GLP-1 Reduce Food Intake and Brain Activation in Appetite Centres in Humans
Victoria Salem
- P59 Does increased accessibility of the arcuate nucleus to plasma prolactin facilitate prolactin-induced cell signalling in this area?
Tony Sapsford
- P61 Effects of Chronic Central Administration of Apelin-13 on Food and Water Intake and Body Weight in Male Rats
Fatma Burcu Seker

Data Blitz Session # 2 July 4th 4.20pm – 5.00pm

P6 Effect of scheduled feeding on palatable diets without restriction on energy balance signalling in the mouse

Tina Bake

P7 Maternal diet affects the ageing trajectory: A microarray approach

Sarah Barnes

P14 Long-term effects of postnatal light environment on tyrosine hydroxylase distribution and activation

Maria Canal

P20 Enteric Neurons and Systemic Signals Couple Nutritional and Reproductive State with Intestinal Homeostasis

Paola Cognigni

P36 A single injection of kisspeptin-54 stimulates LH pulse amplitude and pulse frequency in healthy women

Channa Jayasena

P44 Using a network model to explain oscillatory spike firing patterns in the ventro-medial nucleus

Duncan MacGregor

P58 Effects of Chronic Intracerebroventricular Infusion of Apelin-13 on Hypothalamo-Hypophyseal-Testicular Axis in Rats

Suleyman Sandal

P64 Cognitive dysfunction in amateur boxers and kickboxers with growth hormone deficiency due to sports related head trauma: An electrophysiological evidence

Fatih Tanriverdi

P68 Projections of arcuate nucleus and rostral periventricular kisspeptin neurons in the adult female mouse brain

Shel Hwa Yeo