

Posters: Instructions for authors

The poster sessions will be held in the Hugh Robson Building Library (first floor). Poster Session I takes place between 11.40-12.45 on Monday 29th June. Poster Session II takes place between 11.00-12.15 on Tuesday 30th June. A list of abstracts accepted for the poster sessions is given below. Posters for Monday's session are prefixed 'M', posters for Tuesday's session are prefixed 'T'.

Please mount your poster before 9am on the morning of your poster session and leave it in place until the end of the day. Presenting authors should be in attendance during the session. Unclaimed posters will be kept at the Hugh Robson Building reception until the end of the meeting.

Poster boards are in landscape format (118 cm wide x 85 cm high; approximately A0 size). Pins will be provided. Whiteboards and pens will also be available.

Posters

Monday 29th June

Obesity and Metabolism

M1 Profiling the metabolic clearance and enzymatic degradation of the gut hormone Peptide YY as a tool to design long-acting PYY3-36 analogues in treating obesity

Addison ML, Thompson EL, Minnion JS, Murphy KG, Ghourab S, Hostomska K, Tan T, Ghatei MA, Bloom SR

M2 CART has a physiological catabolic role in energy homeostasis in the hypothalamic arcuate nucleus

Campbell DC, Cooke JH, Smith KL, Bewick GA, Gardiner JV, Patel NA, Bloom SR, Murphy KG

M3 A role for neuromedin S in the regulation of energy balance and the hypothalamo-pituitary-adrenal axis

Smith KL, Semjonous NM, Patel SR, Chee MJ, Murphy KG, Campbell DC, Simpson KA, Colmers WF, Ghatei MA, Bloom SR

M4 Cerebellin1 is a novel orexigenic factor which potently increases food intake via hypothalamic neuropeptide Y release

Roy D, Dhillon WS, Gardiner JV, Bataveljic A, Campbell DC, Patel NA, Patterson M, Ghatei MA, Bloom SR

M5 The effect of dietary l-leucine on food intake and body weight regulation of rodents

Güddeke S, Koch C, Ganjam GK, Tups A

M6 Central leptin action acutely ameliorates diabetes mellitus II symptoms possibly via p110 alpha and beta signalling of the phosphatidylinositol 3- kinase (Pi3K)

Koch C, Anderson GM, Augustine RA, Grattan DR, Tups A

M7 GABA release from the rat arcuate nucleus is modulated by cannabinoid receptor activation *in vitro*

Menzies JRW, Ludwig M, Leng G

M8 Prokineticin 2 potently inhibits food intake in rodents via the arcuate melanocortin system and is a potential new target for the development of anti-obesity agents

Patel NA, Bataveljic A, Gardiner JV, Bewick GA, Roy D, Cooke JH, Campbell DC, Murphy KG, Hameed S, Maleuwe Tantrige P, Prosser HM, Jethwa PH, Ebling FJ, Vickers SP, Cheetham S, Ghatei MA, Bloom SR, Dhillon WS

M9 Mice with hyperghrelinemia are hyperphagic, glucose intolerant and have reduced leptin sensitivity

Bewick GA, Kent A, Campbell D, Patterson M, Ghatei M, Bloom SR, Gardiner JV

Reproduction

M10 Voluntary exercise at the expense of reproductive success in *Phodopus sungorus*

Petri I, Scherbarth F, Steinlechner S

M11 A comparative study of the roles of neurokinin B (NKB) and kisspeptin in sexual maturation and gonadotropin secretion

Corander MP, Challis BG, Thompson EL, Murphy KG, Rimmington D, Tung LYC, Jovanovic Z, Huhtaniemi IT, Yeo GSH, O'Rahilly S, Dhillon WS, Semple RK, Coll AP

M12 Organisational role for pubertal androgens on adult hypothalamic-pituitary-adrenal sensitivity to testosterone in the male rat

Evuarherhe O, Leggett J, Waite E, Kershaw Y, Atkinson H, Lightman S

M13 Ovine pituitary TSH regulates photoperiodic control of reproduction via a retrograde mechanism

Hanon EA, Lincoln G, Fustin JM, Masson-Pévet M, Morgan PJ, Hazlerigg DG

M14 Regulation of the ovarian estradiol secretion rate by superior ovarian nerve in rats

Kagitani F, Uchida S, Hotta H

M15 Long term effects of environmental EDC exposure during development on adult ovine pituitary KiSS-1 mRNA expression

Bellingham M, Fowler PA, Sharpe RM, Amezaga MR, Mandon-Pepin B, Cotinot C, Rhind SM, Evans NP

Cellular Neuroendocrinology

M16 Regulation of supraoptic nucleus (SON) oxytocin neurones by leptin and secretin in female rats

Velmurugan S, Leng G, Russell JA

M17 Oscillatory firing patterns in a subpopulation of neurones in the ventromedial nucleus of the hypothalamus *in vivo*

Sabatier N, Leng G

M18 Effects of vasopressin on rat olfactory bulb mitral cell activity

Hashimoto H, Leng G, Ludwig M

M19 Expression of vasopressin V1A and V1B receptors in the rat olfactory bulb

Tobin V, Ludwig M

Circadian/Seasonal Neuroendocrinology

M20 Are there really daily rhythms of neural activity in the hypothalamus?

Bhumbra GS, Dyball REJ

M21 Defining the photoperiod requirement for expression of a circannual prolactin rhythm in HPD sheep

Lincoln GA, Carter E, Hut RA, Hazlerigg DG

M22 DmpARC neurons are activated by short day photoperiod in the brain of Siberian hamsters

Barrett P, Van den Top M, Wilson D, Song CK, Bartness TJ, Mercer JG, Morgan PJ, Spanswick DC

Stress

M23 Iatrogenic Hypothalamic-Pituitary-Adrenal Axis suppression - a cautionary tale

Al-Shakerchi H, John L

M24 Oxygen consumption in prolactin-releasing peptide-deficient mice during stressful stimuli

Onaka T, Takayanagi Y

M25 The role of CART in regulation of norepinephrinergic brain neurons during stress in rats

Belova VA, Artamokhina IV, Mikhrina AL, Romanova IV

M26 5 α -reduced steroids reverse exaggerated HPA axis responses to acute stress in male and female rats programmed by prenatal social stress

Brunton PJ, Russell JA

M27 Control of basal and stress-induced prolactin secretion in early pregnancy

Parker VJ, Douglas AJ

M28 Effects of corticotrophin-releasing factor on pubertal development in the female rat

Kinsey-Jones JS, Li XF, Knox AMI, Milligan S, Lightman SL, O'Byrne KT

M29 Delayed puberty and altered hypothalamic kiss1 and kiss1r mRNA expression due to neonatal LPS exposure in the female rat

Knox AMI, Li XF, Kinsey-Jones JS, Wu XQ, Milligan SR, Lightman SL, O'Byrne KT

M30 Neuromodulatory role of nociceptin in amygdala neuroplasticity: relevance to stress and anxiety

Fulford AJ, Bortolotto ZA

Tuesday 30th June

Obesity and Metabolism

T1 Biology of leptin in the axolotl: a case study in the evolution of gene function

Gackowska A, Boswell T

T2 Altered regulation of plasma corticosterone in rats fed a daily meal high in saturated fat

Namvar S, Gyte A, Myatt J, Leighton B, Piggins H

T3 The identification of leptin-regulated genes in the arcuate nucleus of the murine hypothalamus

Jovanovic Z, Tung LYC, O'Rahilly S, Yeo GSH

T4 Short day-induced weight loss in Siberian hamsters overexpressing the gene encoding Agouti-related peptide (AgRP)

Warner A, Jethwa PH, Fowler M, de Backer MW, Adan RA, Barrett P, Brameld JM, Ebling FJP

T5 Functional magnetic resonance imaging and c-Fos mapping in rats following a glucoprivic dose of 2-deoxy-D-glucose

Dodd GT, Williams SR, Luckman SM

T6 Central cannabinoid signaling in the rat: a pharmacological-challenge MRI and functional histology study

Dodd GT, Stark JA, Williams SR, Luckman SM

T7 Blood-brain leptin signalling is impaired in obese sheep

Adam CL, Findlay PA

T8 Orexin A activates calcium signalling in GT1-7 cells

Kelestimur H, Ayar A, Ozcan M, Yilmaz B, Kilic E, Alcin E

T9 Central Y5 receptor blockade differentially affect hypothalamic-pituitary-thyroid axis of fed or fasted rats

Costa-e-Sousa RH, Souza LL, Moraes CC, Cabanelas A, Almeida NAS, Pazos-Moura CC

T10 Refeeding induces a rapid activation of hypothalamic-pituitary-thyroid (HPT) axis in rats

Costa-e-Sousa RH, Souza LL, Moraes CC, Cabanelas A, Almeida NAS, Oliveira KJ, Pazos-Moura CC

T11 Lactation-induced suppression of kisspeptin in the arcuate nucleus does not reverse with restoration of luteinising hormone

Ladyman SR, Woodside BC

T12 Behaviour and LH profiles of intact ewes treated with insulin or endotoxin

Fergani C, Kadir S, Routly JE, Jones DN, Smith RF, Dobson H

T13 Kisspeptin is present presynaptically in the rat arcuate nucleus and modulates neuronal activity at that site

Kallo I, Inyushkin AN, Deli L, Kalamatianos T, Soga T, Parhar I, Mikkelsen JD, Liposits Z, Dyball REJ, Coen CW

T14 Dynamic alterations in ovarian endocrine/sympathetic activities during cold stress-induced polycystic ovary in rats

Bernuci MP, Leite CM, Leoni GB, Szawka RE, Anselmo-Franci JA

T15 The effects of kisspeptin administration to infertile women with hypothalamic amenorrhoea

Jayasena CN, Nijher GK, Chaudhri OB, Murphy KG, Ranger A, Lim A, Patel DA, Mehta A, Todd C, Ramachandran R, Salem V, Stamp GW, Donaldson M, Ghatei MA, Bloom SR, Dhillon WS

T16 Effects on the pituitary of chronic treatment with the GnRH agonist deslorelin

Smith Arik, Asa CS, Skinner DC

Cellular Neuroendocrinology

T17 Pulse application of endogenous corticosteroid ligands generates distinct waves of glucocorticoid receptor recruitment to responsive gene promoters *in vitro* and *in vivo*

Pooley JR, McKenna MA, Knight DM, Leggett JD, Conway-Campbell BL, Lightman SL

T18 Effects of dietary flavonoids on insulin signalling

Ganjam GK, Krüger M, Tups A

T19 Novel kisspeptin antagonists reveal mechanism of kisspeptin regulation of gonadotropin

Roseweir A, Kauffman A, Smith J, Guerriero K, Morgan K, Pielecka-Fortuna J, Pineda R, Gottsch ML, Tena-Sempere M, Moenter SM, Terasawa E, Clarke I, Steiner RA, Millar R

T20 Osmotic modulation of kappa-opioid inhibition of vasopressin neurons

Scott V, Bishop VR, Leng G, Brown CH

T21 Mitosis rates in progenitor cells of the dentate gyrus in the adult rat: synergistic actions between serotonin and DHEA and the role of BDNF and CREB

Pinnock SB, Blake AM, Platt NJ, Herbert J

Behavioural Neuroendocrinology

T22 Involvement of APJ in the neuroendocrine responses to osmotic stimulation by water deprivation and salt loading in mice

Roberts EM, Pope GR, O'Carroll A-M

T23 Seasonal regulation of aromatase and androgen receptor expression in brain regions associated with social behaviour in the free-living male song sparrow *Melospiza melodia morphna*

Wacker DW, Wingfield JC, Davis JE, Meddle SL

T24 Acute sex hormone manipulations improve spacial performance and increase hippocampal mRNA expression in the zebra finch

Haggis OC, Meddle SL, Clayton N, Healy S

T25 Maternal aggression increases immediate early gene expression (c-fos) in oxytocin receptor expressing cells in the rat brain

Caughey SD, Bishop VR, Meddle SL

T26 Sex, anxiety and editing of 5-HT_{2C} receptors

Bombail V, Chapman KE, Holmes MC

T27 Investigation of AgRP/CART balance in hypothalamus of obese Agouti yellow mice
Romanova IV, Mikhrina AL, Belova VA, Artamokhina IV

T28 Immunohistochemical study interactions of CART- and dopaminergic brain neurons in dopamine deficit
Artamokhina IV, Belova VA, Romanova IV