



Hypothalamic Neuroscience and Neuroendocrinology Australasia Symposium (ANS Satellite)

Program Schedule

8:00-8:25 am - Registration

8:25-8:30 am - Introduction and welcome (Dave Grattan)

Plenary 1 8:30-9:20 am: Yeka Aponte (NIH, USA)

Glutamatergic fast-spiking parvalbumin neurons in the lateral hypothalamus regulate feeding

Morning Session – (Chair Chris Dayas)

9:20-9:40 am Jenny Clarkson (University of Otago)
Optogenetic inhibition of the LH pulse generator

9:40-10:00 am Zhi Yi Ong (UNSW)
Paraventricular thalamic control of food intake and reward: role of glucagon-like peptide-1 receptor signalling

10:00-10:20 am Jean-Paul Fuller-Jackson (Monash University)
The effects of diet and exercise on metabolic thermoregulation

10:20-10:40 am Sharon Ladyman (University of Otago)
Conditional deletion of prolactin receptors in the brain affects running wheel behaviour during pregnancy

Morning tea 10:40-11:00 am

Brunch Session: (Chair Sarah Spencer)

11:00-11:20 am Femke Buisman-Pijlman (University of Adelaide)
Oxytocin and addiction

11:20-11:40 am Phillip Ryan (Florey)
Oxytocin and the neural circuitry of fluid intake

11:40-12:00 pm Eulalia Coutinho (University of Otago)
ARC NPY neurons and fertility: a role in LH pulsatility



- 12:00-12:20 pm Xin Du (Monash University) Regulation of the HPG-axis in relation to cognition
- 12:20-12:40 pm Alex Reichenbach (Monash University)
Adaption to calorie restriction requires appropriate nutrient sensing in AgRP neurons
- 12.40-13:00pm Rachael Augustine (University of Otago)
Hormonal regulation of magnocellular oxytocin neurons during pregnancy

Lunch 13:00pm-14:00

Afternoon Session (Chair Karl Iremonger)

- 14.00-14:20 pm Kenny Ip (Garvan)
Central amygdala NPY signalling facilitates the development of stress-induced obesity
- 14:20-14:40 pm Simone De Luca (RMIT)
A role for microglia in regulating feeding behavior and weight
- 14:40-15:00 pm Joe Yip (University of Otago)
Neuronal spine density changes on tuberoinfundibular dopaminergic neurons associated with estrous cycle and lactation
- 15:00-15:20 pm Jiann Yeoh (University of Newcastle)
Group 3 metabotropic glutamate receptors: a potential therapeutic target to reverse cocaine-induced excitatory drive onto the orexin/hypocretin neurons
- 15.20-15:40 pm Anica Klockars (University of Waikato)
Hypothalamic and neuroendocrine integration of anorexigenic effects of dietary and circulating tryptophan
- 15:40-16:00 pm Mauro Silva (University of Otago)
Untangling the role of the arc nucleus GABA neurons in fertility

Tea break 16:00 -16:40 (Include discussion about future HNNA plans)

Plenary 2 16:40-17:30 pm Gavan McNally (University of New South Wales)

Lateral hypothalamus and the neurobiology of addiction