

## **DEPARTMENT OF PHYSIOLOGY SCHOOL OF BIOMEDICAL SCIENCES**

A Postdoctoral Fellowship position is available to undertake brain slice electrophysiological and calcium imaging studies of GnRH and kisspeptin neuronal phenotypes in different genetic mouse models.

### **The Role**

Experiments will involve patch-clamp electrophysiological recordings and GCaMP6 imaging associated with various optogenetic manipulations. Studies aim to elucidate the roles of specific neural populations in regulating fertility. These investigations are supported by grants awarded to Dr. Rebecca Campbell and Prof. Allan Herbison by the New Zealand Health Research Council and Marsden Fund. Recent relevant publications are :

- Moore et al., Enhancement of a robust arcuate GABAergic input to GnRH neurons in a model of polycystic ovarian syndrome. PNAS, 112, 596-601 (2015)
- Han et al., Selective optogenetic activation of arcuate kisspeptin neurons generates pulsatile luteinizing hormone secretion. PNAS 112, 13109-13114 (2015)

### **Your Skills and Experience**

You will have substantial expertise in brain slice electrophysiology. Prior experience with calcium imaging and optical manipulations of neural function would be an advantage.

### **Further Details**

Work will be undertaken within the University of Otago Centre for Neuroendocrinology. The position is full-time, fixed-term for two years and available immediately.

Specific enquiries should be directed to Prof. Allan Herbison (email [allan.herbison@otago.ac.nz](mailto:allan.herbison@otago.ac.nz)<<mailto:allan.herbison@otago.ac.nz>>, ph 03 479 7312) or Dr. Rebecca Campbell (email [rebecca.campbell@otago.ac.nz](mailto:rebecca.campbell@otago.ac.nz)<<mailto:rebecca.campbell@otago.ac.nz>>, email 03 479 7343), Centre for Neuroendocrinology and Department of Physiology. Applications close on Monday 22 May 2017.

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