

Department of Biomedical Sciences presents a seminar on Neuroscience

# *Synaptic micro-circuitry underlying auditory cortical function*

By

**Prof. Zhang Li**

*Associate Professor in Physiology and Biophysics*

*Zilkha Neurogenetic Institute*

*Keck School of Medicine*

*University of Southern California, USA*

---

**Date:** 22 April 2014 (Tuesday)  
**Time:** 9:00 am – 10:00 am  
**Venue:** Room 2513, Academic 2  
City University of Hong Kong  
Tat Chee Avenue, Kowloon Tong

## ***Abstract:***

A key for comprehending how information is processed in the brain's cortex is to unravel the dauntingly complex cortical neural circuitry. Recent technical innovations, e.g. in vivo whole-cell recording, optogenetics, and two-photon imaging, make it possible to directly dissect the excitatory and inhibitory inputs underlying an individual cortical neuron's processing function. As complex circuits can be built upon elementary modules, the primary focus of our study is to identify elementary synaptic circuits underlying specific laminar processing of auditory information in the auditory cortex. Here, I will introduce our strategy and summarize our recent studies on resolving the structure of functional synaptic circuits.

Contact: Prof. He Jufang (3442-7042, [jufanghe@cityu.edu.hk](mailto:jufanghe@cityu.edu.hk))

~ All are Welcome ~