

City University of Hong Kong
Department of Biomedical Sciences
presents a seminar



“NEURONAL AND RECEPTOR BASIS OF SALICYLATE-INDUCED PHANTOM AUDITORY SENSATION”

by

Prof Lin CHEN
Auditory Research Laboratory,
University of Science and Technology of China

Date: 5 August 2016 (Friday)

Time: 2:00pm to 3:30pm

Venue: Meeting room 2-130, 1/F, Block 2, To Yuen Building, CityU

Abstract

Tinnitus is a phantom auditory sensation in the absence of an external sound and is a very prevalent auditory disorder that affects the quality of life of millions of people. A high dose of salicylate, an active metabolite of aspirin, can reliably induce tinnitus in animals and human subjects. Much evidence suggests that salicylate-induced tinnitus has an origin from the central nervous systems. The ongoing research of our laboratory focuses on the neural mechanisms underlying salicylate-induced tinnitus. Specifically, we use brain slices and patch-clamping techniques to explore how salicylate targets the central auditory nuclei at cellular and receptor levels. We found that salicylate has a broad spectrum of pharmacological actions on the neurons and the membrane receptors. More importantly, these actions are brain-region dependent and disturb balance between inhibition and excitation of the neural circuits, which is implicated in the generation of tinnitus from the central areas of the brain.

Contact

Prof Jufang HE (3442-7042, jufanghe@cityu.edu.hk)

Mr Henry CHAN (3442-4438, henry.ch.chan@cityu.edu.hk)

All are welcome