



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY
Division of Life Science

Seminar Notice

“Protein Translocation Channel in Action”

by

Dr. Long LI
Postdoctoral Research Fellow
Harvard Medical School, USA
(Faculty Candidate)

Abstract

As a decisive step in the secretory pathway, protein translocation has been studied extensively for over 30 years. However, some of the fundamental questions remained unsolved, e.g. how highly diverse signal sequences of secretory proteins are recognized by the protein translocation channel and how protein translocation is driven by ATP hydrolysis. To answer these questions, I developed an *in vivo* system to assemble a translocation machinery that consisted of all three components required for protein translocation, the SecY channel, the SecA ATPase motor, and a peptide substrate that is being translocated. I determined the crystal structure of the machinery. The study uncovered a universal recognition mechanism of signal sequences.

Date : 17 March 2017 (Friday)

Time : 4:00 p.m.

Venue : Lecture Theatre C

The Hong Kong University of Science & Technology
Clear Water Bay, Kowloon

(Host faculty: Prof. Randy Poon/Prof. Bik Tye)

ALL ARE WELCOME!!