



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

LIFS Seminar Series

**Dynein-driven vesicular transport in
epithelial cells and neuronal dendrites**

by

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Abstract

Molecular motor-driven vesicular transport is vitally important for intracellular compartmentalization and dynamics. The dynein–dynactin motor complex moves along the microtubule track and drives transport of a wide variety of vesicular cargoes towards the minus ends of microtubules. We aim to understand mechanisms underlying spatiotemporal regulation of dynein-driven transport in mammalian cells. We have also established conditional knockout mouse lines to investigate physiological functions of vesicular transport in the central nervous system. In this seminar, I will present our findings on the molecular mechanisms for cargo recognition and release by the dynein motor in retrograde transport from the cell periphery to the center. I will also discuss our most recent progress in identification of a physiological dynein cargo in dendrites of excitatory neurons.

Date : **21 April 2017 (Friday)**
Time : **4:00 p.m.**
Venue : **Padma and Hari Harilela Lecture Theater (LT-C)**

(Host faculty: Prof. Yusong Guo)

All are Welcome!!