

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



“REGULATION OF THE AUTOPHAGY-LYSOSOME PATHWAY IN CANCER CELL BIOLOGY”

By

Dr. Shen Han-Ming

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Date : 11 December 2015

Time: 11am to 12.30pm

Venue: Room 2-130, 1/F, Block 2, To Yuen Building, City University of Hong Kong, Kowloon Tong

Abstract

Autophagy is an evolutionarily well-conserved process in which the cellular components including damaged organelles are engulfed in auto-phagosome and eventually delivered to lysosome for degradation. It has been well-studied that autophagy is closely implicated in many diseases such as cancer. In cancer cells under stress, autophagy generally serves as a pro-survival mechanism. Therefore, suppression of the autophagy-lysosome pathway becomes an attractive strategy in developing novel therapeutic approaches. In this presentation, Dr. Shen will discuss his team's recent work on (i) novel regulatory function of mTORC1 on lysosome, (ii) changes of lysosomal function in cells under therapeutic stress, including treatments with histone deacetylase inhibitors (HDACIs); and (iii) post-translational modification of TFEB, the master transcriptional factor in lysosome biogenesis and autophagy. Collectively, his team's findings reveal novel insights into the molecular mechanisms that regulate the autophagy-lysosome pathway and support the development of novel cancer therapeutic strategies via targeting autophagy-lysosome.

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All are welcome