



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

LIFS Seminar Series

**“Innate Cellular Defense against
Intracellular Virus Infection”**

by

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Abstract

Mammalian cells are equipped with two distinct innate immune machineries that detect viral infections; extracellular viral nucleic acids are recognized by Toll-like receptors (TLRs) in the endosome, while intracellular nucleic acids are recognized by the RIG-I-like receptors (RLRs) in the cytoplasm. Activated RIG-I is translocated into the mitochondria and initiates a signaling cascade that activates anti-viral response. As results, it induces various inflammatory cytokines, including type I interferons (IFNs). We are specifically interested in the feedback regulation of cytosolic RIG-I-like Receptor-IFN signaling pathways that sense intracellular virus infection, and the IFN stimulated anti-viral cellular responses that clear infection. In this talk, I will present two independent ways that combat viral infection, one with the interferon-inducible ER protein via autophagy, and the other with a novel interferon-inducible proteoglycan protein of anti-viral potential.

Date : **8 June 2018 (Friday)**

Time : **4:00 p.m.**

Venue : **Lecture Theatre D**
The Hong Kong University of Science &
Technology
Clear Water Bay, Kowloon

(Host faculty: Dr. Hyokeun Park)

All are Welcome!!