For Favour of Posting

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

LIFS Seminar Series

Understanding biological effects of nanomaterials in vivo: role of exposure route and surface stabilizers

by

Prof. Wing-Hin Kevin KWOK

Department of Applied Biology & Chemical Technology
The Hong Kong Polytechnic University

Abstract:

Development of nanotechnology has led to numerous exploration on its biomedical applications, including drug delivery, antimicrobial agents, food supplements, specialized coating and so on. These applications rely on biological effects of nanomaterials. To date, our knowledge on interactions of nanomaterials and biological systems were lacking as most studies were focusing on a single nanomaterial on mostly *in vitro* systems. These studies offer little insight into many crucial biological events in the whole organism, most importantly the connection between exposure route, uptake and the subsequent biological effect. Moreover, surface stabilizers are often used for nanomaterials to enhance their stability but their influence on biological effects are not well studied. In this seminar, studies on silver and selenium nanoparticles will be presented to illustrate how exposure route and surface stabilizers can influence subsequent biological effect and toxicity of nanomaterials.

Date : 13 April 2018 (Friday)

Time : 4:00 p.m.

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

(Host faculty: Prof. Karen Chan)

All are Welcome!!