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Department of Physics
SEMINAR

Nanoparticle-Based Drug Delivery Systems: Therapeutic Potentials and Challenges

by

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Place: Rm. 311, Science Centre North Block, CUHK

ALL INTERESTED ARE WELCOME

Abstract

While extensive research has indicated the merits of the nanoparticles-based drug delivery systems, successful translation of these systems from bench to bedside remain sparse. In this presentation, we begin with a brief overview of the therapeutic potentials of nanoparticles, followed by an in-depth discussion on the challenges for commercializing nanodrug products. Novel designs of nanoparticles for various drug delivery purposes will also be highlighted. It is believed a combined understanding on the nanoparticle preparation, characterization and specific mechanism of drug delivery to targeted site will lead to the development of more sophisticated nanodrug products.

Biography:

Professor Aviva Chow currently is an Assistant Professor in the Department of Pharmacology and Pharmacy at HKU. His research expertise are material engineering and formulation design of drug molecules. He received his Bachelor degree in Chemical and Bioproduct Engineering and PhD in Pharmacy from HKUST and CUHK, respectively. Prior to joining the HKU, he worked as a technical lead at Jacobson Pharma Corporation Limited. He is also one of the principal investigators in Advanced Biomedical Instrumentation Centre (ABIC) funded by ITC InnoHK Programme. He has published over 30 research papers in the fields of nanotechnology and crystal engineering, and received several grants from Hong Kong government and local companies.

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