The Singapore Bioimaging Consortium (SBIC)
presents a seminar

on

"Functional Nanoparticles for Molecular Imaging and Drug Delivery"

Speaker: **Xu Chenjie**
Assistant Professor, Division of Bioengineering
School of Chemical & Biomedical Engineering
NTU

Date : Wednesday, 27 Feb 2013
Time : 2.00pm – 3.00pm
Venue : SBIC Seminar Room, 11 Biopolis Way
Level 2, Helios Building
Singapore 138667
(Please use Level 1 entrance)

Abstract

Since Richard Feynman introduced the concept of "nanotechnology" in 1959, nanomaterial based nanotechnology has provided numerous opportunities to address the unmet needs in various fields including the biomedical applications. Despite significant achievements (e.g. the preparation of nanoparticles with unique physical properties) made in last 50 years, one of the remaining challenges for biomedical applications is to make the innovated nanomaterials compatible with biological systems, and then to link them with the specific biomedical questions they are interested in. Dr Xu Chenjie will discuss his experience in utilizing chemical strategies to address this challenge, aimed at providing novel diagnostic and therapeutic platforms. Specifically, he will focus on the engineering of functional nanoparticles with potential applications in molecular imaging and drug delivery.

About the Speaker

Dr Xu received his B.Sc. degree in Department of Intensive Instruction of Nanjing University (2002), and M.Phil. degree from Hong Kong University of Science & Technology (2004). During his internship at Stanford (2005), he invented the self-illuminating quantum dots. In 2009, he acquired his PhD from Brown University under the mentoring of Professor Sun Shouheng, focusing on biomedical applications of novel platforms of magnetic nanoparticles. From 2009-2012, he was a Research Associate with Prof Jeffrey M. Karp at Harvard-MIT HST in the field of stem cell engineering and drug delivery. Dr Xu was the recipient of Thousand Young

Talents Program of China (2012), Joukowsky Outstanding Dissertation Prize and Potter Prize at Brown University (2009). Dr Xu's main field of research is the biomedical application of functional nanoparticles. More specifically, he is interested in realizing the early detection, diagnosis, and cost-effective treatment of major diseases at Asia with nanoparticle-related nanotechnology. He has published 27 papers and filed 2 patents so far with 2100 citations and H-index of 18. One of his invention (self-illuminating quantum dots) have been licensed to Zymera Inc., CA.

--- Admission is free and all are welcome ---