

presents the seminar series in **Cancer Biology,
Biotherapy and Nanomedicine**



香港城市大學
City University of Hong Kong
專業 創新 胸懷全球
Professional·Creative
For The World

Biomaterials for Translational Regenerative Medicine

Dr. Xin Zhao
Department of Biomedical Engineering
Hong Kong Polytechnic University



Date : 9 February 2018

Time: 11:00am to 12:30pm

Venue: Meeting Room 2-130, 1/F, Block 2, To Yuen Building

Abstract

Translational medicine is a new clinical medicine-oriented discipline that bridges basic medical research and clinical treatment. As a branch of translational medicine, regenerative medicine aims to achieve regeneration of diseased or damaged tissues using biomedical materials. The emphasis of this talk is placed on how biomaterials can be used to fabricate various scaffolds to reconstruct hard tissues such as bone as well as soft tissues such as skin and tendon, and also to achieve drug delivery for disease treatment. In detail, this talk will cover Dr. Zhao's major research projects, including "photocrosslinkable hydrogels for bone/skin regeneration", "injectable and degradable bone cement", "anti-adhesion tendon regeneration membrane" and "tumor triggered drug release for cancer therapy".

About the Speaker

Dr. Xin Zhao is an assistant professor at the Department of Biomedical Engineering, the Hong Kong Polytechnic University, Hong Kong SAR, China. She received her PhD in Biomaterials and Tissue Engineering from University College London (UCL), UK (2010). Prior to her current position, Dr. Zhao worked as a postdoctoral research fellow at Harvard University, Harvard-MIT Health Science & Technology (HST) and School of Engineering of Applied Sciences (SEAS) and as an associate professor at Xi'an Jiaotong University (XJTU). Dr Zhao is dedicated to interdisciplinary research involving topics such as biomaterials, tissue engineering, drug delivery, cell micro-environment and microfluidics. She uses multi-disciplinary approach including material science, nanotechnology, cell biology and microfluidics to generate tissue-engineered organs and control cell behaviors for addressing clinical problems. So far she has published over 50 peer-reviewed journal articles and book chapters and applied for two national patents. Her work has been published in leading journals such as *Chemical Reviews*, *Materials Today*, *Advanced Functional Materials*, *Biomaterials*, *Small*, *Theranostics*, etc.

Enquiries:

Dr Xi Yao (3442-4829, xi.yao@cityu.edu.hk)

Ms Irene Wong (3442-4707, irene.wong@cityu.edu.hk)

All are welcome!