



# 生物医药与技术研究所学术讲座

The 203<sup>th</sup> Academic Seminar on Biomedicine and Biotechnology

203

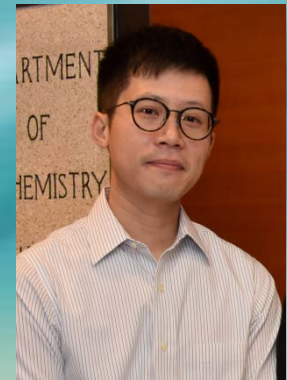
## Title: **Deciphering the DNA Damage Response Circuitry**

### Abstract

Cells mount a sophisticated repertoire of DNA damage responses (DDR) when confronted with genotoxic stress. While these DDRs halt cell proliferation, silence transcription, and launch DNA repair, exactly how they are coordinated is only beginning to emerge. My lab is geared towards identifying the components of the DNA Damage Response protein network, and deciphering how the diverse DDRs are orchestrated. Dysregulated DDRs underlie genome instability, and contribute to a cohort of human diseases, including cancer and neurodevelopmental deficits. Understanding the fundamentals of DDRs will therefore provide insight to aid the knowledge-driven design of treatment and management of genome instability-associated disorders. Because defective DNA repair fuels human tumorigenesis, understanding the inherent differences between how normal and cancerous cells respond to DNA damage can also help reveal the Achilles' heel of human cancers, guiding development of personalized medicine for future anti-cancer interventions.

### Introduction

Dr. Michael Huen majored in biochemistry at the Hong Kong University of Science and Technology, and received his doctorate degree at the University of Hong Kong in 2006 studying bacteriophage-mediated DNA recombination. He later trained with Prof. Junjie Chen at Mayo Clinic / Yale University where he developed an interest for DNA damage detection and repair control in mammalian cells. He took up an independent position at the former Department of Anatomy at the University of Hong Kong in 2009, and is now Associate Professor of the School of Biomedical Sciences. His major research goal aims to define the functional connectivity of the DNA Damage Response protein network, and to rationalize how perturbed DNA damage responses contribute to genome instability and associated diseases, including cancer.



主讲人:

**Michael Shing-Yan Huen**

**Associate Professor**

主持人:

**刘陈立 研究员**

**时间: 2017年7月26日**

**星期三 14:00-15:00**

**地点: F栋12楼会议室**

**ALL ARE WELCOME!**

Enquires: Ms Ting Zhang Tel:0755-86585244 Email: ting.zhang@siat.ac.cn