



香港中文大學醫學院
Faculty of Medicine
The Chinese University of Hong Kong



Co-organized by:

* Hong Kong Research Grants Council
Theme-based Research Scheme Projects :
T12-403/15-N & T12-401/16-W
* Department of Chemical Pathology
* Li Ka Shing Institute of Health Sciences

Seminar: Life at the Single Molecule Level

Date: 14 December 2017 (Thursday)

Time: 11:00 am to 12:00 noon

Venue: Room 301, 3/F, Li Ka Shing Medical Sciences Building,
Prince of Wales Hospital, Shatin, New Territories

Speaker: Professor Sunney XIE Xiaoliang
Mallinckrodt Professor of Chemistry and Chemical Biology,
Department of Chemistry and Chemical Biology, Harvard University



Abstract:

DNA exists as single molecules in individual cells. Consequently, gene expression is stochastic. Single molecule gene expression experiments in live single cells have allowed quantitative description and mechanistic interpretations. The fact that there are 46 different individual DNA molecules (chromosomes) in a human cell dictates that genomic variations occur stochastically and cannot be synchronized among individual cells. Probing such genomic variations requires single cell and single molecules measurements, which have been made possible recently, opening opportunities to investigate and to diagnose cancer, and to avoid genetic disorders in newborns.

Please refer to the
LiHS Website for
CME / CPD Points
awarded.



www.lihs.cuhk.edu.hk

All are welcome.

For enquiries, please contact Mr. Kim Wong on 3505 2563 or Mr. Jonathan Lee at 3763 6005.