# Advanced Imaging: From System Biology to Single Cell & Single Molecule Analysis

**Date:** 7 August 2015  
**Venue:** Cheung Kung Hai Lecture Theatre 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 – 8:45</td>
<td>Registration</td>
</tr>
</tbody>
</table>
| 8:45 – 9:00 | Welcome address:  
Prof. Peter Mathieson (President), The University of Hong Kong  
Prof. Gabriel Leung (Dean), LKS Faculty of Medicine, HKU  
Photo session: (Invited guests, Speakers, Organizing Committee) |
| 9:00 – 9:30 | L1: Microscopes, movies and cells  
Tomas Kirchhausen  
*Harvard Medical School, USA* |
| 9:30 – 10:00 | L2: Using Vaccinia virus to understand Arp2/3 driven actin polymerization  
Michael Way  
*The Francis Crick Institute, UK* |
| 10:00 – 10:25 | L3: Optical Biological Imaging for 21st Century  
Michael Loy  
*Hong Kong University of Science & Technology, HK* |
| 10:25 – 11:00 | Coffee Break |
| 11:00 – 11:30 | L4: Applications of light sheet microscopy in developmental biology  
Pavel Tomancak  
*Max Planck Institute of Molecular Cell Biology and Genetics, Germany* |
| 11:30 – 12:00 | L5: Vacuolar rupture caused by invasive bacterial pathogens- causes and consequences  
Jost Enninga  
*Institut Pasteur, France* |
| 12:00 – 14:00 | Lunch and Advanced Imaging Platform presentation  (Sandwich & drinks provided)  
Sponsored by Carl Zeiss, HKUST, Perkin Elmer and Coherent |
| 14:00 – 14:25 | L6: Adhesion transformation, integrin signaling, and endocytosis in the absent of matrix force  
Chenghan Yu  
*The University of Hong Kong, HK* |
| 14:25 – 14:55 | L7: Mechanisms of cell invasion  
Gareth Jones  
*King’s College London, UK* |
| 14:55 – 15:20 | L8: Cytotoxic dynamics of Natural Killer cells at the single cell level  
Jade Shi  
*Hong Kong Baptist University, HK* |
| 15:20 – 15:50 | Coffee Break |
| 15:50 – 16:20 | L9: Bayesian analysis of localization microscopy reveals nanoscale podosome dynamics  
Susan Cox  
*King’s College London, UK* |
| 16:20 – 16:50 | L10: A high content single cell imaging method for the denovo identification of subcellular localizations of mRNAs and proteins  
Musa Mhlanga  
*CSIR Biosciences, South Africa* |