

**The Hong Kong University of Science and Technology**  
**Report on AEARU Activity held since August 2007**

Title of the event

The 9<sup>th</sup> AEARU Workshop on Molecular Biology and Biotechnology

Name of host institution

The Hong Kong University of Science and Technology

Date and venue

March 25-26 2008, The Hong Kong University of Science and Technology

Overview

The AEARU Workshop on Molecular Biology and Biotechnology is a successful series of workshop initiated since 1996, when AEARU was founded, to provide a forum for scientists of the member universities to exchange the information about recent progress in Molecular Biology and Biotechnology presenting and discussing recent research results by participants. There are two major themes in the Workshop – (Day 1) “Signaling” and (Day 2) “Genomics/Proteomics”

Participant list

42 participants (Please refer to participant List)

Eligible to participate

AEARU member universities

No. of presentations given

18 (Please refer to the Program file)

Organizing committee

|                    |   |
|--------------------|---|
| Prof Nancy Yip     | Department of Biochemistry, HKUST         |
| Prof Yung Hou Wong | Department of Biochemistry, HKUST         |
| Prof Karl W K Tsim | Department of Biology, HKUST              |
| Prof Xiao Yuan Li  | Department of Chemistry, HKUST            |
| Prof Chi Ming Chan | Department of Chemical Engineering, HKUST |

Schedule/Program

(Please refer to the Program file)

Link to homepage for the event

<http://www.ust.hk/9thaearu-mb&b/index.html>

For further information of this workshop, please contact workshop Secretariat:

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**Tuesday, March 25, 2008**

## **SESSION 1: SIGNALING**

Co-Chairs: Yung Hou Wong and Karl Tsim, HKUST

- 09:45-10:00            Opening Ceremony
- 10:00-11:30            **Plenary Lecture**  
Neal G. Copeland  
Executive Director, Institute of Molecular and Cell Biology, Singapore  
***Harnessing transposons for cancer gene discovery***
- 11:30-11:45            *Coffee Break*
- 11:45-12:05            [1.1] Jongkyeong Chung  
Biological Sciences, Korea Advanced Institute of Science and Technology  
***Regulation of cell polarity by AMPK and LKB1***
- 12:05-12:25            [1.2] Kunio Takeyasu  
Biostudies, Kyoto University  
***Nano-scale imaging and single-molecule manipulation techniques for nuclear dynamics***
- 12:25-12:45            [1.3] Kathryn S.E. Cheah  
Biochemistry, The University of Hong Kong  
***Insights into the function of SOX9 and the molecular pathogenesis of campomelic dysplasia***
- 12:45-14:00            *Lunch*
- 14:00-14:20            [1.4] Heng-Phon Too  
Biochemistry, National University of Singapore  
***Alternatively spliced Glial cell-line derived neurotrophic factor (GDNF) family of receptors – unexpected complexities in functions***
- 14:20-14:40            [1.5] Peng Li  
Biological Sciences & Biotechnology, Tsinghua University - Beijing  
***Regulation of Adipose tissue identity by Cide proteins***
- 14:40-15:00            [1.6] Zilong Wen  
Biochemistry, The Hong Kong University of Science and Technology  
***Hematopoietic stem cells and their niches during development***
- 15:00-15:20            [1.7] Kazuo Inaba  
Shimoda Marine Research Center, University of Tsukuba  
***Molecular signaling for chemoattractant-induced sperm activation in the ascidian *Ciona intestinalis****
- 15:20-15:40            [1.8] Satoru Kawamura  
Biological Sciences, Osaka University

***Phototransduction in rods and cones in the retina***

15:40-16:00

[1.9] Chuanmao Zhang  
Life Sciences, Peking University

***The roles of Ran GTPase in the cell cycle regulation co-ordination***

16:00-18:00

**Poster Discussion with coffee** (*for both sessions 1 and 2*)

18:30-21:00

*Banquet*

**Wednesday, March 26, 2008**

## **SESSION 2: GENOMICS / PROTEOMICS**

Co-Chairs: Joonho Choe and Yeon-Soo Seo, KAIST

- 10:00-11:30      **Plenary Lecture**  
Richard J. Simpson  
Head of Joint Proteomics Laboratory, Ludwig Institute for Cancer Research and The Walter and Eliza Hall Institute of Medical Research, Australia  
***Cancer proteomics: proteomic strategies to uncover new biomarkers for colorectal cancer***
- 11:30-11:45      *Coffee Break*
- 11:45-12:05      [2.1] Robert Z. Qi  
Biochemistry, The Hong Kong University of Science and Technology  
***Functional proteomics to decipher neuronal Cdk5 regulatory pathways***
- 12:05-12:25      [2.2] Yeon-Soo Seo  
Biological Sciences, Korea Advanced Institute of Science and Technology  
***Vts1, a structural specific RNA binding protein stimulates Dna2 endonuclease activity***
- 12:25-12:45      [2.3] Wei Feng  
Biochemistry, The Hong Kong University of Science and Technology  
***PDZ domains of Par-3 as potential phosphoinositide signaling integrators***
- 12:45-14:00      *Lunch*
- 14:00-14:20      [2.4] Giltsu Choi  
Biological Sciences, Korea Advanced Institute of Science and Technology  
***Genomic identification of PIL5 direct target genes by ChIP-on-Chip analysis in Arabidopsis***

## **SESSION 1: SIGNALING** (*cont'd*)

Co-Chairs: Yung Hou Wong and Karl Tsim, HKUST

- 14:20-14:40      [1.10] Donald C. Chang  
Biology, The Hong Kong University of Science and Technology  
***What controls the temporal order of different mitotic events in mammalian cell division?***
- 14:40-15:00      [1.11] Youngsook Lee      **[CANCELLED]**  
Life Science, Pohang University of Science and Technology  
***Light signal transduction in guard cells of plants***
- 15:00-15:20      [1.12] Haruo Ohmori  
Institute for Virus Research, Kyoto University  
***Lesion-bypass DNA polymerases***

15:20-15:40

[1.13] Chun Liang

Biochemistry, The Hong Kong University of Science and Technology

***The IpiIp/2p/3p complex is required for and directly involved in pre-replication complex formation independent of ribosome biogenesis***

16:00-

*City Tour (Optional)*