



Imperial College  
London



**Tuesday 22<sup>nd</sup> April 2008**

**Venue: Goldsmiths Building 131**

**Oral Session 4**

- 09:30 - 09:50 Chair Professor Eiry Kobatake, Tokyo Institute of Technology  
Professor Jin-go Park, Hanyang University  
"Reverse imprinting technology for electrochemical plastic biochip fabrication"
- 09:50 - 10:10 -ichiro Ogura, Shizuoka Cancer Research Center  
"Detection of Prohormone Secreted from Small Cell Lung Carcinoma Cell Lines as a Potential Tumor Marker"
- 10:10 - 10:30 "Electroanalytical methods in Biomedicine: new approaches to fouling, stability and selectivity"

**10:30 - 10:50**

**Coffee – Goldsmiths 324**

**Oral Session 5**

- 10:50 - 11:10 Chair Dr Danny O'Hare, Imperial College  
Professor Sang-Hoon Lee  
"Lab chip based microfabrication of microstructures for tissue engineering"
- 11:10 - 11:30 Dr Shelly Gulati, Imperial College London  
"Dynamics and controllable fusion of micro-droplets"
- 11:30 - 11:50 Professor Susumu Kajiwara, Tokyo Institute of Technology  
"Identification of the Gene Encoding Lipid Synthesis Enzyme as a Target Protein for Antifungus Drugs"
- 11:50 - 12:10 Professor Gi Hun Seong, Hanyang University  
"Development of phtodiode array biochip using bipolar semiconductor and its application to detction of human papilloma virus"
- 12:10 - 12:30 Dr Stuart Hassard DeltaDot Ltd  
"Measuring the Bioprocess, from cloning to bioreactor to final QA/QC using Label Free Intrinsic Imaging systems".

**12:30 - 14:00**

**Lunch 58 Princes Gate**

**14:00 - 17:00**

**Tours and Demonstrations**

Participants arranged into groups

**15:00 - 15:30**

**Tea - IBME level 4 foyer**

Participants arranged into groups

**17:00 - 17:30**

**Final discussion and closing remarks**

17:30

Close

**18:00 - 19:30**

**Reception at 170 Queen's Gate Solar Room and Garden**

20:00

Optional Trip to 'The Builders Arms'

15:20 - 15:30

General Discussion

15:30 - 16:00

**Tea – Goldsmiths 324**

**Oral Session 3**

Chair Professor E K Lee, Hanyang University

15:10 - 15:30

Professor Hisakazu Mihara, Tokyo Institute of Technology

“Control of Protein Amyloid Formation by Designed Peptides and Proteins”

16:00 - 16:20

Dr Tim Albrect, Imperial College London

“Single-molecule electrochemistry and charge transport on the nanoscale”

16:20 - 16:40

Professor Toshiaki Mori, Tokyo Institute of Technology

“Kinetic Analyses of phosphorolysis and polymerization by Hyperthermostable !

Glycogen Phosphorylase on a 27-MHz Quartz-crystal Microbalance”

16:40 - 17:00

Dr Martyn Boutelle, Imperial College

“Biomedical monitoring using electroanalytical methods - multimodal monitoring to move beyond tissue concentration”

17:00 - 17:30

General Discussion

17:30

Close

18:20

Meet outside hotel

18:30

**Reception at Bombay Brasserie (Invitation Only)**

19:00

**Meal at Bombay Brasserie (Invitation Only)**

21:30

Close

# Programme

**Monday 21<sup>st</sup> April 2008**

**Venue: Goldsmiths Building 131**

**Registration**

09:30 - 10:00

**Welcoming and opening addresses**

Professor E K Lee, Hanyang University, Korea  
Professor Hisakazu Mihara, Tokyo Institute of Technology, Japan  
Professor Tsutomu Hashida, International Office, Tokyo Institute of Technology

10:00 - 10:10

**Signing of Memorandum of Understanding  
Between Hanyang University and Imperial College**

Professor Chong Yang Kim, President Hanyang University, Korea  
Professor Mary Ritter, Pro-Rector for International Affairs, Imperial College  
Dean of International Office, Hanyang University, Korea  
Professor Dick Kitney, Director of Graduate Schools of Engineering and  
Physical Sciences, Imperial College

10:10 - 10:40

**Coffee – Goldsmiths 324**

**Oral Session 1**

10:20 -

Chair Professor Tony Cass, Imperial College  
Professor Eiry Kobatake, Tokyo Institute of Technology  
"Design of Functional Nano-structure with Self-Assembling Proteins"

10:40 - 11:00

Professor Yong Woo Cho, Hanyang University  
"Autologous Tissue Engineering with Three-Dimensional, Porous Human Fat  
Scaffolds"

- 11:20

"Development of solid-state nanopore based biosensors"

- 11:40

"The Update of Hinge Sugar Research: Glycosyltransferase Inhibitors and  
Polymer Components"

11:40 - 12:00

General Discussion

- 14:00

**– Goldsmiths 324**

**Posters– Goldsmiths 324**

**Oral Session 2**

14:00 - 14:20

Chair Professor Hisakusa Mihara, Tokyo Institute of Technology

"Fast and sensitive immunoanalysis using optical microfluidic sensor"

14:20 - 14:40

Professor Yasunori Aizawa, Tokyo Institute of Technology

"Dark Matter of Human Transcriptome -Noncoding RNA and Retrotransposon-"

14:40 - 15:00

Professor Tony Cass, Imperial College

"Aptasensors-Exploiting Molecular `selection in Bioanalysis"

- 15:20

"Biofunctionalized liposomes for immunoassay and active targeting  
applications"