

# The 2nd International Symposium of Innovative BioProduction Kobe (iBioK)



Date: **21<sup>st</sup> - 22<sup>nd</sup>, January 2010**

Place: Kobe University IDEMITSU SAZO Memorial Rokkodai Auditorium

## 21st January

- 12:00 Registration  
13:20 Opening Address  
Prof. Akihiko Kondo (Kobe University, Japan)  
13:30 Prof. Akihiko Kondo (Kobe University, Japan)  
Innovative Bioproduction in Kobe (iBioK):  
Bio-based Fuels and Chemicals Production  
by Arming Technology

### (Session 1: New-era Bio-fuel Production Strategy )

- 14:00 Dr. Blake A. Simmons  
(Joint BioEnergy Institute, USA)  
Beyond Ethanol: Development of Advanced  
Biofuels at the Joint BioEnergy Institute  
14:40 Dr. Jun Kikuchi (RIKEN, Japan)  
Application of -Omics Approach for Biomass  
Engineering -Anabolism and Catabolism from  
Inorganics to Macromolecules  
15:10 Prof. Tomohisa Hasunuma (Kobe University, Japan)  
A Synthetic Biology Approach for Efficient  
Production of Cellulosic Ethanol in  
*Saccharomyces cerevisiae*.  
15:30 Coffee Break

### (Session 2: Enzymatic Biomass Conversion)

- 16:00 Prof. Chiaki Ogino (Kobe University, Japan)  
Utilization of Ionic Liquid on Enzymatic Biomass  
Conversion  
16:20 Dr. Mahabubur Rahman Talukder  
(Institute of Chemical and Engineering Sciences, Singapore)  
Biomass Oil to Fuel Additives and Chemicals  
16:40 Prof. J.H. David Wu (University of Rochester, USA)  
The *Clostridium thermocellum* Cellulosome:  
A Molecular Machine for Biomass Degradation.

### (Plenary Lecture)

- 17:10 Prof. Chris Somerville  
(University of California, Berkeley, USA)  
The Development of Cellulosic Biofuels  
18:30 Welcome Reception & Banquet

## 22nd January

- 09:00 Registration

### (Session 3: Bio-Based Chemicals Production)

- 10:00 Prof. Colin Webb (The University of Manchester, UK)  
Utilisation of Waste Food Products for the  
Bioproduction of Chemicals and Fuels  
10:45 Prof. Jochen Buechs (RWTH Aachen University, Germany)  
Aspects of Tailor Made Fuels and Chemicals from  
Biomass  
11:15 Prof. Jo-Shu Chang  
(National Cheng Kung University, Taiwan)  
Carbon Dioxide-free Bioenergy Production from  
Cellulosic and Microalgal Feedstock  
11:45 Lunch (~13:30)

### (Session 4: New Insights on Human Health Biotechnology)

- 13:30 Prof. Kevin Croft (University of Western Australia,  
Australia)  
Cardiovascular Health Effects of Plant Polyphenols  
14:15 Prof. Hitoshi Ashida (Kobe University, Japan)  
Regulation of Glucose Uptake by Food Factors  
in Skeletal Muscle Cells  
14:45 Prof. Ro Osawa (Kobe University, Japan)  
Development of Tailor-made Probiotics  
with Host Specific Bifidobacteria  
15:15 Prof. Hiroshi Kiyono (The University of Tokyo, Japan)  
New Prospect for Mucosal Vaccine Development:  
MucoRice<sup>TM</sup> for Refrigeration- and Needle/  
Shringe-free Vaccine  
16:00 Closing Remarks  
President Prof. Hideki Fukuda (Kobe University, Japan)

### Administrative contact:

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