

The 6th Kobe University Brussels European Centre Symposium  
“For Smart and Healthy Society  
- common challenges in research and education by Japan and EU collaboration”

- 1 . Date and Time : Tuesday 20 October, 9:30-18:00
- 2 . Place : Thon Hotel EU (Rue de la Loi 75, B-1040, Brussels, Belgium)
- 3 . “For Smart and Healthy Society - common challenges in research and education by Japan and EU collaboration”

Programme:

9:30-10:00 Opening

MC: Prof. Matsuto Ogawa, Executive Vice President, Kobe University

Opening addresses:

Prof. Hiroshi Takeda, President, Kobe University

HE Mr Keiichi Katakami, Ambassador of Japan to the European Union

Mr Kostas Glinos, Head of Unit in the International Cooperation Directorate,

Directorate-General Research and Innovation, European Commission

10:00-13:30

Session 1 : ICT and Smarter Society

- Speakers - Masahiko Yoshimoto, Kobe University (Japan)  
“A Low Power, Normally-Off ECG-SoC(System-on-a-Chip) with Noise Tolerant Heart Rate Extractor for Wearable Healthcare Systems”
- Seiichi Ozawa, Kobe University (Japan)  
“Image Sensing Method for Smart Agriculture”
- Noriyuki Murakami, Hokkaido Agricultural Research Center, (Japan)  
“Robotic cabbage harvester”
- Cesare Alippi, Information processing systems, The Politecnico di Milano (Italy)  
“Intelligence for cyber-physical and embedded systems”
- Philippe Lalande, Grenoble University (France)  
“iCasa, a software framework for the development and execution of multiple home applications”

Session 2 : Nanoscience for Material Technology and Energy Conversion

- Speakers - Franz Faupel, University of Kiel (Germany)  
“Research on advanced nanomaterials for functional applications at CAU of

Kiel”

- Andrei Choukourov, Charles University of Prague (Czech Republic)  
“Plasma-based methods for nano-structuring of surfaces”
- Minoru Mizuhata, Kobe University (Japan)  
“Fabrication of Nanocomposite using Electrochemistry and Solution Chemistry”
- Arturo Meléndez-Ceballos, University Pierre and Marie CURIE (France)  
“Activities in the field of high temperature fuel cells, in particular MCFCs”
- Kyohei Kanki, Kobe University (Japan)  
“CO2 absorption behavior of ceramics/molten salts composite in high temperature”

14:30-18:00

Session 3 : Perspectives on Interdisciplinary Research and Education of Economics and Law

5 Panelists discuss the prospects of interdisciplinary research and education of economics and law based on the experience of Leuven Centre for Global Governance Studies at KU Leuven, Institute of Law and Economics at University of Hamburg, and Econo-Legal Studies at Kobe University

- Speakers
- Takashi Yanagawa, Kobe University (Japan)  
“Prospects of Interdisciplinary Research of Economics and Law: A View from Economics”
  - Narufumi Kadomatsu, Kobe University (Japan)  
“Prospects of Interdisciplinary Research of Economics and Law: A View from Law”
  - Axel Marx, KU Leuven (Belgium)  
“Interdisciplinary Research in the Social Sciences: the case of the Leuven Centre for Global Governance Studies (University of Leuven)”
  - Hiroshi Takahashi, Kobe University (Japan)  
“Econo-Legal Education: the Experience of Kobe University”
  - Janina Satzer, University of Hamburg (Germany)  
“The European Master in Law & Economics - 25 Years of Experience in Interdisciplinary Education and Research”

Session 4 : Recent Advances in In Vitro Modeling of the Human-Microbial Gastrointestinal

### Interface

In vitro modeling of the human-microbial gastrointestinal interface is increasingly recognized as a useful biological tool to help us understand an array of compound and elaborate interactions among the host, its microbiota, and its ingested food ingredients. In this session, four honorable speakers, each representing a distinct study group of different nationality, will address and discuss recent advances in their own unique modeling.

- Chair - Ken-ichi Yoshida, Kobe University
- Speakers - Tom Van de Wiele, Ghent University (Belgium)  
“In vitro models to study the mucosal microenvironment of the human gut”
- Joëlle Fritz, Luxembourg Centre for Systems Biomedicine, (Luxembourg)  
“A microfluidics-based in vitro model of the gastrointestinal human-microbe interface”
- Christophe Lacroix, ETH Zürich (Switzerland)  
“PolyFermS, a flexible intestinal fermentation platform to investigate monogastric gut microbiota”
- Ro Osawa, Kobe University (Japan)  
“An Introduction to Kobe University Human Intestinal Model (KUHIM)”