

Medical Innovation of 21st Century

“Challenge for the State of the Art Medical System
Driven by Nanobiotechnology”

Fee:
FREE

DATE

Jan.17 (Mon) 2011 14:30-18:25

Jan.18 (Tue) 2011 10:00-17:40

VENUE

Hitotsubashi Memorial Hall, 2F.,
National Center of Sciences Building,
2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo

Guests



Stefan Noreén
Ambassador,
Embassy of Sweden



Fumimaro Takaku
President, The Japanese
Association of
Medical Sciences

Plenary Lecturers



Masuo Aizawa
Executive member,
Council of Science and
Technology Policy



Koichi Kitazawa
President,
Japan Science and
Technology Agency

Registration: Required through web site (<http://www.first-symposium.jp/en/>)



Teruo Okano



Kazunori Kataoka

Two projects headed by two front runners of nanobiotechnology research, Professor Teruo Okano and Professor Kazunori Kataoka join together to share most updated research outcome and discuss strategies to accelerate research to create innovations in medical system with invited prominent researchers.

Jan.17 (Mon) [With simultaneous translation]

- 14:30 - 14:35 **Guest's Speech 1** **Stefan Noreén** Ambassador, Embassy of Sweden
 14:35 - 14:40 **Guest's Speech 2** **Fumimaro Takaku** President, The Japanese Association of Medical Sciences
 14:40 - 14:55 **Plenary Lecture 1** **Masuo Aizawa** Executive member, Council of Science and Technology Policy
 14:55 - 15:10 **Plenary Lecture 2** **Koichi Kitazawa** President, Japan Science and Technology Agency

15:10 - 15:40 Project Introduction

Cell Sheet Technology

<http://twins.twmu.ac.jp/first/>

Teruo Okano

Director / Professor, Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University

"System Integration for Industrialization of Regenerative Medicine: Creation of Organ Factory"

15:40 - 16:10 Project Introduction

NanoBio

<http://park.itc.u-tokyo.ac.jp/nanobio/>

Kazunori Kataoka

Professor, Dept. of Materials Engineering·Dept. of Bioengineering, Graduate School of Engineering / Division of Clinical Biotechnology, Center of Disease Biology and Integrative Medicine, Graduate School of Medicine, The University of Tokyo

"Development of Innovative Diagnostic and Therapeutic Systems Based on Nanobiotechnology"

16:10 - 16:30 Coffee Break

16:30 - 17:10 **Plenary Lecture 3** **David Williams** Professor of Biomaterials and Director of International Affairs, Wake Forest Institute of Regenerative Medicine, North Carolina, USA

"Balancing Risk and Innovation in Medical Technologies of the Twenty First Century"

17:10 - 18:25 **Panel Discussions**

"How can we accelerate social deployment of advanced research?"

Shinichiro Izumi (Plan) Director-General for Science, Technology and Innovation Policy, Cabinet Office, Government of Japan

Kozo Imai Director, Research Hospital, The Institute of Medical Science, The University of Tokyo
Hideyuki Haruyama Chairman, R&D Committee, Japan Pharmaceutical Manufacturers Association(JPMA).
Yasuyuki Yoshida CEO, Asahi Kasei Kuraray Medical Co., Ltd.

Mime Egami Professor, Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University

Hiromichi Kimura Professor, Pharmaco-Business Innovation, Graduate School of Pharmaceutical Sciences, The University of Tokyo



David Williams

18:25 - 20:00 **Research Mixer [Participation fee: 5000 Yen]**

Jan.18 (Tue) [With simultaneous translation]

10:00 - 10:40 **Plenary Lecture 4** **Marc Peschanski** Director, Institute for Stem cell Therapy and Exploration of Monogenic Diseases (I-STEM) *"Human Pluripotent Stem Cells for Drug Discovery"*

10:40 - 11:20 **Plenary Lecture 5** **Hilary Calvert** Director, Anticancer Drug Discovery and Development, University College London Partners *"PARP Inhibitors - New Agents Coming to the Clinic"*



Marc Peschanski



Hilary Calvert

11:20 - 12:30 **Poster Preview Sessions**

12:30 - 13:15 Lunch

13:15 - 14:00 **Poster Sessions**

Project Member Presentations

14:00 - 14:30 **Masayuki Yamato** Professor, Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University *"Current Status of Clinical Applications of Cell Sheet Engineering for Regenerative Medicine"*

14:30 - 15:00 **Masahiro Kinooka** Professor, Graduate School of Engineering, Osaka University *"Systems Development of 3S (Security, Safety, cost-Saving) Tissue Factory for Manufacturing Cell Sheets"*

15:00 - 15:30 **Tatsuya Shimizu** Professor, Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University *"In vitro Fabrication of Vascularized Myocardial Tissue -Challenges for Organ Factory-"*

15:30 - 16:00 Coffee Break

16:00 - 16:30 **Yasuhiro Matsumura** Chief, Investigative Treatment Division, Research Center for Innovative Oncology, National Cancer Center Hospital East *"Paradigm Shift of Drug Delivery System in Cancer Therapy"*

16:30 - 17:00 **Nobuhiro Nishiyama** Associate Professor, Dept. of Materials Engineering, Graduate School of Engineering, The University of Tokyo *"Light-Responsive Nanodevices for Imaging and Therapy of Malignant Tumors"*

17:00 - 17:30 **Yuji Miyahara** Professor, Tokyo Medical and Dental University *"Microfabricated Biochips for Detection of Biomolecular Recognition"*

17:30 - 17:40 Closing Remarks