



清華大學
Tsinghua University



東京大学
THE UNIVERSITY OF TOKYO

CMSI
Center for
Medical
System
Innovation

Tsinghua Week at The University of Tokyo

Joint Symposium

Frontiers in Bioengineering and Nanobiotechnology for Sustainable Asia

Date: 1:00pm - 6:00pm, May 14, 2010

Place: Lecture Room No. 51,
Engineering Building No. 5



Program

Opening Remarks

13:00-13:05

Prof. Xin-Hui Xing (Department of Chemical Engineering, Tsinghua University)

Session 1 Frontiers in Medical Bioengineering

13:05-13:30

Prof. Zhao Wang (School of Medicine, Tsinghua University)

Alzheimer's Disease: Why dementia

13:30-13:55

Prof. Kazunori Kataoka (Department of Material Engineering, The University of Tokyo)

Supramolecular nanodevices for gene and drug delivery

13:55-14:20

Dr. Guoqiang Jiang (Department of Chemical Engineering, Tsinghua University)

Injectable Implanted Drug Delivery Based on Thermosensitive Hydrogel and Microparticles

14:20-14:45

Dr. Tomohiro Konno (Department of Bioengineering, The University of Tokyo)

Mild-preservation of ES cells using a reversible phospholipid polymer hydrogel with highly cytocompatibility

14:45-15:10

Dr. Katsuko S. Furukawa (Department of Bioengineering, The University of Tokyo)

Cartilage tissue engineering by mechanical stress loading

Coffee Break

15:10-15:25

Session 2 Frontiers in Bioengineering and Nanobiotechnology

15:25-15:50

Prof. Xin-Hui Xing (Department of Chemical Engineering, Tsinghua University)

Directed alteration of global anaerobic metabolism of *Enterobacter aerogenes* by control of extracellular/intracellular NADH level

15:50-16:15

Prof. Yasuyuki Sakai (Institute of Industrial Science, The University of Tokyo)

Importance of oxygen supply in liver tissue engineering

16:15-16:40

Prof. Dehua Liu (Department of Chemical Engineering, Tsinghua University)

The latest progress in enzymatic catalysis for biodiesel production

16:40-17:05

Prof. Masao Washizu (Department of Bioengineering, The University of Tokyo)

Field-induced cell-membrane alternation in microfabricated structures and its applications

17:05-17:30

Prof. Diannan Lu (Department of Chemical Engineering, Tsinghua University)

Molecular Simulation as a tool for protein refolding and protein modification

17:30-17:55

Prof. Huimin Yu (Department of Chemical Engineering, Tsinghua University)

M13 phage-mediated and -oriented synthesis of FCC iron nanocrystals

Concluding Remarks

17:55-18:00

Prof. Teruyuki Nagamune (Department of Bioengineering, The University of Tokyo)