

# Asia Forum for Biological Science and Technology 2012

Organized by Graduate school of Bioscience and Biotechnology

Date: January 17<sup>th</sup> 2012

Venue: Suzukake-Hall (Meeting Room 1), Suzukake-dai Campus, Tokyo Institute of Technology



## — Morning Session: 10:00-11:45 —

10:00 – 10:15

Opening remarks

**Dean, Dr. Mitsuo SEKINE (Tokyo Institute of Technology)**

10:15 – 10:45

In search of the application of enzymatic catalysis in vitro: our efforts toward fabricating enzyme nanogel;

**Dr. Zheng LIU, Department of Chemical Engineering Tsinghua University**

10:45 – 11:15

Fluorescent Nucleic Acid Systems: Design, Construction, and Evaluation;

**Dr. Byeang Hyeon Kim, Department of Chemistry, Division of IBB Pohang University of Science and Technology**

11:15 – 11:45

Synthesis of Metabolites of Polyunsaturated Fatty Acids;

**Dr. Yuichi KOBAYASHI, Graduate School of Bioscience and Biotechnology Tokyo Institute of Technology**

11:45-13:00

Lunch Break

## — Afternoon Session 1 : 13:00-14:30 —

13:00 – 13:30

Real-time Monitoring of Cell-free Translation Process on a 27-MHz Quartz-crystal Microbalance;

**Dr. Yoshio OKAHATA, Department of Biomolecular Engineering, Graduate School of Bioscience and Biotechnology Tokyo Institute of Technology**

13:30 – 14:00

Sustainable microbial lipid production by an oleaginous yeast *Rhodospiridium toruloides*;

**Dr. Dehua LIU, Department of Chemical Engineering Tsinghua University**

14:00 – 14:30

Using of stem cells and scaffolds in dental tissue engineering;

**Dr. Tran Le Bao Ha, Faculty of Biology, University of Science, Vietnam National University**

14:30 – 14:45

Break

## — Afternoon Session 2 : 14:45-17:00 —

14:45 – 15:15

The Roles of Notch Signaling Pathway in Pro-Inflammatory Immune Responses by Macrophages;

**Dr. Tanapat Palaga, Department of Microbiology, Faculty of Science, Chulalongkorn University, Thailand**

15:15 – 15:45

How do organisms sense light?

Cellular mechanisms of light sensing and light-signal transduction;

**Dr. Shinji MASUDA, Center for Biological Resources and Informatics, Tokyo Institute of Technology**

15:45 – 16:15

Systematic Analysis of *Spirulina platensis* Mutants Evolved by Atmospheric and Room Temperature Plasmas (ARTP);

**Dr. Xing Xinhui, Department of Chemical Engineering Tsinghua University**

16:15 – 16:45

Efficient synthesis of microbial polyester and its application in treating batik industry wastewater:

A model collaboration project between university, industry and community;

**Dr. Kumar Sudesh, School of Biological Sciences, Division of Industry and Community Network, Universiti Sains Malaysia**

16:45 – 17:00

Closing Remarks

**Dr. Yoshio OKAHATA (Tokyo Institute of Technology)**

