

1st Bioscience and Biotechnology International Symposium

– Celebrating the 20th anniversary of Graduate School of Bioscience and Biotechnology –

"Biomolecular Assemblies from Nano to Micro"

Date: Jan. 30, 2013

Place: Tokyo Institute of Technology, Suzukakedai campus

13:00-13:05 Opening **Takafumi Ueno**

13:05-13:10 Welcome address **Mitsuo Sekine**

Keynote Lecture 1

Chairperson: **Takafumi Ueno** (Tokyo Tech.)

13:10-14:00 **John Heuser** (Washington Univ. and Kyoto Univ.)

A comprehensive overview of the structural organization and dynamics of endosomes in mammalian cells

Session 1. Molecular Dynamics in Living Cells

Chairperson: **Shinji Masuda** (Tokyo Tech.)

14:00-14:25 **Hideki Taguchi** (Tokyo Tech.)

In vivo structure and dynamics of yeast prion Sup35

14:25-14:50 **Makio Tokunaga** (Tokyo Tech.)

Single molecule imaging in living cells and stochastic features of inter- and intra-molecular interactions

14:50-15:20 **Tadashi Matsunaga** (Tokyo Univ. of Agriculture and Tech.)

Elucidation of magnetosome formation in magnetotactic bacteria

15:20-15:45 Coffee break

Session 2. Structure and Function of Biomolecular Assemblies

Chairperson: **Yasunori Aizawa** (Tokyo Tech.)

15:45-16:10 **Fumio Arisaka** (Tokyo Tech.)
Protein structure and interactions in the assembly of
Bacteriophage T4

16:10-16:35 **Satoshi Murakami** (Tokyo Tech.)
Structure and Dynamics of the multi-drug efflux transporter

16:35-17:05 **Fasseli Coulibaly** (Monash Univ.)
A virus in arms and armour: molecular organization of
functional in vivo crystals of insect poxviruses

17:05-17:20 Coffee break

Keynote Lecture 2

Chairperson: **Junji Hirota** (Tokyo Tech.)

17:20-18:10 **Toshio Ando** (Kanazawa Univ.)
High-speed atomic force microscopy filming protein molecules
in action

18:10-18:15 Closing Remarks **Mitsuo Sekine**

18:15-18:20 Group photo

19:00-21:00 Dinner