3rd Molecular Biology Workshop

Tokyo Institute of Technology (TiTech) Tokyo, Japan
November 19-20, 1999

Tentative Program

E-mail Prof. Masuo Aizawa

Application Form for Registration & Accommodations

Biomolecular and Bioprocess Engineering | Cell and Tissue Engineering
Medical Biotechnology | Nanobiology | Poster Session

November 19, Friday

9:30 Registration
10:00 Opening

Plenary
10:20 Yoshito Kajiro, (TiTech)

Medical Biotechnology
11:00 Ren Xiang Tan, (Nanjing University)
"Recent Advances in the Discovery and Development of Novel Antifungal Agents"
11:20 Jung-Yaw Lin, (Taiwan University)
"Structure and Function of an Antiturner Protein-Arbin"
11:40 Fuyuki Ishikawa (TiTech)
12:00 Wei-Da Huang (Fudan University)

12:20 Lunch

Cell and Tissue Engineering
13:20 Tadashi Yamamoto (University of Tokyo)
"Tyrosine Phosphorylation and Cell Regulation"
13:40 Zhenguo Wu (Hong Kong University of Science and Technology, HKUST)
"Regulation of myogenesis by MAP Kinase and IGF/P13K Pathways"
14:00 Suh-Chin Wu (Tsing Hua University-Hsinchu)
"Cell Culture Processes with Microcarriers"
14:20 Makoto Asashima, (University of Tokyo)
"In Vitro Control of Organogenesis and Transplanation in Early Animal Development"
14:40 Lijia Qu (Peking University)
"Application of Controlled Cell Death on Transgenic Rice for Disease-Resistance"
15:00 Toshihiro Akaike (TiTech)
"Biomimetic Glycopolymer for Cell and Tissue Engineering"

15:20-16:20 Poster Session & Coffee Break

**Biomolecular and Bioprocess Engineering**

16:20 Kyun Min Lee (Korea Advanced Institute of Science and Technology, KAIST)
"Application of Osmotic Stress to Animal Cell Cultures for Improved Productivity"

16:40 Yoshikatsu Muro-oka (Osaka University)
"Molecular Design of Metallothioneins for Bioremediation of Heavy Metals Using a Plant-Rhizobium Symbiotic System"

17:00 Rong-Huay Juang (Taiwan University)
"Regulation of Catalytic Behavior of L-form Starch Phosphorylase from Sweet Potato Roots by Preteolysis"

17:20 Kenji Yamamoto (Kyoto University)
"Adhesion of Lactic Acid Bacteria to Cells Mediated by Sugar Chains"

18:00 - 20:00 Reception

**November 20, Saturday**

**Biomolecular and Bioprocess Engineering (continued)**

9:40 Hak Sung Kim (KAIST)
10:00 Chun Liang (HKUST)
"Cell Cycle Control of DNA Replication in Saccharomyces cerevisiae"

10:20 Kazuhisa Miyamoto (Osaka University)
"Microalgal Biotechnology for Environmental Issues - The Use of Microalgae for Heavy Metal Removal"

10:40 Y. P. Paul Hsu (Tsing Hua University-Hsinchu)
"Alleic Association of Tryptophan Hydrolase with Alcoholism in Taiwan Ethnic Groups"

11:00 Kazuo Nagai (TiTech)
11:20 Mitsuyoshi Ueda (Kyoto University)
"Cell Surface Engineering - Construction of Arming Yeast with Biocatalysts"

11:40 A (Tsinghua University-Beijing)
12:00 Lunch

13:00 B (Tsinghua University-Beijing)
13:20 C (Tsinghua University-Beijing)

**Nanobiology**

13:40 Byung Ha Oh (Pohang University of Science and Technology, POSTECH)
"Crystal Structure of Human TRIAL: Potentially Important Cytosine as a Safe Anticancer Agent"
14:00 Tomokazu Matsue (Tohoku University)
"Imaging of Cellular Activity by Electrochemical Microscopy"

14:20 Shi Yuny (University of Science and Technology of China, USTC)
"Protein Structure Based Ligand Design by Dynamically Assembling Molecular Building Blocks"

14:40 Atsushi Ikai (Titech)
"Nano-mechanism of Protein and Polypeptide Stretching Using an Atomic Force Microscope"

**Poster Session**

1. Pei-Rong Hu (Fudan)
   "cDNA Cloning, Expression Pattern Analysis and 8P23.1 Chromosome Assignment of MSRA, a Human Gene Involved in the Reduction of Methionine Sulfoxide Residues in Proteins"

2. Kevin W-H Lo (HKUST)
   "Structure and function of ALG-2: a novel apoptosis linked gene product"

3. Lan Luo (Nanjing University)
   "Increase of the Nitric Oxide Synthase-positive Neurons in Hyppocampus by Chronic Mild Stress and its Restoration by Fluoxetine"

4. Hajirne Kobayashi (Osaka University)
   "Analytical Systems for Morphogenesis and Gene Expression in Root-Nodule Bacteriod"

5. Dong Goo Bae (POSTECH)
   "Identification of Anti-VEGF Peptides from Peptide Libraries"

6. Sheue-Fang Shih (Taiwan University)
   "Mechanism of antitumor activity of abrin"

7. Yu-Hauh Wu (Taiwan University)
   "Proteins cross-talking with ricin by yeast two hybrid systems"

8. Huan Y. Chen (Tsing Hua University-Hsinchu)

9. Qingdu Liu (USTC)
   "Purification, Molecular Cloning and Expression of Acutin, a Disintegrin-like/Cysteine-rich Two Domain Protein which is the Proteolytic Product of a Large Hemorrhagic Metalloproteinase from Agkistrodon acutus"

10. Tomoyuki Yasukawa (Tohoku University)

11. T. C. Chan (University of Tokyo)
1999 AEARU Workshop on Molecular Biology and Biotechnology
Application Form for Registration & Accommodations

Please return this form as early as possible, via fax
FAX: 81/45/924-5779

Association Professor Eiry KOBATAKE, Secretariat, 1999 AEARU
Graduate School of Bioscience and Biotechnology, TiTech
Nagatsuta, Midori-ku
Yiokohama 226-8501
JAPAN

Prof. ___ Dr. ___ Mr. ___ Ms. ___ Name: ____________________________
Family First

AFFILIATION_____________________________________________________

MAILING ADDRESS (Office___ Home___)

_________________________________________________________________
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Zip Code_________________ Country _______________________________
E-MAIL___________________________
PHONE__________________________ FAX___________________________

ACCOMPANYING PERSON
Prof. ___ Mr. ___ Mrs. ___ Ms. ___ Name ____________________________
Family First

ACCOMMODATIONS FOR FOREIGN PARTICIPANTS

Shinagawa Prince Hotel
4-10-30 Takanawa, Minato-ku, Tokyo 108-8611
PHONE: 81/3/3440-1111 FAX 81/3/3441-7092

Check in Date_______________ Check out date_________ # Nights_____
Single Room _________ Yen 11,500 per night (with breakfast and tax)
Twin Room _________ Yen 19,950 per night (with breakfast and tax)
3rd Molecular Biology and Biotechnology Workshop
Tokyo Institute of Technology

Date: November 19-20, 1999
Place: Centennial Memorial Hall, Tokyo Institute of Technology, Ookayama, Meguro-ku, Tokyo, Japan

Organizing Committee:
- Chair, Prof. M. Aizawa (TiTech), Prof. Honghai Wang (Fudan Univ.),
- Prof. Mingjie Zhang (HKUST), Prof. Changwon Kang (KAIST),
- Prof. Fumihiko Sato (Kyoto Univ.), Prof. Ren Xiang Tan (Nanjing Univ.),
- Prof. Jung-Yaw Lin (Taiwan Univ.), Prof. Tse-Wen Chang (Tsing Hua Univ.),
- Prof. Y. Murooka (Osaka Univ.), Prof. Hongya Gu (Peking Univ.)
- Prof. Chi-Bom Chae (POSTECH), Prof. Jeomgbin Yim (SNU),
- Prof. Akihiro Shima (UT), Prof. Tomokazu Matsue (Tohoku Univ.),
- Prof. Nam-ming Zhao (Tsinghua Univ.), Prof. Yunyu Shi (USTC),
- Prof. Takaaki Maekawa (Univ. of Tsukuba)

Secretariat:
Dr. Eiry Kobatake (Graduate School of Biosciences and Biotechnology, TiTech)
Intl. Affairs Section, Research Cooperation Division, TiTech

Participants: 81 (including 17 students)

Program:

| Nov. 19     | 1. Opening  |
|            | 2. Plenary  |
|            | 3. Session A, Medical Biotechnology |
|            | 4. Session B, Cell and Tissue Engineering |
|            | 5. Poster Session, Presented by Students |
| Nov. 20    | 6. Session C, Biomolecular and Bioprocess Engineering |
|            | 7. Session D, Nanobiology |
|            | 8. Round-up Discussion |
|            | 9. Tour |
|            | 10. Banquet |

Remarks:
Following the request by the Organizing Committee of the 2nd Workshop, graduate school students have been invited to present posters. Financial support has been provided for nine foreign students.

Next Workshop:
It was suggested that the 4th Workshop be hosted by Pohang University of Science and Technology.