



# 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 Antitumor 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 Transplantation 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)  
"Allelic 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 Hypocampus 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  
Yokohama 226-8501  
JAPAN

Prof. \_\_\_ Dr. \_\_\_ Mr. \_\_\_ Ms. \_\_\_ Name: \_\_\_\_\_

Family First

AFFILIATION \_\_\_\_\_

MAILING ADDRESS (Office \_\_\_ Home \_\_\_)

\_\_\_\_\_  
\_\_\_\_\_

Zip Code \_\_\_\_\_ Country \_\_\_\_\_

E-MAIL \_\_\_\_\_

PHONE \_\_\_\_\_ FAX \_\_\_\_\_

### ACCOMPANYING PERSON

Prof. \_\_\_ Mr. \_\_\_ Mrs. \_\_\_ Ms. \_\_\_ Name \_\_\_\_\_

Family First

### ACCOMODATIONS 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	<ol style="list-style-type: none"><li>1. Opening</li><li>2. Plenary</li><li>3. Session A, Medical Biotechnology</li><li>4. Session B, Cell and Tissue Engineering</li><li>5. Poster Session, Presented by Students</li></ol>
Nov. 20	<ol style="list-style-type: none"><li>6. Session C, Biomolecular and Bioprocess Engineering</li><li>7. Session D, Nanobiology</li><li>8. Round-up Discussion</li><li>9. Tour</li><li>10. Banquet</li></ol>

**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.