

# SUMMER PROGRAM 2010

(TOWARD PROMOTION OF INTERNATIONAL COMMUNICATION IN SCIENCE)

*Institute of Health Biosciences, The University of Tokushima Graduate School,  
Institute for Enzyme Research, Institute for Genome Research,  
& International Center, The University of Tokushima*

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**July 25-August 1, 2010**

**Health Bioscience Course**

## PROGRAM

- I GUIDANCE AND RECEPTION
- II LECTURE
- III LABORATORY TRIP IN KURAMOTO CAMPUS
- IV EXCURSION TO VISIT THE BIO INDUSTRIES IN TOKUSHIMA
- V EXPERIENCE OF JAPANESE CULTURES SPECIAL IN TOKUSHIMA

For Registration, send application form to: [kasoku@jim.tokushima-u.ac.jp](mailto:kasoku@jim.tokushima-u.ac.jp)

Contact: Tel: +81-88-656-7079

Fax: +81-88656-9873

(II LECTURE)

## Graduate Program in English

### “Global Topics of Interdisciplinary Health Care”

-ESSENTIAL LABORATORY TECHNIQUES IN LIFE SCIENCES AND ITS APPLICATION TO  
MEDICAL AND HEALTH BIOSCIENCES-

#### Contents (Tentative Titles)

#### 1. Cell and Tissue Culture (Graduate School of Oral Sciences)

- 1) From Basic to Clinic
- 2) Application of cell culture experiments to oral Sciences

#### 2. Protein Experiments (Institute for Enzyme Research)

- 1) Expression and Purification of Recombinant Proteins
- 2) Characterization and Proteomics Analysis
- 3) Crystallization and X-ray Crystallography

#### 3. Antibody Experiments in Biochemistry (Graduate School of Nutrition and Bioscience)

- 1) Western blotting
- 2) Immunoprecipitation experiment
- 3) ELISA and RIA

#### 4. Immunohistochemistry (Graduate School of Medical Sciences)

- 1) Basic techniques for immunological researches
- 2) Recent advances of immunological researches

#### 5. Gene analysis techniques 1 (Graduate School of Pharmaceutical Sciences)

- 1) mRNA detection by Northern blotting and QRT-PCR/real-time PCR
- 2) in situ hybridization
- 3) Assessment of promoter region by luciferase assay and gel shift assay
- 4) siRNA, its principle and protocol

#### 6. Gene analysis techniques 2 (Institute for Genome Research)

- 1) Genome analysis of autoimmune diseases
- 2) SNP analysis for identifying disease susceptibility in human
- 3) Gene expression profiling and cancer drug discovery
- 4) Real-time monitoring of endoplasmic reticulum stress signaling

**Program Information**  
**“SUMMER PROGRAM 2010**  
**–Health Bioscience Course”**  
**at The University of Tokushima**

## INTRODUCTION

Institute of Health Biosciences, Institute for Enzyme Research, Institute for Genome Research and International Center of the University of Tokushima, proudly announce the “SUMMER PROGRAM 2010 – Health Bioscience Course (TOWARD PROMOTION OF INTERNATIONAL COMMUNICATION IN SCIENCE) ” for international students. We believe the program will have significant meaning in improving your international communication skills in sciences as well as in experiencing real Japanese culture and life. We hope many international students apply for our program. For detail information about this program, please refer to our program schedule and curriculum design.

## Date and Venue

July 25 (Sun) –August 1 (Sun), 2010  
The University of Tokushima, Kuramoto Campus

**Deadline for Application: June 24 (Thu), 2010**

Please e-mail us with the application form to [kasoku@jim.tokushima-u.ac.jp](mailto:kasoku@jim.tokushima-u.ac.jp)

## PROGRAM CAPACITY

Maximum Capacity: 20 students

## NECESSARY EXPENSES

Oversea travel insurance, Round-trip airfare, Transportation, Room & Board, and Activity charges.

\*The Univ. of Tokushima provides all participants with subsidy, 50,000 yen per person.

\* The Univ. of Tokushima covers Tuitions, Welcome Party fee.

## OTHERS

### 1. About Oversea Travel Insurance

All students are requested to have travel insurance before their departure. **If you do not have insurance before you leave your home country, you cannot attend our program.**

\* You can apply for the program even without having travel insurance.

### 2. Lodging

During this program, you will stay at our on-campus guest houses (Shinkura-kaikan, or Seiran-kaikan, Nagai Memorial Hall). In the guest houses, you may have to share a room with other students.

The guest house **Shinkura-kaikan** has its own public bathing facilities for men and women.

#### **Shinkura-kaikan**

Address: Shinkura-cho 2-24, Tokushima-shi, Tokushima, JAPAN, 770-8501

**Seiran-Kaikan, Nagai Memorial Hall** (equipped with private bath room)

Address: Kuramoto-cho 3-18-15, Tokushima-shi, Tokushima, JAPAN, 770-8503

**3. Flight**

Please reserve your flight by yourself. Be sure to reserve the same flight with other participants from your university.

## **CONTACT & REGISTRATION INFORMATION**

**Summer Program Organizing Committee**

**Chairman**

**Kiyoshi Fukui, M.D., Ph.D.**

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