

**Announcement-Call for participation
“SUMMER PROGRAM 2012
–Health Bioscience Course”
at The University of Tokushima**

Dear Sir/Madam,

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 2012 – 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 detailed information about this program, please refer to our program schedule and curriculum design.

Who can apply?

Graduate students or above with deep knowledge on health bioscience studies

*We accept applications only from the universities which have already concluded exchange agreement with the Univ. of Tokushima.

When and where?

July 29 (Sun) –August 5 (Sun), 2012
The Univ. of Tokushima, Kuramoto Campus

How many students?

Maximum Capacity: 30 students

How to apply?

Students of UT partner universities should contact the International Office of their home universities and request to send the application form through their office.

Deadline for Application: May 25 (Fri), 2012

Necessary Expenses

About 30,000 yen

* Fees include:

Accommodations (July 29th~August 5th) / Transportation fees to Tokushima and back to Kansai International Airport / Activity charges

* Fees do not include

Round-trip airfare / overseas travel insurance / Meals during your stay in Japan

*The Univ. of Tokushima offers 80,000 yen (800USD) scholarship to up to 30 attendants.

*The Univ. of Tokushima covers tuition and party fees.

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.**

We will ask all participants to submit the copy of their travel insurance upon arrival.

2. Flight

Please reserve your flight by yourself. Be sure to reserve the flights arriving at and leaving from Japan within July 23-August 10 with other participants from your university.

CONTACT & REGISTRATION INFORMATION

Summer Program Organizing Committee

Chairman

Hideo Araki, M.D., Ph.D.

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SUMMER PROGRAM 2012

(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*

July 29-August 5, 2012

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**

(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

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

2. Protein Experiments

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

3. Antibody Experiments in Biochemistry

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

4. Morphological methods for medical sciences

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

5. Gene analysis techniques 1

- 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

- 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

7. Clinical oncology and Bioimaging

- 1) Gene analysis in oncology
- 2) Bioimaging for health science

8. Interdisciplinary field of medicine and engineering