

SUMMER SCHOOL 2011

UNIVERSITY OF TSUKUBA



We are pleased to announce that we will hold the 2nd Summer School as a part of Global 30 Program this year again.

We have picked up 4 courses in the field of medical sciences for advanced studies and you can take an in-depth look at a variety of scientific subjects.

You will join a vibrant community and receive stimulus of intellectual curiosity. We believe you will have a productive and rewarding experience at University of Tsukuba this summer.



Date : August 1 (Mon) - 5 (Fri), 2011

Place : Graduate School of Comprehensive Human Sciences
University of Tsukuba, Japan

Requirement: Ability to understand English

School Schedule:

Aug. 1	Orientation
Aug. 1 ~ 4	Coursework (including Evening Lectures 19:00-21:00)
Aug. 5	Presentation

How to apply: Complete the attached application form and send it as an attachment to the address below by **June 20, 2011**.

University of Tsukuba, Faculty of Medicine, International Office

Email: med.office@un.tsukuba.ac.jp

Documentary selection will be done by the end of June.

PROGRAM

(1 COURSE PER PARTICIPANT)

Course I : Laboratory of
diagnostic pathology
by Dr. Masayuki NOGUCHI



The department of pathology in University Hospital of Tsukuba is managing more than 30000 human materials in a year. This course offers the exercise of macroscopic and microscopic diagnoses of various human tumors.

Course III : Department of Anatomy
and Embryology
by Dr. Satoru TAKAHASHI



We are researching the molecular mechanisms of the development of pancreatic endocrine cells and macrophages by analyzing the function of the large Maf family of transcription factors . We have made genetically manipulate mice about these genes and analyzed their in vivo function.

- 1) Histological analysis of genetically manipulated mice
- 2) Handling skill for mouse embryos

Course III : Clinical Epidemiology

by Dr. Yukiko WAGATSUMA

Clinical epidemiology has been evolved in modern medicine. That helps to understand the conceptual gaps between structured experience of basic science and the more complex, open-ended problems arising for the care of patients. Based on the principals of clinical trials and the use of clinical pidemiology, we tried to provide the evidence towards improving the care of the patients.

Course IV : Microbiology

by Dr. Shinji SAITO and

Dr. Kazuya MORIKAWA



Title: Laboratory diagnosis of infectious diseases

In this microbiology course, you will learn techniques to isolate and characterize several pathogenic bacteria. These include selective and enrichment techniques, staining procedures for microscopic observation (Gram staining, acid-fast staining, spore staining etc.), immunological/biochemical characterization, and antibiotics susceptibility tests. Pathogens will be isolated even from your own body!

In lectures, you will also learn a variety of strategies of pathogenic bacteria to cause infectious diseases, and mechanisms how bacteria get resistance to bactericidal factors including antibiotics.