



## Biotechnology Center of Ho Chi Minh City University of Tsukuba, Faculty of Medicine



# Experimental Course in Biotechnology in Medicine

## Bioinformatics Workshop

*January 15 - 17, 2018*

Practical training course for biomedical research scientists.

## Workshop on Infection Diagnosis

*January 15 - 19, 2018*

Laboratory training course for diagnosing bacterial pathogenic species.

*For information regarding the course, please contact the University of Tsukuba, Ho Chi Minh City office at : [http://www.kokuren.tsukuba.ac.jp/overseas\\_offices/hcmc\\_office/](http://www.kokuren.tsukuba.ac.jp/overseas_offices/hcmc_office/)*





# Bioinformatics Workshop

Biotechnology Center, Ho Chi Minh City &  
University of Tsukuba, Faculty of Medicine.

Jan 15-17, 2018

This workshop is a part of "Biotechnology in Medicine" course

Students will learn how to use genomics databases and bioinformatics tools through hands-on experiences of 2nd-generation sequencing data analysis. This course also provides introduction to Linux shell scripting for constructing semi-automated data processing workflow.

## Course Program:

### Day 1 (Jan 15):

- Standard data format, UCSC Genome browser, Galaxy and web tools.
- Analysis of published datasets (for project assignment)

### Day 2 (Jan 16):

- Linux shell scripting for batch data processing and analysis workflow
- Project work

### Day 3 (Jan 17):

- Genomics data privacy and clinical research ethics
- Project presentation and review



筑波大学  
University of Tsukuba

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Tel: (028) 3952 6007 ; 0932514923  
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# Workshop on Infection Diagnosis

Biotechnology Center, Ho Chi Minh City &

University of Tsukuba, Faculty of Medicine.

January 15-19, 2018

This workshop is a part of “Biotechnology in Medicine” course

In this workshop, students will learn principles and techniques to identify and characterize pathogenic bacteria from patient samples. They also learn and discuss the current situation in infectious disease diagnosis and epidemiology in Vietnam.

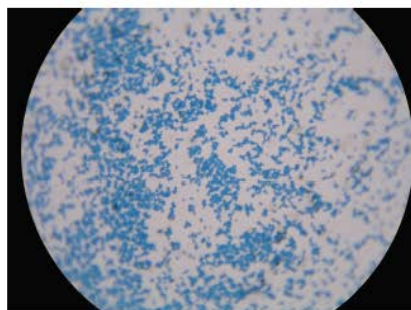
## Course Program (tentative):

- ❖ Lectures: Identification of pathogenic bacteria, mechanisms of drug resistance
- ❖ Practice:

- Culture method
- Biochemical characterization
- Antibiotics susceptibility tests
- Gene analysis

- ❖ Discussion & Presentation

Supervisors: Prof. Kazuya Morikawa, Prof. Kiong Ho, Dr. Nguyen Thi Le Thuy



For further information, please contact:

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