



# 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/



# **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



For information regarding the course, please contact:
University of Tsukuba, Ho Chi Minh City office at:
http://www.kokuren.tsukuba.ac.jp/overseas\_offices/hcmc\_office/
Tel: (028) 3952 6007; 0932514923
Email: ut.vietnam@un.tsukuba.ac.jp



# **Workshop on Infection Diagnosis**

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

January 15 - 19, 2018

This Workshop is a part of "Biotechnology in Medicine"

In this workshop, students will approach the emerging topic of infection "Current trends in antimicrobial resistance" and will learn the methods to detect multidrug-resistant bacteria (MDRB). Throughout the workshop participants will have the opportunities to share and discuss the experiences in the field and solutions to treat MDRB.

#### Course Program (tentative):

- Lectures: Current trends in antimicrobial resistance (AMR), antimicrobial susceptibility testing methods, mechanisms of drug resistance.
- Practice:
  - Bacterial identification: culture method, biochemical characterization.
  - Antibiotics susceptibility testing
  - Gene analysis: PCR, multiplex PCR, sequencing.
- Discussion & Presentation

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



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