**Workshop on Infection Diagnosis**

**Biotechnology Center of Ho Chi Minh City &**

**University of Tsukuba, Faculty of Medicine**

**August 26 - 28, 2019**

**Course Program (TBA)**

**Day 1 (Mon 26)**

8:30 – 9:00 Registration

9:00 – 9:20 Opening Ceremony & Introduction

9:20 – 9:30 Course introduction

(Dr. Nguyen Thi Le Thuy, Biotechnology Center of Ho Chi Minh City)

9:30 – 10:30 Special Lecture - Update on antimicrobial resistance (TBA)

(Dr. Truong Thien Phu (Cho Ray Hospital)/Dr. Nguyen Tuan Anh (School of

Medicine, National University, HCMC)

10:30 – 12:00 Safety lecture, Gram staining

12:00 – 13:00 Lunch

13:00 – 13:30 Lecture 1 – Antimicrobial susceptibility tests

(Prof. Morikawa Kazuya, University of Tsukuba)

13:00 – 15:00 Oxidase, Catalase, Culture on selecting media

15:00 – 17:00 Antibiotic susceptibility test by Disk diffusion (screening)

17:00 – Clean up

**Day 2 (Tue 27)**

9:00 – 11:00 Coagulase test, API identification, Check Antibiotic susceptibility screening results

11:00 – 12:00 PCR amplification of *rpoB* gene

12:00 – 13:00 Lunch

13:00 – 16:00 Agarose gel/ Cycle sequencing

(during reaction) Lecture 2 – Mechanisms of drug resistance

(Prof. Morikawa Kazuya, University of Tsukuba)

16:00 – 17:00 Antibiotic susceptibility confirmatory tests, MIC

17:00 – Clean up

**Day 3 (Wed 28)**

9:00: – 10:00 DNA Sequencing

10:00 – 12:00 API results, Check antibiotic susceptibility results of day 2

12:00 – 13:00 Lunch

13:00 – 15:00 Analyze sequencing data

Group discussion

15:00 – 16:30 Presentation

16:30 – 17:00 Certificate and Closing Remarks