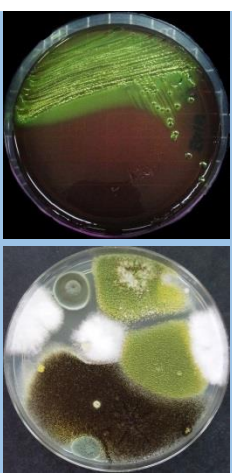




# 4<sup>th</sup> WORKSHOP ON BASIC FOOD MICROBIOLOGY TECHNIQUES

## Introduction:

Diagnostic microbiology is the study of microbial identification. The two most frequently employed methods are cultural (*i.e.*, differential media) and molecular (*i.e.*, genome sequencing), both with their own established advantages; cultural method is cheap and convenient, while molecular method is more rapid but requires the help of certain equipment.



For food industries, however, cultural method, especially microbial enumeration, remains the "first-line defence" in quickly and economically determining acceptance or rejection against food and trade regulations. The routine isolation and identification of certain foodborne microorganisms such as *Listeria*, *Bacillus* and coliforms are also vital to the food industry in ensuring that their manufacturing control mechanisms are effective in reducing the risk of food spoilage and food poisoning.

During this two-day workshop, participants will be exposed both theoretically and practically to the primary cultural techniques such as the 5 I's (*i.e.*, inoculation, incubation, isolation, inspection, identification), that are both important and relevant in tackling the issues of microbiological food safety at the food industry. Essential methods such as sampling, testing and data interpretation against the food regulations will also be covered to better equip the food industry personnel in maintaining the safety and quality of their food products.

## Trainers:

- **Assoc. Prof. Dr. Nor Khaizura Mahmud @ Ab Rashid**  
*BSc (UPM), MSc (UPM), PhD (Massey, NZ)*
- **Dr. Nik Iskandar Putra Samsudin**  
*BSc Hons (UPM), MSc (UM), PhD (Cranfield, UK)*



## Who should attend:

- Post-graduate students
- QA/QC from food industries
- Researchers in food microbiology



## Registration Fee:

- Student (UPM) : **RM 850.00**
- Student (others) : **RM 875.00**
- Government agency : **RM 900.00**
- Private institution : **RM 925.00**

# 8<sup>th</sup> – 9<sup>th</sup> Dec, 2020

*organised by*

**Faculty of Food Science and Technology  
Universiti Putra Malaysia &  
UPM Education & Training Sdn. Bhd.**

- *Limited seats available • HRDF claimable •*
- *Meals and certificate will be provided •*

## Program Tentative:

### Day 1

- Lecture 1 : Diagnostic methods
- Lecture 2 : Food hygiene and sanitation
- Practical 1 : Sampling and sample preparation
- Practical 2 : Common food microbiology tests

### Day 2

- Lecture 3 : Food regulation and interpretation
- Practical 3 : Microbial enumeration methods
- Closing : Q&A and certificate-giving ceremony

## Registration (Google Form):

- <https://bit.ly/3gEaVeM>
- Due date for registration and payment:  
**16<sup>th</sup> Nov, 2020**
- No refund or cancellation is allowed

## For more details, please contact:

Person-in-charge : Mrs. Norlinawati Abd Halim  
E-mail : [norlinawati@upm.edu.my](mailto:norlinawati@upm.edu.my)  
Telephone : +603 – 9769 8386 / 8375

## United Nations Sustainable Development Goals:



**AGRICULTURE • INNOVATION • LIFE**