The Chinese University of Hong Kong
Faculty of Medicine
Department of Microbiology

Certificate Course in Medical Microbiology Face-to-face Module (23 June – 27 June 2026)

Date / Time	Location	Venue: Pathology Teaching Laboratory, 1/F, Lui Che Woo Clinical Sciences Building, Prince of Wales Hospital (Old Block), Hong Kong
23 June, Tuesday		
09:00 – 09:30	Student Lab	Welcome and Introduction (Prof Christopher LAI)
09:30 – 11:00	Student Lab	Microbiology Perspective (Prof Raphael CHAN)
11:00 – 11:15		Break
11:15 – 12:45	Student Lab	TBC New Diagnostics on Mycology (Dr Alfred LEE)
12:45 – 14:15		Lunch
14:15 – 16:15	Student Lab	Surveillance of Infectious Diseases and Infectious Disease Outbreak Management (Prof Tony NG)
16:15 - 16:30		Break
16:30 – 17:30	Student Lab	Infection Control (Prof Kitty FUNG)
24 June, Wednesday		
09:00 – 10:30	Student Lab	Quality Management in the Clinical Laboratory (Prof Thomas WAN)
10:30 – 10:45		Break
10:45 – 12:15	Student Lab	Accreditation in Hong Kong medical laboratories (Dr River WONG)
12:15 – 13:45		Lunch
13:45 – 17:30	Student Lab	Collaborative Project Workshop 1
25 June, Thursday		
09:00 – 11:00	Student Lab	Modern Diagnostics Technology and Accreditation (Prof Thomas LING)
11:00 – 11:15		Break
11:15 – 13:15	Student Lab	Workshop: Application of Sequencing and Bioinformatics (Prof Zigui CHEN)
13:15 – 14:30		Lunch
14:30 – 17:00	Student Lab	Introduction to Metagenome-Assembled Genomes (MAG) (Prof Sishuo WANG)

26 June, Friday		
09:15 – 10:45	Student Lab	Beta-lactamases and Mobile Genetic Elements (Prof Julia LING)
10:45 – 11:00		Break
11:00 – 12:30	Student Lab	P3 Laboratory Implementation (Dr Peter YIP)
12:30 – 14:00		Lunch
14:00 – 17:30	Student Lab	Collaborative Project Workshop 2
27 June, Saturday		
09:30 – 11:00	Student Lab	Group Presentation (Assessment) (Prof Christopher LAI)
11:00 – 11:15		Break
11:15 – 12:45	Student Lab	P3 Lab Design and Safety (Dr Alf CHU)
12:45 – 13:30	Student Lab	Closing Ceremony and Certificate Presentation (Prof Christopher LAI)
Checkout and Farewell Dinner		

Certificate Course in Medical Microbiology Online Module (25 May – 22 June 2026)

Online Lecture	Lecturer	Topic
Online Lecture 1	Prof Paul CHAN	1. Approaches in Diagnostic Virology 2. Essential Epidemiological Concepts in Microbiology
Online Lecture 2	Prof Siaw Shi BOON	1. Introduction to human tumour viruses and viral carcinogenesis 2. Treatment strategies for oncoviruses and oncolytic therapy
Online Lecture 3	Prof Xiao YANG	Approaches in Development of Novel Antimicrobials
Online Lecture 4	Prof Christopher LAI	1. Application of Machine Learning and New Diagnostic Technologies in Clinical Microbiology 2. The Microbiome, Antimicrobial Resistance, and Drug Interactions
Online Lecture 5	Prof Rita NG	1. Gut Microbiome and Neurodevelopmental Disorders 2. Faecal Microbiota Transplantation
Online Lecture 6	Prof Margaret IP	Lecture on ‘Antibiotic Stewardship’ Programme

Note:

1. The online module will be conducted in a **self-paced learning** format. Lecture videos will be released according to the release dates stated. A separate email will be sent to participants with details on how to access the lecture videos and related materials.

2. Participants are expected to complete all online lectures before attending the face-to-face module starting on 16 June 2026.

3. All lecture materials are **copyrighted** and provided **exclusively for registered participants**. **Reproduction, distribution, or sharing** of the materials in any form without prior permission is **strictly prohibited**.

Certificate Course in Medical Microbiology Collaborative Project Workshop:

	Group 1	Group 2	Group 3
PI:	Dr Siaw Shi Boon	Prof Zigui Chen	Prof Christopher Lai & Prof Rita Ng
Topic:	Molecular Biology & Diagnostics	Virology & DNA Sequencing	Clinical Microbiology, Clinical Attachment & Infection Control

Grouping detail:

Group 1: Molecular Biology & Diagnostics	Topics: Molecular diagnostics, QTC (Quantitative Tissue Culture), metagenomics, and molecular methods.
	Focus: Advanced diagnostic techniques, molecular pathology, and cutting-edge applications in diagnostics.
Group 2: Virology & DNA Sequencing	Topics: Virology essentials, bacteriology techniques, and core laboratory methods.
	Focus: Enhanced methods for identification, analysis, and exploring clinical relevance of viruses and bacteria.
Group 3: Clinical Microbiology, Clinical Attachment & Infection Control	Topics: Infection control, clinical practice, clinical attachment, specialized laboratory techniques and interpretation.
	Focus: Real-world clinical scenarios, updated microbiology practices, advanced specialized methods, and current infection control standards in healthcare.

Notes:

1. Group allocations are based on the preferences submitted in the registration form.
2. Students can use the online discussion forum (details to be provided separately) to communicate with their assigned Project Instructor (PI) and discuss project ideas prior to the face-to-face module.
3. Each group is required to submit a draft of their collaborative project during the first Collaborative Project Workshop session.
4. Each group will deliver a Group Project Presentation on **27 June 2026** as part of the course assessment.

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