

**The University of Hong Kong**  
**Department of Pathology**

**Master of Molecular and Diagnostic Pathology**  
**Diagnostic Pathology, Course 3**

**MMDP7008 Molecular Microbiology**

Course Coordinators: Prof. US Khoo & Prof Siddharth Sridhar

5-6 October 2024

Venue: Room 035, 6/F., Block T, Queen Mary Hospital

<b>Saturday, 5 October 2024</b>		
	<b>Topics</b>	<b>Lecturers</b>
9.00 am - 9.15 am	Opening remarks	Prof. US Khoo
9.15 am - 11:15 am	<b>I. Clinical application in bacteriology</b>	
	a) Bacterial pathogens: typical and atypical, mycobacterium species	Dr. Jonathan Chen
	b) Molecular and MALDI-TOF MS approaches for the diagnosis of sepsis, infections of gastrointestinal tract and central nervous system	Dr. Jonathan Chen
Tea break (5-mins)		
11.20 am - 11.30 am	Staff-Student Consultative Meeting of MMDP7009 & MMDP7019	Prof CW Lam & Prof US Khoo
11.30 am - 12:30 am	<b>II. Clinical application in mycology and parasitology</b>	
	a) Fungal pathogens	Dr Franklin Chow
	b) Parasite and tick-borne pathogens	Dr Rosana Poon
Lunch break		
1:30 pm - 3:25 pm	<b>III. Clinical application in molecular surveillance and outbreak management</b>	
	a) Application of Next Generation Sequencing in clinical diagnosis and hospital infection control	Dr. Jonathan Chen
	b) Principles of molecular phylogenetic analysis and molecular typing method	Dr. Jonathan Chen
Tea break (5-mins)		
3:30 pm - 5:30 pm	c) Limitations, future perspectives	Dr. Jonathan Chen
	d) Clinical case application and discussion	Dr. Jonathan Chen

<b>Sunday, 6 October 2024</b>		
	<b>Topics</b>	<b>Lecturers</b>
	<b>IV. Clinical applications in viral epidemiological surveillance and outbreak management</b>	
9.00 am - 10.00 am	a) Molecular approaches for viral pathogens	Dr Franklin Chow
10.00 am - 11.00 am	b) Clinical case application with discussion	Prof Sridhar Siddharth
Tea break (15-mins)		
11.15 am - 12.15 pm	c) Limitations and future perspectives	Dr Franklin Chow
12.15 pm - 1.15 pm	d) Laboratory and epidemiological considerations for data interpretation	Prof Sridhar Siddharth

<b>Saturday, 9 November, 2024</b>		
10:00 am - 10:00 pm	Quiz	