

Programme Brief

Workshop on Application of Molecular Diagnostics on Clinical Microbiology in Hong Kong

**Organised by Infectious Disease Control Training Centre, Hospital Authority/
Infection Control Branch, Centre for Health Protection;
Chief Infection Control Officer's Office, Hospital Authority**

Date: 20 Mar 2018 (whole day) and 21 Mar 2018 am

Venue: Lecture Theatre, G/F, Centre for Health Protection, 147C Argyle Street, Kowloon

Objectives:

The workshop would focus on the following aspects:

1. Advances in current and emerging technologies, including next-generation sequencing, and discuss the challenges in integrating these technologies in clinical labs.
2. Address the latest in rapid diagnostics for point-of-care testing, as well as challenges in diagnosing sepsis and epidemics like Zika.
3. Discussion on antimicrobial resistance with focus on susceptibility testing, including emerging technologies for this use.
4. Novel approaches for infectious disease diagnostics, as well as key outcome studies.

Target participants:

1. Medical staff of related specialties including Infectious Disease, Clinical Microbiology, Intensive Care Unit, Pathology, Paediatrics, Medicine, A&E, Public Health, Community Medicine and Family Medicine and other physicians who are interested in the subjects
2. Infection control nurses and other healthcare professionals who are involved in infection control
3. Laboratory related professionals who may be involved in the adoption of these latest developments

Programme outline:

1.5-day didactic lectures

International Faculties :

Dr David PERSING

Chief Medical and Technology Officer, Cepheid

Chief Scientific Officer (CSO) for the Danaher Diagnostics Platform

Consulting Professor of Pathology at Stanford University School of Medicine

Dr Robert LUO

Adjunct Pathology Faculty, Stanford University
Diagnostic Advisor and Board-certified pathologist

Local Faculties:

Prof Margaret IP
Dept of Microbiology
The Chinese University of Hong Kong/
Honorary Consultant
Dept of Microbiology
Prince of Wales Hospital

Dr Y K YEOH
Research Assistant Professor
Dept of Microbiology
The Chinese University of Hong Kong

Dr W C YAM
Visiting Associate Professor
Dept of Microbiology
Queen Mary Hospital Compound
The University of Hong Kong

Dr Gilman SIU
Assistant Professor
Department of Health Technology and Informatics
The Hong Kong Polytechnic University

Moderators :

Dr Andrew TY Wong
Head, Infection Control Branch, Centre for Health Protection & Consultant in-charge, Infectious
Disease Control Training Centre, Hospital Authority

Dr Dominic NC Tsang
Chief Infection Control Officer, Hospital Authority

Dr Christopher LAI
Associate Consultant, Department of Pathology, Queen Elizabeth Hospital

Programme Rundown

(Day One – 20 Mar 2018)

Time	Topic	Speaker
8:45 – 09:00	Registration	
09:00 – 09:15	Welcome address and souvenir presentation (Group photo taking)	
Session I	Fundamentals and Recent Developments in Molecular Microbiology (Moderator: Dr Andrew TY WONG)	
09:15 – 10:00	Novel & Emerging Technologies in Molecular Microbiology – diagnostic principles and practice	Dr David PERSING
10:00 – 10:45	Molecular microbiology & public health	Dr Robert LUO
10:45 – 11:00	Discussion Session	
11:00 – 11:15	Break	
11:15 – 12:00	Molecular Diagnosis of Drug Resistant Tuberculosis: Challenges and Opportunities	Dr W C YAM
12:00 – 12:30	Discussion Session	
12:30– 14:00	Lunch	
14:00 – 14:15	Registration	
Session II	Application of Molecular Microbiology (Moderator: Dr Christopher LAI)	
14:15 – 15:00	Recent Developments in Diagnosis of Mycobacterium Tuberculosis and non-tuberculosis mycobacterium	Dr David PERSING
15:00 – 15:45	Recent Developments in Diagnosis of Hepatitis B and C Virus	Dr Robert LUO
15:45 – 16:00	Discussion Session	
16:00 – 16:15	Break	
16:15 – 17:00	Basic Principles and Use of Bioinformatics for Analyses in Microbiology/Public Health	Prof Margaret IP/ Dr Y K YEOH
17:00–17:30	Discussion Session	
<u>End of of Day 1</u>		

(Day Two – 21 Mar 2018)

Time	Topic	Speaker
9:00 – 9:15	Registration	
<i>Session I</i>	The Way Forward for Hong Kong (Dr Dominic N C TSANG)	
09:15 – 10:00	Molecular Detection and Characterization and Point-of-care testing in HIV	Dr Robert LUO
10:00 – 10:35	Molecular diagnosis of drug resistant tuberculosis : The role of next generation sequencing	Dr Gilman SIU
10:35 – 10:45	Discussion Session	
10:45 – 11:00	Break	
11:00 – 11:45	Cloud-based data monitoring	Dr David PERSING
11:45 – 12:30	Round-Table Discussion on Application of Molecular Diagnostics on Clinical Microbiology in Hong Kong	<u>Convenor:</u> Dr Dominic TSANG Dr TY WONG

End of Day 2

Remarks:

All international and local faculties will be invited to participate and give expert advice/ views during all discussion sessions with interactive dialogue with the participants