## Aims of the course

To provide a clear understanding of the principles and practice of antimicrobial susceptibility testing.
To demonstrate and allow participants to perform disc , microbroth and automated susceptibility testing methods.
To provide an update on new and emerging issues in antimicrobial resistance, and on current detection methods.
To provide an overview of antibiotic reporting and surveillance.

## Target Audience

Microbiology Technologists, Microbiologists or other interested persons working in the field of infectious diseases and susceptibility testing.

## Format of the course

This technical workshop will comprise of small group practical sessions including practical, hands-on exposure to laboratory techniques and various susceptibility test methods. Advice and guidance will be given on test methodology, reading, interpretation and detection of antibiotic resistance phenotypes. Participants are encouraged to test, interpret and report susceptibility tests, using a test panel of organisms.
The lecture sessions are designed to provide a theoretical background to accompany the practical training sessions. Lectures will also include basic principles of susceptibility testing, antibiotic PK/PD, combination antibiotic testing, clinical aspects of infections, antibiotic reporting and antibiotic surveillance.

## Faculty members

The faculty comprises a multi-disciplinary team of clinical microbiologists, infectious disease physicians, pharmacists and laboratory technologists.

A/Prof. Koh Tse Hsien
A/Prof. Hsu Li Yang
Dr. Piotr Chlebicki
Dr. Tan Thean Yen
Dr. Tan Yen Ee
Dr. Jamie Tan
Mr. Lim Tze Peng
Ms. Jocelyn Teo
Ms. Winnie Lee Hui Ling
Ms. Lily Ng Siew Yong

## Mailing address & enquiries

***Mailing address for registration and payment:***

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Changi General Hospital
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***For enquiries, please email:***

Clementine_yap@cgh.com.sg

## Sponsors:

We gratefully acknowledge the support of the following organizations.

Bloxwich A part of ThermoFisher SCIENTIFIC
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MSD Be well

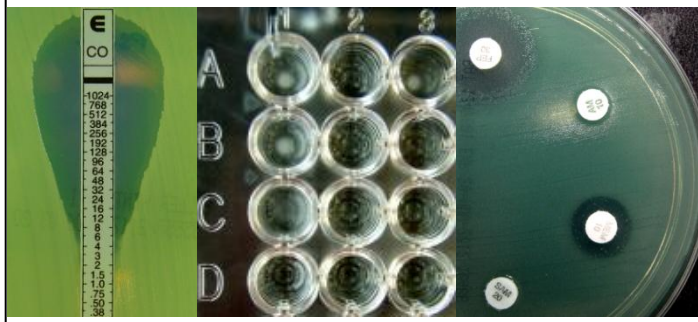
We also acknowledge support from:

Bio-Rad

Singapore Society of Pathology
&
Society of Infectious Diseases, Singapore

# Microbiology Technical Workshop

# Antimicrobial Susceptibility Testing




Department of Laboratory Medicine,
Changi General Hospital,
25-27th September 2013,
Singapore

*organised in conjunction with*

Changi General Hospital
Singapore General Hospital
SingHealth

## REGISTRATION DETAILS

### Registration Fees

***Course registration***

*includes lectures and practical workshops*

Participants from:**

| | |
|---|---|
| Singapore and other countries | $200 |
| Early registration fee, for registrations paid in full before 15 June 2013 | $150 |

(*limited to 20 participants*)

**(*please see exclusive registration fees below for participants from selected countries. The geographic location of the participant is defined as the country of residence or employment.*)

| | |
|---|---|
| ** Participants from: Vietnam, Timor-Leste, Philippines and Indonesia | SGD $50 |
| ** Participants from: Cambodia and Myanmar | waived |

In order to optimize the benefit from the practical workshops, places will be strictly limited to 20 participants. Early registration is recommended.

***Lectures***

*only includes attendance for lectures*

| | |
|---|---|
| Early registration fee, for registrations paid in full before 15 June 2013 | SGD $25 |
| Registration for the lectures | SGD $50 |

## MORE INFORMATION

**Visit the SSP website for more information**
http://singaporesocietypathology.weebly.com/courses.html
Registration forms are available from the website, or by writing to the course organisers at the contact details provided overleaf.

**Scan this code for more information:**

## WORKSHOP PROGRAMME

| Time | 25 SEPTEMBER Wednesday | 26 SEPTEMBER Thursday | 27 SEPTEMBER Friday |
|---|---|---|---|
| 9:00 -9:30 | REGISTRATION | **Antibiotic resistance**<br>Interpretative antibiotype reading<br>Dr. Tan Thean Yen | **Problems in the real world**<br>Extremely drug-resistant organisms: Synergy testing<br>Lim Tze Peng |
| | Welcome and introduction | | |
| 9:30 -10:00 | **The Basics**<br>Principles and practice of antimicrobial susceptibility testing.<br>CLSI / EUCAST / CDS : a review of testing systems.<br>To be announced | Difficult or tricky antibiotic resistance phenotypes to recognise<br>Dr. Koh Tse Hsien | Screening for resistant organisms<br>Dr. Koh Tse Hsien |
| 10:00 - 10:30 | TEA BREAK | TEA BREAK | TEA BREAK |
| 10.30 -11:00 | **The Basics (II)**<br>Agar & broth testing methods.<br>Automated susceptibility testing.<br>To be announced | **Getting the Basics Right**<br>Quality control and quality assurance for antibiotic testing<br>Lily Ng Siew Yong | **AST and the Clinician**<br>Use of antibiotics in clinical practice:<br>- common infections<br>- approach to diagnosis & treatment<br>Dr. Piotr Chlebicki |
| 11:00 -11:30 | **Beyond the Basics**<br>Supplementary test methods.<br>New & Old antibiotics - testing pitfalls.<br>Dr. Tan Thean Yen | **Antimicrobials: Everything you never wanted to know but were forced to find out**<br>Antibiotic classes, spectrum of activity, antibiotic reporting<br>Jocelyn Teo | **AST Reporting: How to get the biggest bang for your buck**<br>Clinically-orientated reporting, and antimicrobial stewardship<br>Dr. Hsu Li Yang |
| 11:30 -12:00 | Genotypic detection of antimicrobial resistance. | PK/PD for the beginner<br>Winne Lee | **Surveillance and Epidemiology**<br>Antibiotic resistance surveillance: cumulative antibiogram and software for resistance surveillance.<br>Dr. Hsu Li Yang |
| 12:00 - 1:30 | LUNCH BREAK | LUNCH BREAK | LUNCH BREAK |
| 1:30 - 3:00 | Workshop sessions<br>Disc susceptibility testing<br>Microbroth dilution methods<br>Gradient dilution methods<br>Unknown organisms (1)<br>Unknown organisms (2) | Workshop sessions<br>KPC, MBL, OXA<br>Microbroth dilution methods<br>Gradient dilutions methods<br>Unknown organisms (1)<br>Unknown organisms (2) | Workshop sessions<br>Automated methods<br>Unknown organisms |
| 3:00 - 3:30 | TEA BREAK | TEA BREAK | TEA BREAK |
| 3:30 - 5:00 | **Continuation of lab session** | **Continuation of lab session** | **Conclusion, Summary and Feedback session** |