



*Antimicrobial Resistance among Bacterial Pathogens:
Mechanisms, Detection and Molecular Epidemiology*

WORKSHOP

Jointly organized by:

Department of Clinical Pathology, Cairo University Medical School,
American Society for Microbiology (ASM), European Society of Clinical
Microbiology and Infectious Disease (ESCMID) and Society of Practitioners
of Infection Control of Egypt (SPIC-Egypt)

October 1st -3rd, 2009
Learning Resource Centre

Faculty of Medicine, Cairo University, Cairo, Egypt

Organizers

Amany El-Kholy, MD , PhD
Professor, Department of Clinical Pathology, Cairo
University.
Director, Microbiology Lab.,
Cairo University Hospitals, Cairo, Egypt

Atef El-Gendy, PhD
Molecular Epidemiology Unit,
United States Naval Medical Research Unit No.3, Cairo,
Egypt (NAMRU-3),
ASM Ambassador for North Africa & Middle East Region

Welcome Address

Dear Colleagues,

It's our pleasure to invite you to the first scientific activity in Egypt jointly organized by the American Society for Microbiology (ASM), the European Society for Clinical Microbiology and Infectious Diseases (ESCMID), Faculty of Medicine, Cairo University and Society of Practitioners of Infection Control of Egypt (SPIC-EGYPT). We are privileged to host an eminent faculty of world- known scientists in the field of antimicrobial resistance.

Antimicrobial resistance is spreading at such wide range as to threaten many of our patients and to render several antimicrobial agents virtually valueless, in our attempts to combat infections and save lives. The complexity of the problem and diversity of the mechanisms involved in developing resistance is challenging and requires a dedicated scientific activity, which is the purpose of this workshop.

On behalf of Cairo University, and Egyptian microbiologists, we look forward to a mutually fruitful workshop and hope for continued cooperation and networking between us all. I also hope that our guests enjoy their stay in Egypt and find it amusing and culturally stimulating.

Sincerely

Workshop Organizers

Amani El-Kholy, MD , PhD
Professor, Department of Clinical Pathology, Cairo University.
Director, Microbiology Lab., Cairo University Hospitals, Cairo, Egypt
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Atef El-Gendy, PhD
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ORGANIZING COMMITTEE

Amani El-Kholy, MD , PhD

Professor, Department of Clinical Pathology, Cairo University.
Director, Microbiology Lab., Cairo University Hospitals, Cairo, Egypt

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General Manager, Cairo University Hospital

Mervat Gaber El Anany, MD, PhD

Assist Prof, Department of Clinical Pathology, Cairo University.

Nagwa Khamis, MD, PhD

Consultant of Clinical Pathology and Infection Control
Ain Shams University Specialized Hospitals
President of SPIC-EGYPT

SECRETARIAT OF THE MEETING

Mrs. Rehab Mohamed

Mobile: 017 77 42 779 e-mail: workshopegypt@yahoo.com

LANGUAGE

The official language of the meeting is English. No simultaneous translation is available.

FACULTY *(Alphabetical Order)*

Ahmed El Gohary, MD PhD
Rector, Fayoum University, Egypt

Amani El-Kholy, MD , PhD

Professor, Department of Clinical Pathology, Cairo University.
Director, Microbiology Lab., Cairo University Hospitals, Cairo, Egypt

Atef El-Gendy, PhD

Molecular Epidemiology Unit,
United States Naval Medical Research Unit No.3, Cairo, Egypt (NAMRU-3),
ASM Ambassador for North Africa and Middle East Region

Brian Nordmann

U.S. Department of State.

David P. Calfee, MD, MS
Associate Professor of Medicine
Mount Sinai School of Medicine
Hospital Epidemiologist and Infection Control Officer, Mount Sinai Medical Center
New York, NY. USA

David P. Nicolau, Pharm D, FCCP, FIDSA
Center for Anti-Infective Research and Development
Hartford, CT. USA

Gianni Rossolini, MD, PhD
Full Professor of Microbiology and Clinical Microbiology,
University of Siena Medical School
Director of the Clinical Microbiology and Virology Unit
coordinator of antimicrobial resistance surveillance program
Siena University Hospital
ITALY

Giuseppe Cornaglia, MD, PhD
Professor of Microbiology, Department of Pathology, School of Medicine,
University of Verona, ITALY

Hadir El- Mahallawy, MD PhD
Professor, Clinical Pathology Department, National Cancer Institute, Cairo, Egypt

Ashraf Hatem, MD
Professor, Department of Pulmonology
General Manager, Cairo University Hospital

Hussien Rizk, MD, PhD
Professor, Department of Cardiology, Cairo University
Director, Endocarditis and Cardiovascular Infections, Cairo university hospitals

John Klena
Head, Molecular Epidemiology Unit, United States Naval Medical Research Unit No.3, Cairo, Egypt (NAMRU-3).

Jordi Vila, PhD, PharmD
Professor, Department of Microbiology, School of Medicine, University of Barcelona
Head of the Department of Clinical Bacteriology, Hospital Clinic,
Barcelona, Spain

Kiprotich Tonui, PhD
NEMA Lead (EIA/EA) Expert, Senior Research Officer and Health Safety and Environment Coordinator, Kenya
Medical Research Institute (KEMRI).

Luis Martínez-Martínez
Chief of Service of Microbiology. University Hospital Marqués de Valdecilla, Santander. Associate Professor.
Department of Molecular Biology. University of Cantabria
Spain

Magdy Genaidy, MD
Professor, Internal Medicine, Ain Shams University, Cairo, Egypt
Chairman, Arab Society for Infectious Diseases and Antimicrobials

Matilda Nicklasson, IEIP
Naval Medical Research Unit No.3, Cairo, Egypt (NAMRU-3).

Mona Wassef, MD, PhD
Professor, Department of Clinical Pathology, Cairo University

Scott Spence
The Verification Research, Training and Information Centre (VERTIC)

Stephen Brecher, PhD
Chief, Department of Microbiology
VA Boston Healthcare System
West Roxbury, MA. USA

Stephen G. Jenkins, Ph.D.
Director, Clinical Microbiology Laboratories, New York Presbyterian Hospital
Professor of Pathology and Laboratory Medicine, Weill Cornell Medical College
New York, NY. USA

Willy Kiprotich Tonui, PhD
Founder Member and President, African Biological Safety Association
(AfBSA) & Senior Research Officer and Health Safety and Environment
Coordinator, Kenya Medical Research Institute (KEMRI),
Kenya

PHYSICIANS AND MICROBIOLOGISTS

CONTINUING MEDICAL EDUCATION

The American Society for Microbiology is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The American Society for Microbiology takes responsibility for the content, quality, and scientific integrity of this CME activity.

The American Society for Microbiology designates this educational activity for a maximum of 21 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The American Medical Association (AMA) has determined that physicians not licensed in the U.S. who participate in this CME activity are eligible for AMA PRA Category 1 Credit™.

Diplomates of the American Board of Medical Microbiology, Diplomates of the American Board of Medical Laboratory Immunology, and Registrants of the National Registry of Microbiologists may earn AMA PRA Category 1 Credit™ toward re-certification. Each physician should claim credit commensurate with their level of participation in the activity.

CLIMATE

Weather in Cairo at the conference time is very pleasant with an expected temperature:

Expectations

Average Temperature	75°f (24°c)
Average Low Temperature	64°f (18°c)
Average High Temperature	86°f (30°c)
Average Precipitation	1mm
Average Rainfall Days	1 Days
Average Daily Sunshine Hours	9 Hrs



Antimicrobial Resistance among Bacterial Pathogens: Mechanisms, Detection and Molecular Epidemiology

1-3 October 2009, Cairo, Egypt

REGISTRATION FORM

PLEASE FILL IN BLOCK LETTERS SCAN AND E-MAIL TO
workshopegypt@yahoo.com OR FAX +202 2794 88 79

PERSONAL DATA	
First name /Last Name:	*
Name for badge:	
Courtesy Title:	Prof. <input type="checkbox"/> Dr. <input type="checkbox"/> Mr. <input type="checkbox"/> Ms. <input type="checkbox"/>
Address:	*
Postal Code:	*
City:	*
Country:	*
Phone:	*
Fax:	
Email:	*
Institution:	*

1. REGISTRATION FEES

	Up to July 15th 2009	From July 15th to First of September 2009
Regular	<input type="checkbox"/> 200 USD	<input type="checkbox"/> 300 USD
Students *	<input type="checkbox"/> 100USD	<input type="checkbox"/> 150 USD
Laboratory Practice	<input type="checkbox"/> 100 USD	<input type="checkbox"/> 150 USD

* A copy of your Student card is required when applying for registration

1 - Total Registration Fees= ----- USD

REGISTRATION

Registration Policy - Registrations will only be processed upon receipt of full payment. The fee for the laboratory practice is not included in the Workshop lectures fee. Advance registration is **REQUIRED** for the laboratory practice and **strongly encouraged** for the workshop lectures, as the number of participants is limited. On-site registration will NOT be available when workshop reaches capacity.

Cancellation Policy - Cancellations received until first of September, 2009 are eligible for full refund with a USD 50 deduction for administrative expenses. **No refunds after that date.**

2 – ACCOMMODATION

Hotel	Single Room	Double Room (2 beds)
1-Grand Hyatt	<input type="checkbox"/> 406 USD	<input type="checkbox"/> 467 USD
2-Semiramis Intercontinental	<input type="checkbox"/> 275 USD	<input type="checkbox"/> 300 USD
3-The Nile Tower Hilton	<input type="checkbox"/> 265 USD	<input type="checkbox"/> 265 USD

Hotel Check-In:  Hotel Check-Out:  Total Number Nights:

Hotel Preferences

Hotel allocation being made on a first-come, first-served basis, please indicate your preferences

2-Total accommodation fees=-----USD

Deadline for Hotel reservation: 1st September, 2009

Price and conditions indicated are only applied for reservations made exclusively through the conference website.

Payment - Confirmation of hotel reservation will be forwarded upon payment for one night, remaining nights will have to be paid directly at the hotel when checking out.

Cancellation Policy: Cancellations received until First of September, 2009 are eligible for refund of the first night, with a 50% deduction for administrative expenses. **No refunds after that date.**

3- OPTIONAL VISITOR TOURS (not included in the conference registration fee)

	1 Person	2 Persons
Cairo Sightseeing tour (Full Day) - Lunch included	<input type="checkbox"/> 80 USD	<input type="checkbox"/> 160 USD
Pyramids and Egyptian Museum (1/2 Day) - Lunch included	<input type="checkbox"/> 60 USD	<input type="checkbox"/> 120USD

3 - Total Optional Tours =----- USD

OPTIONAL TOURS

Note: Minimum number required for each tour: 20 persons. Full payment will be reimbursed if this number is not achieved. **Online Deadline for Reservation: 1st September, 2009**

4 - SPECIAL REQUESTS

If you have any disability, please specify:

Grand Total 1+2+3 ----- USD

5- METHOD OF PAYMENT

On- site **by wire transfer (see Bank information below)**

BANK INFORMATION:

Account Name/ payable to: SPIC- EGYPT

Bank Name: Barclays Bank, Ahmed Fakhry Branch.

Bank Address: 29 Ahmed Fakhry St., Nasr City, Cairo Egypt.

Account No: 40073780

Bank Swift Code: BCBIEGXX

Thursday 1st, October 2009

GRAM-POSITIVE ORGANISMS

7:30-8:00 Registration
8:00-8:30 OPENING CEREMONY

Session I 8:30-10:45

Moderators: Stephen Jenkins **Hadir El Mahallawy**

8:30-9:00 Epidemiology of the Most Relevant Gram-positive Bacteria.
Amani El Kholy

9:00-9:15 Open Discussion, Questions and Answers.

9:15-9:45 Detection and Resistance of *Staphylococcus aureus*.
Stephen Brecher

9:45-10:00 Open Discussion, Questions and Answers.

10:00-10:30 Antimicrobial Resistance among *Streptococcus pneumoniae*.
Stephen G. Jenkins

10:30-10:45 Open Discussion, Questions and Answers.

10:45-11:00

COFFEE BREAK

Session II 11:00-13:15

Chairpersons: Stephen Brecher **Amani El Kholy**

11:00-11:30 Resistance and Group A *Streptococcus*.
Stephen G. Jenkins

11:30-11:45 Open Discussion, Questions and Answers.

11:45-12:15 Detection and Resistance of Enterococci.
Stephen Brecher

12:15-12:30 Open Discussion, Questions and Answers.

12:30-13:00 Resistance of Less Common Gram-Positive Bacteria and PK/PD Presentation.
David P. Nicolau

13:00-13:15 Open Discussion, Questions and Answers.

13:15-14:00

LUNCH

14:00-17:00

LABORATORY PRACTICE

Friday 2nd, October 2009

GRAM-NEGATIVE ORGANISMS

Session III

8:00-10:15

Moderators: Jordi Vila

Mona Wasef

- 8:00-8:15 Antimicrobial Resistance and Mechanisms of Resistance Associated with Gram-negative Enteric Bacteria in Cairo Hospitals.
John Klena
- 8:15-8:30 From DNA Extraction to Determination of Antimicrobial Resistance Mechanism
Matilda Nicklasson
- 8:30-8:45 Open Discussion, Questions and Answers.
- 8:45-9:15 *Acinetobacter baumannii* as the Paradigm of Multiresistant Bacteria.
Jordi Vila
- 9:15-9:30 Open Discussion, Questions and Answers.
- 9:30-10:00 *Pseudomonas aeruginosa*.
Giuseppe Cornaglia
- 10:00-10:15 Open Discussion, Questions and Answers.

10:15-10:30

COFFEE BREAK

Session IV

10:30-13:00

Moderators: Giuseppe Cornaglia

Magdy Guenaidy

- 10:30-11:00 ESBL-producing Enterobacteriaceae.
Gian Maria Rossolini
- 11:00-11:15 Open Discussion, Questions and Answers.
- 11:15-11:45 Carbapenemases in both Enterobacteriaceae and Non-fermentative Gram-negative Bacilli.
Giuseppe Cornaglia
- 11:45-12:00 Open Discussion, Questions and Answers.
- 12:00-12:30 Quinolone-resistance in *Enterobacteriaceae*.
Luis Martínez-Martínez
- 12:30-13:00 Open Discussion, Questions and Answers.

13:00-14:00

LUNCH

14:00-17:00

LABORATORY PRACTICE

Saturday 3rd, October 2009

MOLECULAR and CLINICAL EPIDEMIOLOGY

Session V

8:00-11:00

Moderators: Gian Maria Rossolini

Ahmed El Gohary

- 8:00-8:30 Molecular Biology to the Diagnosis of Infectious Diseases: from the PCR to Microarrays.
Jordi Vila
- 8:30-8:45 Open Discussion, Questions and Answers.
- 8:45-9:15 Genetic Units of Resistance.
Gian Maria Rossolini
- 9:15-9:30 The Role of the Scientist in Biosecurity,
Brian Nordmann, U.S. Department of State.
- 9:30-9:45 Biosafety and Biosecurity Principles in Labs,
WillyKiprotich Tonui, PhD
- 9:45-10:00 1. National Implementing Measures for Effective Biosafety and Biosecurity & VERTIC's National Implementing Measures (NIM) Project", Scott Spence
- 10:00-10:15 Discussion
- 10:15-10:45 Molecular Tools to Detect Antimicrobial Resistance.
Luis Martínez-Martínez
- 10:45-11:00 Open Discussion, Questions and Answers.

11:00-11:15

Coffee Break

Session VI

11:15-11:45

Chairpersons: David P. Calfee

Atef El Gendy

- 11:15-11:45 Surveillance Cultures: When? How? To whom?
David P. Calfee, MD, MS
- 11:45-12:00 Open Discussion, Questions and Answers.
- 12:00-12:30 Typing Methodology in Molecular Epidemiology.
Atef El-Gendy, PhD
- 12:30-12:45 Open Discussion, Questions and Answers.
- 12:45-13:15 How to Control the Spread of Resistant Microorganisms?
David P. Calfee, MD, MS
- 13:15-13:45 Antimicrobial Resistance in Endocarditis and Blood Stream Infection in Egypt
Hussien H. Rizk, MD

13:45-14:15

Open Discussion, Questions and Answers. Certificate Presentation.

14:15-14:30

LUNCH

14:30-17:00

LABORATORY PRACTICE