Les Pensières
Veyrier-du-Lac
(French Alps)
October 29 -
November 3
2017

Organized by

The Mérieux Foundation and the London School of Hygiene & Tropical Medicine
Considering the advances in technology, why is it not yet possible to have access to rapid, easy-to-use instruments in our countries, especially at the rural clinic level? Leadership initiatives are needed in our regions to promote the benefits of early diagnosis, generating clear gains in public health programs. ACDx is a unique opportunity to foster such initiatives and share experiences with others!

ACDx enhances the knowledge and professional network of policy-makers and scientists. The week-long intensive course provides them with an overview of the latest advances in the field of diagnostics. Leading global experts address the social, economic, political and ethical issues of diagnostics through a variety of learning techniques.

During this year’s course, participants can also expect to discuss laboratory system strengthening, surveillance and emergency outbreak response, and take an in-depth look at antimicrobial resistance.

Hosted less than an hour from Geneva, on the shores of Lake Annecy at Les Pensières Center for Global Health, the course offers plenty of opportunity for networking and exchange among participants and faculty.

**KEY FIGURES**

<table>
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<th>40 HIGHLY SELECTED PARTICIPANTS</th>
<th>35 INTERNATIONAL SPEAKERS</th>
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<td>10 INTERACTIVE SESSIONS</td>
<td>7 SUCCESSFUL YEARS</td>
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<td>6 DAYS OF KNOWLEDGE-SHARING</td>
<td>1 DIPLOMA</td>
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<td>A NETWORK OF 250 ALUMNI</td>
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**Graciela Russomando**

Professor - Universidad Nacional de Asunción (Paraguay)

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University Hospital Yalgado Ouédraogo (Burkina Faso)
PROGRAM

Sunday, October 29th

AFTERNOON

Overview of the Role of Diagnostics in Global Health

Guiding clinical decision-making
Guiding public health emergency response
Global response to Antimicrobial Resistance (AMR)
Diagnostics as part of the AMR response

Special Session Opening Address:
- The WHO Global Action Plan in response to Antimicrobial Resistance
- UNAIDS response to AMR
- Launch of The Africa CDC AMR Surveillance Network (AMRSNET)
- Introducing AMRSNET: Goals and plan of action Africa CDC
- AMRSNET support: Fleming Fund, LSHTM-BD AMR Partnership
- Institut Pasteur Networks contribution to the Africa CDC AMRSNET
- Round Table: country plans and Africa AMRSNE

Monday, October 30th

MORNING

Quality Policy in Diagnostics

The diagnostic quality continuum
Industry panel on quality by design and manufacturing
Ensuring quality through regulation and pre-qualification
Best practice: post-market surveillance, storage, transport and distribution; the USP Quality Institute
Laboratory quality standards
Quality assurance for Point-of-Care diagnostics
Debate: QA for POC testing, centralized vs decentralized systems

AFTERNOON

AMR Stewardship and Surveillance

AMR Surveillance Technology Forum: ePosters and demonstrations
- Genotypic AMR assays
- Phenotypic AMR assays
- Whole genome sequencing
- Identifying markers of resistance

AMR Surveillance networks: management, analysis and utilization; opportunities for public-private partnerships:
- AMRSNET
- Institut Pasteur networks
- Respiratory pathogen networks
- Enteric pathogen networks
- Gonococcal Resistance networks
Ensuring quality and timeliness of surveillance data to inform strategies and assessment of impact of AMR interventions; scoring system for AMR surveillance competency?

**Tuesday, October 31st**

**MORNING**

**From Basic Research to a Commercialized Diagnostic Test**

**Challenges of diagnostics R&D for global health:**
Overview of the long road from R&D to adoption

**Panel discussion:** lessons learned from test development and approval for use in past outbreaks

**Access to specimens for test development, evaluation and quality assurance**

**Evaluation of diagnostics**

**Technological innovation and regulatory science**

**Debate:** Collaborative R&D: advantages vs. challenges

**AFTERNOON**

**State of Art Diagnostics and Diagnostics for AMR**

**State-of-the-Art Diagnostics Forum:**
- HIV, TB, malaria, hepatitis, NTDs, respiratory infections, enteric infections, Sexually Transmitted Infections, arboviruses, hemorrhagic fevers
- Stations with e-posters summarizing state-of-the-art diagnostics for each of the disease/syndromes listed above. An expert will be available at each station for questions and discussions

**POC tests to reduce misuse of antibiotics: how can the long pathway to adoption be accelerated without compromising quality?**
- Fever
- Pneumonia
- Enteric infections

**Reports back from break-out groups and discussion**

**Wednesday, November 1st**

**Diagnostic System Strengthening**

**Overview:** Pillars supporting successful implementation and delivery of diagnostics

**Laboratory systems:**
- Role of public health and national reference laboratories
- Adaptable laboratory network structures within national health care systems

**Diagnostic system strengthening initiatives:**
- Program and tools for capacity building
- Others from participants

**Tools for assessing competencies (WHO – ASLM scoring system)**

**Human resource management for laboratories**
Data governance
Biosecurity and biosafety for laboratory systems
Waste management

AFTERNOON: Free
Time for participants to follow up with individual faculty members for additional tutoring and network with other participants.

Thursday, November 2nd

MORNING

Sustainable Diagnostic Systems
Building sustainable national, regional and global diagnostic systems to meet public health needs

Breakout groups:
- Building sustainable laboratory systems
- Financing laboratory systems

Round table: funding for innovative technologies for AMR
- Longitude Prize
- Japanese group for global health
- Global AMR Innovation Fund
- Others

AFTERNOON

Diagnostic for Antimicrobial Resistance: the Way Forward

Diagnostics for AMR Round Table: social Innovation in Health
Education: crowdsourcing for AMR cases for e-learning other initiatives
Sharing tools and experiences for AMR
Debate: topic to be chosen by participants

Friday, November 3rd

Partnerships and Networks

Partnerships and networking platforms
- ACDx e-Community / Alumni networks
- RESAOLAB/RESAMAD
- Institut Pasteur network
- AMR surveillance networks
- Zika consortia
- Other network

CLOSING LUNCH
WHO SHOULD APPLY?

- Scientists and decision-makers involved in the development of diagnostic tools or in the design and implementation of strategies and policies on the use of diagnostics in the control of infectious diseases at national and international levels
- For both private and public sectors

PROGRAM FEES

The fees include tuition, course material, accommodation costs and three meals a day for the full period of the course.

- Participants from academic/governmental institutions & NGOs benefit from reduced fees: 3,000 € VAT included
- Participants from industry fees: 6,000 € VAT included
- If accepted, participants will be required to pay all of the fees in full to confirm their participation

CONTACT

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See additional information on http://www.fondation-merieux.org/advanced-course-on-diagnostics-acdx