

1ST AMR COURSE a **Onehealth** challenge

Antimicrobial Resistance Course (AMR) – A OneHealth Challenge

1st edition

Co-organized by the Mériem Foundation & the University Paris-Diderot

Les Pensières Center for Global Health
Veyrier-du-Lac - France

November 4th to 8th, 2019

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des racines pour la vie • roots for life



International Scientific Committee (alphabetic order)

Antoine Andremont	Course Director, Emeritus Professor, Université Paris Diderot	France
Laurence Armand	Université Paris Diderot	France
Juan Carrique-Mas	Oxford University	United Kingdom
Didier Dreyfuss	Université Paris Diderot	France
Hubert Endtz	Course Co-Director, Fondation Mérieux	France
Xavier Lescure	Université Paris Diderot	France
Valentina Picot	Course Manager, Fondation Mérieux	France
Damien Roux	Université Paris Diderot	France
Etienne Ruppé	Université Paris Diderot	France
Constance Schultsz	University of Amsterdam's Faculty of Medicine	The Netherlands
Sophie Touze	Vetagrosup	France
Yasdan Yasdanpanah	Université Paris Diderot	France
Jaap Wagenaar	Utrecht University	The Netherlands
Timothy Walsh	Cardiff University	United Kingdom

Steering Committee (alphabetic order)

Antoine Andremont	Course Director, Emeritus Professor, Université Paris Diderot	France
Laurence Armand	Université Paris Diderot	France
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Damien Roux	Université Paris Diderot	France
Etienne Ruppé	Université Paris Diderot	France
Yasdan Yasdanpanah	Université Paris Diderot	France
Cindy Grasso	Course Coordinator, Fondation Mérieux	France

Faculty & Chairs (alphabetic order)

Emilie Alirol	Global Antibiotic R&D Partnership	Switzerland
Jocelyne Arquembourg	Université Sorbonne Nouvelle	France
Hanan Balkhy	World Health Organization (WHO)	Switzerland
Juan Carrique-Mas	Oxford University	United Kingdom
Alessandro Cassini	World Health Organization (WHO)	Switzerland
Peter Collignon	Medical School, Australian National University	Australia
Delfy Gochez	World Organisation for Animal Health (OIE)	France
Benjamin Djoudalbaye	Africa Centres for Disease Control and Prevention	Ethiopia
Jorge Pinto Ferreira	World Organisation for Animal Health (OIE)	France
Cecilia Ferreyra	Foundation for Innovative New Diagnostics (FIND)	Switzerland
Ian Gray	Sanofi Pasteur	France
Olga Jonas	Harvard global health institute	USA
Helen Lambert	Bristol University	United Kingdom
Xavier Lescure	Université Paris Diderot	France
Jean-Christophe Lucet	Assistance Hopitaux Publique de Paris (APHP)	France
Alice Green	The Food and Agriculture Organization of the United Nations (FAO)	Italy
Jean Yves Madec	National Agency of food security and the environment (ANSES)	France
Laura Marin	Joint Programming Initiative on Antimicrobial Resistance (JPIAMR)	Sweden
Patrick Munk	Technical University of Denmark	Denmark
Abdoul Salam Ouedraogo	Hôpital Universitaire de Bobo Dioulasso	Burkina Faso
Charles Penn	Department of Health	United Kingdom
Carmen Pessoa	World Health Organization (WHO)	Switzerland
Damien Roux	Université Paris Diderot	France
Etienne Ruppé	Université Paris Diderot	France
Jonathan Rushton	University of Liverpool	United Kingdom
Heike Schmitt	Utrecht University	The Netherlands
Constance Schultsz	University of Amsterdam's Faculty of Medicine	The Netherlands
David Speksnijder	Utrecht University	The Netherlands
Marc Sprenger	World Health Organization (WHO)	Switzerland
Rainer Tan	Centre Universitaire de Médecine Générale et Santé Publique	Switzerland
Sophie Touze	Vetagrosup	France
Alex Van Belkum	BioMérieux	France
Johan Vekemans	World Health Organization (WHO)	Switzerland
Jaap Wagenaar	Utrecht University	The Netherlands
Timothy Walsh	Cardiff University	United Kingdom



Course programme

Monday, November 4 th , 2019 Charles Mérieux Conference Room		
08:00 - 08:30	Registration	
08:30 - 09:00	Opening & Welcome addresses <ul style="list-style-type: none"> • Fondation Mérieux • Université Paris Diderot 	Hubert Endtz Antoine Andremont

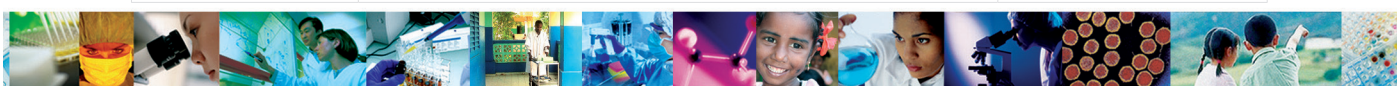
Session 1

The role of antibiotics & the current challenges - Improving awareness and understanding of antimicrobial resistance

Chairs: Carmen Pessoa & Jean-yves Madec

Session objective: To provide an overview on the role and use of antibiotics in global health.

Master Lectures		
9:00-9:45	Keynote lecture: past and present situation of AMR & future challenges	Hanan Balkhy
9:45-10:15	The onehealth perspective on AMR	Peter Collignon
10:15-10:45	Impact of AMR in human health and the environment	Alessandro Cassini
10:45-11:00	Discussion	
11:00 - 11:30	Coffee Break	
11:30-12:00	Underlying the genetic resistance transmission	Jean-Yves Madec
12:00 - 12:30	Role of the environmental resistome	Patrick Munk
12:30-12:45	Discussion	
12:45 - 14:00	Lunch	
Group Work		
Group activity coordinators: Damien Roux & Valentina Picot		
14:00 - 17:00	Group work: <ul style="list-style-type: none"> • What is the most urgent target of AMR control in LMICs: humans, animals, environment? • What are the main differences in AMR control between LMICs and HIC? • How to conciliate local, national, regional and global policies for AMR control? (Afternoon Coffee Break: from 15h30 to 16h30 for groups to take as it suits their work progress)	Facilitator: TBD Reporteur: TBD
17:00 - 17:10	Day 1 - Evaluation	
19:00	Welcome dinner & Evening Lecture Evening Lecture: (starts at 19:30) An overview of the GAP (Global Action Plan)-AMR and the Countries NAP (National Action Plan)	Marc Sprenger



Course programme

Tuesday, November 5th, 2019
Charles Mérieux Conference Room

Session 2

Strengthen the knowledge and evidence through monitoring & surveillance

Chairs: Constance Schultsz & Juan Carrique-Mas

Session objectives:

- To become familiar with the methodologies for measuring and reporting AMU and AMR in commensal organisms and pathogens from humans and animals for research and surveillance purposes.
- To become familiar with existing international AMU/AMR surveillance initiatives. To critically evaluate AMU/AMR surveillance systems.

Master Lectures		
9:00-9:30	Surveillance in Humans for AMU, AMR (incl.GLASS)	Carmen Pessoa
9:30-10:00	Surveillance in animals for AMU, AMR including surveillance of AMR in food-borne pathogens	Jaap Wagenaar
10:00-10:30	Metrics of antimicrobial use in humans and animals, including the case of the EU monitoring system	Juan Carrique-Mas
10:30-10:45	Discussion	
10:45 - 11:15	Coffee Break	
11:15-11:45	Limitations in data generated by surveillance systems & data sharing regional / global – Solutions	Constance Schultsz
11:45 - 12:15	How to use monitoring and surveillance to improve care	Damien Roux
12:15-12:30	Discussion	
12:30 - 14:00	Lunch	
Group Work		
Group activity coordinators: Damien Roux & Valentina Picot		
14:00 - 17:00	<p>Group work: Steps in developing/enhancing a national surveillance system</p> <ul style="list-style-type: none"> • Evaluate the current AMR surveillance system for one country of the group's choice – indicate what, who, how and where surveillance is done for this country, from a One Health perspective. • Describe strengths and weaknesses of this system. • Propose solutions to the main weaknesses that you encountered in this evaluation. <p>(Afternoon Coffee Break: from 15h30 to 16h30 for groups to take as it suits their work progress)</p>	<p>Facilitator: TBD</p> <p>Reporteur: TBD</p>
17:00 - 17:10	Day 2 - Evaluation	
19:00	Dinner	



Course programme

Wednesday, November 6th, 2019
Charles Mérieux Conference Room

Session 3

Intervention to tackle AMR

Chairs: Abdoul Salam Ouedraogo & Antoine Andremont

Session objective: To understand the role of better hygiene and infection prevention measures and other critical interventions as essential to limit the development and spread of antimicrobial-resistant infections and multidrug-resistant bacteria.

Master Lectures		
9:00-9:30	Infection, prevention and control (IPC) and WASH Interventions at hospital Inpatient level (Reducing the incidence of infection through IPC and effective sanitation, hygiene and other preventive measures)	Jean-Christophe Lucet
9:30-10:00	Electronic algorithms and point-of-care tests to manage febrile children and reduce antibiotic prescription	Rainer Tan
10:00-10:30	AMR interventions at the environment level	Heike Schmitt
10:30-10:45	Discussion	
10:45 - 11:15	Coffee Break	
11:15-11:45	AMR interventions at the animal level – veterinary	Delfy Gochez
11:45 - 12:15	AMR interventions at the food production level for human and animals - agriculture	Alice Green
12:15 - 12:45	AMR community sensibilization and Public Engagement campaigns	Jocelyne Arquembourg
12:45-13:00	Discussion	
13:00 - 14:30	Lunch & Group Picture	
Group Work		
Group activity coordinators: Damien Roux & Valentina Picot		
14:30 - 17:30	<p>Group work: : Infection prevention and control core components for national and local IPC programs (draft questions)</p> <ul style="list-style-type: none"> • What should be the primary target of interventions: professionals, patients? • Where should be the focus of the interventions: community, hospitals, others? • Should interventions be primary curative, preventive ? <p>(Afternoon Coffee Break: from 15h30 to 16h30 for groups to take as it suits their work progress)</p>	<p>Facilitator: TBD Reporteur: TBD</p>
17:30 - 17:40	Day 3 - Evaluation	
19:00	Dinner	



Course programme

Thursday, November 7th, 2019
Charles Mérieux Conference Room

Session 4

Optimize the use of antimicrobial medicines in human and animal health

Chairs: Sophie Touzé & Xavier Lescure

Session objective: To understand how to optimize the use of antimicrobial medicines in human and animal health.

Master Lectures		
9:00-9:30	Role of the microbiotas and impact of antibiotics	Etienne Ruppe
9:30-10:00	Antibiotic stewardship in veterinary medicine	David Speksnijder
10:00-10:30	Infection prevention measures – The role of vaccines	Johan Vekemans
10:30-10:45	Discussion	
10:45 - 11:15	Coffee Break	
11:15-11:45	Role of diagnostics in AMR	Cecilia Ferreyra
11:45 - 12:15	Antibiotic stewardship in human medicine	Xavier Lescure
12:15 - 12:45	Behavioral / Social Sciences of AMR in LMICs	Helen Lambert
12:45-13:00	Discussion	
13:00 - 14:00	Lunch	
Group Work		
Group activity coordinators: Damien Roux & Valentina Picot		
14:00 - 15:30	Rapid fire lectures & Roundtable: AMR Industry perspective in LMICs	Alex Van Belkum Emilie Alirol Ian Gray
15:30 - 17:30	Group work: <ul style="list-style-type: none"> • How to conciliate ATB prescription & ecological approach in LMICs ? • What kind of AMS implementation for veterinary medicine in LMICs? • What kind of AMS implementation for Human medicine in LMICs? (Afternoon Coffee Break: from 15h30 to 16h30 for groups to take as it suits their work progress)	Facilitator: TBD Reporteur: TBD
17:30 - 17:40	Day 4 - Evaluation	
19:00	Dinner & Evening Lecture Evening Lecture (starts at 19:30) Fleming Fund - AMR activities	Charles Penn



Course programme

Friday, November 8th, 2019
Charles Mérieux Conference Room

Session 5

Policy -Regulation- Governance & the Economic case for global sustainable investment to tackle AMR

Chairs: Jaap Wagenaar & Benjamin Djoudalbaye

Session objective: To recognize that a through economic impact assessments is needed in health and broader socioeconomic burden of antimicrobial resistance, including the investment in the development of new antimicrobial medicines, as well as in diagnostic tools and vaccines, to build our case.

Master Lectures		
8:30 - 9:00	Governance need it for an implementable NAP- National Action Plan on AMR	Benjamin Djoudalbaye
9:00-9:30	How to translate WHO-CIA-list , OIE and EU prioritization and other information / data into advocacy and Policy	Jean-Yves Madec
9:30-10:45	Lectures & Panel Discussion on the various lists of antibiotics currently available	Peter Collignon Jorge Pinto Ferreira
10:45 - 11:15	Coffee Break	
11:15-11:45	EU Policy and regulation on AMR	Laura Marin
11:45 - 12:15	Economics of AMU in animal production	Jonathan Rushton
12:15 - 12:45	AMR in LMICs a complex economic business model?	Olga Jonas
12:45-13:00	Discussion	
13:00 - 14:00	Lunch	
Course Evaluation & Diploma Ceremony		
14:00 - 14:30	Day 5 & Global Course Evaluation	
14:30 - 15:30	Diploma Ceremony & Diplomas Group Picture	
15:30	Closure of the course	

