

Symposium on Antimicrobial Resistance (AMR): A Multifaceted Approach to the Future
September 4-5, 2017
Santiago, Chile

International Speakers

- **Cesar A. Arias, MD., PhD.** University of Texas Health Science Center at Houston, TX
- **Robert Bonomo, MD.** Case Western Reserve University, Cleveland, OH
- **Sara Cosgrove, MD.** Johns Hopkins, Baltimore, MD
- **Derrick Crook, PhD.** University of Oxford, UK
- **Lorena Díaz, PhD.** Universidad El Bosque, Bogotá, Colombia
- **Vance Fowler, MD.** Duke University, Durham, NC
- **Randall Singer, DVM, PhD.** University of Minnesota, MN

National Speakers:

- **Rafael Araos, MD, MSc.** Clínica Alemana – Universidad del Desarrollo
- **Elvira Balcells, MD, MSc.** Universidad Católica de Chile
- **Patricia Garcia, MD.** Universidad Católica de Chile
- **Daniel Garrido, PhD.** Universidad Católica de Chile
- **Gerardo Gonzalez-Rocha, PhD.** Universidad de Concepcion
- **Tania Herrera, MD.** Ministerio de Salud, Gobierno de Chile
- **Juan Carlos Hormazabal, MD.** Instituto de Salud Publica (ISP)
- **Jaime Labarca, MD.** Universidad Católica de Chile
- **Juan Alberto Lecaros, Abogado.** Universidad del Desarrollo
- **Michel Leporati, DVM, PhD.** Agencia Chilena para la Calidad e Inocuidad Alimentaria (ACHIPIA)
- **Andrea Moreno, DVM, PhD.** Universidad Andres Bello
- **Jose M. Munita, MD.** Clínica Alemana – Universidad del Desarrollo

Topics

Mechanisms of Antimicrobial Resistance
Genomics in Antimicrobial Resistance
Antimicrobial Stewardship Programs and the Impact on Resistance
Antimicrobial Resistance and the Environment
Public Health and Antimicrobial Resistance

Organized by

Genomics and Resistant Microbes (GeRM) group, Institute of Science and Innovation in Medicine, Clinica Alemana – Universidad del Desarrollo School of Medicine, Chile

Sponsored by

Sociedad Chilena de Infectología
Sociedad Chilena de Microbiología
Agencia Chilena para la Calidad e Inocuidad Alimentaria (ACHIPIA), Ministerio de Agricultura
Sociedad Argentina de Infectología
American College of Physicians

Program

Monday, September 4, 2017

07:30 – 08:00 Registration

08:00 – 08:15 Inauguration: **Ricardo Ronco and Jose M. Munita**

08:15 – 09:00 Opening Lecture. **Vance Fowler**: Changing the paradigm to fight AMR: from basic science to clinical trials

Session 1. Mechanisms of Resistance

Convener: Rafael Araos

09:00 – 09:30 **Robert Bonomo**: Colistin resistance, back to basics

09:30 – 10:00 **Cesar Arias**: Emergent mechanisms of resistance in Gram-positive organisms

10:00 – 10:30 Coffee Break

10:30 – 11:00 **Gerardo Gonzalez-Rocha**: Multidrug resistant *Acinetobacter*, the more we know the more we wonder

11:00 – 11:30 **Robert Bonomo**: A molecular view into carbapenemases and its connection to the real world

11:30 – 12:00 **Elvira Balcells**: Evolving resistance in *M. tuberculosis*, what has changed?

12:00 – 13:30 Lunch

Session 2. Antimicrobial Stewardship and the Impact on AMR

Convener: Francisco Silva

13:30 – 14:00 **Sara Cosgrove**: Antimicrobial stewardship as a strategy to prevent AMR: what is the evidence?

14:00 – 14:30 **Derrick Crook**: Role of sequencing the bacterial genome in controlling healthcare associated infections

14:30 – 15:00 **Sara Cosgrove**: Opportunities for quality research in stewardship, how can we capitalize it?

15:00 – 15:30 **Patricia García**: Contribution of the clinical microbiology lab and rapid diagnostics to the stewardship program

15:30 – 15:45 **Break**

Session 3. AMR and the role of the Environment

Convener: Marcela Cifuentes

15:45 – 16:15 **Randall Singer**: The importance of the One Health approach to tackle the AMR crisis

16:15 – 16:45 **Andrea Moreno**: Non-human use of antimicrobials as a driver of AMR

16:45 – 17:15 **Randall Singer**: Understanding the role of the environment in AMR through metagenomics

17:15 – 17:45 Closing Session of the day. **Derrick Crook**: The power of the genomic revolution to transform our understanding of AMR

Tuesday, September 5, 2017

08:15 – 08:50 Opening Lecture of the day. **Tania Herrera:** National plan to fight AMR

Session 4. Public Health and AMR

Convener: Jose M. Munita

08:50 – 09:10 **Jaime Labarca:** The importance of collaboration and innovative approaches to gather information through a national network of AMR

09:10 – 09:30 **Juan A. Lecaros:** Bioethical and regulatory challenges to create a nationwide repository of multidrug-resistant pathogens

09:30 – 09:50 **Michel Leporati:** Contribution of science to society: government efforts to facilitate transference of knowledge on AMR

09:50 – 10:10 **Juan Carlos Hormazabal:** National surveillance strategies, what we have and what we lack

10:10 – 10:40 Coffee Break

Session 5. Genomics and AMR

Convener: Elvira Balcells

10:40 – 11:00 **Rafael Araos:** Microbiome changes and its impact in colonization resistance

11:00 – 11:20 **Daniel Garrido:** Manipulating the microbiome through prebiotics

11:20 – 11:40 **Lorena Diaz:** Whole genome sequencing as a starting point to tackle AMR

11:40 – 12:10 **Cesar Arias:** Key genomic features of the MRSA and KPC epidemic in Latin America

12:10 – 12:30 **Jose M. Munita:** Using genomics to tailor therapy and predict outcomes in VRE bacteremia

12:30 – 13:00 **Vance Fowler:** What have genomics taught us when dealing with *S. aureus* infections

13:00 – 13:30 Coffee Break

13:30 – 14:00 Closing Lecture. **Robert Bonomo:** Novel approaches to study and manage of multidrug-resistant Gram-negatives. Thinking outside the box

14:00 – 14:10 Adjourn