

# Antimicrobial resistance - From mechanisms to global implications

Wednesday, November 15, 2023, 08:30 – 18:00 CET | Geneva University Hospital

## Program

8:30 – 9:20 **Arrival/Check-in**

9:20 – 9:30 **Salvatore Fabbiano** (*Trends in Endocrinology and Metabolism*) & **Sheba Agarwal-Jans** (*iScience*)  
Welcome remarks

### Session 1 Emerging antimicrobial resistance (Chair: Sheba Agarwal-Jans)

9:30 – 10:00 **Patrice Nordmann** (University of Fribourg) Emergence of antibiotic resistance in gram negatives

10:00 – 10:30 **Trish Simner** (Johns Hopkins University) New antimicrobial agents – No problem?

10:30 – 11:00 **Gaud Catho** (Geneva University Hospital)  
Fighting antimicrobial resistance: Current insights in infection control and antimicrobial stewardship

11:00 – 11:15 **Coffee break**

### Session 2 Metagenomics in AMR (Chair: Salvatore Fabbiano)

11:15 – 11:45 **Etienne Ruppé** (University of Paris) Antibiotic resistance detection in clinical metagenomics

11:45 – 12:15 **Claire Bertelli** (Centre Hospitalier Universitaire Vaudois)  
Metagenomics data mining for antimicrobial resistance prediction

12:15 – 12:45 **Chloé Loiseau** (Swiss Tropical and Public Health Institute) Ecology and evolution of multidrug-resistant *M. tuberculosis*

12:45 – 14:00 **Lunch break**

### Session 3 Clinical AMR (Chair: Sheba Agarwal-Jans)

14:00 – 14:30 **Lisandra Aguilar Bultet** (University Hospital Basel)  
Within-host genetic diversity of extended-spectrum beta-lactamase-producing enterobacterales

14:30 – 15:00 **Tristan Ferry** (Hospices Civils de Lyon) Phage therapy to fight severe infections in the era of antimicrobial resistance

15:00 – 15:30 **Rino Rappuoli** (Fondazione Biotechopololo) Human monoclonals and vaccines to combat AMR

15:30 – 16:00 **Christoph Dehio** (NCCR AntiResist)  
Revitalizing antibiotic discovery through in-vitro modeling of in-patient infection conditions

16:00 – 16:15 **Coffee break**

### Session 4 Epidemiology and surveillance (Chair: Salvatore Fabbiano)

16:15 – 16:45 **Stephan Harbarth** (Geneva University Hospital) AMR as a global problem: Clinical and public health implications

16:45 – 17:15 **Stephen Baker** (Wellcome Sanger Institute) Where do we go next with AMR?

17:15 – 18:00 **Keynote talk: Haileyesus Getahun** (WHO) From metagenome to policy and practice: How to bridge the gap for AMR?

18:00 – 18:15 **Jacques Schrenzel** (University of Geneva) & **Salvatore Fabbiano** (*Trends in Endocrinology and Metabolism*)  
Closing remarks

## Organizers



**Jacques Schrenzel**  
University of Geneva



**Sheba Agarwal-Jans**  
*iScience*, Cell Press



**Salvatore Fabbiano**  
*Trends in Endocrinology and Metabolism*, Cell Press

