



*International Workshop*

# **Tackling antimicrobial resistance**

Prevention, monitoring, and counteraction

10th November 2025

Area Science Park, Padriciano Campus, Trieste

## **PROGRAM**



Finanziato  
dall'Unione europea  
NextGenerationEU



Ministero  
dell'Università  
e della Ricerca



**Italiadomani**  
PIANO NAZIONALE  
DI RIPRESA E RESILIENZA

## PROGRAM

9.00 – 9.30 *Registration*

---

9.30 – 9.45 **Opening and Institutional Welcome**  
**Caterina Petrillo**, President of Area Science Park

9.45 – 9.55 **Workshop and PRP@CERIC Introduction**  
**Federica Mantovani**, Infrastructure Manager of the PRP@CERIC,  
Area Science Park

---

### SESSION I Understanding AMR – Evolution, surveillance, and prevention

*Chairs: Federica Mantovani (Area Science Park), Giuditta De Lorenzo (Area Science Park)*

9.55 – 10.25 **Antibiotic resistance: an evolutionary process requiring actions**  
**Stefania Stefani**, Full Professor of Microbiology and Clinical Microbiology,  
University of Catania; PAST President of the Italian Society of Microbiology

10.25 – 10.55 **Surveillance, epidemiology, and local context in the fight against antibiotic resistance**  
**Marina Buseti**, Microbiology Unit, Trieste University Hospital (ASUGI)

10.55 – 11.10 **Antimicrobial stewardship in pediatrics: current state and emerging insights**  
**Massimo Maschio**, Institute for Maternal and Child Health-IRCCS "Burlo Garofolo"

---

11.10 – 11.40 *Coffee Break*

---

### SESSION II Emerging strategies – From precision tools to pathogen-specific approaches

*Chairs: Giuditta De Lorenzo (Area Science Park), Mario Mardirossian (University of Trieste)*

11.40 – 11.55 **Human monoclonal antibodies against antibiotic-resistant bacteria**  
**Claudia Sala**, Biotechnopolo Foundation of Siena

11.55 – 12.25 **Bacteriophages: precision weapons against drug-resistant pathogens**  
**Mariagrazia Di Luca**, Department of Biology, University of Pisa; ICGEB

12.25 – 12:40 **Facing the threat of antibiotic resistance in pathogenic mycobacteria: a focus on *M. tuberculosis* and *M. abscessus***  
**Deborah Recchia**, Department of Biology and Biotechnology "Lazzaro Spallanzani", University of Pavia

12.40 – 12.55 **Inhibition of efflux pump complexes for restoring antibiotics efficacy**  
**Björn Windshügel**, Fraunhofer Institute for Translational Medicine and Pharmacology (ITMP)

---



---

12.55 – 14.00

*Lunch*

### **SESSION III**

#### **Breaking resistance – Innovative strategies and targets in the fight against AMR**

*Chairs: Mario Mardirossian (University of Trieste), Margherita Degasperi (Area Science Park)*

14.00 – 14.30

#### **David vs Goliath: ribosome-targeting antibiotics and bacterial resistance mechanisms**

**Daniel Wilson**, Institute for Biochemistry and Molecular Biology, University of Hamburg

14.30 – 14.45

#### **Proline-Rich Antimicrobial Peptides: a promising strategy to counteract antibiotic resistance**

**Marco Scocchi**, University of Trieste

14:45 – 15:00

#### **Helical antimicrobial peptides from helminths active against multidrug-resistant bacteria**

**Tomislav Roncevic**, University of Split

15.00 – 15:15

#### **Membranes under attack: investigating antimicrobial peptides using neutron-based techniques**

**Annalisa Pastore**, King's College London

15:15 – 15:30

#### **Global antimicrobial pipeline**

**Stefano Di Bella**, Associate Professor of Infectious Diseases, University of Trieste; Director of the Infectious Diseases COU, ASUGI

---

15.30

#### **Closing Remarks**

