



International Workshop

Tackling antimicrobial resistance

Prevention, monitoring, and counteraction

10th November 2025

Area Science Park, Padriciano Campus, Trieste

PROGRAM

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Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA

PROGRAM

9.00 – 9.30 *Registration*

9.30 – 9.45 **Opening and Institutional Welcome**
Stefano Cozzini, Director of Technological Innovation Research Institute,
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 Garof"

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, Faculty of Science, 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, Head of the Infectious Diseases Unit of Trieste University Hospital

15.30 – 15.40

PRP@CERIC IP&M Helpdesk – A Practical Example: Overview of the Antimicrobial Resistance Market

Maddalena Furlan, Head of Research Valorization Unit, Area Science Park

15.40

Closing Remarks

Giuditta De Lorenzo, Area Science Park
Mario Mardirossian, University of Trieste

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