



TOP5
IN INFECTIOUS
DISEASES

SECOND EDITION

INTERNATIONAL SYMPOSIUM



PRELIMINARY PROGRAMME

VENICE, APRIL 3rd-5th, 2025

Innovation. This is the word that will characterize also the second Edition of the TOP-5 Conference in Venice. The event is aimed to identify, in the era of globalization, the ongoing and future challenges in infectious diseases and to bring current global issues to the attention of institutions.

The following topics will be covered:

- Methodology of clinical research and application of artificial intelligence to healthcare.
- Antimicrobial resistant microorganisms and optimal use of new available antibiotics.
- HIV treatment and prophylaxis. How to implement tailored therapeutic approaches.
- Emerging and re-emerging viral infections. New approaches for immunization and prevention of communicable infectious diseases.
- Fungal infections. New multidrug resistant fungi spread around the world and new drugs are needed to overcome resistance.

But what does “innovation” mean in Infectious Diseases? Innovation means “appropriate and rational use” of diagnostic methods, antimicrobials, Big Data and machine learning finalized to develop updated knowledge for the modern treatment of Infectious Diseases.

These issues will be discussed with academicians, stakeholders, professionals and young researchers to share experiences and evidences and to have an unforgettable experience in one of the most beautiful venue in the world: the ancient Venice!

FIRST DAY - THURSDAY 3rd APRIL

MORNING SESSIONS



Welcome Coffee

10.00-10.30 Registration of participants

10.30-10.40 Welcome to participants and Opening remarks • **Marco Falcone** (Italy)

SESSION I: DEBATE ON METHODOLOGY ON CLINICAL RESEARCH

Chairs: **Marco Falcone** (Italy), **Leonard Leibovici** (Israel)

10.40-11.00 Strengths and limitations of RCTs in infectious diseases • **Mical Paul** (Italy)

11.00-11.20 The use of observational methods and real-world data to emulate ongoing randomized controlled trials • **Joseph Ross** (USA)

11.20-11.40 Adaptive designs in clinical trials • **Marc Bonten** (The Netherlands)

11.40-12.00 The crisis in scientific publications: point of view of the Editor in Chief • **Leonard Leibovici** (Israel)

12.00-12.30 **ROUND TABLE WITH DISCUSSION**

12.30-12.55 **TOP-5 OPENING LECTURE**

Introduction: **Marco Falcone** (Italy)

How Artificial Intelligence could transform Medicine • **Luciano Floridi** (USA)

13.00-14.00 *Lunch*



FIRST DAY - THURSDAY 3rd APRIL

AFTERNOON SESSIONS



SESSION II: INNOVATION IN DRUG DEVELOPMENT IN INFECTIOUS DISEASES

Chairs: **Andrea Cossarizza** (Italy), **Andrea Gori** (Italy)

- 14:00-14:20 Advancing global antibiotic research: what we still need • **Jesus Rodriguez Bano** (Spain)
- 14:20-14:40 Strategic planning for the second era of the HIV epidemic • **Jose Arribas** (Spain)
- 14:40-15:00 Broadly neutralizing antibodies against emerging viruses • **Davide Corti** (Switzerland)
- 15:00-15:20 Building evidence for the use of bacteriophages against antimicrobial resistance • **Robin Patel** (USA)
- 15:20-15:40 Toward personalized vaccines • **Caterina Rizzo** (Italy)
- 15:40-16:10 **ROUND TABLE AND DISCUSSION**
- 16:10-16:30 *Coffee Break*

SESSION III: UNRAVELLING THE MYSTERIES OF SEPSIS AND SEPTIC SHOCK

Chairs: **Antonello Giarratano** (Italy), **Raffaele Bruno** (Italy)

- 16:30-16:50 Fast Track diagnostic tools for clinical management of sepsis • **Gian Maria Rossolini** (Italy)
- 16:50-17:10 Saving lives sepsis: improving practice & outcomes • **Ron Daniels** (UK)
- 17:10-17:30 Optimizing antimicrobial therapy in septic patients: PK/PD perspectives • **Federico Pea** (Italy)
- 17:30-17:50 Management of ventilator-associated pneumonia: antibiotics and beyond • **Jordi Rello** (Spain)
- 17:50-18:10 Role of biomarkers in guiding antimicrobial therapy • **Jan De Waele** (Belgium)
- 18:10-18:30 **ROUND TABLE AND DISCUSSION**
Discussant: **Miriam Lichtner** (Italy), **Giuseppe Nunnari** (Italy)
- 18:30. End of the day

SECOND DAY - FRIDAY 4th APRIL

MORNING SESSIONS



SESSION I: INTERACTIVE CLINICAL CASES SESSION CONTROVERSIAL ISSUES IN THE TREATMENT OF HIV-INFECTION

Chairs: **Giulia Marchetti** (Italy), **Gabriella D'Ettorre** (Italy)

- 08:30-10:00 Patient with not suppressible viremia: role of triple therapy • **Alberto Borghetti** (Italy)
- Role of long-acting drugs in special populations: a clinical case • **Andrea Giacomelli** (Italy)
 - Optimization of antiretroviral therapy in HTE patient with multiple comorbidities • **Emanuele Focà** (Italy)
 - Neurological penetration of antiretrovirals in advanced naïve patient: is there an issue? • **Andrea Calcagno** (Italy)
- Discussants: **Chloe Orkin** (UK), **Anna Maria Cattelan** (Italy)

10:00-10:20 TOP-5 LECTURE

Introduction: **Cristina Mussini** (Italy)

Infections and inequities through the lens of HIV • **Chloe Orkin** (UK)

10:30-11:00 *Coffee break*

SESSION II: INTERACTIVE CLINICAL CASES SESSION DIFFICULT TO TREAT MULTIDRUG-RESISTANT BACTERIAL INFECTIONS

Chairs: **Claudio M. Mastroianni** (Italy), **Souha S. Kanj** (Lebanon)

- 11:00-12:30 KPC-*Klebsiella pneumoniae* bloodstream infection • **Giusy Tiseo** (Italy)
- DTR *Pseudomonas aeruginosa* VAP • **Antonio Vena** (Italy)
 - MBL-producing Enterobacterales intra-abdominal infection • **Silvia Corcione** (Italy)
 - *Acinetobacter baumannii* infection in ICU • **Alessandro Russo** (Italy)
- Discussant: **David Paterson** (Singapore)

12:30-12:50 TOP-5 LECTURE

Introduction: **Souha S. Kanj** (Lebanon)

No time to wait: securing the future from multidrug-resistant bacterial infections • **David Paterson** (Singapore)

13:00-14:30 *Lunch*

SECOND DAY - FRIDAY 4th APRIL

AFTERNOON SESSIONS



SESSION III: ADVANCES IN THE TREATMENT OF DIFFICULT TO TREAT INFECTIOUS DISEASES

Chairs: **Giovanni Di Perri** (Italy), **Pierluigi Viale** (Italy)

- 14:30-14:50 Game-changing HIV drugs: from therapy to pre-exposure prophylaxis • **Cristina Mussini** (Italy)
- 14:50-15:10 Long-term efficacy of antiretroviral therapy: to switch or not to switch? • **Antonella Castagna** (Italy)
- 15:10-15:30 Modern treatment of *Acinetobacter baumannii* and *Stenotrophomonas maltophilia* infections • **David Van Duin** (USA)
- 15:30-15:50 The emerging threat: new options for therapy of Metallo- β -Lactamase-producing Gram-negative bacteria • **Marco Falcone** (Italy)
- 15:50-16:10 Efficacy of the new antibiotics for the treatment of KPC-producing Enterobacterales infections • **Ryan Shields** (USA)
- 16:10-16:40 Discussant: **Jason Pogue** (USA)
- 16:40-17:00 **TOP-5 LECTURE**
Introduction: **Marco Falcone** (Italy)
One Health approach for the control of antimicrobial resistance • **Robert Skov** (Denmark)

SECOND DAY - FRIDAY 4th APRIL

AFTERNOON SESSIONS



SESSION IV: IL PAZIENTE AL CENTRO: SINERGIA TRA SCIENZA, ISTITUZIONI E INDUSTRIA FARMACEUTICA *(NON ECM SESSION)*

TALK SHOW: conduce **Tonia Cartolano** (Sky tg24) (Italy)

17:00-18:30

Sandro: discesa agli inferi e ritorno

Presentano: **Marco Falcone** (Italy) e **Manuela Nicastro** (Italy)

Partecipa: **Sandro Busetto*** (Italy)

Interventi di:

Adolfo Urso (Ministro del Made in Italy) (Italy)

Alessio Butti (Sottosegretario alla Presidenza del Consiglio) (Italy)

Marcello Gemmato (Sottosegretario alla Salute) (Italy)

Francesco Zaffini (Presidente X Commissione Affari Sociali) (Italy)

Fausto Orsomarso (Commissione Finanze, Intergruppo Parlamentare Prevenzione e Controllo Malattie Infettive) (Italy)

- Il valore dei nuovi antimicrobici: il punto di vista di AIFA** • **Robert Giovanni Nisticò** (Presidente AIFA) (Italy)

- Le iniziative del Ministero della Salute • **Mara Campitiello** (Ministero Salute) (Italy)

17:40-18:30

ROUND TABLE

Partecipano:

Roberto Parrella (SIMIT), **Lucia Aleotti** (Menarini/Confindustria), **Frederico Da Silva** (Gilead),

Damiano De Felice (CARB-X), **Andrea Pitrelli** (Shionogi), **Nicoletta Luppi** (MSD),

Federico Serra (Intergruppo Parlamentare Prev. e Controllo Malattie Infettive), **Emanuele Monti** (AIFA),

Guido Di Donato (Pfizer), **Vincenzo Palermo** (ViIV)

* Tecnico dell'ENEL sopravvissuto alla strage di Suviana

** This session in italian language

THIRD DAY - SATURDAY 5th APRIL

MORNING SESSIONS



SESSION I: PROS AND CONS DEBATE: INTERACTIVE SESSION

Chairs: **Marco Falcone** (Italy), **Ivan Gentile** (Italy)

- 09:30-10:00 Monotherapy vs combination therapy in MRSA bacteremia
- Combination therapy • **Francesco De Rosa** (Italy)
- Monotherapy • **Pierre Tattevin** (France)
- 10:00-10:30 Short vs prolonged intravenous therapy in patients with candidemia
- When shortening therapy is possible • **Dafna Yahav** (Israel)
- When shortening therapy is not recommended • **Mario Tumbarello** (Italy)
- 10:30-10:45 When to switch to oral therapy in patients with infective endocarditis • **Maddalena Giannella** (Italy)
- 10:45-11:00 Monotherapy vs combination therapy for *P. aeruginosa* severe infections • **Jason Pogue** (USA)
Discussants: **Stefania Stefani** (Italy), **Paolo Antonio Grossi** (Italy)
- 11:15-11:30 *Coffee Break*

11:30-11:50 TOP-5 LECTURE

Introduction: **Stefania Stefani** (Italy)

Antibiotic therapy of MDR infections in constrained settings • **Souha Kanj** (Lebanon)

SESSION II: INNOVATION IN ANTIMICROBIAL THERAPY

Chairs: **Massimo Puoti** (Italy), **Carlo Torti** (Italy)

- 12:10-12:30 *Candida auris* and *Candida parapsilosis*: global priority pathogens • **Matteo Bassetti** (Italy)
- 12:10-12:30 New antifungals for the treatment of invasive candidiasis and pulmonary aspergillosis • **Patricia Munoz** (Spain)
- 12:30-12:50 Anti-SARSCoV-2 pre-exposure prophylaxis with monoclonal antibodies in immunocompromized patients • **Andrea Antinori** (Italy)
- 12:50-13:10 Present and future of long-acting antibiotic therapy for Gram positive infections • **Alex Soriano** (Spain)
Discussant: **Saverio Parisi** (Italy), **Loredana Sarmati** (Italy)
- 13:30-14:30 *Lunch*

THIRD DAY - SATURDAY 5th APRIL

AFTERNOON SESSIONS



SESSION III

Chairs: *Sergio Lo Caputo* (Italy), *Francesco Menichetti* (Italy)

14:30-14:50 **TOP-5 LECTURE**

Infection control and prevention of MDR infections in the healthcare setting • *Nico Mutters* (Germany)

MANAGEMENT OF INFECTIONS IN SPECIAL POPULATIONS

14:50-15:10 MDR infections in patients with solid cancer • *Marianna Meschiari* (Italy)

15:10-15:30 MDR infection in hematological patients • *Michele Bartoletti* (Italy)

15:30-15:50 Central nervous system infections due to MDR microorganisms • *Alessandra Oliva* (Italy)

15:50-16:10 Discussant: *Rita Murri* (Italy)

16:10-16:30 Closing remarks • *Marco Falcone* (Italy)



FACULTY



Lucia Aleotti (Menarini/Confindustria)

Andrea Antinori (Rome, Italy)

Jose Arribas (La Paz University Hospital, Madrid, Spain)

Jesus Rodriguez Bano (Seville, Spain)

Michele Bartoletti (Humanitas University, Milan, Italy)

Matteo Bassetti (Genoa, Italy)

Marc Bonten (Utrecht, The Netherlands)

Alberto Borghetti (Pisa, Italy)

Raffaele Bruno (Pavia, Italy)

Alessio Butti (Sottosegretario alla Presidenza del Consiglio)

Andrea Calcagno (Turin, Italy)

Mara Campitiello (Ministero della Salute)

Tonia Cartolano (Sky tg24, Italy)

Antonella Castagna (Milan, Italy)

Anna Maria Cattelan (Padova, Italy)

Silvia Corcione (Turin, Italy)

Davide Corti (Bellinzona, Switzerland)

Andrea Cossarizza (Modena, Italy)

Frederico Da Silva (Gilead)

Ron Daniels (Birmingham, UK)

Damiano De Felice (CARB-X)

Francesco De Rosa (Turin, Italy)

Gabriella D'Ettorre (Rome, Italy)

Jan De Waele (Hent, Belgium)

Guido Di Donato (Pfizer)

Giovanni Di Perri (Turin, Italy)

Marco Falcone (Pisa, Italy)

Luciano Floridi (Yale University - New Haven, USA)

Emanuele Focà (Brescia, Italy)

Marcello Gemmato (Sottosegretario alla Salute)

Ivan Gentile (Naples, Italy)

Andrea Giacomelli (Milan, Italy)

Maddalena Giannella (Bologna, Italy)

Antonello Giarratano (Palermo, Italy)

Andrea Gori (Milan, Italy)

Paolo Grossi (Varese, Italy)

Souha S. Kanj (Beirut, Lebanon)

Leonard Leibovici (Tel Aviv, Israel)

Miriam Lichtner ("Sapienza" University, Rome, Italy)

Sergio Lo Caputo (Foggia, Italy)

Nicoletta Luppi (MSD)

Giulia Marchetti (Milan, Italy)

Claudio M. Mastroianni (Rome, Italy)

Francesco Menichetti (Perugia, Italy)

Marianna Meschiari (Modena, Italy)

Emanuele Monti (AIFA)

FACULTY



Patricia Munoz (Madrid, Spain)

Rita Murri (Rome, Italy)

Cristina Mussini (Modena, Italy)

Nico Mutters (Bonn, Germany)

Manuela Nicastro (Italy)

Robert Giovanni Nisticò (Presidente AIFA)

Giuseppe Nunnari (University of Catania, Italy)

Alessandra Oliva (Rome, Italy)

Chloe Orkin (London, UK)

Fausto Orsomarso (Commissione Finanze,
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Malattie Infettive) (Italy)

Vincenzo Palermo (ViiV)

Saverio Parisi (Padova, Italy)

Roberto Parrella (SIMIT)

Robin Patel (Mayo Clinic, Rochester, USA)

David Paterson (Singapore)

Mical Paul (Haifa, Israel)

Federico Pea (Bologna, Italy)

Andrea Pitrelli (Shionogi)

Jason Pogue (Ann Arbor, USA)

Massimo Puoti (Milano, Italy)

Jordi Rello (Barcelona, Spain)

Caterina Rizzo (University of Pisa, Pisa, Italy)

Joseph Ross (Yale, New Haven, USA)

Gian Maria Rossolini (Florence, Italy)

Alessandro Russo (Catanzaro, Italy)

Loredana Sarmati (Rome, Italy)

Federico Serra (Intergruppo Parlamentare Prevenzione
e Controllo Malattie Infettive) (Italy)

Ryan Shields (Chapel Hill, USA)

Robert Skov (Copenhagen, Denmark)

Alex Soriano (Barcelona, Spain)

Stefania Stefani (Catania, Italy)

Pierre Tattevin (Rennes, France)

Giusy Tiseo (Pisa, Italy)

Carlo Torti (Rome, Italy)

Mario Tumbarello (Siena, Italy)

Adolfo Urso (Ministro del Made in Italy)

David Van Duin (Chapel Hill, USA)

Antonio Vena (Genova, Italy)

Pierluigi Viale (Bologna, Italy)

Dafna Yahav (Haifa, Israel)

GENERAL INFORMATION



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MEETING VENUE

Hotel Monaco & Grand Canal
San Marco 1332 - 30124 Venice

REGISTRATION

The Meeting is free to attend. Please confirm your participation to the Organizing Secretariat.

OFFICIAL LANGUAGE

The official language of the Meeting will be English.

TECHNICAL FACILITIES

Facilities will be available for computer presentations and overhead projections.

A Slide Center with PCs (Windows and Macintosh operating systems) will be available for Speakers to preview and finalize their presentations. Speakers are kindly requested to submit their presentations to the Slide Center technicians at least one hour before their talks.

ATTENDANCE CERTIFICATE

The attendance certificate will be provided at the end of the event.