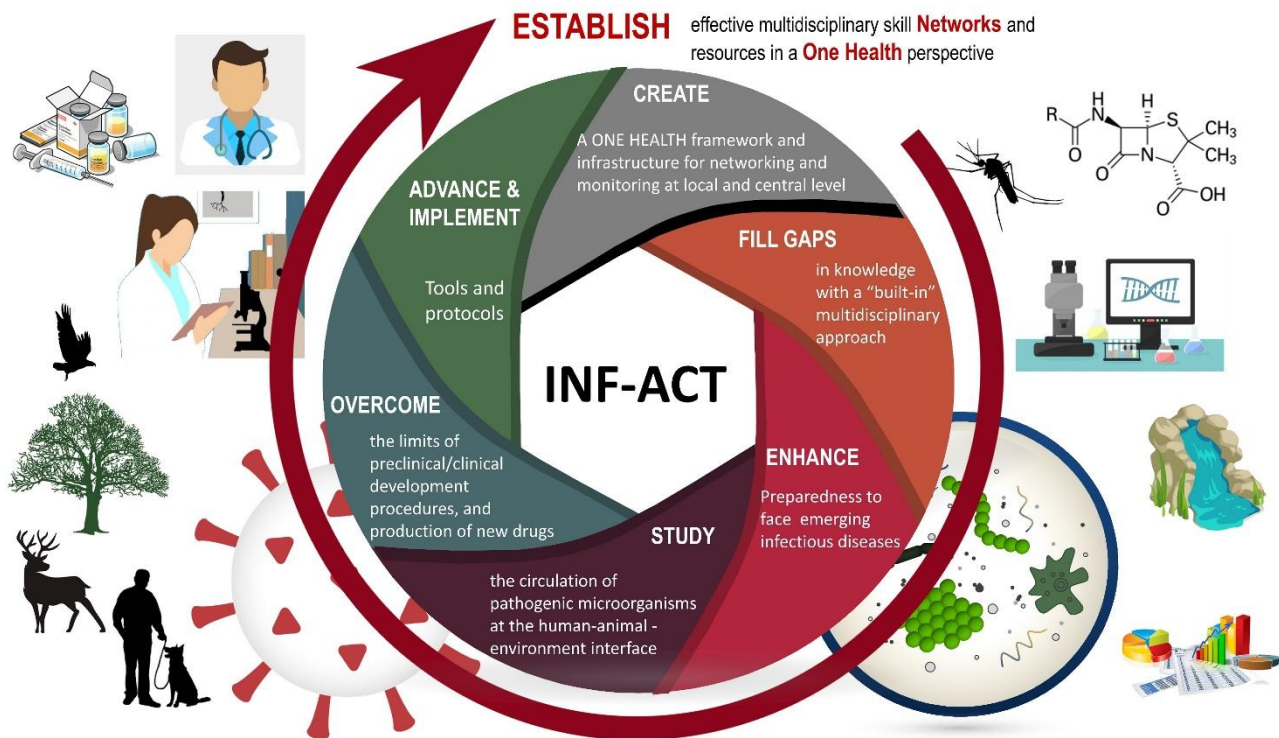


# INF-ACT CONFERENCE 2025

One Health Basic and Translational Actions Addressing Unmet Needs on Emerging Infectious Diseases - *"a step ahead"*



3-5 April 2025

Aula Magna G.Salvatore Campus AOU "Federico II", Naples

**FULL PROGRAM**



# INF-ACT CONFERENCE 2025 | PROGRAM

## DAY 1 THURSDAY - 3<sup>rd</sup> APRIL 2025 (main language : ITALIAN)

13:30 – 14:30 REGISTRATION

14:30 – 15:30 OPENING CEREMONY

**Matteo Lorito**

*Rettore Università degli Studi di Napoli Federico II*

**Giuseppe Longo**

*Direttore Generale Azienda Ospedaliera Universitaria Federico II*

**Giovanni Esposito**

*Presidente Scuola di Medicina e Chirurgia Federico II*

**Antonio Postiglione**

*Direttore Generale Tutela Salute e Coordinamento del Sistema Sanitario Regione Campania*

**Gaetano Manfredi**

*Sindaco Città di Napoli*

**Antonio Limone**

*Direttore Generale Istituto Zooprofilattico Sperimentale del Mezzogiorno*

**Elisabetta Vitali**

*Executive Director Fondazione Armenise Harvard*

**Orazio Schillaci**

*Ministro della Salute*

**Anna Maria Bernini**

*Ministro dell'Università e della Ricerca*

15:30 – 18:00 ROUND TABLES

### RESEARCH & INNOVATION: CHALLENGES AND OPPORTUNITIES AFTER THE PNRR

*Chair: Francesca Cerati – sole24ore*

**Speakers:**

**Federico Forneris**

*Presidente Fondazione INF-ACT*

**Andrea Pace**

*Presidente Fondazione HEAL ITALIA*

**Salvatore Baglio**

*Presidente Fondazione SAMOTHRACE*

**Cinzia Giannini**

*Leader WP4 - Infrastruttura di Ricerca ITACA.SB*

**Stefano Cozzini**

*RIT Director - Infrastruttura di Ricerca CERIC@PRP*



## HEALTH POLICIES AND DISEASE X: ARE WE READY?

Chair: Gerardo D'Amico - RAI

### Speakers:

**Maria Rosaria Campitiello**

Capo Dipartimento della Prevenzione, della Ricerca e delle Emergenze Sanitarie – Ministero della Salute

**Anna Teresa Palamara**

Direttore Dipartimento di Malattie Infettive – Istituto Superiore di Sanità

**Fausto Baldanti**

Professore Ordinario di Microbiologia e Microbiologia Clinica - Università degli Studi di Pavia

**Roberta Siliquini**

Professore Ordinario di Igiene e Medicina Preventiva - Università degli Studi di Torino

**Ivan Gentile**

Direttore Dipartimento di Medicina Clinica e Chirurgia - Università di Napoli Federico II

**Alessandro Perrella**

Direttore Dipartimento Malattie Infettive ed Emergenze Infettive - AORN Ospedale dei Colli

**Roberto Parrella**

Presidente Società Italiana di Malattie Infettive e Tropicali

## ONE-HEALTH: COMBINING THE DIFFERENCES

Chair: Raffaella Cesaroni – Sky TG24

### Speakers:

**Antonia Ricci**

Direttore Generale Istituto Zooprofilattico Sperimentale delle Venezie

**Flavia Riccardo**

Dirigente di Ricerca - Istituto Superiore di Sanità

**Orlando Paciello**

Presidente Ordine dei Medici Veterinari della Provincia di Salerno  
Università degli Studi di Napoli Federico II

**Giuseppe Diegoli**

Responsabile Settore Prevenzione Collettiva e Sanità Pubblica Regione Emilia-Romagna

**Maria Siclari**

Direttore Generale Istituto Superiore per la Protezione e la Ricerca Ambientale

**Danilo Porro**

Delegato Nazionale nella Configurazione "Food, Bioeconomy, Natural Resources, Agriculture and Environment" - Comitato di Programma di Horizon Europe 2021-2027, Cluster 6.

18:00 – 19:00 WELCOME DRINK



**DAY 2** **FRIDAY – 4<sup>th</sup> APRIL 2025 (main language : ENGLISH)**

*Registration desk open from 8:30*

**9:00 – 9:45**

**KEYNOTE: ENTEROVIRUSES – HARMLESS FELLOW PASSENGERS OR NEXT DISEASE X?**

**Heli Harvala**, MD, MSc, PhD, FRCPath, EUPHEM alumni, Professor of Virology at the Institute of Biomedicine, University of Turku, Finland, and Chief Physician, Medical Microbiology and Virology, Turku University Hospital, Finland.

**9:45 – 11:15**

**SESSION I: ADVANCES IN -OMICS TECHNOLOGIES AND APPLICATIONS TO RESEARCH ON INFECTIOUS DISEASES**

*Chair: Davide Sasseria (University of Pavia), Claudio Bandi (University of Milan)*

The next frontier in Toscana virus genome analysis: development of a novel amplicon-based whole genome sequencing technology.

**Alessandra Mistral De Pascali** – Alma Mater Studiorum University of Bologna

Investigating impacts of climate change on mosquito response to viral infection.

**Mariangela Bonizzoni** – University of Pavia

Human host cellular changes induced by West Nile infection: an extensive proteomic approach.

**Enxhi Shaba** – University of Siena

Mobilome characterization and genomic epidemiology of “post-pandemic” re-emerging Group A Streptococcus in an Italian tertiary University Hospital.

**Lorenzo Colombini** – University of Siena

**11:15 – 12:30**

**Coffee break & Poster Session**

**12:30 – 13:15**

**SHORT COMMUNICATIONS**

*Chairs: Antonio Piralla (IRCCS San Matteo Hospital), Valentina Discepolo (University of Naples Federico II)*

Tick's Ticking Clock: how climate change is helping the spread of tick-borne diseases in Europe.

**Gianluca Lombardo** – University of Milano

MALDI-TOF MS identification of ticks in East Africa: a focus on Malawi.

**Ludovica Ingleto** – Alma Mater Studiorum University of Bologna

Plasmid dynamics and local clonal spread of carbapenem-resistant *Klebsiella pneumoniae* over nine years.

**Greta Petazzoni** – University of Pavia

Exploiting innate immune markers and 2D and 3D cell-based in vitro systems to emulate the early blood signature associated with protection in anti-COVID19 immunized subjects.

**Marilena Paola Etna** – Istituto Superiore di Sanità

**13:15– 15:00**

**Lunch & Networking**

**15:00 – 16:30**

**SESSION II: PESTICIDE AND ANTIBIOTIC RESISTANCES: SO DIFFERENT, SO SIMILAR**

*Chairs: Daniele Porretta (Sapienza University of Rome), Dafne Bongiorno (University of Catania)*

Functional approaches for elucidating insecticide resistance mechanisms in mosquitoes.

**John Vontas** – University of Athens



Emerging resistance mechanisms to new antibiotics and novel antibiotic/inhibitor combinations.

**Alessandra Carattoli** – *Sapienza University of Rome*

Citrobacter freundii complex: a silent reservoir of fosA7-like genes.

**Vittoria Mattioni Marchetti** – *University of Pavia*

First nationwide monitoring program of insecticide resistance alleles in main arboviral disease vectors *Aedes albopictus* and *Culex pipiens*.

**Verena Pichler** – *Sapienza University of Rome*

**16:30 – 17:50 Coffee break & Poster Session**

**17:50 - 18:30 SHORT COMMUNICATIONS**

*Chairs: Beniamino Caputo (Sapienza University of Rome), Stefano Stracquadanio (University of Catania)*

Spatial and seasonal distribution of V1016G mutation in *Aedes albopictus* along a transect from coastal areas to the metropolitan city of Rome and beyond.

**Luana Violante** – *Sapienza University of Rome*

From farms to vectors: a systematic review on the association between agricultural pesticides use and insecticide resistance.

**Flavio Piras** – *Sapienza University of Rome*

Antimicrobial surfaces based on photothermal nanoparticles coated by a polydopamine layer loaded with copper(II) cations.

**Laura Ghidoni** – *University of Pavia*

Development of Novel Captopril-Inspired Broad-Spectrum Metallo Beta-Lactamase Inhibitors.

**Valerio Baia** – *University of Naples Federico II*

**DAY 3 SATURDAY 5<sup>th</sup> APRIL 2025 (main language : ENGLISH)**

*Registration desk open from 8:15*

**8:45 – 10:35**

**SESSION III: FROM BENCH TO BEDSIDE AND VICEVERSA: INTERACTION BETWEEN BASIC RESEARCH, CLINICAL MANAGEMENT AND PUBLIC HEALTH TO PREVENT THE IMPACT OF INFECTIOUS THREATS**

*Chairs: Alfredo Guarino (University of Naples Federico II), Alessandra Pierangeli (Sapienza University of Rome)*

Identification of an early innate immune signature correlating with induction and magnitude of protective response to single or simultaneous COVID-19 and seasonal Influenza vaccination: moving toward the optimization of an Artificial Intelligence/Machine.

**Martina Severa** – *Istituto Superiore di Sanità*

Parvovirus B19 infection in children with myocarditis: results from a nationwide study.

**Marco Poeta** – *University of Naples – Federico II*

Respiratory virus infections differentially impact the redox state and inflammatory response in endothelial monoculture and epithelial/endothelial co-culture models.

**Marta De Angelis** – *Sapienza University of Rome*

Management of KSHV Inflammatory Cytokine Syndrome (KICS) in Transplant Patients: Role of Cytokines as Biomarkers and Therapeutic Perspectives.

**Matteo Bulati** – *IRCCS ISMETT*



Spike-Specific Memory B Cell Response in Hematopoietic Cell Transplantation Recipients following Multiple mRNA-1273 Vaccinations: A Longitudinal Observational Study .  
**Elena Pettini** – *University of Siena*

Ex vivo perfusion reveals new insights into the role of sinusoidal cells and macrophages in bacterial clearance in the human spleen.  
**Daniele Ghezzi** – *Alma Mater Studiorum University of Bologna*

**10:35- 11:30 Coffee break e Poster Session**

**11: 30– 13:00 SESSION IV: IDENTIFICATION AND VALIDATION OF MOLECULAR TARGETS ASSOCIATED TO EMERGING INFECTIOUS DISEASES AND PROGRESS IN DRUG DISCOVERY AND DEVELOPMENT**

*Chair: Vincenzo Summa (University of Naples Federico II), Eloise Mastrangelo (National Research Council)*

Innovative Strategies for Antiviral and Antibacterial Therapies: Drug Discovery and Advanced Delivery Systems.  
**Silvia Ferrara** – *National Research Council*

Understanding RSV-host cell interactions: a genome-wide CRISPR-Cas9 screen reveals new essential dependency factors and potential antiviral targets.  
**Rachele Francese** – *University of Torino*

Design, synthesis and biological evaluation of Pan-hCoV helicase inhibitors.  
**Erica Sanna** – *University of Cagliari*

Targeting Pseudomonas aeruginosa Virulence: Design, Synthesis and Biological Evaluation of PqsR Modulators.  
**Valeria Tudino** – *University of Siena*

**13:00 – 15:00 Lunch & Poster Session**

**15:00– 15:50 SHORT PRESENTATIONS SELECTED FROM ABSTRACT**

*Chair: Chiara Sacco (Istituto Superiore di Sanità), Roberto di Santo (Sapienza University of Rome)*

Tracking the origin, evolution and spatial spread of the Italian highly pathogenic avian influenza H5N1 viruses, 2024-2025.  
**Enrico Savegnago** – *Associazione Istituti Zooprofilattici Sperimentali*

Mpro Macrocytic Inhibitors: Structure-Based Drug design approach from HRV to SARS-CoV-2.  
**Alessia Alberico** – *University of Naples Federico II*

Targeting the ESCRT Machinery: A Promising Strategy for the Development of Novel Broad-Spectrum Antivirals (BSAs).  
**Daniele Rubini** – *University of Parma*

Application of the PROTAC Methodology Against Emerging Flavivirus Infections.  
**Eleonora Diamanti** – *Alma Mater Studiorum University of Bologna*

Estimating measles susceptibility and transmission patterns in Italy: an epidemiological assessment.  
**Francesco Menegale** - *Fondazione Bruno Kessler*



15:50 – 17:20

**SESSION V: INTEGRATING AI AND MODELING TO ENHANCE SURVEILLANCE, UNDERSTANDING, AND FORECASTING IN INFECTIOUS DISEASE**

*Chair: Piero Poletti (FBK), Moreno di Marco (Sapienza University of Rome)*

Characterization and forecast of global influenza (sub)type dynamics.

**Francesco Bonacina** – Bocconi University

Understanding vaccine hesitancy in Italy: insights from a large nationwide cross-sectional survey.

**Fabrizio Bert** – University of Torino

Early Identification of Dominant SARS-CoV-2 Variants Using Machine Learning.

**Marika D'Avanzo** – University of Naples Federico II

The impact of school-related interventions on SARS-CoV-2 transmission.

**Giorgio Guzzetta**- Fondazione Bruno Kessler

Introducing Dynamic Positive Unlabeled learning as a new AI tool to predict, unknown wild viral hosts .

**Gabriele Pignalberi** - Sapienza University of Rome

Significant increased risk of arboviral transmission in Rome in a year of record-breaking hot.

**Chiara Virgillito** - Sapienza University of Rome

17:20– 17:30

**WRAP UP and CONCLUDING REMARKS**

*Federico Forneris (Fondazione INF-ACT) & Spoke Leaders*

**ABOUT POSTER EXHIBITION**

**DAY 2** FRIDAY 4<sup>th</sup> APRIL 2025

10:35- 11:30 Poster from 1 to 138 - Even number

13:00 – 15:00 Poster from 1 to 138 - Odd number

**DAY 3** SATURDAY 5<sup>th</sup> APRIL 2025

10:35- 11:30 Poster from 139 to 275 - Even number

13:00 – 15:00 Poster from 139 to 275 - Odd number



Scan the QR code  
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## FACULTY

### Scientific Directors

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University of Pavia

**Giovanni Maga**  
National Research Council

**Anna Teresa Palamara**  
Istituto Superiore di Sanità

### Scientific Committee

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**Luca Bolzoni** – IZSLER  
**Dafne Bongiorno** – University of Catania  
**Beniamino Caputo** - Sapienza University of Rome  
**Alessandra Carattoli** – Sapienza University of Rome  
**Raffaele De Francesco** – University of Milan  
**Moreno Di Marco** – Sapienza University of Rome  
**Roberto Si Santo** – Sapienza University of Rome  
**Giorgio Fedele** - Istituto Superiore di Sanità  
**Sandra Gemma** - University of Siena  
**Alfredo Guarino** - University of Naples Federico II  
**Giorgio Guzzetta** – FBK  
**Francesco Iannelli** – University of Siena  
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**Eloise Mastrangelo** – National Research Council  
**Ana Maria Moreno Martin** – IZSLER  
**Alessandra Pierangeli** – Sapienza University of Rome  
**Antonio Piralla** – San Matteo Hospital  
**Piero Poletti** – Fondazione Bruno Kessler  
**Daniele Porretta** – Sapienza University of Rome  
**Andrea Pugliese** – University of Trento  
**Simona Puzelli** - Istituto Superiore di Sanità  
**Chiara Sacco** – Istituto Superiore di Sanità  
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**Stefano Stracquadanio** – University of Catania  
**Silvia Pisani** – University of Pavia  
**Vincenzo Summa** - University of Naples Federico II  
**Enzo Tramontano** – University of Cagliari  
**Michele Tizzoni** – University of Trento  
**Giulio Viceconte** - University of Naples Federico II

### Organizing Committee

**Federica Zacchini**  
Fondazione INF-ACT

**Giuseppe Matarese**  
University of Naples Federico II

**Federico Forneris**  
Fondazione INF-ACT





## Venue

### Campus AOU Federico II - Via Sergio Pansini, 80131 Napoli NA

Main session will be held in Aula Magna "G.Salvatore" – Building 21, Via Pansisi  
Welcome drink, lunches, coffee breaks and poster exhibition will be held in Building 20 – Ground floor



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