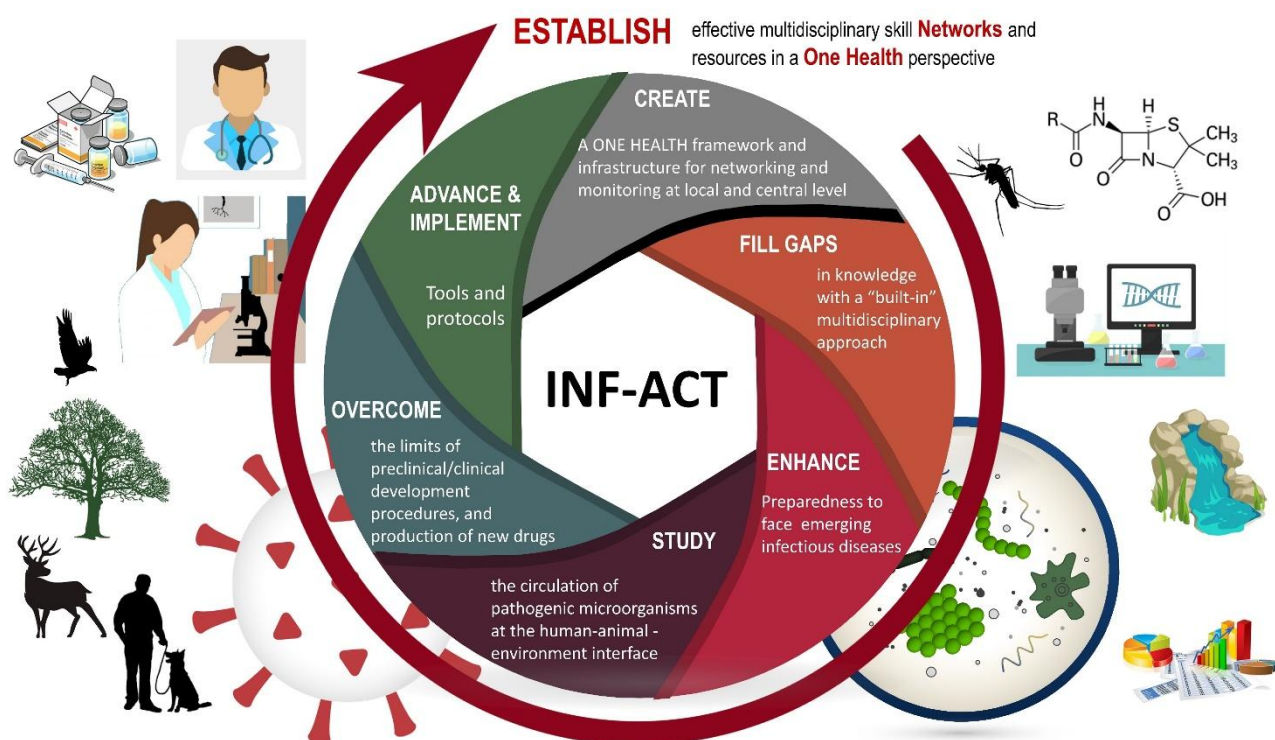


INF-ACT CONFERENCE 2025

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 - 3rd 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 – 4th 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 5th 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 Learning-based hybrid approach for early prediction of vaccination outcome in frail populations.

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 – Istituto Zooprofilattico Sperimentale delle Venezie

Mpro Macrocyclic 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 4th 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 5th APRIL 2025

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

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



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Moreno Di Marco – Sapienza University of Rome
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Federica Zacchini
Fondazione INF-ACT

Giuseppe Matarese
University of Naples Federico II

Federico Forneris
Fondazione INF-ACT

Secretariat

 **eventplanet**
GROUP

Venue

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

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



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