



"Emerging infectious diseases in Europe: challenges and opportunities in data sharing and modelling of response for improved One Health"

Rome, November 26th-27th, 2024

Co-organized by

ISTITUTO SUPERIORE DI SANITÀ

Center of Gender-Specific Medicine and Department of Infectious diseases

CIRAD (FRENCH AGRICULTURAL RESEARCH CENTRE FOR INTERNATIONAL DEVELOPMENT), FRANCE

FONDAZIONE EDMUND MACH (FEM), TRENTO, ITALY

N° ID: 206D24_I

Rationale

The emergence of zoonotic pathogens, including those with high pandemic potential, occurs faster than in any previous historical phase. The most recent pandemic of COVID-19, but also the widespread rise in vector-borne infections such as West Nile virus and Dengue or the global spread of animal infections such as Highly Pathogenic Avian Influenza (HPAI), underscores the stronger interlink between disease emergence and global changes other than the interconnectedness of the world community and the rising threat posed by global inequality to the health, wellbeing, and security of all people.

Epidemic intelligence aims to identify potential health threats early to improve the timely detection and awareness of infectious disease events at the earliest stage of their emergence. Therefore, identifying and surveilling the drivers and conditions recognised to promote the emergence and spread of infectious diseases, along with the availability of innovative analytical tools and new technological platform for big data sharing is crucial to enable public health systems to promptly identify events with high probability of spread, triggering more timely and targeted surveillance, prevention, and intervention actions since the beginning of the emergency phase.

These and other topics will be the subject of the upcoming two-day MOOD 2024 final hybrid conference.

Aims

The objective of this conference is to provide a forum for showcasing current research and findings in the field, identifying critical questions and future research challenges, providing new tools, data and models for Epidemic Intelligence produced by the EU-funded project MOOD, and highlighting the inter-disciplinary approaches needed to meet them under the One Health umbrella.



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PROGRAMME

26 November 2024

MOOD Scientific Conference

8:30 Registration

9:00 Welcoming remarks

Prof. R. Bellantone (ISS), Dr. E. Arsevska (CIRAD, MOOD project coordinator), Dr. Annapaola Rizzoli (FEM)

9:15 **Opening: Preparedness and pandemic plan** (tbd)

Maria Van Kerkhoven, World Health Organization

9.45 **Scientific session A: Respiratory transmitted pathogens (Influenza viruses, coronaviruses)**

Chair: Vittoria Colizza, INSERM, France

Plenary: Modelling Geographic COVID-19 Vaccine Prioritisation Strategies: Insights from an Agent-Based Model for Norway

Birgitte de Blasio

Keynote 1: The role of modelling in impact and risk assessment during emergencies: proofs of concept in the context of the covid-19 pandemic in Italy

Patrizio Pezzotti

Keynote 2: Respiratory virus phylodynamics within MOOD

Philippe Lemey

11.00 Coffee break

11:30 **Scientific Session B: Climate-sensitive infectious diseases in Europe**

Chair: Annapaola Rizzoli, FEM, Italy

Plenary: Climate Change and Vector-Borne Diseases in Europe: Model and Data Challenges

Joachim Rocklöv

Keynote 1: Changing epidemiology of arboviruses in a changing climate: examples from Italy

Flavia Riccardo

Keynote 2: Epidemiologically relevant biological parameters in invasive Aedes albopictus populations in Europe: do we know enough

Alessandra Della Torre

Keynote 3: West Nile virus in Europe: Africa on the move

Giovanni Savini



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13:00 Lunch break (catering)

14:00 Scientific Session C: Antimicrobial Resistance

Chair: Luca Busani

Plenary 1. (tbd)

Keynote 1: Strengthening AMR control through hospital network analysis

Tjibbe Donker

Keynote 2: Antimicrobial Resistance in Animals Raised for Food, Modelling Approaches in Europe

Thomas van Boeckel

15:15 Coffee break

15:45 Scientific Session D: Disease X and pandemic preparedness

Chairs: Wim Van Bortel, Esther van Kleef

Plenary: A One Health approach to prevent pandemics at the source

Wanda Markotter

Keynote 1: Modelling tools for pandemic intelligence: the next generation approach

Niel Hens

Keynote 2: Advancing collaborative surveillance for health emergency prevention, preparedness, response and resilience

Brett Archer (online speech)

Keynote 3: Science-decision interface for a better anticipation and preparation to major health risks

Thierry Lefrançois

17:15 **MOOD platform session**

19:00 Official dinner

27 November 2024

MOOD closing event

8:30 Registration

9:00 **Welcoming remarks**

Elena Arsevska, CIRAD,
European Commission (tbd)

9.05 **Scientific Session A: From disease profiles to modeling and risk mapping**

Chair: Tomislav Hengl





Talks 1-3 MOOD & questions

Perspectives

Didier Fontenille

10:30 Coffee break

11:00 **Scientific Session B. Lessons learned on disease X**

Chair: Anna Teresa Palamara

Talks 1-3 MOOD & questions

Perspectives

Marysa Peyre

12:30 Lunch break (catering)

13:30 **Scientific Session C: Data preparedness and innovative tools for improved Epidemic Intelligence in Europe**

Chair: Maguelonne Teisseire

Talks 1-3 MOOD & questions

Perspectives

Paolo Tizzani

15:00 Coffee break

15:30 **Scientific Session D: Reaching out to users and impacts for Improved Epidemic Intelligence in Europe**

Chair: Guy Hendrickx

Talks 1-3 MOOD & questions

Perspectives

Beate Conrady

17:00 **Closing remarks**

European Commission (tbd),

Elena Arsevska, CIRAD

17:30 **Closure of work**



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SPEAKERS AND CHAIRPERSONS

Brett Archer, World Health Organisation (WHO), Switzerland
Luca Busani, Center of Gender-Specific Medicine, Istituto Superiore di Sanità, Italy
Vittoria Colizza, Institut national de la santé et de la recherche médicale (Inserm), France
Beate Conrady, University of Copenhagen, Denmark
Alessandra Della Torre, Dipartimento di Sanità Pubblica e Malattie Infettive, Università La Sapienza, Italy
Tjibbe Donker, University Medical Center Freiburg, Germany
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Guy Hendrickx, Avia-GIS, Belgium
Tomislav Hengl, OpenGeoHub Foundation, the Netherlands
Niel Hens, Data Science Institute (DSI), Belgium
Athanasios Lapatinas, European Commission Health Emergency Preparedness and Response Authority (tbd)
Philippe Lemey, Rega Institut, University of Leuven, Belgium
Wanda Markotter, Department of Medical Virology, University Faculty of Health Sciences, South Africa
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GENERAL INFORMATION

Conference venue

Istituto Superiore di Sanità, Aula Pocchiari - Viale Regina Elena 299, Roma

The meeting will also be accessible online on Teams videoconference platform. The link to join the meeting will be sent by email to all selected attendees.

Official language

The official language is **English**. Simultaneous translation will not be available.

Target audience

National Health Service professionals, university researchers, students

Maximum number of attendants: 200





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Registration and selection

Attendants are kindly requested to fill out the registration form available online at the following link [REGISTRATION FORM](#) by **October 20, 2024**.

In-person participation will be organised on a first-come, first-served basis until the maximum number of participants is reached. Those whose entries are in excess of this limit will be notified that the maximum number of participants has been reached and that they may opt for online participation.

Registration fees

The participation is free of charge

Abstracts and poster session

Abstract Form and Guidelines: <https://mood-h2020.eu/events-2/mood-final-meeting/>

Certificates

A Certificate of attendance will be provided to those who have attended at least 75% of the event.

This event does not provide any CME credits.

For any further information about the conference, please contact the Organizing Secretariat

Project partners:



[Firma elettronica del Legale Rappresentante]

