Exposome Research

Finding Solutions for a Healthy Planet

Bologna, 17 - 18 June 2026

From Molecular Basis to Sustainable Solutions: Building a Healthier Future through the Exposome Framework

organized by

Alma Mater Institute on Healthy Planet
University Strategic Research Center
Alma Mater Studiorum – University of Bologna

Deputy Director | Professor Angela Montanari

Director | Professor Valerio Carelli

Scientific Committee

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EXPOSOME RESEARCH - Finding Solutions for a Healthy Planet

International Conference | Bologna, 17 – 18 June 2026 - Venue: Aula Ruffilli, Palazzo Hercolani – Strada Maggiore, 45

WEDNESDAY, JUNE 17, 2026
13:30 – 14:00 | Welcome and registration of participants

14:00 – 14:10 | **INSTITUTIONAL GREETINGS**
Simona Tondelli — Deputy Rector
Alma Mater Studiorum – University of Bologna

14:10 – 15:40 | **Session I: Mapping the Multifaceted Exposome**
Session Chair: ***Tullia Gallina Toschi*** *— Unibo, DISTAL*

14:15 – 14:40 | **OPENING KEYNOTE LECTURE** — Remote connection
Cathrine Thomsen — Department Director at the Department of Food Safety at NIPH
The chemical exposome and relevance for public health

14:45 – 15:10 | **EUROPEAN CLUSTERS — from the ENLIGHTENme to the eMOTIONAL CITIES project**

Bruno Miranda — University of Lisbon
From Brain to City: How Environmental Neuroscience is Shaping Healthier Urban Futures

15:15 – 15:40 | **EUROPEAN CLUSTERS — from the TRIGGER to the CATALYSE project**

Francesca de' Donato — *Department of Epidemiology ASL Roma 1, Italy*
Promoting health through climate change adaptation and mitigation actions, results from the Catalyse project

15:45 – 16:15 | Coffee Break & Networking

16:15 – 17:10 | **FOCUS ON THE EUROPEAN PROJECT: ORCHESTRA — Bologna Unit**
16:15 - 16:20 *Introduction*: **Maddalena Giannella** — Unibo, DIMEC

16:20 – 16:35 | **Alessandro Mattiaccio** — IRCCS Pol. S. Orsola
Covid19: looking into the nuclear genome

16:35 – 16:50 | **Alessia Fiorentino** — IRCCS ISNB
Covid19: looking into the mitochondrial genome

16:50 – 17:05 | **Silvia Turroni** — Unibo, FABIT
Covid 19: looking into the microbiome

17:10 – 17:40 | **FLASH TALKS SESSION**
Igniting the research engine: leveraging the molecular basis for sustainable solutions within the Horizon Europe 2027 challenge

Session Chair: ***Claudia Zanna*** *— Unibo, DIBINEM*

17:15 – 17:21 | **Francesca Maffei** et al. — Unibo, QUVI
Multi-methodology approach to assess the impact of the interplay between climate change and the exposome on human health

17:21 – 17:27 | **Matilde Tura** et al. — Unibo, DISTAL
Can climate-driven changes in food systems influence the human exposome and the related health outcomes?

17:27 – 17:33 | **Stefania D'Adamo** — Unibo, DIBINEM
Looking at the Exposome beyond gene expression

17:33 – 17:39 | **Francesco Scalone** — Unibo, STAT
Integrating Climate Exposures and Demographic Microdata: A Long-Term Perspective on the Human Exposome

17:39 – 17:45 | **Cristiana Caliceti** — Unibo, DIBINEM
Biomarkers and biosensing technologies for monitoring climate-driven alterations of the human nutritional exposome

18:00 – 19:00 | Welcome Cocktail & Networking — Palazzo Hercolani

THURSDAY, 18 JUNE 2026
09:00 – 09:30 | Welcome and registration of participants

09:30 – 11:10 | **Session II: Solutions for a Healthy Planet – Bioeconomy and Oncology**
Session Chair: ***Francesca Agostini*** *— Unibo, PSI*

09:35 – 10:00 | **BIOECONOMY**
Davide Viaggi — Unibo, DISTAL
Bioeconomy: from meta-sector to systemic societal transformation

10:05 – 11.10 | **THE EXPOSOME IN ONCOLOGY**

10.05 - 10.35| **Gianluca Severi** — Inserm Research Director, Gustave Roussy, France and University of Florence
The concept of exposome and its role in cancer and other major chronic diseases

10:40 – 11:10 | **Giulio Ferrero** — University of Turin
Fecal miRNAs as non-invasive biomarkers of environmental exposure and colorectal cancer

11:10 – 11:35 | Late Morning Coffee Break

11:35 – 12:45 | **FINAL ROUND TABLE**
Moderator: **Valerio Carelli** — Director of the AHP Center, Unibo, DIBINEM
Exposome: Integrating Bioeconomy, Society, and Health. Interdisciplinary synthesis and perspectives for Horizon Europe 2027

12:45 | **CLOSING REMARKS**
Valerio Carelli — Director of the AHP Center, Unibo, DIBINEM

| Scientific Committee |

Valerio Carelli, Angela Montanari, Tullia Gallina Toschi, Claudia Zanna, Francesca Agostini, Claudio Travaglini, Walter Cabri

| Conference Secretariat |
almaplanet@unibo.it
Registration:
https://forms.office.com/e/rjuiCXEKb8