



Ministero della Salute



Centro Nazionale Prevenzione
e Controllo Malattie



The exposome: between epidemiology, toxicology and biomonitoring

Ongoing initiatives in Europe and Italy and opportunities for disease prevention

Milano, February 21, 2020

Regione Lombardia, Piazza Citta di Lombardia
Sala Solesin

The concept of the exposome introduced at the beginning of century has been shaping the research agenda in environmental health, leading to the recently launched **European Human Exposome Network** which combines nine research projects funded under Horizon2020.

The exposome encompasses the life course exposure to all environmental factors, including the general population environment (e.g. urban environment, social capital, climate factors, green spaces) and the specific individual environment (e.g. contaminants, tobacco, diet, consumer products). We are starting to learn how to measure the exposome, explore the relationship between the exposome and health, and translate the results into prevention actions.

The workshop will introduce the concept of the exposome, describe ongoing projects, and discuss the future agenda for the exposome research in Italy.

The workshop is part of the training initiatives of the CCM RIAS project (<https://rias.epiprev.it/>)



PROGRAMMA

08.30 - 09.00 Registration

09.30 Welcome (Ennio Cadum)

09.40 - 11.00 Concept and applications (Annamaria Colacci)

09.40-10.10 Relevance and challenges of the exposome concept of the exposome and environmental health
(*Rémy Slama*)

10.10-10.35 Epigenetics, gaps and challenges: Seizing opportunities for understanding and translation for public health protection.
(*Miriam Jacobs*)

10.35-11.00 Molecular markers of the exposure
(*Valentina Bollati*)

11.00 - 11.30 Break

11.30 - 12.45 Exposome research for decision-making and prevention (Lorenzo Richiardi)

11.30-11.55 From epidemiology to intervention: "Born in Bradford", a city collaborative approach to improving population health (*Rosie McEachan*)

11.55-12.20 European Human Biomonitoring Initiative: HBM4EU Project (*Greet Schoeters*)

12.20-12.45 Health Environment Research Agenda for Europe, HERA-ENVHEALTH project
(*Manolis Kogevinas*)

12.45 - 13.45 Italian experience and general discussion (Fabrizio Bianchi)

12.45-13.00 Contribution to exposome research of the Italian birth cohort Piccolipiù
(*Daniela Porta*)

13.00-13.15 LIFEPAATH - Healthy ageing for all (*Carlotta Sacerdote*)

13.15- 13.30 InVETTA - Biomonitoring investigation and epidemiological evaluations in the territories of Amiata (*Daniela Nuvolone*)

13.30-13.45 NEUROSOME - Genetic predisposition, cumulative exposure to multiple environmental chemicals of children and neurodevelopmental disorders
(*Laura Ricceri*)

13.45 Closure of the workshop

Moderatori e Relatori

Fabrizio Bianchi - Istituto Fisiologia Clinica del Consiglio Nazionale delle Ricerche, Pisa

Valentina Bollati - Università di Milano

Ennio Cadum - Dipartimento Igiene e Prevenzione sanitaria Agenzia per la Tutela della Salute (ATS) di Pavia

Annamaria Colacci - Agenzia regionale per la prevenzione, l'ambiente e l'energia dell'Emilia-Romagna

Francesco Forastiere - Istituto per la Ricerca e Innovazione Biomedica (IRIB-CNR), Palermo

Miriam Jacobs - Public Health England

Manolis Kogevinas - ISGlobal - Barcelona

Rosie McEachan - Bradford Institute for Health Research, Bradford Royal Infirmary, Bradford-UK

Daniela Nuvolone - Unit of Epidemiology, Regional Health Agency of Tuscany, Florence

Daniela Porta - Dipartimento di Epidemiologia del SSR del Lazio, Roma

Laura Ricceri - ISS, Roma

Lorenzo Richiardi - Università di Torino e CPO Piemonte

Carlotta Sacerdote - CPO Piemonte

Greet Schoeters - VITO Health, University of Antwerp- Environment and Health

Rémy Slama - Inserm and CNRS, University Grenoble Alpes, Institute of Advanced Biosciences, JRC, Grenoble

Participation in the conference is free, it is possible to register until February 15th

[Click here to sign up](#)

Seats are limited. We will proceed on the basis of the registration date until reaching the number of available places (80).

Scientific Committee: C. Ancona, F. Bianchi, A. Colacci, F. Forastiere, L. Richiardi

Organizing Committee: S. Deandrea, G. Xerri, M. Podda, V. Moro, M. Cutrano, A. Fucci, A. Sarolli, R. Tebaldi, N. Cornaggia, V. Todeschini, E. Cadum