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RESPIRA *Mi*

Recent Advances on Air Pollution and Health



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In collaboration with:



Associazione
Italiana di
Epidemiologia

2nd-3rd March 2026 / Fondazione Cariplo
Conference Center, Via Romagnosi, 8 - Milan, IT

RATIONALE

Reducing the incidence and prevalence of modifiable risk factors of Non-Communicable Diseases (NCDs) is a critical endeavor to address the global burden of these ailments that claim several million lives per year, and to foster effective primary and secondary prevention initiatives. Among these risk factors, air pollution is one of the most important, owing to its ubiquitous environmental and household exposure in both low- high-income countries. In addition, heat exposure and traffic noise represent further environmental risk factors. With this background, in collaboration with the Environmental Research Group (ERG) at Imperial College London, UK, we are organizing for the sixth time the International Seminar “RespiraMi”, which will take place on 2-3 March 2026 in Milan, Italy.

An impressive faculty of experts will present the most recent data arising from research carried out in the last few years and thus update current knowledge and highlight recent progress. In the first session of the Seminar, the NCD burden caused by air pollution will be related to the economic costs as well as to the broad economic assessment of the effects on health of these environmental risk factors. Subsequently the first day of the Seminar will update on specific diseases adversely affected by air pollution: on the mechanisms of the adverse cardiovascular outcomes (CVDs) but also on the novel clinical consensus statement recently released by the European Society of Cardiology. Next, there will be insights and discussion on the basic mechanisms linking air pollution to neurological and mental disorders, with special emphasis on neurodegenerative diseases such as dementia, Parkinson’s disease, multiple sclerosis, and motor neuron diseases. The important issue of adverse birth outcomes will be dealt with by investigating the relationship between gestational exposure to air pollution and these outcomes, with an overview of the related mechanisms. Within the first day of the seminar, there will also be the evaluation of new data on the impact of non-exhaust emissions on asthma, as well as a report on new insights into the health impact of indoor air pollution, a topic less frequently tackled than outdoor ambient air pollution.

The last session of the first day will deal with the important unsolved problem of exposure to nano- and microplastic particles, assessing the role of airborne particles and fibres, as well as reviewing the current evidence available on their effects on human health. In the second day of the Seminar, the first part of the program will deal with recent research carried out in Italy and elsewhere, and presented by participants on the selected posters. Next, there will be an important session dealing with the methodological challenges inherent to the evaluation of the independent and joint effects of the exposome on human health, with emphasis on exposure measurement errors, their determinants, and correction methods.

The issue of urban health will be dealt with by reviewing the effects of traffic noise on human health and how ongoing trends in urban planning may help improve environmental health by reducing traffic and increasing urban green areas.

After a panel discussion addressing lessons learned from the Seminar, related plans and perspectives, the Seminar will close with an important session on policy, with specific topics such as air pollution inequalities in Europe, science policy summary from the WHO, as well as the issue of the slow progress with many “stop and go” of the Green Deal in the European Union. The afternoon of the second day, the seminar will end with a demonstration of how a few cities are in the vanguard against air pollution, presented as a conversation between the Imperial College London and representatives of the C40 cities that are developing inclusive climate and environment actions. Throughout the seminar, the posters submitted by the participants will be on display.

Francesco Forastiere

Sergio A. Harari

Klea Katsouyanni

Michał Krzyzanowski

Pier Mannuccio Mannucci

CHAIRS OF THE SEMINAR:

Francesco Forastiere

National Research Council (CNR-IFT), Palermo (IT)
Environmental Research Group Imperial College London (UK), Rome (IT)

Sergio A. Harari

Division of Respiratory Disease and Division of Internal Medicine
Ospedale San Giuseppe MultiMedica IRCSS, University of Milan (IT)

Klea Katsouyanni

Environmental Research Group, School of Public Health
Imperial College London, London (UK)
National and Kapodistrian University of Athens (GR)

Michal Krzyzanowski

Environmental Research Group Imperial College London (UK), Warsaw (PL)

Pier Mannuccio Mannucci

Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico,
Angelo Bianchi Bonomi Hemophilia and Thrombosis Center, Milan (IT)

CO-ORGANIZED BY:



FONDAZIONE
MENARINI

Centro Direzionale Milanfiori
20089 Rozzano (Milan, Italy)
Strada 8 – Edificio N
Phone: +39 02 55308110 | Fax: +39 02 55305739
milan@fondazione-menarini.it
www.fondazione-menarini.com

Imperial College
London



Fondazione IRCCS Ca' Granda
Ospedale Maggiore Policlinico



SCIENTIFIC SECRETARIAT

Promoviaggi S.p.a.

Viale Gian Galeazzo 3
20136 Milan – Italy
www.pvagency.it
secretariat@respirami.org

MONDAY, 2ND MARCH 2026 - MORNING

09.00 a.m. - 09.15 a.m. Opening
F. Blandini Scientific Director IRCCS Ca' Granda
Ospedale Maggiore Policlinico (Milan, IT)
F. Kelly Director ERG, Imperial College (London, UK)
G. Caracciolo Scientific Affairs & Operations Director,
Fondazione Menarini (Florence, IT)

SESSION I - RISK ASSESSMENT

Chairpersons: **F. Forastiere** (Rome, IT/London, UK) ,
S.A. Harari (Milan, IT)

09.15 a.m. - 09.35 a.m. Guidance on concentration–response functions for health
risk assessment in the WHO European Region
R. Perez-Velasco (Bonn, DE)

09.35 a.m. - 09.55 a.m. Estimation of Morbidity from Air Pollution and its
Economic Costs: WHO EMAPEC project results
P. Mudu (Geneva, CH)

09.55 a.m. - 10.15 a.m. Economic Assessment of Health Effects of Air Pollution: EU
project VALESOR
J.V. Spadaro (Philadelphia, USA)

10.15 a.m. - 10.30 a.m. Q&A

10.30 a.m. - 11.00 a.m. Poster Viewing

SESSION II - UPDATES ON SPECIFIC DISEASES

Chairpersons: **K. Katsouyanni** (Athens, GR/London, UK),
P. M. Mannucci (Milan, IT)

CARDIOVASCULAR OUTCOMES

11.00 a.m. - 11.20a.m. Environmental Risk Factors and Cardiovascular Outcomes: mechanisms and epidemiological evidence
A. Peters (Munich, DE)

11.20 a.m. - 11.40a.m. The Clinical Consensus Statement of the European Society of Cardiology
M. Piepoli (Milan, IT)

11.40 a.m. - 11.50a.m. Q&A

NEUROLOGICAL AND MENTAL DISORDERS

11.50 a.m. – 12.10 p.m. Basic mechanisms linking air pollution to neurological and mental disorders
I. Mudway (London, UK)

12.10 p.m. – 12.30 p.m. Neurodegeneration and Air Pollution: Dementia, Parkinson's, Multiple Sclerosis and Motor Neuron Disease
H. Khreis College Station (USA)

12.30 p.m. – 12.40 p.m. Q & A

BIRTH OUTCOMES

12.40 p.m. – 01.00 p.m. Gestational air pollution exposure and adverse birth outcomes: mechanisms overview
J. Fussell (London, UK)

01.00 p.m. – 01.10 p.m. Q & A

01.10 p.m. – 02.30 p.m. Poster Viewing

MONDAY, 2ND MARCH 2026 - AFTERNOON

SESSION III - OUTDOOR AND INDOOR AIR POLLUTION

Chairperson: **F. Kelly** (London, UK)

02.30 p.m. - 02.50 p.m. Impact of non-exhaust emissions on the asthmatic airway – The IONA study
C. Griffiths (London, UK)

02.50 p.m. - 03.10 p.m. New insights into the health impact of indoor air pollution
B. Barratt (London, UK)

03.10 p.m. - 03.25 p.m. Q&A

NANO- AND MICROPLASTIC PARTICLES

03.25 p.m. - 03.45 p.m. Exposure assessment to airborne NANO- and microplastic particles and fibres
S. Wright (London, UK)

03.45 p.m. - 04.05 p.m. Human evidence and perspectives
F. Prattichizzo (Milan, IT)

04.05 p.m. - 04.20 p.m. Q&A

04.20 p.m. - 05.00 p.m. Poster Viewing

05.00 p.m. *End of Day 1*

TUESDAY, 3RD MARCH 2026 - MORNING

SESSION IV - AIR POLLUTION AND HEALTH: FUTURE PERSPECTIVE

Chairpersons: **M. Carugno** (Milan, IT), **L. Richiardi** (Turin, IT)

09.00 a.m. - 10.10 a.m. Research in Italy and Elsewhere
Poster session: oral presentation of 6 selected posters

SESSION V - METHODOLOGICAL ADVANCES

Chairpersons: **Z. J. Andersen** (Copenhagen, DK) ,
B. Hoffmann (Düsseldorf, DE)

10.10 a.m. - 10.30 a.m. Methodological challenges in the evaluation of
independent and joint effects of the external exposome
on human health
M. Stafoggia (Rome, IT)

10.30 a.m. - 10.50 a.m. Exposure measurement error: determinants and
correction methods
D. Evangelopoulos (London, UK)

10.50 a.m. - 11.00 a.m. Q & A

11.00 a.m. - 11.30 a.m. Poster Viewing

SESSION VI - URBAN HEALTH

Chairpersons: **Z. J. Andersen** (Copenhagen, DK) ,
B. Hoffmann (Düsseldorf, DE)

11.30 a.m. - 11.50 a.m. Is traffic noise really hazardous to health?
D. Vienneau (Utrecht, NL)

11.50 a.m. - 12.10 p.m. Future trends in urban environmental health
M. Nieuwenhuijsen (Barcelona, ES)

12.10 a.m. - 12.20 p.m. Q & A

**SESSION VII - PANEL DISCUSSION: WHAT HAVE WE
LEARNT? WHAT NEXT?**

Chairperson: **H. Boogaard** (Boston, USA)

12.20 p.m. - 01.00 p.m. Panelists: **B. Barratt** (London, UK), **A. Peters** (Munich, DE)
B. Brunekreef (Utrecht, NL), **M. Kutlar-Joss** (Basel, CH)

01.00 a.m. - 02.00 p.m. Poster Viewing

TUESDAY, 3RD MARCH 2026 - AFTERNOON

SESSION VIII - POLICY SESSION

Chairpersons: **K. Katsouyanni** (Athens, GR/London, UK)
P. M. Mannucci (Milan, IT)

02.00 p.m. - 02.15 p.m. Air pollution inequalities in Europe
Z. Andersen (Copenhagen, DK)

02.15 p.m. - 02.30 p.m. Health science and policy summaries from WHO
S. Gummy (Geneva, CH)

02.30 p.m. - 02.45 p.m. The State of Global Air: Can data help to tackle air pollution?
P. Pant (Boston, USA)

02.45 p.m. - 03.00 p.m. Europe and Green Deal: stop and go
B. Hoffmann (Düsseldorf, DE)

03.00 p.m. - 03.10 p.m. Q & A

SESSION IX - CITIES IN THE VANGUARD AGAINST AIR POLLUTION

Chairperson: **P. M. Mannucci** (Milan, IT)

03.10 p.m. - 03.50 p.m. A conversation between **F. Kelly** (Imperial College London) and **L. M. Morel** (C40 Cities, Inclusive Climate Action, Breathe Cities)

03.50 p.m. - 04.00 p.m. Citizen-generated granular air quality monitoring at the service of the community and localized medical research in Milan
C. Burton (APS - Associazione Parco Segantini)

04.00 p.m. Seminar Ends

FACULTY

Zorana Jovanovic Andersen	Department of Public Health University of Copenhagen Copenhagen (DK)
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Benjamin Barratt	Environmental Research Group School of Public Health Imperial College London (UK)
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Hanna Boogaard	Health Effects Institute Boston (USA)
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Bert Brunekreef	Environmental Epidemiology Institute for Risk Assessment Sciences Utrecht University Utrecht (NL)
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Christabel Burton	APS - Associazione Parco Segantini Milan (IT)
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Michele Carugno	Department of Clinical Sciences and Community Health, University of Milan and Occupational Health Unit, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico Milan (IT)
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Dimitris Evangelopoulos	Environmental Research Group School of Public Health Imperial College London (UK)
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Francesco Forastiere	National Research Council (CNR-IFT) Palermo (IT) Environmental Research Group Imperial College London London (UK)/Rome (IT)
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FACULTY

Julia Fussell	Environmental Research Group School of Public Health Imperial College London (UK)
Chris Griffiths	Primary Care at Barts and The London School of Medicine and Dentistry Queen Mary University of London London (UK)
Sophie Gummy	Department of Environment, Climate Change and Health World Health Organization Geneva (CH)
Sergio A. Harari	Division of Respiratory Disease and Division of Internal Medicine San Giuseppe Hospital MultiMedica IRCSS - University of Milan Milan (IT)
Barbara Hoffmann	Institute for Occupational, Social and Environmental Medicine Heinrich-Heine-University of Düsseldorf Düsseldorf (DE)
Klea Katsouyanni	Environmental Research Group School of Public Health Imperial College London (UK) National and Kapodistrian University of Athens Athens (GR)
Frank Kelly	Environmental Research Group School of Public Health Imperial College London (UK)

FACULTY

Haneen Khreis	Texas A&M Transportation Institute, Texas A&M University System College Station (USA)
Michal Krzyzanowski	Environmental Research Group Imperial College London London (UK), Warsaw (PL)
Meltem Kutlar - Joss	Office for Environment and Energy AUE University of Basel Basel (CH)
Pier Mannuccio Mannucci	Department of Clinical Sciences, and Community Health University of Milan and Epidemiology Unit Fondazione IRCCS Ca' Granda- Ospedale Maggiore Policlinico Milan (IT)
Luisa Miranda Morel	Inclusive Climate Action, Breathe Cities Milan (IT)
Pierpaolo Mudu	WHO European Centre for Environment and Health Geneva (CH)
Ian Mudway	Environmental Research Group School of Public Health Imperial College London (UK)
Mark Nieuwenhuijsen	Urban Planning, Environment and Health Initiative IS Global Barcelona (ES)
Pallavi Pant	Department, Institute and City work - Global Initiatives, Health Effects Institute Boston (USA)

FACULTY

Roman Perez Velasco	WHO Centre for Environment Climate Change and Health WHO Regional Office for Europe Bonn (DE)
Annette Peters	Institute for Medical Information Processing, Biometry and Epidemiology, Ludwig-Maximilians- Universität München Munich (DE)
Massimo Piepoli	Department of Biomedical Sciences for Health University of Milan Milan (IT)
Francesco Prattichizzo	Department of Cardiovascular and Dysmetabolic Diseases IRCCS MultiMedica Milan (IT)
Lorenzo Richiardi	Department of Medical Sciences University of Turin Turin (IT)
Joseph V. Spadaro	SERC (Spadaro Environmental Research Consultants) Philadelphia (USA)
Massimo Stafoggia	Department of Epidemiology Lazio Region Health Service Rome (IT)
Danielle Vienneau	Julias Center for Health Sciences and Primary Care University Medical Center Utrecht Utrecht (NL)
Stephanie Wright	Environmental Research Group School of Public Health Imperial College London (UK)

RespiraMi

Recent Advances on Air Pollution and Health

GENERAL INFORMATION

VENUE

Conference Center
Fondazione Cariplo
Via Romagnosi, 8 - Milan, IT

OFFICIAL LANGUAGE

The official language of the seminar is English.

REGISTRATION HOURS FOR RESIDENTIAL EVENT

Monday, 2 March 2026: 08.00 a.m.- 05.00 p.m.
Tuesday, 3 March 2026: 08.00 a.m.- 04.30 p.m.

LIVE STREAMING EVENT ONLINE ON

Monday, 2 March 2026: 09.00 a.m.- 05.00 p.m.
Tuesday, 3 March 2026: 09.00 a.m.- 04.30 p.m.
Please note that times are expressed in Local Italy time

FACULTY SLIDE CENTRE OPENING HOURS

The center will be open at the following times:
Monday, 2 March 2026: 08.00 a.m.- 05.00 p.m.
Tuesday, 3 March 2026: 08.00 a.m.- 04.30 p.m.

TECHNICAL FACILITIES

Facilities will be available for computer presentations and overhead projections.
A slide center with pcs (windows and macintosh operating systems) will be available for Speakers to preview and finalize their presentations. Speakers are kindly requested to submit Their presentations to the slide center technicians at least one hour before their talks.

LUNCH AND COFFEE BREAKS

Lunch and coffee breaks will be served in the meeting area.

ATTENDANCE CERTIFICATE

The attendance certificate will be provided via email upon request.

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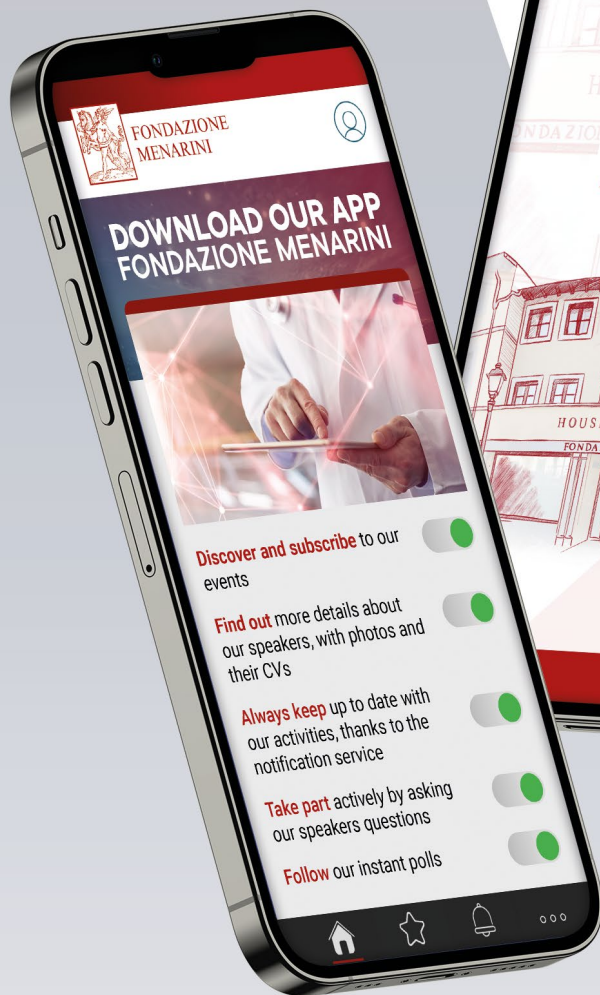
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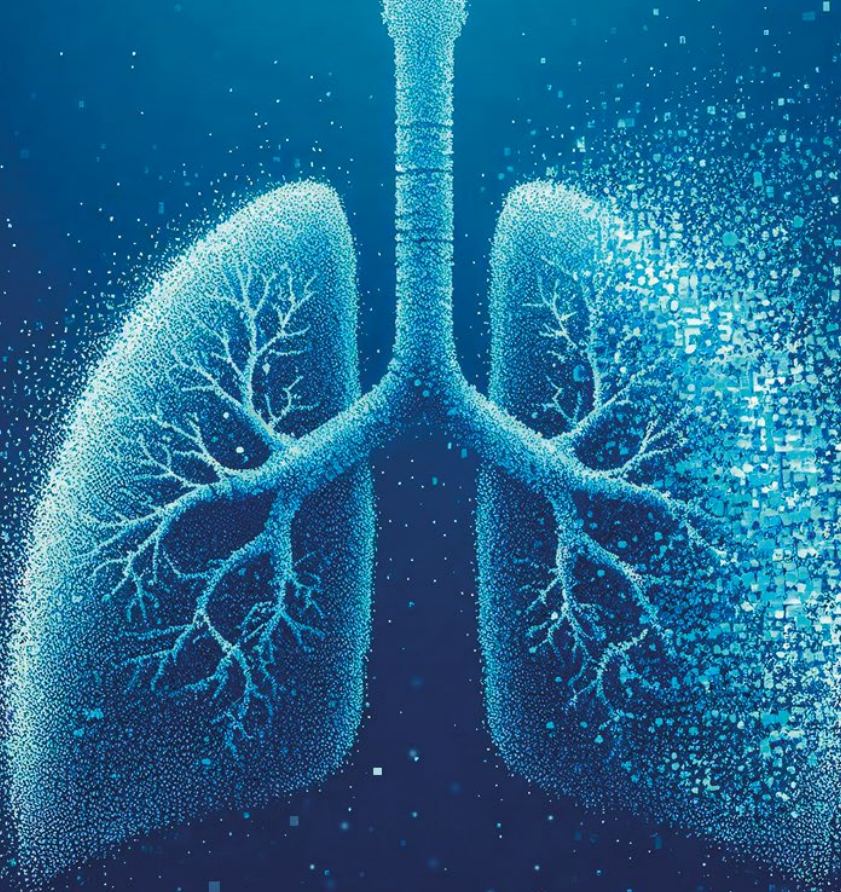


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