

FIRST SCIENTIFIC SYMPOSIUM



# Health and Climate Change



Istituto Superiore di Sanità  
Italian National Institute of Health

**Rome | December 3-5 | 2018**



Green event

# Scientific Programme Overview

<b>Monday, December 3</b>			
	<b>POCCHIARI</b> ROOM	<b>BOVET</b> ROOM	<b>MAROTTA</b> ROOM
09:00-11:00	<b>Welcome remarks and opening address</b>		
Coffee Break			
11:30-13:00	<b>Opening Plenary Session</b>		
Lunch Break			
14:00-16:00	<b>Oral Session 1</b>	<b>Oral Session 2</b>	<b>Poster Session</b>
Coffee Break			
16:00-18:00	<b>Oral Session 3</b>	<b>Oral Session 4</b>	<b>Oral Session 5</b>
<b>Tuesday, December 4</b>			
09:00-10:45	<b>Oral Session 6</b>	<b>Oral Session 7</b>	<b>Oral Session 8</b>
Coffee Break			
11:15-13:00	<b>Oral Session 9</b>	<b>Oral Session 10</b>	<b>Oral Session 11</b>
Lunch Break			
14:00-16:00	<b>Oral Session 12</b>	<b>Oral Session 13</b>	<b>Poster Session</b>
Coffee Break			
16:30-18:00	<b>Oral Session 14</b>	<b>Oral Session 15</b>	<b>Oral Session 16</b>
<b>Wednesday, December 5</b>			
09:00-11:00	<b>Oral Session 17</b>	<b>Oral Session 18</b>	<b>Poster Session</b>
Coffee Break			
11:30-13:00	<b>Plenary Session</b>		
Lunch Break			
14:00-15:00	<b>Final Plenary Session</b>		
Coffee Break			
15:30-17:00	<b>Closing remarks+Awards+Rome Declaration</b>		

## PROGRAMME

# Monday, December 3

- 8:00 **Registration**  
9:00 **Welcome remarks and opening address**  
**Walter Ricciardi**, President of the Istituto Superiore di Sanità  
*Institutional Representatives and Special Guests*  
**Giulia Grillo**, Minister of Health- invited  
**Sergio Costa**, Minister of Environment  
**Stefano La Porta**, Istituto Superiore per la Protezione e Ricerca Ambientale, Rome, Italy (ISPRA) (invited)  
**Salvatore Parlato**, Consiglio per la Ricerca e la sperimentazione in Agricoltura – Rome, Italy , (CRA) (invited)  
**Massimo Inguscio**, Consiglio Nazionale delle Ricerche Rome, Italy (CNR) (invited)  
**Gaetano Manfredi**, Conferenza dei Rettori delle Università italiane  
**Monique Eloit**, World Organization for Animal Health- OIE  
**Tedros Adhanom Ghebreyesus**, World Health Organization  
**Alexander Jones**, Food and Agriculture Organization of the United Nations  
**Christopher Wild**, International Agency for Research on Cancer
- 10.30 **Coffee Break**  
11.00 **Institutional Representatives and Special Guests**  
**Maria P. Neira**, World Health Organization  
**Andre Jol**, European Environment Agency  
**Tobin Robinson**, European Food Safety Agency  
**President**, International Association of National Public Health Institutes  
**Eric Chivian**, Director Emeritus Center for Health and the Global Environment Harvard Medical School).

## Opening Plenary Session

Chair **Walter Ricciardi**

- 11.30 **The impact of pollution on plenary health Emergence of an Underappreciated Risk Factor**  
Philip J. Landrigan
- 12.00 **Climate Change: Through a Planetary Health Lens**  
Howard Frumkin
- 12.30 **Towards climate smart healthcare: paving the way for a low-carbon, resilient health system**  
Tamer S. Rabie
- 13.00 **Lunch Break**

## Oral Session 1 (POCCHIARI ROOM)

### ENVIRONMENT AND HEALTH

Chairs: **Eugenia Dogliotti and Chris Wild**

- 14.15 **Interplay of climate change and air pollution on health**  
H. Orru
- 14.45 **Children environmental health and climate change**  
I. Iavarone
- 15.00 **Methods for estimating ingestion exposure to common contaminants: linking land contamination, climate change and ingestion behaviours**  
R. Hams
- 15.15 **Does climate change increase toxic cyanobacterial human health risk)**  
M. Manganelli
- 15.30 **Contrasting-climate skin temperature gradient effects**  
**K. Makris**
- 15.45 **Discussion**

## Oral Session 2 (BOVET ROOM)

### CLIMATE CHANGE AND ZOOZOSES

Chairs **Umberto Agrimi and Romano Marabelli**

- 14.15 **Climate change impacts on zoonotic diseases**  
K. Murray
- 14.45 **Systematic and global effects of land use on zoonotic host communities**  
R. Gibb
- 15.00 **Early warning for tick-borne encephalitis hazard. climatic variables and host density successfully explain co-feeding tick transmission in northern Italy**  
A. Rizzoli
- 15.15 **West nile virus in north-eastern Italy: preliminary results of surveillance activities in 2018**

- P. Mulatti  
15.30 **Mediterranean spotted fever spatio-temporal distribution, and its association with meteorological factors in Spain**  
A.R. Vidal  
15.45 **Discussion**

## **Poster Session December, 3 (MAROTTA ROOM)**

- 14.00 **Poster corner**  
16.00 **Coffee Break**

## **Oral Session 3 (POCCHIARI ROOM)** **CLIMATE CHANGES SCENARIO**

Chairs **Antonio Navarra and Vladimir Kendrovski**

- 16.35 **The challenge of climate science**  
A. Navarra  
16.55 **Projected health effects of climate change in WHO European Region**  
V. Kendrovski  
17.15 **What may happen when tropical microalgae spread in temperate waters? The case study of *Ostreopsis* spp. From health impact to chemistry and viceversa**  
C. Dell'Aversano  
17.25 **Impact of mycotoxins on health in climate change scenario**  
P. Battilani  
17.35 **Future health impacts of temperatures and heatwaves considering high resolution climate change scenarios in Italy**  
F. de'Donato  
17.45 **Climate change and river ecosystems: insight from long-term environmental research.**  
S. Larsen  
17.55 **Discussion**

## **Oral Session 4 (BOVET ROOM)** **CLIMATE CHANGE AND CHILDREN HEALTH**

Chairs **Maurilio Cipparone and Paola Michelozzi**

- 16.35 **Parks, gateways to healthy living for people and the planet**  
D. Allen  
16.55 **Climate Change, environmental exposures, urban green and children health**  
P. Michelozzi  
17.15 **Greenness and air pollution exposure on children health. A cross sectional study in southern Italy**  
S. La Grutta  
17.25 **Effect modification by socio-economic position and green spaces of short-term exposure to heat and air pollutants on preterm-birth risk. A time series study in Rome, 2001-2013.**  
F. Asta  
17.35 **The restorative effects of outdoor environmental education**  
G. Carrus  
17.45 **Nature: an important ally for children's health**  
A. Tavone  
17.55 **Discussion**

## **Oral Session 5 (MAROTTA ROOM)** **HEALTHIER CITIES**

Chairs **Andrea Lenzi and Maria Rosaria Milana**

- 16.40 **Latest developments with EU Climate Change Adaptation Policy and links with health**  
J. Milos  
17.10 **Social interventions to limit the mortality increase during the summer 2017 heat waves in Rome – Italy**  
G. Liotta  
17.20 **Reducing urban heat waves risk: heat health adaptation plan in Italy**  
P. Michelozzi  
17.30 **Climate and health in large urban areas of Italy: following the change through a dedicated meteorological network**  
C. Ferrari  
17.40 **Discussion**

# Tuesday, December 4

## Oral Session 6 (POCCHIARI ROOM)

### MENTAL HEALTH AND CLIMATE CHANGE

Chairs Enrico Alleva and Massimo Biondi

- 09.10 **Climate change and mental health**  
M. Biondi
- 09.30 **The impact of climate change on persons with mental health conditions**  
A. Preti
- 09.50 **Mental health care in Italy and the climate change challenge**  
L. La Sala
- 10.10 **Extreme weather events on mental health**  
D. Marazziti
- 10.20 **Natural, urban and historical-urban environments on children affected by ADHD in Italy**  
F. Di Carmine
- 10.30 **Changes in feeding due to climate modulated human mental processes and preferences about food**  
R.I. Rumiati
- 10.40 **Discussion**

## Oral Session 7 (BOVET ROOM)

### WATER, SANITATION AND CLIMATE CHANGE

Chairs Luca Lucentini and Oliver Schmoll

- 09.15 **Water safety planning for climate resilience**  
R. Moses McKeown
- 09.50 **The Protocol on Water and Health tools to increase resilience to climate change and water-related disasters.**  
N. Nikiforova
- 10.10 **Water and sanitation in extreme weather events. Environment and health risks and vulnerabilities.**  
L. Sinisi
- 10.25 **Assessment of climate change impacts on groundwaters of semiarid regions. Health-risk for floods.**  
C. Masciopinto
- 10.40 **Discussion**

## Oral Session 8 (MAROTTA ROOM)

### BLUE AND GREEN SPACE

Chairs Lora Fleming and Camilla Puccinelli

- 09.10 **The effects of weather and daylight on current and future nature-based recreational physical activity in England**  
L. Elliot
- 09.45 **Healthy Parks Healthy People. Using Europe's network of parks and protected areas as 'Natural Health Centres'**  
C. Castell
- 09.55 **Labyrinth, a way to integration**  
S. Panigutti
- 10.05 **BlueHealth community level interventions: The case study of Appia Antica Park**  
C. Puccinelli
- 10.15 **The Environmental Cultural Center of the Italian Naval League (Lega Navale Italiana) for the propagation of an environmental culture**  
V. Manfrini
- 10.25 **Discussion**
  
- 11.00 **Coffee Break**

## Oral Session 9 (POCCHIARI ROOM)

### COMMUNICABLE DISEASE AND CLIMATE CHANGE

Chairs Giovanni Rezza and Luca Busani

- 11.25 **Climate and other drivers of infectious disease threat events in Europe.**  
J. Semenza
- 12.00 **Risks maps of *Aedes albopictus* in Spain**  
D. Gómez-Barroso
- 12.15 **Quantifying the spatiotemporal spread of mosquito-borne infections in non-endemic areas**  
G. Guzzetta
- 12.30 **The second autochthonous Chikungunya outbreak in Italy: lessons learned and future challenges**

12.45 F. Riccardo  
**Discussion**

## Oral Session 10 (BOVET ROOM) HEALTH AND CLIMATE CHANGE. JOINT ACTION FOR SUSTAINABLE DEVELOPMENT

Chairs **Bettina Menne and Rachel Stancliffe**

- 11.25 **Health, climate change and sustainable development**  
B. Menne
- 11.45 **Transforming healthcare for a sustainable future**  
R. Stancliffe
- 12.05 **A ten year journey in England's NHS: practical steps towards a sustainable health and care system.**  
D. Pencheon
- 12.15 **The WHO UNCCC first Italian Country Profile on Climate and Health**  
L. Lucentini
- 12.25 **Improving agriculture sustainability through farm's management optimization; the Water-Energy-Food nexus to reduce inputs requirement in intensive cropping systems**  
S. Fabiani
- 12.35 **Water reuse in the context of climate changes and sustainable development. The European Project FRAME**  
M. Carere
- 12.45 **Discussion**

## Oral Session 11 (MAROTTA ROOM) EVERYTHING ELSE ON HEALTH AND CLIMATE CHANGE

Chairs **Emanuela Testai and Enzo Funari**

- 11.25 **Global warming effects on skeletal anomalies in fish.**  
C. Boglione
- 11.35 **Drought effects on freshwater macroinvertebrate community in the Mediterranean: ecological network analysis as an innovative tool for bioassessment.**  
G. Pace
- 11.45 **Modelling *Aedes albopictus* dynamics and related arbovirus outbreaks risk in central Italy**  
M. Manica
- 11.55 **A modelling analysis of West Nile virus transmission and human infection risk in Veneto (Italy).**  
G. Marini
- 12.05 **Spatial correlations of climatic and eco-environmental factors with incidence of human leishmaniasis in Spain**  
J. Lopez Moreno
- 12.15 **The Mediterranean basin like a pathogen's soup. a concern for cetacean species inhabiting the Pelagos Sanctuary and the zoonotic significance of some pathogens involved**  
C. Grattarola
- 12.25 **Risk evaluation of malaria reemerging in non-endemic areas with a temperate climate**  
C. Severini
- 12.35 **Discussion**
- 13.00 **Lunch Break**

## Oral Session 12 (POCCHIARI ROOM) AIR QUALITY, LOW CARBON POLICY HEALTH AND CLIMATIC CHANGE

Chairs **Maria P. Neira and Andrew Haines**

- 14.10 **Addressing Climate Change, a major opportunity for human health**  
MP Neira
- 14.40 **Health in the low-carbon economy**  
A. Haines
- 15.10 **Short-term effects of temperature on mortality and hospital admissions in Italy during 2000-2010. Results from the beep project**  
F. de Donato
- 15.20 **Low carbon footprint technologies to recover and reuse safe resources within the urban water cycle**  
F. Fatone
- 15.30 **The interactive effect of temperature and air pollution on mortality: a time series analysis in 25 cities**  
M. Scortichini
- 15.40 **Respiratory infectious mortality rates in Italy: the climatic indexes as long term prediction instruments**  
S. Bonomo
- 15.50 **Discussion**

## Oral Session 13 (BOVET ROOM)

### ECOSYSTEM AND HEALTH

Chairs **Laura Mancini and Damia Barceló Cullerès**

- 14.10 **The Eu Globaqua project on multiple stressors in rivers under water scarcity and global change. A reconnaissance study in selected European river basins and the water-energy-food nexus**  
D. Barceló Cullerès
- 14.40 **Addressing key challenges of water scarcity affecting warm Mediterranean reservoirs**  
MG Antoniou
- 14.55 **An Italian network for the detection of eco-genotoxicological effects in a river basin characterized by flooding and water scarcity**  
M. Carere
- 15.10 **“Summer Rain” – increased risk of gastrointestinal and respiratory infections after urban pluvial flooding in the Netherlands**  
A. Mulder
- 15.25 **Evaluation of the ecotoxicological impact of municipal wastewaters on wildlife**  
F. Spina
- 15.40 **Soil sealing and urban growth in Italy**  
M. Munafò
- 15.55 **Discussion**

## Poster Session December 4 (MAROTTA ROOM)

- 14.00 **Poster corner**
- 16.00 **Coffee Break**

## Oral Session 14 (POCCHIARI ROOM)

### GLOBAL HEALTH AND CLIMATE CHANGE

Chairs **Stefano Vella and Maurizio Marceca**

- 16.35 **Impact of climate change on chronic non-communicable diseases.**  
S. Vella
- 17.05 **“One health: the MediLabSecure effort towards integrated surveillance of Arbovirus infections in the context of environmental changes.**  
S. Declich
- 17.15 **Perception of change, loss of social capital and mental health in migrants from African countries divided by index of vulnerability to climate change.**  
P. Michielin
- 17.25 **Effect of global changes in gene polymorphisms on health protection at workplace**  
P. Chiarella
- 17.35 **Climate change, migration and consequences for host Countries**  
O. Punzo
- 17.45 **Discussion**

## Oral Session 15 (BOVET ROOM)

### TOOLS AND NEEDS

Chairs **Denis Sarigiannis and Mark Scrimshaw**

- 16.35 **The climate exposome. a new tool for addressing the health impacts of climate change**  
D. Sarigiannis
- 17.05 **Heavy Metals Detection using Screen printed Carbon electrodes**  
A. Merkoçi
- 17.20 **How can smart technologies address measures for human health protection when extreme events happen? The Challenges of INTCATCH project-**  
S. Marcheggiani
- 17.35 **Summer work. Prevention of the effects of heat waves (odc) on the health of workers**  
S. Macchiaroli
- 17.50 **Discussion**

## Oral Session 16 (MAROTTA ROOM)

### FROM THE ENVIRONMENT FRIENDLY GREEN TO THE HEALTHY HOSPITAL

Chairs **Giovanni Capobianco and Luigi Bertinato**

- 16.35 **Hospitals and healthcare system at disaster situations; characteristics and future suggestions**  
N. Bitterman

- 17.05 **Communicating the Risk of Adverse Health Outcomes Related to a Changing Climate to Policy Makers and the Public in Maryland, USA**  
S. Soneja
- 17.15 **Sustainable and Climate Change Resilient Health Facilities in Europe: The Challenge**  
D. Pedrini
- 17.25 **Reduction of inflammatory parameters in asthmatic children in an alpine hospital free from allergens and pollutant.**  
E. Baldo
- 17.35 **The short-term effect of pollen on Emergency Room visits in Rome.**  
M. De Sario
- 17.45 **Discussion**

## Wednesday, December 5

### Oral Session 17 (POCCHIARI ROOM)

#### FOOD SECURITY - FOOD SAFETY AND CLIMATE CHANGE

Chairs Tobin Robinson and Renata Clarke

- 09.15 **Climate change and emerging risks for food safety**  
A. Maggiore
- 09.45 **Climate changes and “one health”. Examples from the safety assessment of primary production.**  
A. Mantovani
- 09.55 **Presence of harmful Dinophysis species and okadaic acid toxicity in shellfish bred in Sardinia (Italy)**  
A. Mudadu
- 10.10 **Identifying and preventing climate change threats adversely affecting seafood production, nutritional value and safety.**  
F. Cubadda
- 10.25 **Cyanotoxins and climate change. Any consequences for food safety?**  
S. Vichi
- 10.40 **Are ciguatoxin-like producers Gambierdiscus spp. and Fukuyoa spp. spreading in the Mediterranean?**  
J. Diogèn
- 10.55 **Discussion**

### Oral Session 18 (BOVET ROOM)

#### STAKEHOLDERS Round Table

Chairs Maria Rosaria Iardino and Aldo Di Benedetto

- 09.00 B. Rossi, A. Miozzo, A. Citterio, D. Biagioni, G. Bortone

### Poster Session December 5 (MAROTTA ROOM)

Chairs Stefania Marcheggiani, Maura Manganelli, Mario Carere

- 09.00 Poster presentations
- 11.00 **Coffee Break**

### PLENARY Session (POCCHIARI ROOM)

Chair Luca Rosi

- 11.35 **Thinking outside the box. Translating science into innovation for policy, advocacy, and business**  
T. Bouley
- 12.00 **Communication of environmental risks.**  
A. Contri
- 12.30 **Migration and Climatic Change**  
I. Annesi-Maesano
- 13.00 **Lunch Break**

### FINAL PLENARY Session (POCCHIARI ROOM)

Chair Walter Ricciardi

- 14.00 **Policy and Science**  
A. Bergman
- 14.30 **Evidence and economic interests**  
G. Negro (CNH Industrial)
- 15:00 **Coffee Break**
- 15.30 **Closing remarks+Awards+Rome Declaration**  
W. Ricciardi/ E. Dogliotti/A. Haines/Philip J. Landrigan/ Maria Gracheva (Invited) /Maria P. Neira





# INTERNATIONAL SCIENTIFIC COMMITTEE

**Walter Ricciardi** Istituto Superiore di Sanità, Rome, Italy  
**Eugenia Dogliotti** Istituto Superiore di Sanità, Rome Italy  
**Antonio Navarra** Euro-Mediterranean Center on Climate Change, Bologna, Italy  
**Denis Sarigiannis** Aristotle University of Thessaloniki, Thessaloniki, Greece  
**Lora Fleming** University of Exeter Medical School, Truro, United Kingdom  
**Andrew P. Haines** London School of Hygiene and Tropical Medicine, London, United Kingdom  
**Timothy Bouley** Former World Bank, Washington, USA  
**Eric Chivian** Former Harvard University, USA.  
**Philip J. Landrigan** Boston College, Boston, USA  
**Mauricio H. Avila** Former National Institute of Public Health, Mexico City, Mexico



Walter Ricciardi (IT)



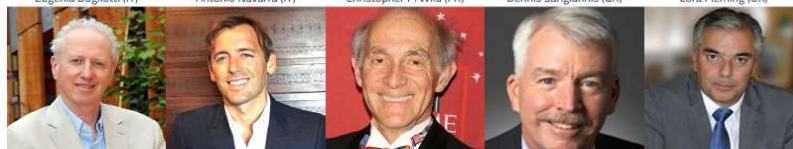
Eugenia Dogliotti (IT)

Antonio Navarra (IT)

Christopher P. Wild (FR)

Dennis Sarigiannis (GR)

Lora Fleming (UK)



Andrew P. Haines (UK)

Timothy Bouley (USA)

Eric Chivian (USA)

Philip J. Landrigan (USA)

Mauricio Hernández-Avila  
(MEX)

## Observers

**Maria P. Neira** World Health Organisation, Geneva, Switzerland  
**Bettina Menne** World Health Organisation, Copenhagen, Denmark

## LOCAL SCIENTIFIC COMMITTEE

**Laura Mancini** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Umberto Agrimi** Department of Food Safety, Nutrition and Veterinary Public Health Istituto Superiore di Sanità, Rome Italy  
**Enrico Alleva** *former* Behavioural Science and Mental Health Centre, Istituto Superiore di Sanità, Rome, Italy  
**Luca Busani** Department of Infectious Diseases, Istituto Superiore di Sanità, Rome, Italy  
**Mario Carere** Department of Environment and Health Istituto Superiore di Sanità, Rome, Italy  
**Paola De Castro** Scientific Knowledge and Communication Istituto Superiore di Sanità, Rome, Italy  
**Simona Gaudi** Department of Environment and Health, Istituto Superiore di Sanità, Rome, Italy  
**Stefania Marcheggiani** Department of Environment and Health Istituto Superiore di Sanità, Rome, Italy  
**Paola Michelozzi** Department of Epidemiology Lazio Regional Health Service, Rome, Italy  
**Giovanni Rezza** Department of Infectious Diseases, Istituto Superiore di Sanità, Rome, Italy  
**Camilla Puccinelli** Department of Environment and Health Istituto Superiore di Sanità, Rome, Italy  
**Emanuela Testai** Department of Environment and Health, Istituto Superiore di Sanità, Rome, Italy  
**Stefano Vella** National Center for Global Health, Istituto Superiore di Sanità, Rome, Italy

## LOCAL ORGANIZING COMMITTEE

**Fabiola Giuliano** Office of the President Istituto Superiore di Sanità, Rome, Italy  
**Tonino Sofia** Office of the President Istituto Superiore di Sanità, Rome, Italy  
**Maria Mosetti** Department of Environment and Health - Istituto Superiore di Sanità, Rome, Italy  
**Alessia Borzi** Department of Environment and Health - Istituto Superiore di Sanità, Rome, Italy  
**Stefania Bocchi** External Relations Service Istituto Superiore di Sanità, Rome, Italy  
**Silvia Stacchini** External Relations Service Istituto Superiore di Sanità, Rome, Italy

## INSTITUTIONAL REPRESENTATIVES AND SPECIAL GUESTS

**Giulia Grillo** Minister of Health- invited, Rome Italy  
**Sergio Costa** Minister of Environment, Rome Italy  
**Stefano La Porta** Istituto Superiore per la Protezione e Ricerca Ambientale, Rome, Italy (invited)  
**Salvatore Parliato** Consiglio per la Ricerca e la sperimentazione in Agricoltura – Rome, Italy (invited),  
**Massimo Inguscio** Consiglio Nazionale delle Ricerche Rome, Italy (invited),  
**Gaetano Manfredi** Conferenza dei Rettori delle Università italiane, Rome Italy (invited)  
**Monique Eloit** World Organization for Animal Health, Paris, France  
**Tedros Adhanom Ghebreyesus** World Health Organization, Geneva, Switzerland  
**Alexander Jones** Food and Agriculture Organization of the United Nations, Rome Italy  
**Christopher P. Wild** International Agency for Research on Cancer, Lyon, France

## INVITED SPEAKERS AND CHAIR PERSON

**Umberto Agrimi** Department of Food Safety, Nutrition and Veterinary public health Istituto Superiore di Sanità, Rome Italy  
**Diana B. Allen** Healthy Parks Healthy People-National Park Service-Office of Public Health, Washington DC, USA  
**Enrico Alleva** Centre for Behavioural Science and Mental Health Istituto Superiore di Sanità, Rome, Italy  
**Isabella Annesi -Maesano** Epidemiology of Allergic and Respiratory Diseases Department, Institute Pierre Louis of Epidemiology and Public Health, Medical School St Antoine, Paris, France  
**Damia Barcelo** Institute of Environmental Assessment and Water Research, Barcelona, Spain  
**Ake Bergman** Environmental Chemistry, Stockholm University, Stockholm, Sweden  
**Luigi Bertinotti** Clinical Governance Unit, Istituto Superiore di Sanità, Rome Italy  
**Massimo Biondi** Neurosciences and Mental Health Department, Sapienza University of Rome, Italy  
**Noemi Bitterman** Industrial Design, Technion, Israel Institute of Technology, Haifa, Israel  
**Timothy Bouley** *former* World Bank, Washington DC, USA  
**Luca Busani** Department of Infectious Diseases, Istituto Superiore di Sanità, Rome Italy  
**Giovanni Capobianco** Sant Eugenio Hospital, Rome, Italy  
**Mario Carere** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Eric Chivian** Director of the Center for Health and the Global Environment Harvard Medical School, Boston, USA.  
**Maurilio Cipparone** DNA Network, Consorzio Universitario CURSA, Rome, Italy  
**Renata Clarke** Food Safety and Quality Officer, Food and Agriculture Organization of the United Nations, Rome, Italy  
**Alberto Contri** Pubblicità Progresso Milan, Italy  
**Aldo Di Benedetto** General Directorate for Health Prevention, Ministry of Health, Rome Italy  
**Eugenia Dogliotti** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Lewis Elliot** European Centre for Environment and Human Health, University of Exeter Medical School, Truro, UK  
**Lora Fleming** European Centre for Environment and Human Health, University of Exeter Medical School, Truro, UK  
**Howard Frumkin** Head, Our Planet, Our Health, Wellcome Trust. London, UK  
**Enzo Funari** *former* Department of Environment and Health, Istituto Superiore di Sanità, Rome, Italy  
**Andrew P. Haines** London School of Hygiene and Tropical Medicine, London, UK  
**Rosaria Iardino** Fondazione the Bridge, Milan, Italy  
**Vladimir Kendrovski** European Centre for Environment and Health, World Health Organization (WHO), Bonn, Germany  
**Liliana La Sala** Prevention of Addiction, Doping and Mental Health Office, Ministry of Health, Rome Italy  
**Philip J. Landrigan** Schiller Institute for Integrated Science and Society, Boston College, Boston, USA.  
**Andrea Lenzi** Health City Institute, Rome, Italy  
**Luca Lucentini** Department of Environment and Health, Istituto Superiore di Sanità, Rome, Italy  
**Angelo Maggiore** European Food Safety Authority, Parma, Italy  
**Laura Mancini** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Maura Manganelli** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Romano Marabelli** World Organization for Animal Health, Paris, France  
**Maurizio Marceca** Public Health and Infectious Diseases Department, Sapienza University of Rome, Italy  
**Stefania Marcheggiani** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Rory Moses McKeown** World Health Organization, Geneva, Switzerland  
**Bettina Menne** Health and Development WHO Regional Office for Europe, Copenhagen, Denmark  
**Paola Michelozzi** Epidemiology Department of the Regional Health Service - Lazio, Rome, Italy  
**Maria R. Milana** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Jelena Milos** Climate Action DG, European Commission, Brussels, Belgium  
**Kris Murray** Faculty of Medicine Grantham Institute - Climate Change and the Environment Imperial College, London, UK  
**Antonio Navarra** Euro-Mediterranean Center on Climate Change, Bologna, Italy  
**Maria P. Neira** Public Health and the Environment Department, World Health Organisation, Geneva, Switzerland  
**Giorgina Negro** CNH Industrial, Torino, Italy

**Hans Orru** Department of Public Health-University of Tartu, Estonia  
**Antonio Preti** Center for Consultation-Liaison Psychiatry and Psychosomatics University Hospital, University of Cagliari

**Camilla Puccinelli** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Tamer S. Rabie**, World Bank, Washington, USA  
**Giovanni Rezza** Department of Infectious Diseases, Istituto Superiore di Sanità, Rome Italy  
**Tobin Robinson** Scientific Committee and Emerging Risks Unit, European Food Safety Authority, Parma, Italy  
**Luca Rosi** International Affairs Office, Istituto Superiore di Sanità, Rome Italy  
**Denis Sarigiannis** Aristotle University of Thessaloniki, Thessaloniki, Greece  
**Oliver Schmolli** European Centre for Environment and Health World Health Organization, Bonn, Germany  
**Mark Scrimshaw** Institute of Environment, Health and Societies, Brunel University London  
**Jan Semenza** European Centre for Disease Prevention and Control, Solna, Sweden  
**Rachel Stancliffe** The Centre for Sustainable Healthcare, Oxford, UK  
**Emanuela Testai** Department of Environment and Health, Istituto Superiore di Sanità, Rome Italy  
**Stefano Vella** National Center for Global Health, Istituto Superiore di Sanità, Rome Italy  
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