

# *Supplementary Materials for*

## Health and Climate Change: science calls for global action

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*This PDF file includes:*

- 1. Selected topics for symposium sessions and selected oral presentations. Discussion within each session contributed to produce a Key Message/Measure (KEY MM) used for the first draft of the Rome International Charter on Health and Climate Change endorsed by all participants in the Symposium.**
- 2. Authors of contributions presented in the different scientific sessions and leading to the first draft of the Rome International Charter on Health and Climate Change**
- 3. The eight posters shortlisted for awards.**

**Selected topics for symposium sessions and selected oral presentations. Discussion within each session contributed to produce a Key Message/Measure (KEY MM) used for the first draft of the Rome International Charter on Health and Climate Change endorsed by all participants in the Symposium.**

Topic sessions			
<p>ENVIRONMENT AND HEALTH <i>Chairs Eugenia Dogliotti and Christopher P. Wild</i></p>	<p>Interplay of climate change and air pollution on health H. Orru . Children environmental health and climate change I. Iavarone. Methods for estimating ingestion exposure to common contaminants: linking land contamination, climate change and ingestion behaviours R. Hams . Does climate change increase toxic cyanobacterial human health risk? M. Manganelli . Contrasting-climate skin temperature gradient effects K. Makris</p>	<p>WATER, SANITATION AND CLIMATE CHANGE <i>Chairs Luca Lucentini and Oliver Schmoll</i></p>	<p>Water safety planning for climate resilience R. Moses McKeown . The Protocol on Water and Health tools to increase resilience to climate change and water-related disasters. N. Nikiforova . Water and sanitation in extreme weather events. Environment and health risks and vulnerabilities. L. Sinisi . Assessment of climate change impacts on groundwaters of semiarid regions. Health-risk for floods. C. Masciopinto</p>
<p>CLIMATE CHANGE AND ZOOSES <i>Chairs Umberto Agrimi and Romano Marabelli</i></p>	<p>Climate change impacts on zoonotic diseases K. Murray .Systematic and global effects of land use on zoonotic host communities R. Gibb . Early warning for tick-borne encephalitis hazard. climatic variables and host density successfully explain co-feeding tick transmission in northern Italy A. Rizzoli . West Nile virus in north-eastern Italy: preliminary results of surveillance activities in 2018 P. Mulatti . Mediterranean spotted fever spatio-temporal distribution, and its association with meteorological factors in Spain A.R. Vidal</p>	<p>COMMUNICABLE DISEASE AND CLIMATE CHANGE <i>Chairs Giovanni Rezza and Luca Busani</i></p>	<p>Climate and other drivers of infectious disease threat events in Europe. J. Semenza . Risks maps of <i>Aedes albopictus</i> in Spain D. Gómez-Barroso . Quantifying the spatiotemporal spread of mosquito-borne infections in non-endemic areas G. Guzzetta . The second autochthonous Chikungunya outbreak in Italy: lessons learned and future challenges F. Riccardo .</p>
<p>CLIMATE CHANGES SCENARIO <i>Chairs Antonio Navarra and Vladimir Kendrovski</i></p>	<p>What may happen when tropical microalgae spread in temperate waters? The case study of <i>Ostreopsis</i> spp. From health impact to chemistry and viceversa C. Dell'Aversano. Impact of mycotoxins on health in climate change scenario P. Battilani . Future health impacts of temperatures and heatwaves considering high resolution climate change scenarios in Italy F. de'Donato . Climate change and river ecosystems: insight from long-term environmental research. S. Larsen</p>	<p>HEALTH AND CLIMATE CHANGE. JOINT ACTION FOR SUSTAINABLE DEVELOPMENT <i>Chairs Bettina Menne and Rachel Stancliffe</i></p>	<p>Health, climate change and sustainable development B. Menne . Transforming healthcare for a sustainable future R. Stancliffe . A ten year journey in England's NHS: practical steps towards a sustainable health and care system. D. Pencheon . The WHO UNCCC first Italian Country Profile on Climate and Health L. Lucentini . Improving agriculture sustainability through farm's management optimization; the Water-EnergyFood nexus to reduce inputs requirement in intensive cropping systems S. Fabiani . Water reuse in the context of climate changes and sustainable development. The European Project FRAME M. Carere .</p>
<p>CLIMATE CHANGE AND CHILDREN HEALTH <i>Chairs Maurilio Cipparone and Paola Michelozzi</i></p>	<p>Parks, gateways to healthy living for people and the planet D. Allen . Climate Change, environmental exposures, urban green and children health P. Michelozzi . Greenness and air pollution exposure on children health. A cross sectional study in southern Italy S. La Grutta . 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 . The restorative effects of outdoor environmental education G. Carrus. Nature: an important ally for children's health A. Tavone</p>	<p>AIR QUALITY, LOW CARBON POLICY HEALTH AND CLIMATIC CHANGE <i>Chairs Elena De Felip and Andrew Haines</i></p>	<p>Addressing Climate Change, a major opportunity for human health MP Neira . Health in the low-carbon economy A. Haines . Short-term effects of temperature on mortality and hospital admissions in Italy during 2000-2010. Results from the beep project F. de Donato. Low carbon footprint technologies to recover and reuse safe resources within the urban water cycle F. Fatone . The interactive effect of temperature and air pollution on mortality: a time series analysis in 25 cities M. Scortichini Respiratory infectious mortality rates in Italy: the climatic indexes as long term prediction instruments S. Bonomo</p>

HEALTHIER CITIES  
*Chairs Andrea Lenzi  
and Maria Rosaria  
Milana*

Latest developments with EU Climate Change Adaptation Policy and links with health J. Milos. Social interventions to limit the mortality increase during the summer 2017 heat waves in Rome – Italy G. Liotta. Reducing urban heat waves risk: heat health 6 adaptation plan in Italy P. Michelozzi. Climate and health in large urban areas of Italy: following the change through a dedicated meteorological network C. Ferrari

MENTAL HEALTH AND  
CLIMATE CHANGE  
*Chairs Enrico Alleva  
and Massimo Biondi*

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

BLUE AND GREEN  
SPACE  
*Chairs Lora Fleming  
and Camilla Puccinelli*

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

FOOD SECURITY -  
FOOD SAFETY AND  
CLIMATE CHANGE  
*Chairs Tobin Robinson  
and Renata Clarke*

Climate change and emerging risks for food safety A. Maggiore . Climate changes and "one health". Examples from the safety assessment of primary production. A. Mantovani . Presence of harmful Dinophysis species and okadaic acid toxicity in shellfish bred in Sardinia (Italy) A. Mudadu . Identifying and preventing climate change threats adversely affecting seafood production, nutritional value and safety. F. Cubadda . Cyanotoxins and climate change. Any consequences for food safety? E. Testai . Are ciguatera-like producers Gambierdiscus spp. and Fukuyoa spp. spreading in the Mediterranean? J. Diogène

ECOSYSTEM AND  
HEALTH  
*Chairs Laura Mancini  
and Damia Barceló  
Cullerès*

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. Addressing key challenges of water scarcity affecting warm Mediterranean reservoirs MG Antoniou. An Italian network for the detection of ecogenotoxicological effects in a river basin characterized by flooding and water scarcity M. Carere. "Summer Rain" – increased risk of gastrointestinal and respiratory infections after urban pluvial flooding in the Netherlands A. Mulder. Evaluation of the ecotoxicological impact of municipal wastewaters on wildlife F. Spina . Soil sealing and urban growth in Italy M. Munafò .

GLOBAL HEALTH AND  
CLIMATE CHANGE  
*Chairs Stefano Vella  
and Maurizio Marceca*

Impact of climate change on chronic non-communicable diseases. S. Vella . "One health: the MediLabSecure effort towards integrated surveillance of Arbovirus infections in the context of environmental changes. S. Declich . 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 . Effect of global changes in gene polymorphisms on health protection at workplace P. Chiarella . Climate change, migration and consequences for host Countries O. Punzo .

TOOLS AND NEEDS  
*Chairs Denis  
Sarigiannis and Mark  
Scrimshaw*

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

FROM THE  
ENVIRONMENT  
FRIENDLY GREEN  
TO THE HEALTHY  
HOSPITAL  
*Chairs Giovanni  
Capobianco and Luigi  
Bertinato*

Hospitals and healthcare system at disaster situations; characteristics and future suggestions N. Bitterman . Communicating the Risk of Adverse Health Outcomes Related to a Changing Climate to Policy Makers and the Public in Maryland, USA S. Soneja . Sustainable and Climate Change Resilient Health Facilities in Europe: The Challenge D. Pedrini . Reduction of inflammatory parameters in asthmatic children in an alpine hospital free from allergens and pollutant. E. Baldo . The short-term effect of pollen on Emergency Room visits in Rome. M. De Sario .

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The eight posters shortlisted for awards (in bold the 3 winners)

Authors	Selected posters
Cerroni <i>et al.</i>	Climate change and health country profile on water and sanitation in Italy
Di Carmine <i>et al.</i>	Mindfulness, perceived restorativeness and reported restoration at the Botanical garden among adults and adolescents: which pathways to restoration?
Kollas <i>et al.</i>	<b>Salmonella in Pig under a changing climate</b>
La Rosa <i>et al.</i>	Waterborne norovirus epidemics in Italy and the potential impact of climate change scenarios – A review
Mammarella <i>et al.</i>	Resilience in urban areas and local solutions
Piervitali <i>et al.</i>	Heat waves events in Italy from 1961 to 2017: analysis of frequency, intensity and severity.
Rossato <i>et al.</i>	<b>Development of a portable genomic laboratory for water metagenomic analysis</b>
Vendetti <i>et al.</i>	<b>Water quality under Water framework directive and climate change</b>