



**M8Alliance**  
Academic Health Centers, Universities and National Academies



WORLD  
HEALTH  
SUMMIT



**SAPIENZA**  
UNIVERSITÀ DI ROMA

# **WORLD HEALTH SUMMIT REGIONAL MEETING 2022**

## **SCIENCE – INNOVATION – POLICIES**

### **ITALY, ROME & DIGITAL**

**SAPIENZA UNIVERSITY OF ROME**  
**JUNE 15-17, 2022**

**WORLD HEALTH SUMMIT  
REGIONAL MEETING  
ITALY, ROME**  
**JUNE 15-17, 2022**



WORLD  
HEALTH  
SUMMIT

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## WELCOME MESSAGE



Dear Colleagues, Dear Friends,

*Welcome to the 2022 World Health Summit Regional Meeting hosted in Rome by Sapienza University!*

*As you know, the World Health Summit Regional Meeting takes place every year in different parts of the world in addition to the annual World Health Summit in Berlin and brings regional topics to the forefront.*

*Each Regional Meeting is hosted by the M8 Alliance member holding the World Health Summit International Presidency, which rotates every year.*

*The M8 Alliance of Academic Health Centers, Universities and National Academies is a growing network and currently consists of 30 members in 20 countries, including the InterAcademy Partnership (IAP), which represents the national academies of medicine and science in 130 countries.*

*Sapienza University has been an M8 Alliance member since 2015 and is very honored and proud to organize for the first time the Summit in Italy.*

*The COVID-19 pandemic has shown how we are interconnected as a global community, so in this summit more than 100 speakers will debate the improvement of global health and the development of scientific solutions to health challenges in more than 20 sessions, discussing these important topics:*

- *Vaccine Development and Policies: Challenges and Strategies*
- *Healthcare Systems*
- *Metabolic Syndrome and Chronic Diseases*
- *New Technologies and Personalized Therapies*
- *New Frontiers in Healthcare Promotion*

*So, we are sure that during the Summit scientific interactions and networking possibilities can create opportunities for future health problems solutions and research collaborations; we want to be proactive in investing in scientific research and education, supporting technological innovations and promoting the wellbeing of humanity.*

## WELCOME MESSAGE



*On behalf of the WHS Regional Meeting Organizing Committee, I welcome you all to Rome:*

*I hope you will have a remarkable scientific experience during the Summit and I am sure that you can also taste the magical atmosphere of Rome, the eternal City.*

**Eugenio Gaudio**

*President of the Organizing Committee  
World Health Summit Regional Meeting 2022*

## ABOUT THE WORLD HEALTH SUMMIT REGIONAL MEETING



### SCIENCE - INNOVATION - POLICIES

We announce that the World Health Summit Regional Meeting 2022, Italy, Rome will take place in Sapienza University of Rome on June 15-17, 2022.

Each year, the Regional Meeting integrates the program of the prestigious World Health Summit which takes place at the end of October in Berlin. The Regional Meeting is held in late spring, and is hosted by a member of the M8 Alliance of Academic Health Centres, Universities and National Academies, that holds the World Health Summit International Presidency for that year. The past eight meetings were in Singapore (2013), Sao Paulo-Brazil (2014), Kyoto-Japan (2015), Geneva-Switzerland (2016), Montreal-Canada (2017) Coimbra-Portugal (2018)), Kish Island-Iran (2019), Kampala-Uganda (2021).

The Program is structured in more than 20 expert sessions where 2 chairpersons and 4/5 experts through their contributions will offer the starting point for a debate, to which ample space will be given. The sessions and the structure of the entire event are intended to offer points for discussion and debate that, in addition to scientists, involve stakeholders such as legislators / politicians, innovators,

pharmaceutical industries, NGOs.

Plenary sessions are also planned which, in addition to the Opening Ceremony and the Closing Ceremony, include four Keynote Lectures and which will take place in the prestigious Aula Magna at Sapienza Rectorate. The Regional Meeting 2022, Italy, Rome through an intense scientific program and an ambitious work schedule, completely fits the wake of the objectives of the World Health Summit, which are the improvement of global health and the development of scientific solutions to health challenges.

Sapienza University of Rome will be the appropriate venue for scientific discussion and sharing of knowledge and technological advances in the field of human health. The intent is to point the spotlights for two and a half days on global and public health, an even more meaningful debate after the long months of the COVID-19 pandemic.

For 2022 the International Presidency of the World Health Summit is assigned to Sapienza University of Rome which is the only Italian institution member of the M8 Alliance.

## ABOUT THE M8 ALLIANCE



The M8 Alliance of Academic Health Centers, Universities and National Academies is the academic foundation of the World Health Summit.

It is a growing network and currently consists of 30 members in 20 countries, including the InterAcademy Partnership, which represents the national academies of medicine and science in 130 countries.

The M8 Alliance was initiated by Charité Universitätsmedizin – Berlin in 2009 on the occasion of the first World Health Summit.

The goal of the M8 Alliance: Agenda-setting for global health improvement and development of science based solutions to global health challenges.

The International Presidency of the World Health Summit rotates annually among members of the M8 Alliance.

As a result of each World Health Summit the M8 Alliance issues the M8 Alliance Declaration: recommendations for action to international policymakers.

The M8 Alliance organizes annual Regional Meetings in the member countries, regular Expert Meetings, and Summer Schools.

RECTORATE

Aula Magna  
Registration  
Lunch and Coffee Point

FACULTY OF LAW

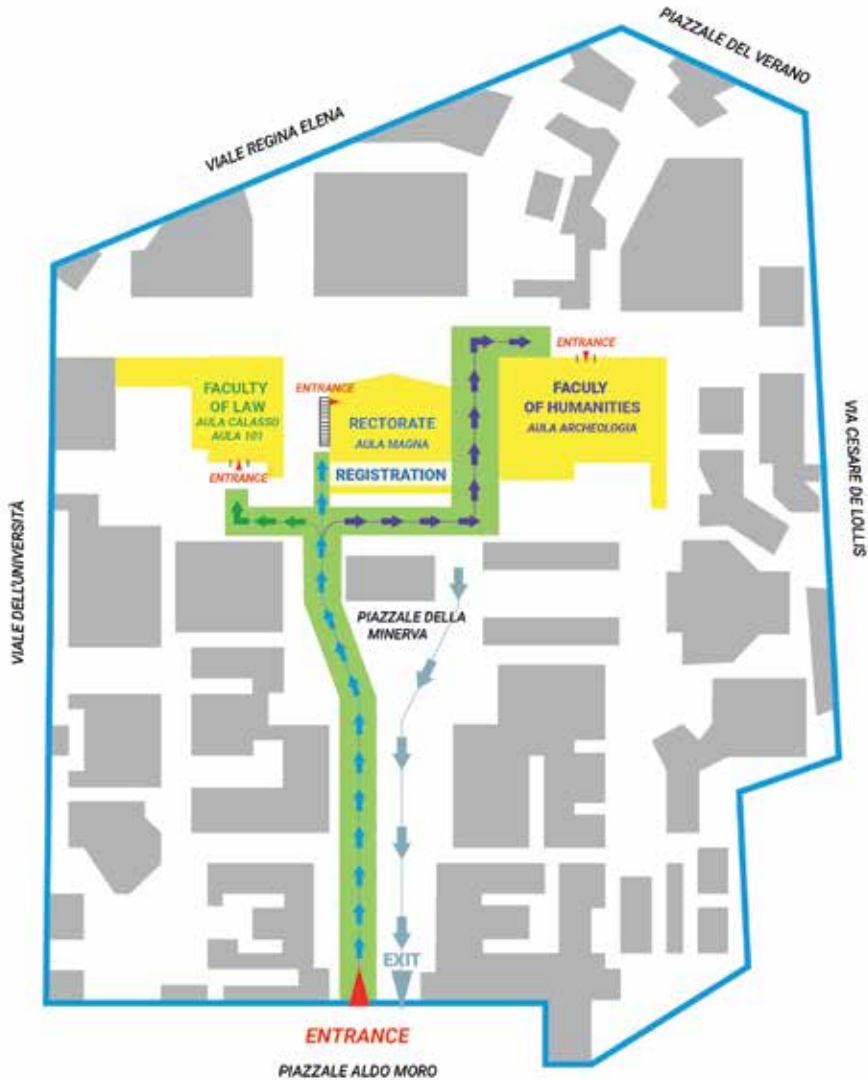
Aula Calasso  
Aula 101

FACULTY OF HUMANITIES

Aula Archeologia  
Lunch and Coffee Point

VENUE

Sapienza University of Rome  
Piazzale Aldo Moro, 5  
00185 Roma RM



WEDNESDAY, JUNE 15

	RECTORATE	FACULTY OF LAW AULA CALASSO	FACULTY OF LAW AULA 101	FACULTY OF HUMANITIES AULA ARCHEOLOGIA	DIGITAL TRACK	DIGITAL TRACK
2:00 PM – 4:30 PM	Sala Organi Collegiali M8 Assembly For M8 Members Only					
2:30 PM – 5:30 PM	Onsite Pre-Registration					
					3:00 PM – 4:30 PM	
					DT 1	DT 2
					New Frontiers in Healthcare Promotion A look into the future of the COVID-19 pandemic: the experience of Italy	New Frontiers in Healthcare Promotion Digitalization and secondary use of health data, in terms of impact on public health, on planning/sustainability of the Health Care System and on the proximity of care

THURSDAY, JUNE 16

	RECTORATE AULA MAGNA	FACULTY OF LAW AULA CALASSO	FACULTY OF LAW AULA 101	FACULTY OF HUMANITIES AULA ARCHEOLOGIA	DIGITAL TRACK
7:45 AM – 8:45 AM	Onsite Registration				
8:45 AM – 9:45 AM	Opening Ceremony				
9:45 AM – 10:30 AM	KEY 01  Vaccine Development and Policies: Challenges and Strategies  Building Societal Cooperation and Cohesion: The next Big Global Health Challenge				
10:30 AM – 11:00 AM	Coffee/tea break			Coffee/tea break	
11:00 AM – 12:30 PM	SESSION 1A  Vaccine Development and Policies: Challenges and Strategies  Vaccine Hesitancy	SESSION 1B  Healthcare Systems  Economic-Financial Sustainability of Healthcare Systems	SESSION 1C  Metabolic Syndrome and Chronic Diseases  Obesity and Diabetes: Present and Future Challenges in the Global Health Era	SESSION 1D  New Technologies and Personalized Therapies  The Information Technology, Artificial Intelligence and Digital Health Revolution	DT 3  New Frontiers in Healthcare Promotion  Climate Change and Impact on Respiratory Diseases: How to Balance Patient and Planet Health
12:30 PM – 1:30 PM	Lunch			Lunch	
1:30 PM – 3:00 PM	SESSION 2A  Vaccine Development and Policies: Challenges and Strategies  From Polio to Measles and Rubella: Eradication Strategies	SESSION 2B  Healthcare Systems  Healthcare Coverage in Developing Countries	SESSION 2C  Metabolic Syndrome and Chronic Diseases  Neurodegenerative Diseases: New Frontiers in Research and Healthcare	SESSION 2D  New Technologies and Personalized Therapies  Genome Editing Science and Ethics	DT 4  New Frontiers in Healthcare Promotion  The Critical Role of Nutrition in the Global Health Agenda
3:00 PM – 3:15 PM	Coffee/tea break			Coffee/tea break	
3:15 PM - 4:00 PM	KEY 02  Metabolic Syndrome and Chronic Diseases  Network Medicine: Novel Approaches to Human Disease and Therapeutics. Emphasis on Cardiometabolic Diseases	SESSION SPINE 20 (until 4:30 PM)  Spine 20, a G20 Advocacy Group for the Prevention and Care of the Global Burden of Spinal Diseases			
4:30 PM - 10:00 PM	Social Programme				

FRIDAY, JUNE 17

	RECTORATE AULA MAGNA	FACULTY OF LAW AULA CALASSO	FACULTY OF LAW AULA 101	FACULTY OF HUMANITIES AULA ARCHEOLOGIA	DIGITAL TRACK	DIGITAL TRACK
9:15 AM – 10:00 AM	KEY 03  New Technologies and Personalised Therapies  Personalized health: evidence, prediction, ethics, and reproducibility					
10:00 AM – 10:30 AM	Coffee/tea break			Coffee/tea break		
10:30 AM – 12:00 PM	SESSION 3A  Vaccine Development and Policies: Challenges and Strategies  Vaccinology in the Post-COVID-19 Era	SESSION 3B  Healthcare Systems  Biomedical Education	SESSION 3C  Metabolic Syndrome and Chronic Diseases  Cardiovascular Health Surveillance in the Post-COVID-19 Era	SESSION 3D  New technologies and personalized therapies  Robotic Applications in Medicine	DT 5  New Frontiers in Healthcare Promotion  Rising to the challenge of delivering precision medicines for chronic diseases	DT 6  New Frontiers in Healthcare Promotion  Fighting Antimicrobial Resistance: from Basic to Clinical Science
12:00 PM – 1:15 PM	Lunch			Lunch		
1:15 PM – 2:45 PM	SESSION 4A  Vaccine Development and Policies: Challenges and Strategies  Vaccines for Neglected Diseases Malaria Vaccine Development	SESSION 4B  Healthcare Systems  Implications of Climate Changes on Health	SESSION 4C  Metabolic Syndrome and Chronic Diseases  Lifestyles and Health Promotion	SESSION 4D  New technologies and personalized therapies  Precision Oncology	DT 7  New Frontiers in Healthcare Promotion  Young Physician Leaders	DT 8  New Frontiers in Healthcare Promotion  Global health in interreligious perspective
2:45 PM – 3:15 PM	Coffee/tea break			Coffee/tea break		
3:15 PM - 4:00 PM	KEY 04  Healthcare Systems  Closing the Gap in Global Health: Learning from Exemplary Health Systems					
4:00 PM – 4:45 PM	Closing Ceremony					

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PROGRAM

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**THURSDAY, JUNE 16**



**WORLD HEALTH SUMMIT  
REGIONAL MEETING  
ITALY, ROME**  
**JUNE 15-17, 2022**



**WORLD  
HEALTH  
SUMMIT**

**Inaugural Welcome**

"Overture" performed by MuSa  
Conducted by *Maestro Francesco Vizioli*

**Opening Remarks**

Eugenio Gaudio  
*WHS International President 2022*

**Welcome Addresses by the authorities:**

Ewa Kopacz (Video message)  
*Vice-President EU Parliament*

Antonella Polimeni  
*Rectress Sapienza University of Rome*

Roberto Speranza  
*Minister of Health*

Maria Cristina Messa  
*Minister of University and Research*

Axel Radlach Pries  
*President World Health Summit*

**Closing Remarks**

Luciano Saso  
*WHS International President 2022*

Musical "Intermezzo" performed by MuSa  
conducted by *Maestro Francesco Vizioli*

**OPENING CEREMONY  
8:45 AM - 9:45 AM**



Eugenio  
Gaudio

Ewa  
Kopacz



Antonella  
Polimeni

Roberto  
Speranza



Maria Cristina  
Messa

Axel  
Radlach Pries



Luciano  
Saso



KEYNOTE

VACCINE DEVELOPMENT AND POLICIES:  
CHALLENGES AND STRATEGIES

BUILDING SOCIETAL COOPERATION AND COHESION:  
THE NEXT BIG GLOBAL HEALTH CHALLENGE

The 2022 Risk Report of the World Economic Forum identified the erosion of social cohesion as the risk which worsened the most dramatically during the Covid Pandemic. They measured an almost 30% decline in societal cohesion – including fracturing of social networks, persistent public anger, distrust, divisiveness, lack of empathy, marginalization and political polarization – at a time when global health has depended more than ever on societies cooperating in the face of the worst pandemic in a century.

What went wrong? Why are scientists facing such high levels of verbal and physical attacks at the same time as we are witnessing some of the most fantastic scientific advances and managed to achieve over 10 billion people vaccinated around the world with vaccines that were not even available three years ago? One report identified 360 incidents against health staff across 56 countries in the first 6 months of 2020 – most were members of the public, patients and families.

While there have undoubtedly been a number of achievements and successes in the context of the pandemic, we cannot move ahead towards achieving other local and global health goals without recognizing the changed environment we are living in.

Prof Heidi Larson will map out some of the changed features in the public and its relationship with scientists and health professionals, scientific and health institutions, and government more broadly and propose strategies to consider for the way forward.



KEYNOTE SPEAKER

**Heidi Larson**  
Director, The Vaccine Confidence Project,  
Professor of Anthropology,  
Risk and Decision Science,  
London School of Hygiene  
and Tropical Medicine, UK  
and University of Antwerp,  
Belgium

SESSION 1A

RECTORATE  
AULA MAGNA

11:00 AM – 12:30 PM

SESSION A

VACCINE DEVELOPMENT AND POLICIES:  
CHALLENGES AND STRATEGIES

VACCINE HESITANCY

Vaccine hesitancy has been defined by the Strategic Advisory Group of Experts on Immunization (SAGE) as a “delay in acceptance or refusal of vaccines despite the availability of vaccine services” and it is a phenomenon so troubling that, already in the pre-pandemic era, it was listed by the World Health Organization as one of the ten main threats to global health. The COVID-19 pandemic has reinforced the call for implementing public health interventions aimed at addressing vaccine hesitancy. To guide public health policies through evidence-based strategies, monitoring the trend of the phenomenon and analyzing its determinants, which could be different in different countries, is a strategic action recognized at the international level. In this session speakers authoritative in the field will discuss vaccine hesitancy, building on the experience of the Vaccine Confidence Project to implement actions in response to misinformation about vaccines and analyzing some of the key characteristics of the pandemic era: introduction of novel vaccines, incentives and mandates, vaccination policies. Finally, modeling the impact of vaccination decisions on the spread of infections will be discussed.

CHAIRS

**Alessia Melegaro**  
Associate Professor in  
Demography and Social  
Statistics and Director of  
the Covid Crisis Lab,  
Bocconi University, Milan,  
Italy

**Paolo Villari**  
Full Professor  
of Hygiene, Sapienza  
University of Rome, Italy



Alessia  
Melegaro

Paolo  
Villari

PROGRAM, THU 16

SPEAKERS

**Alessia Melegaro**  
Associate Professor in  
Demography and Social  
Statistics and Director of  
the Covid Crisis Lab,  
Bocconi University, Milan,  
Italy

**Daniel Salmon**  
Professor and Director,  
Institute for Vaccine Safety,  
Johns Hopkins University  
School of Public Health,  
USA



Alessia  
Melegaro

Daniel  
Salmon

**Pauline Paterson**  
Assistant Professor,  
Department of Infectious  
Disease Epidemiology,  
London School of Hygiene  
and Tropical Medicine, UK

**Pierre Van Damme**  
Professor in Vaccinology,  
University of Antwerp,  
Belgium



Pauline  
Paterson

Pierre  
Van Damme

SESSION 1B

FACULTY OF LAW  
AULA CALASSO

11:00 AM – 12:30 PM

SESSION B

HEALTHCARE SYSTEMS

ECONOMIC-FINANCIAL SUSTAINABILITY  
OF HEALTHCARE SYSTEMS

The world’s population continues to grow, age, and urbanize. Inequities in the global burden of disease remain, and are worsening in some areas. Health spending has been increasing over the last decades. Current challenges faced by health systems – including the Covid-19 pandemic and the climate crisis - pose additional concerns regarding whether societies can sustain continuous health spending growth. Health workforces are stressed.

This context raises three major issues:

- To recognize the *“critical challenge...to increase the proportion of [health] finance...and govern it [more effectively]”* (WHO Council).
- The need for a holistic health approach (often mentioned but largely neglected), to meet the goal of health for all.
- The call for policymakers to prioritize health and invest in strong and well-governed health systems and strong social safety nets that leave no one behind.

These lessons are not new but have not been acted upon sufficiently. Now is an inflection point. Our mandate is to fuel debate, widen participation, collect and connect perspectives, globally, to identify solutions that we all need.

CHAIRS

**Ann Kurth**  
Dean and Linda Koch  
Lorimer Professor of  
Nursing, Yale University,  
USA

**Ferdinando Romano**  
Full Professor of Hygiene,  
Sapienza University  
of Rome, Italy



Ann  
Kurth



Ferdinando  
Romano

PROGRAM, THU 16

SPEAKERS

**Ali Jafarian**  
Professor, Tehran  
University of Medical  
Sciences, Iran



Ali  
Jafarian

**Gualtiero (Walter)  
Ricciardi**  
Full Professor of Hygiene  
and Public Health,  
Università Cattolica del  
Sacro Cuore, Rome, Italy



Gualtiero (Walter)  
Ricciardi

SESSION 1C

FACULTY OF LAW  
AULA 101

11:00 AM – 12:30 PM

SESSION C

METABOLIC SYNDROME AND CHRONIC DISEASES

OBESITY AND DIABETES: PRESENT AND FUTURE CHALLENGES IN THE GLOBAL HEALTH ERA

The twin epidemic of obesity and diabetes is a major crisis globally. Several epidemiologic studies reveal a parallel escalation of these two conditions. Around 592 million people will be living with the diabetes in another 25 years’ time and obesity currently affects more than 600 million people worldwide with high prevalence mainly in the middle-income countries. The profound changes in the quality, quantity and sources of food consumed, compounded by decreased physical activity underlie these increases. Obesity and diabetes are associated with several comorbidities, among which atherosclerotic cardiovascular diseases stand out. Moreover, obesity and diabetes are pathophysiologically linked to each other by defects of insulin action. The scope of this workshop is to present the most updated description of the burden of obesity and diabetes as well as of associated comorbidities worldwide and to describe the environmental factors that are at the root of their increase. Some proposed metabolic defects unifying diabetes and obesity to their vascular complications will be discussed and the current and future strategies to prevent and manage these two conditions will be highlighted.

CHAIRS

**Marcello Arca**  
Full Professor of Internal Medicine, Sapienza University of Rome, Italy

**Marja-Riitta Taskinen**  
Emerita Professor of Medicine and group leader, University of Helsinki, Finland

SPEAKERS

**Jan Borén**  
Professor and Director, Institute of Medicine, University of Gothenburg, Sweden

**Johanna Ralston**  
CEO, World Obesity Federation, UK

**Raffaella Buzzetti**  
Professor of Endocrinology, Sapienza University of Rome, Italy

**Guillermo E. Umpierrez**  
Professor of Medicine and President of the American Diabetes Association for Medicine and Science, Emory University, USA



Marcello Arca



Marja-R. Taskinen



Jan Borén



Johanna Ralston



Raffaella Buzzetti



Guillermo E. Umpierrez

PROGRAM, THU 16

SESSION 1D

FACULTY OF HUMANITIES  
AULA ARCHEOLOGIA  
11:00 AM – 12:30 PM



SESSION D

NEW TECHNOLOGIES AND  
PERSONALIZED THERAPIES

THE INFORMATION TECHNOLOGY, ARTIFICIAL  
INTELLIGENCE AND DIGITAL HEALTH REVOLUTION

Artificial Intelligence and Big Data Analytics represent an unprecedented opportunity for progress in global Health sector, for healthcare practitioners, policymakers, administrators and service users alike. To name some main areas of application:

- Machine Learning can support the prediction of health risks and personalized therapies for various populations of people, based on heterogeneous data types such as electronic health records, medical imaging, and biological data; it can also help sustainable financing and smart surveillance;
- Robotics helps surgeons achieve greater speed and accuracy, as well as aids in other tasks such as cleaning and disinfecting, moving beds and patients;
- Internet of Medical Things, the Internet of Connected Medical Devices, supports seamless remote monitoring of patients with chronic or long-term conditions.

These opportunities also come with many challenges, such as, to name a few: preserving privacy, a fundamental requirement for eHealth systems; defining standards for data integration and exchange; and ensuring the quality, trustfulness, and fairness of AI-based decision support systems.

This session will present the experiences of users and solution providers in areas such as digital pathology, digital therapeutics and personalized diagnosis in radiology, analyzing benefits and open issues.

CHAIRS

**Maurizio Lenzerini**  
Full Professor of Data and Knowledge Management, Sapienza University of Rome, Italy

**Paola Velardi**  
Full Professor of Machine Learning and Business Intelligence, Sapienza University of Rome, Italy

SPEAKERS

**Roberto Ascione**  
CEO & Founder Healthware Group

**Andrea Laghi**  
Full Professor of Radiology, Sapienza University of Rome, Italy

**Ran Balicer**  
Chief Innovation Officer for Clalit, Israel

**Colin White**  
Senior Vice President and General Manager, Advanced Staining & Imaging Leica Biosystems



Maurizio Lenzerini



Paola Velardi



Roberto Ascione



Andrea Laghi



Ran Balicer



Colin White



SESSION 2A

RECTORATE  
AULA MAGNA

1:30 PM – 3:00 PM

SESSION A

VACCINE DEVELOPMENT AND POLICIES:  
CHALLENGES AND STRATEGIES

FROM POLIO TO MEASLES AND RUBELLA:  
ERADICATION STRATEGIES

Eradication and elimination of infectious diseases are increasingly a part of the global health agenda. The Global Polio Eradication Initiative is more than a global health program focused on the elimination of a single disease. It is a multifaceted and sophisticated global public health partnership that applies the expertise and experience of its workforce and infrastructure to identify and respond to outbreaks of disease, strengthen health systems, build public confidence in vaccines, strengthen health systems, and reach the world's most vulnerable populations with polio vaccine and other essential health interventions.

While the measures used to mitigate COVID-19 have reduced the spread of the measles virus, countries and global health partners must prioritize finding and vaccinating children against measles as well rubella in order to reduce the risk of explosive outbreaks.

Global elimination of HCV requires a multipronged and multifaced approach as indicated by the WHO. Thus, there is an urgent need for each country to formulate a locally relevant health care policy targeting not only the key population but also the general population to stop HCV transmission.

CHAIRS

**Judith Diment**  
Rotary International Polio  
Advocacy Adviser

**Claudio M. Mastroianni**  
Full Professor of Infectious  
Diseases, Sapienza  
University of Rome, Italy



Judith  
Diment



Claudio M.  
Mastroianni

PROGRAM, THU 16

SPEAKERS

**Siddhartha Sankar Datta**  
Regional Adviser, Vaccine-  
preventable Diseases and  
Immunization Programme,  
WHO Regional Office for  
Europe

**Margaret Helena Hellard**  
Deputy Director Burnet  
Institute, Australia



Siddhartha  
Sankar Datta



Margaret Helena  
Hellard

**Katharina Hauck**  
Professor in Health  
Economics and Deputy  
Director of the Jameel  
Institute, School of Public  
Health, Imperial College  
London, UK

**Annette Mankertz**  
Head of the German  
National Reference Center  
for Measles, Mumps and  
Rubella, Robert  
Koch-Institute, Berlin,  
Germany



Katharina  
Hauck



Annette  
Mankertz

SESSION 2B

FACULTY OF LAW  
AULA CALASSO

1:30 PM – 3:00 PM

SESSION B

HEALTHCARE SYSTEMS

HEALTHCARE COVERAGE IN DEVELOPING COUNTRIES

Healthcare systems must be efficient in population, service and financial coverage to achieve Universal Health Coverage (UHC). While great emphasis has been put on strategies to achieve the 2030 Sustainable Development Agenda essential for achieving UHC. It is essential to have the right tools for improving health and well-being in the coming years. Many low and middle income countries still face difficulties in progress towards UHC with lack of strategic plans for achieving it. The situation is exacerbated by low funding, poor healthcare systems, and lack of collaboration between private and government sectors among other key impediments. Our panel of experts will lead joint discussions on how to achieve health for all while embracing technology and innovations.

CHAIRS

**Carlo Giovanni Cereti**  
Full Professor of Iranian Studies and Rector's Delegate for International Cooperation, Sapienza University of Rome, Italy

**Joseph Katerega Muteesa**  
CEO Nile Africa and a Co-Founder of SDC International Hospital, Uganda

SPEAKERS

**Daniel Bausch**  
Senior Director of Emerging Threats and Global Health Security, FIND, the global alliance for diagnostics, Geneva, Switzerland

**Valerie Luyckx**  
Brigham Hospital and Harvard Medical School, Boston, USA

**Robert Kalyesubula**  
President of Uganda Kidney Foundation

**Rossella Miccio**  
President of Emergency



Carlo G. Cereti



Joseph Katerega Muteesa



Daniel Bausch



Valerie Luyckx



Robert Kalyesubula



Rossella Miccio



SESSION 2C

FACULTY OF LAW  
AULA 101

1:30 PM – 3:00 PM

SESSION C

METABOLIC SYNDROME AND CHRONIC DISEASES

NEURODEGENERATIVE DISEASES: NEW FRONTIERS IN REASEARCH AND HEALTHCARE

Neurodegenerative diseases represent a challenge for our health systems. Defined by pathological findings of aggregation and misfolding of  $\alpha$ -synuclein in neurons or glial cells, Parkinson's Disease, Multiple System Atrophy and Dementia with Lewy Bodies belong to the family of  $\alpha$ -synucleinopathies. On the other hand, Progressive Supranuclear Palsy, another form of atypical parkinsonism, is considered a tauopathy. Alzheimer's disease leads to a deterioration in everyday functioning. Markers of neurodegeneration have been recently introduced and this condition can now be defined according to pathophysiological markers, even in the preclinical phase. Smart digital assistive technologies can support the daily activities of people with dementia. Currently available and future smart digital technologies, user centered design (UCD), and UCD helping smart digital technologies are now useful for people with dementia and their family caregivers. Challenges and opportunities in drug development in neurodegenerative diseases are now present, including conditions like spinal muscle atrophy.

CHAIRS

**Alfredo Berardelli**  
Full Professor  
of Neurology, Sapienza  
University of Rome, Italy

**Ole Petter Ottersen**  
President of Karolinska  
Institutet, Sweden

SPEAKERS

**Azad Bonni**  
Senior Vice President  
and Global Head of  
Neuroscience and Rare  
Diseases in pRED, Roche

**Lucilla Parnetti**  
Full Professor of Neurology,  
University of Perugia, Italy

**Stefan Teipel**  
Full Professor in Clinical  
Dementia Research at  
the University Medicine  
Rostock and DZNE  
Rostock/Greifswald,  
Germany

**Gregor K. Wenning**  
Director, Dysautonomia  
Center, Medical University  
Innsbruck, Austria



Alfredo Berardelli



Ole Petter Ottersen



Azad Bonni



Stefan Teipel



Lucilla Parnetti



Gregor K. Wenning

SESSION 2D

FACULTY OF HUMANITIES  
AULA ARCHEOLOGIA

1:30 PM – 3:00 PM

SESSION D

NEW TECHNOLOGIES AND  
PERSONALIZED THERAPIES

GENOME EDITING SCIENCE AND ETHICS

Among the currently available genome editing technologies, the CRISPR-Cas-9 system is the most rapidly developing. Its widespread adoption is related with the simplicity with which this system can be designed and assembled. In July 2021, the WHO’s Expert Advisory Committee on Developing Global Standards for Governance and Oversight of Human Genome Editing released its findings in the form of two reports. The reports intentionally go beyond human germline genome editing to also cover somatic genome editing. In this Session, the basic principles underlying the use of CRISPR-Cas9 as a genome editing tool and key considerations and obstacles for clinical translation with respect to its potential applications, including in the context of brain disorders, will be presented. A summary of the WHO Committee’s outputs, as well as the challenges and opportunities associated with implementing these reports will be also reported. Furthermore, it will be discussed how the revolutionary potential of the CRISPR-Cas9 genome editing technology has created a resurgence in enthusiasm and concern in genetic research perhaps not seen since the mapping of the human genome at the turn of the century.

CHAIRS

**Franco Locatelli**  
Head of the Department  
of Paediatric Haematology  
and Oncology, IRCCS  
Bambino Gesù Children’s  
Hospital, Rome;  
Full Professor of Pediatrics,  
Sapienza, University of  
Rome, Italy

**Daniela De Biase**  
Associate Professor of  
Biochemistry, Sapienza  
University of Rome, Italy

SPEAKERS

**Oliver Feeney**  
Researcher in Ethics and  
Governance of Genome  
Editing, University  
of Tübingen, Germany

**Katherine Littler**  
Co-Lead, Health ethics  
& Governance Unit,  
WHO, Geneva, Switzerland

**Luis Pereira de Almeida**  
Associate Professor and  
President of the Center  
for Neuroscience and Cell  
Biology, University  
of Coimbra, Portugal

**Peter Robinson**  
Professor and Donald A.  
Roux Chair, Genomics and  
Computational Biology,  
The Jackson Laboratory  
for Genomic Medicine,  
Farmington, USA



Franco  
Locatelli



Daniela  
De Biase



Oliver  
Feeney



Luis  
Pereira de Almeida



Katherine  
Littler



Peter  
Robinson

KEYNOTE

METABOLIC SYNDROME AND CHRONIC DISEASES

NETWORK MEDICINE: NOVEL APPROACHES TO HUMAN DISEASE AND THERAPEUTICS. EMPHASIS ON CARDIOMETABOLIC DISEASES

Historically, scientific reductionism has served as the basis for our understanding of the causes of and treatments for disease. While this approach has led to many successes, the great majority of diseases are complex and reflect a multiplicity of molecular interactions and responses defined by genetic context and environmental exposures. Given this complexity, the field of network medicine was developed, the fundamental principle of which is that a true understanding of disease definition, etiology, prognosis, and therapy requires a holistic understanding of these complex molecular systems. As a basis for this approach, we build and utilize comprehensive, unbiased, (macro)molecular interaction networks. These networks are analyzed statically and dynamically, and variations within them can be used to characterize functional consequences for disease susceptibility or expression. Using the comprehensive network of all ascertainable protein-protein interactions, or interactome, we first demonstrated that the great majority of diseases are characterized by discrete subnetworks, or disease modules, within the interactome. In recent work, we showed that genetic variants associated with disease, both germline and somatic, are significantly enriched in sequences encoding protein-protein interaction

interfaces compared to variants not associated with disease. These observations lent support for our work on exploring the network basis for different manifestations of the same disease (individualized disease phenotypes) within a cohort of patients with that disease. We developed the concept of individualized interactomes, or unique ‘reticulotypes,’ that reflect differential gene (and protein) expression for a given disease. For example, we used myectomy specimens from hypertrophic cardiomyopathy patients and found that the reticulotypes were quite variable in complexity and enriched for several different endophenotypes. Select endophenotypes were associated with distinct cardiac phenotypes (such as principally fibrotic), and also suggested unique drug targets that could be used for precision therapeutics. Thus, patient-specific reticulotypes may serve as the basis for characterizing the pathobiology of a disease phenotype in an individual patient, for identifying specific pathway or protein targets for drug development, for constructing unique biomarkers for disease prognosis, and for repurposing approved drugs whose targets may be proximal to the disease sub-network of interest. In these ways, network medicine offers a novel path toward (re)defining and treating human disease in the modern era, and facilitates the trajectory of true precision medicine.



KEYNOTE SPEAKER

**Joseph Loscalzo**  
Hersey Professor of the Theory and Practice of Medicine, Harvard Medical School and Chair, Department of Medicine, Brigham and Women’s Hospital, Boston, USA

SESSION SPINE 20

FACULTY OF LAW  
AULA CALASSO

3:15 PM – 4:30 PM



SESSION SPINE 20

SPINE 20, A G20 ADV CACY GROUP FOR THE PREVENTION AND CARE OF THE GLOBAL BURDEN OF SPINAL DISEASES

A study done about the Global Burden of Disease, published on The Lancet 2018, demonstrate that Low Back pain and Neck pain are ranking no 5 after Ischemic heart disease, Cerebrovascular disease, Diabetes and Tuberculosis. Back illness can lead to invalidating pain, inability and subsequently job loss. Spine 20 is an advocacy Group founded in the 2019 by Eurospine, North American Spine Society, Saudi Spine Society and German Spine Society in an effort to improve spine care on a Global level trough recommending policies, in the G20 countries and beyond, that help them alleviate the burden of Spine disease through improving spine care and treatment trough policies and support from governments. Today, more than 25 leading society for the study and care of spine illness in the five continents are contributing to organize a Spine 20 meeting that every year provide up-to-date recommendations for the Sherpas, Health ministers and Governments of the G20 regarding the best value-based spine care based on best available evidence while controlling the help care cost.

CHAIRS

**Giuseppe Costanzo**  
Past president, Italian Spine Society SICV&GIS

**Edward Dohring**  
President of North American Spine Society/ Clinical Professor, Arizona College of Medicine, USA



Giuseppe Costanzo



Edward Dohring

PROGRAM, THU 16

SPEAKERS

**Sami Aleissa**  
Associate Professor, King Abdulaziz Medical City, Riyadh, Saudi Arabia

**Margareta Nordin**  
Professor at Grossman School of Medicine, New York University, USA



Sami Aleissa



Margareta Nordin

**Thomas Blattert**  
Professor and Medical Director, Orthopaedische Fachklinik Schwarzach, Germany

**Koji Tamai**  
Lecturer, Osaka Metropolitan University, Osaka, Japan



Thomas Blattert



Koji Tamai

**Edward Dohring**  
President of North American Spine Society/ Clinical Professor, Arizona College of Medicine, USA



Edward Dohring

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PROGRAM

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**FRIDAY, JUNE 17**

KEY 03

RECTORATE  
AULA MAGNA

9:15 AM – 10:00 AM

KEYNOTE

NEW TECHNOLOGIES AND  
PERSONALISED THERAPIES

PERSONALIZED HEALTH: EVIDENCE, PREDICTION,  
ETHICS, AND REPRODUCIBILITY

Personalized health has been a top priority of both research and clinical and public health practice for many years now. Important advances in technology, data science, data availability, and interventions have fueled hopes for a major transformation of medicine and public health for both prevention and therapeutic applications.

The keynote will examine the current state of the evidence on personalized health; the challenges in moving from traditional prediction to efficient personalized prediction; the ethical questions and opportunities that arise with the advent of these new approaches; and issues surrounding the transparency and reproducibility of personalized health, including data and code sharing, conflicts of interest, protocol registration, and the wider meaning of replication when the target sample size is  $n=1$ .



KEYNOTE SPEAKER

**John P.A. Ioannidis**

Professor of Medicine,  
of Epidemiology and  
Population Health and  
(by courtesy) of Biomedical  
Data Science and of  
Statistics, and Director,  
Meta-Research Innovation  
Center at Stanford  
(METRICS), Stanford  
University, USA



SESSION 3A

RECTORATE  
AULA MAGNA

10:30 AM – 12:00 PM

SESSION A

VACCINE DEVELOPMENT AND POLICIES:  
CHALLENGES AND STRATEGIES

VACINOLOGY IN THE POST-COVID-19 ERA

One of the main achievements that arose from the global response to the COVID-19 pandemic is the rapid development of COVID-19 vaccines.

This success is the result of years of research efforts specifically focused on novel vaccine strategies and technologies.

At the same time, the above achievement may represent the keystones to consolidate new technologies and address novel strategies to develop new effective vaccines, to accelerate the timeline of their development and to give new insights into the still unresolved issue of identification of accurate correlates of protection.

During this Session experts working in different Institutions will meet to discuss challenges and strategies in vaccine research and development after two years of COVID pandemic looking at the vaccine issues from several different points of view including the public health perspectives.

Among the issues that will be covered there are the new opportunities in vaccine development against new and old “enemies”.

CHAIRS

**Guido Antonelli**  
Full Professor of  
Microbiology and Virology,  
Sapienza University of  
Rome, Italy

**Maria Rosaria Capobianchi**  
Scientific Advisor,  
Department of Infectious  
Tropical Diseases and  
Microbiology, Sacro Cuore  
Don Calabria  
Hospital IRCCS,  
Verona, Italy

SPEAKERS

**Andrea Carfi**  
Head of Research for  
Infectious Disease,  
Moderna, Cambridge, USA

**Stefania Di Marco**  
Scientific Director and  
Qualified Person, Advent  
S.r.l. , Pomezia, Italy

**Jeffrey V. Lazarus**  
Head of the Health  
systems team, ISGlobal,  
and Associate Professor,  
Faculty of Medicine,  
University of Barcelona,  
Spain

**Rino Rappuoli**  
Global Head R&D  
Vaccines, GSK



Guido  
Antonelli

Maria Rosaria  
Capobianchi



Andrea  
Carfi

Jeffrey V.  
Lazarus



Stefania  
Di Marco

Rino  
Rappuoli



SESSION 3B

FACULTY OF LAW  
AULA CALASSO

10:30 AM – 12:00 PM

SESSION B

HEALTHCARE SYSTEMS

BIOMEDICAL EDUCATION

Methodological innovation, together with the continuous updating of the contents, is crucial for the progress of biomedical education. Moreover, it helps increasing the adequacy of the preparation of health professionals, to face the future challenges of the Health Systems of individual countries. The Covid 19 pandemic has further demonstrated how every health problem is or can become a global health problem. It has also shown how rapid the response can be in terms of behavioral, technological, and scientific adaptation. This response, however, would not have been effective if it had not been conveyed by well-trained professionals. In this session, qualified speakers with real experience in the field will discuss the current problems of medical and nursing training also in terms of possible innovations both related to organizational models and the use of methodologies, even technologically advanced ones. Finally, the problematic of inclusion in the curricula of issues relevant to global health will be addressed.

CHAIRS

**Carlo Della Rocca**  
Full Professor of  
Pathological Anatomy,  
Sapienza University of  
Rome; President of the  
Permant Conference of  
the Medical Faculties and  
Schools of Medicine and  
Surgery, Italy

**Teresa Massara**  
Associate Publisher EMEA  
& Australia, McGraw Hill  
Global Publishing



Carlo  
Della Rocca

Teresa  
Massara

PROGRAM, FRI 17

SPEAKERS

**Donia Bouzid**  
ER Physician, Paris, France

**Fabrizio Consorti**  
Professor of surgery  
Sapienza University of  
Rome, Italy

**Floro Cubelo**  
Head of the Degree  
Programme in Nursing/  
Senior Lecturer, School of  
Health and Social Care,  
Oulu University of Applied  
Sciences, Finland

**Titi Savitri Prihatiningsih**  
Associate Professor  
in Medical and Health  
Profession Education,  
Faculty of Medicine,  
Public Health and Nursing,  
Universitas Gadjah Mada,  
Indonesia



Donia  
Bouzid

Floro  
Cubelo



Fabrizio  
Consorti

Titi Savitri  
Prihatiningsih

SESSION 3C

FACULTY OF LAW  
AULA 101

10:30 AM – 12:00 PM

SESSION C

METABOLIC SYNDROME AND CHRONIC DISEASES

CARDIOVASCULAR HEALTH SURVEILLANCE IN THE POST-COVID-19 ERA

The last two years have been predominantly characterized by the unprecedented planetary wave of COVID-19 which has caused millions of hospitalizations and deaths and a dramatic impact on healthcare systems and on lifestyle habits of the population.

The major direct consequences of the disease developed after SARS-COV 2 infections have been identified in cardiovascular and respiratory acute and chronic manifestations.

The presentations of this session will reflect these aspects highlighting the pathophysiological, clinical and therapeutic implications of COVID-19. In addition, the consequences of the burden of cardiovascular and respiratory injuries on the long-term sequelae of COVID-19 will be discussed, focusing on the new mechanisms discovered, the need for a tight follow up program of patients from both diagnostic and therapeutic point of views and the urgent reorganization of healthcare systems (including a broader use of Telemedicine). This is highly necessary to afford the huge number of missed clinical activities indirectly linked to the pandemic, a necessary reassessment of the central role of prevention in cardio-respiratory illnesses and the development of programs to prevent or limit a wave of cardiovascular events that might be the unavoidable consequence of reduced surveillance.

CHAIRS

**Massimo Volpe**  
Full Professor of Cardiology,  
Sapienza University  
of Rome, Italy

**Axel Radlach Pries**  
President  
World Health Summit  
and Dean of the Charité,  
Berlin, Germany

SPEAKERS

**Chiara Bucciarelli-Ducci**  
Associate Professor  
of Cardiology, King's  
College London, UK

**Xavier Jeunemaitre**  
Dean, Faculty of Health,  
Université Paris Cité,  
France

**Gianluca Condorelli**  
Full Professor of Cardiology  
and Head, Department of  
Cardiovascular Medicine,  
Humanitas Research  
Hospital, Milan, Italy

**Carlos Robalo Cordeiro**  
Dean, Coimbra Medical  
School, Portugal



Massimo  
Volpe



Axel  
Radlach Pries



Chiara  
Bucciarelli Ducci



Gianluca  
Condorelli



Xavier  
Jeunemaitre



Carlos  
Robalo Cordeiro

SESSION 3D

FACULTY OF HUMANITIES  
AULA ARCHEOLOGIA  
10:30 AM – 12:00 PM

SESSION D

NEW TECHNOLOGIES AND  
PERSONALIZED THERAPIES

ROBOTIC APPLICATIONS IN MEDICINE

The application of robotics in medicine is growing impetuously and its applications in various fields of health can no longer be considered the future. Its integration with advanced automation, augmented and virtual reality up to artificial intelligence systems represent the next challenge in areas such as general and specialist surgery, prosthetic limb replacement and the automation and standardization of laboratory procedures only to cite a few examples. In this session, qualified speakers with real experience in the field will discuss the state of the art of robotic application in some specific fields along with the possible next technological development of interest.

CHAIRS

**Hélène Boisjoly**  
Past Dean, Faculty of  
Medicine, University of  
Montreal, Canada

**Maria Chiara Carrozza**  
President of the National  
Research Council (CNR)  
and Full Professor at the  
BioRobotics Institute,  
Scuola Superiore  
Sant’Anna, Pisa, Italy

SPEAKERS

**Max Ortiz Catalan**  
Director of the Center for  
Bionics and Pain Research,  
and Professor of Bionics  
at Chalmers University of  
Technology, Sweden

**Muhammad Zaman**  
Professor Biomedical  
Engineering and Global  
Health, Howard Hughes  
Medical Institute, Boston  
University, USA

**Antonio Carbone**  
Full Professor of Urology,  
Sapienza University  
of Rome



Hélène  
Boisjoly



Maria Chiara  
Carrozza



Max  
Ortiz Catalan



Muhammad  
Zaman



Antonio  
Carbone

SESSION 4A

RECTORATE  
AULA MAGNA

1:15 PM – 2:45 PM

SESSION A

VACCINE DEVELOPMENT AND POLICIES:  
CHALLENGES AND STRATEGIES

VACCINES FOR NEGLECTED DISEASES  
MALARIA  
VACCINE DEVELOPMENT

Neglected diseases (NDs) are a diverse group of infectious diseases that are mainly prevalent in tropical areas, where they affect more than one billion people mostly from impoverished communities, with the highest burden on women and children. Malaria is not considered a Neglected Tropical Disease but disproportionately affects the same communities. Vaccine development and implementation of immunization programs are envisaged as important strategies for prevention and control of malaria and NDs. This symposium focuses on challenges and perspectives in the long path towards development of vaccines against NDs, with particular reference to the need of international mobilization and the direct experience of scientists involved in the development of vaccines against Plasmodium parasites and arboviruses.

CHAIRS

**Alessandra della Torre**  
Associate Professor of  
Parasitology, Sapienza  
University of Rome, Italy

**Aluisio Segurado**  
Professor of infectious  
diseases, Faculty of  
Medicine and Provost for  
the Undergraduate Studies,  
University of São Paulo,  
Brazil



Alessandra  
della Torre

Aluisio  
Segurado

PROGRAM, FRI 17

SPEAKERS

**Pedro Alonso**  
Professor of Global Health,  
Faculty of Medicine,  
University of Barcelona,  
Spain

**Angela Santoni**  
Emeritus Professor,  
Sapienza University of  
Rome; Scientific Director,  
Pauster Institute Italy,  
Fondazione  
Cenci-Bolognetti,  
Rome, Italy



Pedro  
Alonso

Angela  
Santoni

**Regina Rabinovich**  
Harvard T.H. CHAN School  
of Public Health, USA

**Annelies Wilder-Smith**  
Professor of Emerging  
Infectious Diseases,  
London School of Hygiene  
and Tropical Medicine, UK



Regina  
Rabinovich

Annelies  
Wilder-Smith

SESSION 4B

FACULTY OF LAW  
AULA CALASSO

1:15 PM – 2:45 PM

SESSION B

HEALTHCARE SYSTEMS

IMPLICATIONS OF CLIMATE CHANGES ON HEALTH

Climate change is affecting world health. This session is meant to share recent evidence of the adverse impacts of climate change on health and the opportunities for turning to a healthy, greener society.

Climate change is proved to have direct and indirect health effects. Adaptation is essential to reduce not preventable impacts of climate change, whereas mitigation actions to cut emissions are imperative to reduce health risks.

The importance of systems and capacity to understand (monitor and quantify health impacts of climate change) has emerged. The Lancet Countdown in Europe will monitor progress on health and climate change in Europe, while the InterAcademy Partnership (IAP) is currently conducting an inter-regional project, focusing on Mediterranean region issues, as food security, forced displacement, and water shortages.

Scientists are working to respond to the need for identifying the variables that contribute to food security under climate change and to highlight pattern and relationships between themselves. The effects of the restrictions imposed during the COVID-19 pandemic can positively act as a catalyst for global commitment to a healthier and greener model of global growth.

CHAIRS

**Bruno Botta**  
Full Professor of Chemistry  
and Deputy Provost for  
International Affairs,  
Sapienza University of  
Rome, Italy

**Volker ter Meulen**  
IAP Past President,  
Co-Chair of the  
IAP-Project: Climate  
Change and Health  
and University of  
Wuerzburg, Germany

SPEAKERS

**Chang-Chuan Chan**  
Distinguished Professor,  
College of Public Health,  
National Taiwan University

**Maria Nilsson**  
Professor of Public Health  
- orientation climate  
change and health, Umeå  
University, Sweden

**Robin Fears**  
Science Policy Consultant

**Amirhossein Takian**  
Professor and Vice Dean,  
School of Public Health,  
Tehran University of  
Medical Sciences, Iran

**Sir Andy Haines**  
Professor of Environmental  
Change and Public Health,  
Centre on Climate Change  
and Planetary-Health,  
London School of Hygiene  
and Tropical Medicine, UK



Bruno  
Botta



Volker  
ter Meulen



Chang-Chuan  
Chan



Maria  
Nilsson



Robin  
Fears



Amirhossein  
Takian



Sir Andy  
Haines



SESSION 4C

FACULTY OF LAW  
AULA 101

1:15 PM – 2:45 PM

SESSION C

METABOLIC SYNDROME AND CHRONIC DISEASES

LIFESTYLES AND HEALTH PROMOTION

The need for health promotion approaches that reach out to communities to empower the vulnerable and increase levels of health literacy, has been highlighted during the COVID19 pandemic. Analysing risks, reducing risks and ensuring risk containment approaches is an undertaking for the whole of society and for all governance bodies. Future health actions and policies require a One Health approach, which includes lifestyles and health promotion. This Session will cover some important initiatives in Lifestyles and Health Promotion. WHO, for example, has recently called for a strong focus on health promotion based on the concept of “wellbeing societies”. Global public-private partnership programmes such as Cities Changing Diabetes also have an important role in promoting local interventions to address the social and cultural factors that can increase diabetes risk. However, behaviour changes are notoriously hard to achieve, and health and nutrition professionals are not routinely trained in the skills needed to support such change. To fill this gap, FAO developed the Education for Effective Nutrition in Action (ENACT) undergraduate course to build capacities in Food and Nutrition Education.

CHAIRS

**Daniela De Biase**  
Associate Professor of  
Biochemistry, Sapienza  
University of Rome, Italy

**Reinhard Schaefers**  
WHS Ambassador

SPEAKERS

**Ilona Kickbusch**  
Founder and Chair of the  
Global Health Centre at  
the Graduate Institute  
of International and  
Development Studies,  
Geneva, Switzerland

**Niels Lund**  
Vice President, Global  
Prevention and Health  
Promotion, Novo Nordisk

**Luis Saboga-Nunes**  
Associate Professor,  
University of Education,  
Freiburg, Germany/  
President of the Health  
Promotion Section at the  
European Public Health  
Association (EUPHA)

**Ramani Wijesinha Bettoni**  
Nutrition Officer; Food and  
Agriculture Organization of  
the United Nations (FAO)



Daniela De Biase



Reinhard Schaefers



Ilona Kickbusch



Luis Saboga-Nunes



Niels Lund



Ramani Wijesinha Bettoni

SESSION 4D

FACULTY OF HUMANITIES  
AULA ARCHEOLOGIA

1:15 PM – 2:45 PM



SESSION D

NEW TECHNOLOGIES AND  
PERSONALIZED THERAPIES

PRECISION ONCOLOGY

The diffusion of NGS tests for comprehensive genomic profiling, the development of new drugs matching specific genetic alterations and the recent “agnostic approval” processes of anti-cancer agents represent an important innovation favoring the development of Precision Oncology. The new “mutational model” integrates the traditional approach to cancer therapy based on “histology model” and “agnostic model”. These technological advances must be accompanied by new organizational and management processes, i.e., molecular tumor boards in the decisional pathway. Precision oncology cannot and mustn’t be reduced to the mere identification of a molecular target to associate a drug. It must be based on the collection of as much information as possible, integrating genomic with transcriptomic, epigenetic, lipidomic and metabolomic, to mention just a few. The evolving clinical scenario makes current information handling systems insufficient. It will be necessary to set up platforms capable of integrating the ever increasing biological information with clinical ones (i.e., data warehouse). This session will explore the opportunities and the difficulties of such a complex and revolutionary approach, to transform informations into knowledge and clinical wisdom.

CHAIRS

**Paolo Marchetti**  
Scientific Director  
IDI-IRCCS, Rome, Italy

**Khay-Guan Yeoh**  
Professor of Medicine,  
National University of  
Singapore and Chief  
Executive of the National  
University Health System,  
Singapore

SPEAKERS

**Patriciu Achimas-Cadariu**  
Professor of Surgical  
Oncology and Gynecologic  
Oncology, University  
of Medicine and Pharmacy  
“Iuliu Hatieganu”  
Cluj-Napoca, Romania

**Manfred Dietel**  
Senior Professor,  
Charité University Hospital  
Berlin, Germany

**Stefania Boccia**  
Full Professor of Hygiene,  
Preventive Medicine and  
Public Health, Università  
Cattolica del Sacro Cuore,  
Rome, Italy

**Maria Elena Guadagno**  
Business and Technology  
Transfer Director, BSP  
Pharmaceuticals



Paolo  
Marchetti

Khay-Guan  
Yeoh



Patriciu  
Achimas-Cadariu

Manfred  
Dietel



Stefania  
Boccia

Maria Elena  
Guadagno



KEY 04

RECTORATE  
AULA MAGNA

3:15 PM – 4:00 PM

KEYNOTE

HEALTHCARE SYSTEMS

CLOSING THE GAP IN GLOBAL HEALTH: LEARNING  
FROM EXEMPLARY HEALTH SYSTEMS

‘Investing in health systems is critical to sustaining and maintaining improvements in global health. Yet, while strong cases for investment are frequently made in specific disease areas, the case for health systems financing is more challenging. This keynote will examine how evidence can be generated and used to inform investment in health systems. The talk will address the limitations of current approaches and explore alternatives, based on country experiences.

Disease specific programmes such as those to improve HIV or tuberculosis (TB), may struggle to achieve full roll-out of essential services, if those services are not supported by appropriate human resources or supply systems. The speaker will first discuss how these programmes have explored the impact of wider health system constraints, and defined the investment required to remove them.

Many countries are also critically reviewing their health care priorities, and service packages, in order to achieve Universal Health Coverage (UHC) goals. These review processes often fail to include comprehensive assessments of health system requirements of new essential service packages, and

understand the systemic drivers of service improvement. The Exemplars project in Primary Health Care provides an example of how evidence on these systemic drivers of service improvement can be identified. The speaker will present evidence from Exemplars project and conclude by reflecting on how such analyses can be improved to inform UHC policy.’



KEYNOTE SPEAKER

**Anna Vassall**  
Professor of Health  
Economics, London School  
of Hygiene and Tropical  
Medicine, UK and Joep  
Lange Chair,  
University of Amsterdam,  
The Netherlands

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PROGRAM DIGITAL TRACK

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**WEDNESDAY, JUNE 15**

**THURSDAY, JUNE 16**

**FRIDAY, JUNE 17**

DIGITAL TRACK

DT 1

3.00 PM - 4.30 PM

NEW FRONTIERS IN HEALTHCARE PROMOTION

A LOOK INTO THE FUTURE OF THE COVID-19 PANDEMIC: THE EXPERIENCE OF ITALY

The COVID-19 pandemic has challenged governments worldwide and required an unprecedented strong response from health systems. Italy was the first country to experience a widespread epidemic in the western hemisphere and was also the first country outside of Asia to impose a generalized lockdown allowing its citizens to leave their homes only in selected circumstances, with subsequent reopening decisions based on the epidemiological situation, the level of pressure on hospitals and the trend of the vaccination campaign. In this session, using also an international perspective, Italian academics, experts of government agencies and professionals of the Ministry of Health will discuss the public health approach to COVID-19 pandemic in Italy, the response of the Health Care System, the surveillance systems and the vaccination campaign, the strategies of institutional communication and the role of the pharmaceutical industries. Possible future scenarios, in terms of both society and health care, to guarantee a “new normal” of living with COVID-19 will be discussed.

CHAIRS

**Anna Teresa Palamara**  
Director of the Department of Infectious Diseases, Italian National Institute of Health (ISS); Full Professor of Microbiology, Sapienza University of Rome, Italy

**Paolo Villari**  
Full Professor of Hygiene, Sapienza University of Rome, Italy

SPEAKER

**Silvio Brusaferro**  
President of Italian National Institute of Health (ISS)

**Sergio Iavicoli**  
Director General of Communication and International Affairs, Ministry of Health, Italy

**Romina Quercia**  
Senior Medical Director, Global Lead COVID-19, mRNA Vaccines, Pfizer

**Gianni Rezza**  
Director General of Health Prevention, Ministry of Health, Italy

**Gualtiero (Walter) Ricciardi**  
Full Professor of Hygiene and Public Health, Università Cattolica del Sacro Cuore, Rome, Italy; President of World Federation of Public Health Associations ( WFPHA)



Anna Teresa Palamara

Paolo Villari

PROGRAM DT  
WED 15



Silvio Brusaferro

Gianni Rezza



Sergio Iavicoli

Gualtiero (Walter) Ricciardi



Romina Quercia

DIGITAL TRACK

NEW FRONTIERS IN HEALTHCARE PROMOTION

DIGITALIZATION AND SECONDARY USE OF HEALTH DATA, IN TERMS OF IMPACT ON PUBLIC HEALTH, ON PLANNING/SUSTAINABILITY OF THE HEALTH CARE SYSTEM AND ON THE PROXIMITY OF CARE

The first two decades of the 21st century have seen a fast development of the healthcare sector digitalization. What emerged from the coronavirus pandemic was a European Health Union vision. Concurrently, there is an increased awareness of the danger of potential cyberattacks directed at medical facilities and the importance of protecting critical infrastructures and health data. Additionally, digitalization may have unforeseen impacts on public health, affecting health inequalities and putting patients at risk of harm through technological exploitation. In this session the speakers will highlight the benefits of using and storing the health data, within a common framework to promote a better-functioning health system. This is why the European Health Data Space initiative was recently launched, i.e. to have health data organized in such a way to become accessible, easily and safely shared. Further, the significant increase of cyberattacks directed against critical infrastructure, most notably in healthcare, should mobilize political will and resources at an international level to take concrete action. To tackle this growing concern, the CyberPeace Institute is engaging various stakeholders to increase the resilience of the sector and accountability for malicious cyber acts.

CHAIR

**Giorgio Grani**  
Researcher in Internal Medicine, Sapienza University of Rome, Italy



Giorgio Grani

SPEAKER

**Fidelia Cascini**  
Assistant Professor of Hygiene and Public Health, Università Cattolica del Sacro Cuore, Rome, Italy

**Isabel Straw**  
Research Associate, University College London, UK



Fidelia Cascini



Isabel Straw



Juliana Crema

**Juliana Crema**  
Research Associate at the CyberPeace Institute, Geneva, Switzerland

DT 3

11:00 AM – 12:30 PM



DIGITAL TRACK

NEW FRONTIERS IN HEALTHCARE PROMOTION

CLIMATE CHANGE AND IMPACT ON RESPIRATORY DISEASES: HOW TO BALANCE PATIENT AND PLANET HEALTH

Changes in climate constitute a reality which has observable effects on respiratory health. Extreme climate events, forest fires, dust storms, increased level of circulating aeroallergens as well as poor air quality represent a massive threat to respiratory health. Respiratory health issues are exacerbated by the climate crisis which is putting vulnerable people at most risk and is set to further worsen inequality in our society. Protecting respiratory health is becoming an urgent public health and sustainability priority and it goes far beyond air pollution. A call for action is, therefore, needed not only to treat the symptoms of the crisis through products, but also when addressing the root causes. Governments, regulators, the scientific community and patients along with the biopharmaceutical industry can and should focus efforts on increasing awareness while triggering urgent action on climate change.

PROGRAM DIGITAL TRACK

CHAIRS

**Carlo Martuscelli**  
Journalist

**Luciano Saso**  
Full Professor,  
Sapienza University  
of Rome, Italy

SPEAKERS

**Isabella Annesi-Maesano**  
Research director  
INSERM and professor  
of Environmental  
epidemiology, Montpellier  
University, France

**Sara Cerdas**  
Member of the  
European Parliament

**Alessandro Chiesi**  
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**Susanna Palkonen**  
Director, European  
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**Omar Usmani**  
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RAPPORTEUR

**Stephen Matlin**  
Visiting Professor in the  
Institute of Global Health  
Innovation, Imperial College  
London, UK



Carlo  
Martuscelli

Luciano  
Saso



Isabella  
Annesi-Maesano

Susanna  
Palkonen



Sara  
Cerdas

Omar  
Usmani



Alessandro  
Chiesi

Stephen  
Matlin

PROGRAM DT  
THU 16

DT 4

1:30 PM – 3:00 PM



DIGITAL TRACK

NEW FRONTIERS IN HEALTHCARE PROMOTION

THE CRITICAL ROLE OF NUTRITION IN THE GLOBAL HEALTH AGENDA

This session will focus on the critical role of nutrition in the Global Health agenda. Nutrition is a cornerstone of improving health outcomes globally. Addressing malnutrition in all its forms is foundational to making progress toward achievement of the 2030 UN Sustainable Development Goals. Building capacity to prevent malnutrition and identify it early is a priority. This session will examine emerging data in the intersection between malnutrition and the COVID pandemic response and recovery, from acute care to the community setting. It will also focus on implementation data for innovative tools and evidence-based approaches that expedite accurate, early identification of malnutrition across the continuum of care.

PROGRAM DIGITAL TRACK

CHAIRS

**Hakim Bouzamondo**  
Divisional Vice President,  
Global R&D, Nutrition,  
Abbott

**Luciano Saso**  
Full Professor,  
Sapienza University of  
Rome, Italy

SPEAKERS

**Susan Abdel-Rahman**  
Pediatric researcher,  
innovator, Missouri, USA

**Hakim Bouzamondo**  
Divisional Vice President,  
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Abbott

RAPPORTEUR

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**Željko Krznarić**  
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**Francesco Landi**  
Professor of Internal  
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Cattolica del Sacro Cuore,  
Rome, Italy



Hakim Bouzamondo



Luciano Saso

PROGRAM DT  
THU 16



Susan Abdel-Rahman



Željko Krznarić



Hakim Bouzamondo



Francesco Landi



Stephen Matlin



DT 5

10:30 AM – 12:00 PM



DIGITAL TRACK

NEW FRONTIERS IN HEALTHCARE PROMOTION

RIISING TO THE CHALLENGE OF DELIVERING PRECISION MEDICINES FOR CHRONIC DISEASES

For decades scientists have studied the causes of disease; the interplay between genes, molecular drivers and the environment. Precision medicines – targeting the right medicine to the right patient at the right time – have revolutionised the treatment of some cancers and rare genetic diseases, yet precision medicines for chronic diseases are far less common. The challenge we face is that chronic diseases are biologically complex and driven by multiple mechanisms. They are heterogenous with an array of different symptoms and co-morbidities. Today, diagnosis relies on clinical symptoms and standard body fluid biomarkers, with tests often limited, imprecise and late in disease progression. To improve patient outcomes, we must move beyond the current standard of care in which many patients are treated the same and towards the possibility of targeting treatments to specific and earlier disease states. Hear from industry, biotech, EFPIA and clinical experts on the potential for precision medicines to transform care in complex chronic diseases and what initiatives could be implemented across regulatory, financing and clinical pathways to embed these into daily care for people with chronic diseases.

PROGRAM DIGITAL TRACK

CHAIRS

**Maria Orr**  
Head of Precision Medicine for BioPharmaceuticals, AstraZeneca

**Luciano Saso**  
Full Professor, Sapienza University of Rome, Italy

SPEAKERS

**Claudia Dollins**  
Executive Director, Global Regulatory Affairs Team, Precision Medicine and Companion Diagnostics, Bristol-Myers Squibb

**Richard Kennedy**  
Global Vice President and Medical Director, Almac Diagnostic Services

RAPPORTEUR

**Stephen Matlin**  
Visiting Professor in the Institute of Global Health Innovation, Imperial College London, UK

**Sir Mene Pangalos**  
Executive Vice President R&D BioPharmaceuticals, AstraZeneca

**Stefano Vella**  
Italian Delegate to Horizon Europe (Health Cluster) European Commission



Maria Orr



Luciano Saso



Claudia Dollins



Sir Mene Pangalos



Richard Kennedy



Stefano Vella



Stephen Matlin

PROGRAM DT FRI 17



DT 6

10:30 AM – 12:00 PM

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DIGITAL TRACK

NEW FRONTIERS IN HEALTHCARE  
PROMOTION

FIGHTING ANTIMICROBIAL RESISTANCE:  
FROM BASIC TO CLINICAL SCIENCE

Antimicrobial resistance is a problem involving medicine, clinical microbiology but also molecular biology and bioinformatics. The complexity and scale of AMR needs implementation of research, including molecular tracing of AMR genetic determinants and description of the dynamic spread of resistance genes among bacteria. Phylogenetic analysis of bacterial genomes, combined with epidemiological data clarified the circulation and spread of specific clinically relevant genetic determinants such as those conferring resistance to carbapenems and new generation antibiotics. The description of the molecular properties of resistant bacteria, focusing in details on Enterobacterales spreading within hospitals, will help to understand and describe the evolutive trajectories of resistant bacteria.

This aspects have great clinical implication, especially when the management of gram.negative bacteria infections is considered. In this respect, for each carbapenem resistant Gram-negative pathogen, it is important to know the details of the recommendations provided in the guidelines, and explore the evidence behind these recommendations. Finally, methodological limitations of studies evaluating combination vs monotherapy are discussed, as well as gaps between clinical and pre-clinical data on combination therapy effectiveness.

PROGRAM DIGITAL TRACK

CHAIRS

**Alessandra Carattoli**  
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Microbiology,  
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**Claudio M. Mastroianni**  
Full Professor of Infectious  
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University of Rome, Italy

SPEAKERS

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**Massimo Girardis**  
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**Marco Falcone**  
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**Dafna Yahav**  
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Alessandra  
Carattoli



Claudio M.  
Mastroianni



Alessandra  
Carattoli



Massimo  
Girardis



Marco  
Falcone



Dafna  
Yahav

PROGRAM DT  
FRI 17

DIGITAL TRACK

NEW FRONTIERS IN HEALTHCARE  
PROMOTION

YOUNG PHYSICIAN LEADERS

The Young Physician Leaders programme was launched in 2011 by the International Academy Partnership (IAP) in conjunction with the World Health Summit and the M8 Alliance of Academic Health Centres and Medical Universities. Since then it has trained physicians under the age of 40, equipping them with the leadership skills they will require to navigate their professional future. To date, the YPL network of alumni includes more than 200 leading young medical professionals who were nominated by their national academies. This year's cohort includes 20+ physicians with different professional backgrounds in 20+ different countries. Immediately prior to this Regional WHS, members of the cohort were convened to reflect on the challenges faced when leading in professional situations and the very nature of what it takes to be an effective leader in the world of today. The cohort has been mentored by some of the great minds at ESMT Berlin and IAP but perhaps most uniquely they had the chance to share and learn from each other's experiences. During this session, a subset of the cohort will convey some of the insights have gathered over the last couple of days, presenting leadership challenges that are relatable and must be addressed. There will be a designated time for contributions from the audience during which we encourage you to participate.

CHAIRS

**Jo Ivey Boufford**  
Clinical Professor of  
Global Health, New York  
University School of Global  
Public Health and Clinical  
Professor of Pediatrics,  
New York University School  
of Medicine, USA

**Peter Mcgrath**  
Coordinator, the  
InterAcademy  
Partnership

**Nora Grasselli**  
Program Director at ESMT  
Berlin and co-director of the  
Young Physician Leaders  
Programme



Jo Ivey  
Boufford



Peter  
Mcgrath



Nora  
Grasselli

PROGRAM DT  
FRI 17

DIGITAL TRACK

NEW FRONTIERS IN HEALTHCARE PROMOTION

GLOBAL HEALTH IN INTERRELIGIOUS PERSPECTIVE

The challenges of our present growingly compel us to rethink and reassess the value of religious pluralism and its impact on everyday life. Globalization affects cultures and traditional approaches to a variety of issues all over the world, touching every field of knowledge and practice. Care and healing are relevant aspects of life that religious behaviours and thoughts have been influencing throughout the entire history of humankind. Western medicine has developed and improved its efficacy thanks also to the interaction with theories, knowledge and practices belonging to other medical traditions. Healthcare, however – regardless of whether it is modern or traditional, mainstream, or alternative – is strictly connected to the idea of the body and its management, which are peculiar to specific cultures and religions. Such entanglements between local and global forces imply the necessity of considering interreligious dialectics and religious pluralism also in the framework of global health. This panel will deal with a selection of topics related to this issue, drawing inspiration from the experiences and consequences of the recent Covid-19 pandemic, but also highlighting the relevance of specific scenarios and case studies.

CHAIRS

**Alessandro Saggioro**  
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**Mar Grier**  
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**Bette Jacobs**  
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**Maria Angela Falà**  
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Foundation, Institute of  
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President of the Interfaith  
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**Judith Richter**  
Founder and CEO  
of Medinol Ltd

**Hellen Idler**  
The Samuel Candler Dobbs  
Professor of Sociology,  
Emory University, USA



Alessandro  
Saggioro



Mar  
Grier



Marian  
Burchardt



Bette  
Jacobs



Maria Angela  
Falà



Judith  
Richter



Hellen  
Idler

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## GENERAL INFORMATION

ACCESS TO THE VENUE

To access Sapienza University of Rome, participants and speakers are required to complete the COVID-19 self-certification on health status.

The self-certification is used to indicate during access in Sapienza that you know the procedures for COVID-19, have no symptoms attributable to COVID-19, and are not on isolation for COVID-19.

Participants and speakers are required to pick up their badges at the registration desk. Badges should be worn at all times and are required to enter all session and food&beverage areas.

[www.regionalmeetingwhs2022.com/covid-19-information/](http://www.regionalmeetingwhs2022.com/covid-19-information/)

CAPACITY LIMITS

The capacity of session rooms and the venues as a whole is limited. The organizers reserve the right to refuse access to the venue or to session rooms if the maximum capacity has been reached. We follow the “first come–first served” principle throughout the conference and in all sessions.

CATERING AREA

Food and beverage distribution during break times follows the COVID-19 hygiene guidelines.

Please note: to access the food&beverage area badges must be showed.

Catering areas:  
Terrace Rectorate | Faculty of Humanities.

COVID-19 REGULATIONS

The following safety measures should be observed at the event sites:

- Mandatory use of surgical masks indoors (FFP2 masks are strongly recommended) and outdoors in gathering situations.
- Frequent hand hygiene with hydroalcoholic solutions.
- Maintenance of interpersonal distance whenever possible, with special reference to lunches and socializing occasions.

EU DIGITAL COVID-19 CERTIFICATE (OR NON-EU EQUIVALENT)

At present, it is not required to show the EU Digital Covid-19 Certificate (OR non-EU equivalent) to access Sapienza University of Rome. For information about travel to Italy from EU and non-EU countries, we suggest you

visit the Government website.

We invite you to check from time to time the Regional Meeting website because Government guidelines and therefore the procedures to access Sapienza campus can be subject to changes.

[www.regionalmeetingwhs2022.com/covid-19-information/](http://www.regionalmeetingwhs2022.com/covid-19-information/)

DIGITAL PARTICIPATION

You are kindly invited to take part digitally: the whole Program of the World Health Summit Regional Meeting is available online with Q&A opportunities for participants. All entry links for the sessions can be found registering here:

[digitalregionalmeetingwhs2022.com/login](http://digitalregionalmeetingwhs2022.com/login)

EMERGENCY NUMBERS (ITALY)

Ambulance	118
Fire	115
Police	112

PEOPLE WITH DISABILITIES

The venue is accessible to participants with disabilities.

PROGRAM CHANGES

The program is subject to changes due to unforeseen circumstances.

Please check the online program on our website for regular updates.

[www.regionalmeetingwhs2022.com](http://www.regionalmeetingwhs2022.com)

REGISTRATION

The registration desk is opening during the following times:

**Wednesday, June 15**  
2.30 PM – 5.30 PM

**Thursday, June 16**  
7.45 AM – 4.00 PM

**Friday, 17 June**  
8.30 AM – 5.00 PM



# CITY OF ROME

## ROME WEATHER IN JUNE

What’s the weather like in Rome in June? In the middle of June, the weather in Rome is beautiful and mild. The average temperature is 24°C, it rarely falls below 20°C or goes above 28°C , in the central hours of the day. The days are long and sunny, which gives you more time to explore the city and take in all of the fantastic sights and historical buildings that Rome is known for. Rome is the capital of Italy and sits in the central-western region. It incorporates Vatican City, which is known as the smallest state in the world.

## GETTING AROUND ROME

The best way to get around Rome is on foot. Many of the most famous attractions are clustered in traffic-free zones.

A non-stop express train ( Leonardo Express) takes you from the Leonardo da Vinci-Fiumicino Airport (FCO) to Rome Termini railway station in 32 minutes; the one-way ticket costs 14 euros. Buses are also available.  
Metro: in Rome there are three metro lines. You will find stations scattered throughout



the city marked by signs with a big red “M” on them.  
You can buy tickets (one-way) for 1.50 euros at the metro stations and convenience stores throughout the city.  
Alternatively, if you plan to rely on public transportation for most of your trip to Rome, you might want to purchase a 24-hour card for 7 euros; a 48-hour card for 12.50 euros; or a 72-hour card for 18 euros. If you purchased a Roma Pass, your public transportation fares are covered by the pass.

## WHAT TO EAT IN ROME

Rome is full of restaurants, from trattorias that cook up family recipes spanning generations to fusion restaurants that plate up the latest culinary trend.  
Don’t miss out on Roman specialties – such as artichokes, which are so beloved they have a protected status from the European Union. Try them at the Jewish district “Ghetto”. Cacio e Pepe is a simple pasta dish flavored with Pecorino Romano cheese and black pepper, and it originated in Rome. If you add smoked

pork jowl and egg, you get another Roman pasta dish, carbonara.  
Any Roman will agree, the best way to whet your appetite before sinking your teeth into a pizza is with fritti: deep-fried goodies that are tasty, comforting and oh-so-satisfying. A classic choice is the supplì, a fried rice-ball mixed with ragù and mozzarella and cooked to perfection.

Coffee is an art in Rome, and to enjoy one of the best espresso drinks, try out the Caffè Sant’Eustachio, established in 1938, or the Antigua Tazza d’Oro near the Pantheon.



# CITY OF ROME





# WORLD HEALTH SUMMIT REGIONAL MEETING LEADERSHIP



## PRESIDENTS

## ORGANIZING COMMITTEE

2022



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of Rome, Italy



**LUCIANO SASO**  
WHS International  
President 2022  
Sapienza University  
of Rome, Italy



**EUGENIO GAUDIO**  
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**DANIELA DE BIASE**  
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**AXEL RADLACH PRIES**  
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World Health Summit,  
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**LUCIANO SASO**  
WHS International  
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Sapienza University  
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**PAOLO VILLARI**  
Sapienza University  
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**SEBASTIANO FILETTI**  
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**JÖRG HELDMANN**  
World Health Summit  
Foundation GmbH  
Charité – Universitätsmedizin  
Berlin, Germany

# WORLD HEALTH SUMMIT REGIONAL MEETING LEADERSHIP



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2022



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Vice-President European Parliament responsible on Health



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**MARIA CRISTINA MESSA**  
Minister, Italian Ministry of University and Research



**MATSHIDISO MOETI**  
WHO Regional Director for Africa



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**ORAZIO SCHILLACI**  
Rector, Tor Vergata University, Rome, Italy



**ATTILIO PARISI**  
Rector, Foro Italico University, Rome, Italy



**CHRISTOS CHRISTOU**  
International President, Médecins Sans Frontières



**SILVIO BRUSAFERRO**  
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**FRANCO LOCATELLI**  
President, Higher Health Council (Consiglio Superiore di Sanità)



**GIORGIO PALÙ**  
President, Italian Medicines Agency (Agenzia Italiana del Farmaco)



**MASSIMO SCACCABAROZZI**  
President, Farindustria



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ABx Antibiotics. LOS Length of stay. LRTI Lower Respiratory Tract Infection.

**References:** 1. Schuetz et al., JAMA 2009; 302 (10): 1059-1066. 2. Nobre et al., Am J Respir Crit Care Med 2008; 177 (5): 498-505. 3. de Jong et al., Lancet Infect Dis 2016; 3099: 1-9. 4. Kyriazopoulou et al., Am J Respir Crit Care Med 2021; 203 (2): 202-210. 5. Mewes JC et al., PLoS One 2019; 14 (4): e0214222.

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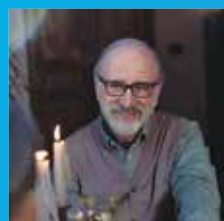
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## NOTES

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Berlin, Germany

& Digital

October 16-18, 2022



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