

World Health Organization (WHO) Collaborating Center for Integrative Medicine
University of Milan

PRM
International Academy of Physiological Regulating Medicine

FEMTEC
Worldwide Federation of Hydrotherapy and Climatotherapy
Non-State Actor in official relations with WHO

Symposium

SYSTEMS MEDICINE

Models of integration in clinical practice
and new therapeutic solutions

THE PATIENT OF THE FUTURE

SATURDAY **MAY 20TH 2023**

FROM **9.30** *a.m.* TO **18.00** *p.m.*

LIVE STREAMING FROM THE SALA NAPOLEONICA
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The 2023 edition of the **“Systems Medicine Symposium: Models of integration in clinical practice and new therapeutic solutions”** takes over from the first edition which, with the subsequent Declaration of Milan 2022, designed the trajectories of the transition from Medicine of the present to that of the future.

– In the 2023 edition, the focus of the Symposium will be the person, or better yet, the patient of the future. In fact, the continuous and progressive climatic and environmental changes, along with the new models of social relations, are profoundly affecting the health conditions and the determinism of the disease state of the human being in the 21st century.

Moreover, the reductionist approach, extremely prolific in new knowledge and experimental results, has not solved the emerging aspect of complexity, rather it has highlighted it.

The new nosographic scenarios, inspired by the trinomial homeostasis-complexity-chaos, are configured for the “patient of the future” (increasingly chronic, with comorbidity, and polytreated). At the same time, new therapeutic approaches - preventive, interventional or rehabilitative - are necessary for health scenarios which are very different from those of even the last few decades.

Given these premises, the challenges awaiting Medicine require a re-reading of the model of the human being, interpreted **as a complex system within an environmental network inserted in a social network.**

Systems Medicine, which has its roots precisely in systemic-complex thinking, appears capable of designing new diagnostic-therapeutic approaches and contributing to the construction of new health models according to the **multidimensionality of the object-subject-environment relationship**, in line with the WHO's One Health program.

– The topics covered in the Symposium **“Systems Medicine: Models of integration in clinical practice and new therapeutic solutions – THE PATIENT OF THE FUTURE”**, from epigenetics to -omics, from communicable to degenerative diseases, from bioethics to pharmaceutical resilience, from biomedicine to rehabilitation and many others, will be the inception of discussion and will represent the starting point for the definition of new treatment models and new therapeutic solutions.

Chairman

PROF. UMBERTO SOLIMENE

Director of WHO (World Health Organization) Collaborating Center
for Integrative Medicine - State University of Milan

AGENDA

9.30-10.00 OPENING

- Institutional representatives
- **Umberto Solimene**, Director of WHO (World Health Organization) Collaborating Center for Integrative Medicine - State University of Milan
- **Marco del Prete**, President of International Academy of Physiological Regulating Medicine

10.00-11.50 SESSION 1

EPIGENETIC, -OMICS SCIENCES AND DRUG DISCOVERY

MODERATORS:

Gian Luigi Marseglia, Full Professor of Pediatric Clinic. Director of the Pediatric Clinic of the University of Pavia

Andrea Modesti, Full Professor of General Pathology. University of Rome "Tor Vergata"

SPEAKERS:

10.00 - 10.20 Alessio Fasano, *Professor of Pediatrics, Harvard Medical School and Professor of Nutrition, Harvard T.H. Chan School of Public Health.*

The study of the intestinal microbiome in the context of a multi-omics approach: the future of personalized and preventive medicine

10.20 - 10.40 Ernesto Burgio, *ECERI – European Cancer and Environment Research Institute, Bruxelles.* **From linear genetics to systemic genomics (epigenome, pangenome, hologenome, ...)**

10.40 - 11.00 Vassilios Fanos, *Full Professor of Pediatrics, University of Cagliari.* **Metabolomics as a predictor of disease**

11.00 - 11.20 Jeanette Maier, *Full Professor of General Pathology and Clinical Pathology, University of Milan.* **Illness: a complex and dynamic event. The dangerous relationships between the various molecular actors**

11.20 - 11.40 Stefano Fais, *Research Director, Department of Oncology and Molecular Medicine, National Institute of Health.* **Exosomes, a revolution in knowledge: the role of exosomes of plant origin in food supplementation and nutraceuticals.**

11.40 - 11.50 DISCUSSION

AGENDA

11.50-13.20 SESSION 2

PATIENT AND DOCTOR OF THE FUTURE BETWEEN BIOETHICS, NEUROETHICS AND EMPATHY

MODERATORS:

Gianni Bona, Full Professor of Pediatric Clinic. Former Director of the Pediatric Clinic of the University of Eastern Piedmont "A. Avogadro", Novara

Paolo Inghilleri, Full Professor of Social Psychology. University of Milan

SPEAKERS:

11.50 - 12.10 **Laura Boella**, *Former Full Professor of Moral Philosophy at the Department of Philosophy, State University of Milan.* **Doctor-patient empathy put to the test: the citizen patient, the responsible patient**

12.10 - 12.30 **Gian Vincenzo Zuccotti**, *Full Professor of Pediatrics, University of Milan. Director of the Department of Pediatrics V. Buzzi Children's Hospital - ASST Fatebenefratelli - Sacco.* **Training models for the doctor of the future**

12.30 - 12.50 **Luigi Tesio**, *Director of the Department of Neurorehabilitation Sciences, IRCCS Istituto Auxologico Italiano- Milan. Former Full Professor of Physical and Rehabilitation Medicine, University of Milan.* **From biomedicine to the clinic. Degree and medical specializations in the gradient between organs, people, and communities.**

12.50 - 13.10 **Mariano Bizzarri**, *Associate Professor of Clinical Pathology. Director of the Systems Biology Laboratory, La Sapienza University of Rome.* **Redefinition of the concept of disease and pharmacodynamic action in the perspective of System Biology**

13.10 - 13.20 **DISCUSSION**

13.20 - 14.30 **LUNCH**

14.30-16.00 SESSION 3

NETWORK FUNZIONALI E CIRCUITI SISTEMICI

MODERATORS:

Davide Lauro, Full Professor of Endocrinology. University of Rome "Tor Vergata"

Claudio Molinari, Associate Professor of Human Physiology. University of Eastern Piedmont, Vercelli

SPEAKERS:

14.30 - 14.50 **Alberto Priori**, *Full Professor of Neurology, Department of Health Sciences, University of Milan.* **Teleneurology and Artificial Intelligence in Neurology**

14.50 - 15.10 **Fabrizio Salvinelli**, *Full Professor of Otolaryngology and Head and Neck Surgery, University campus Bio-Medico, Rome.* **Nerve Growth Factor (NGF): the new frontiers**

15.10 - 15.30 **Mario Clerici**, *Full Professor of Immunology and Immunopathology, University of Milan.* **Communicable Diseases: which scenarios for the patient of the future?**

15.30 - 15.50 **Angelo Gemignani**, *Full Professor of Psychobiology and Physiological Psychology, University of Pisa.* **Meditation-dependent neuroplasticity and the role of neurotrophins**

15.50 - 16.00 **DISCUSSION**

AGENDA

16.00-18.00 **SESSION 4** STRUCTURAL NETWORKS AND AGE-RELATED DEGENERATION

MODERATORS:

Stefano Masiero, Full Professor of Physical and Rehabilitation Medicine. University of Padua

Alberto Migliore, Director of the UOS of Rheumatology. San Pietro Fatebenefratelli Hospital, Rome

Valter Santilli, Full Professor of Physical Medicine and Rehabilitation. University of Rome "La Sapienza"

SPEAKERS:

16.00 - 16.20 Nicoletta Gagliano, Associate Professor, Department of Anatomical, Histological, Forensic and Locomotor Sciences, La Sapienza University of Rome. **Extracellular matrix and fibrosis. What fate for a progressively older population?**

16.20 - 16.40 Marco Paoloni, Professore Associato, Dipartimento di Scienze Anatomiche, Istologiche, Medico Legali e dell'Apparato Locomotore, Università di Roma "La Sapienza". **Modulation of the inflammatory response with low dose cytokines in cultures of human chondrocytes and synoviocytes**

16.40 - 17.00 Raoul Saggini, Full Professor of Physical Medicine and Rehabilitation, eCampus University in Novedrate. **Rehabilitative model of Bio-progressive Optimization for dysregulation of the body system**

17.00 - 17.20 Fabio Esposito, President of the School of Motor Sciences, University of Milan. **The role of physical exercise in new prevention scenarios**

17.20 - 18.00 DISCUSSION AND CLOSURE

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