

Cognome _____

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Via _____

Città _____

Cap. _____ Prov. _____

Tel. _____ Fax _____

E-mail _____

La lingua ufficiale del simposio è l'inglese, è previsto un servizio di traduzione simultanea.

Il simposio è rivolto ai medici ed è gratuito.

Dato il numero chiuso dei partecipanti, è indispensabile l'iscrizione al Simposio, almeno 20 giorni prima dell'evento, esclusivamente mediante la presente scheda, inoltrata a mezzo fax ai n. 039.6064886 e 039.6985030 o per e-mail a: info@fondazionecanova.it

INTERNATIONAL SYMPOSIUM

Biophysical aspects of complexity in health and disease

milan | 27 march 2010

HOTEL MICHELANGELO

Via Scarlatti, 33 - 20124 Milano - Tel. 02.67551

Scientific Committee

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L. BRIZHIK
A. FOLETTI
S. GRIMALDI
J. POKORNÝ
C. ROSSI
C. SONNENSCHNEIN
V. VOEIKOV

Chair

A. FOLETTI M.D.

Organizing Committee

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*preliminary
program*

INTERNATIONAL
SYMPOSIUM

Biophysical aspects of complexity in health and disease



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HOTEL MICHELANGELO

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International Symposium

Biophysical aspects of complexity in health and disease.
Milan, Italy, 27 March 2010

This conference will bring together researchers in the life sciences and in the physical sciences to discuss aspects of biophysics and medicine that can contribute to a system or integrative, approach to biological organization and processes. The aim is to contribute to build bridges between sciences in order to increase opportunities of communication between the physical sciences and life sciences. The relative lack of opportunities for communication among sciences poses a significant barrier to the growth of this new trans-disciplinary area knowledge. A number of distinguished and innovative scientists from both life sciences and physical sciences will present overview suitable also for non specialists of areas of research that impact integrative biology and informative medicine. The invited lecturers together to the contributing talks are intended to stimulate and promote a change of paradigm in life sciences in the light of complexity as proposed unifying tool.

Topics that are relevant to the meeting include:

Intracellular biophysical signalling pathways and cell-cell communication, Coherence in biological system, Quantum Electro Dynamic, Biophotonics, Bioresonance, Informative medicine and physical methods for studying molecular and cellular processes.

International scientific committee

Mariano Bizzarri

Dept. of Experimental Medicine and Pathology, Cancer Systems Pathology Group, University La Sapienza, Rome, Italy.

Larissa Brizhik

Bugolyubov Institute for Theoretical Physics, Kyiv, Ukraine.

Alberto Foletti

Lugano, Switzerland.

Settimio Grimaldi

Institute of Neurobiology and Molecular Medicine, C.N.R., Rome, Italy.

Jirí Pokorný

Institute of Photonics and electronics, v.v.i., Academy of Sciences of the Czech Republic, Prague, Czech Republic.

Claudio Rossi

Department of Applied and Medicinal Chemistry and Center of Complex Systems, University of Siena, Siena, Italy.

Carlos Sonnenschein

Department of Anatomy and Cellular Biology, Tufts University School of Medicine, Boston, MA, USA.

Vladimir Voeikov

Department of Biorganic Chemistry, Lomonosov State University, Moscow, Russia

preliminary Program

saturday 27 march

8.30-9.00 Registration.

9.00-9.15 Opening Ceremony.

9.15-10.00 **LUC MONTAGNIER**

Nobel Laureate, France

"Electromagnetics Signals Produced by DNA in Chronic Diseases"

BRIDGING SCIENCES IN UNDERSTANDING BIOLOGICAL COMPLEXITY:

10.00-10.30 **LARISSA BRIZHIK**

Bugolyubov Institute for Theoretical Physics, Kyiv, Ukraine.

"Non linear mechanism of charge transport and self-regulation of metabolic processes."

10.30-11.00 **CLAUDIO ROSSI**

Department of Applied and Medicinal Chemistry and Center of Complex Systems, University of Siena, Siena, Italy.

"Effects of electromagnetic perturbation on physical, chemical and biochemical properties of matter."

Coffee Break

11.15-11.45 **JIRÍ POKORNÝ**

Institute of Photonics and electronics, v.v.i., Academy of Sciences of the Czech Republic, Prague, Czech Republic.

"Biophysical links in cancer transformation."

11.45-12.15 **CARLOS SONNENSCHN**

Department of Anatomy and Cellular Biology, Tufts University School of Medicine, Boston, MA, USA.

"A novel evolutionary perspective of development of cancer."

12.15-12.45 **MARIANO BIZZARRI**

Dept. of Experimental Medicine and Pathology, Cancer Systems Pathology Group, University La Sapienza, Rome, Italy.

"Tumor cell phenotypes as attractors in the phase space described by fractal and dissipative function parameters."

Lunch

WATER AS A TRANSDISCIPLINARY KEY OF COMPLEXITY

14.00-14.30 **VLADIMIR VOEIKOV**

Department of Biorganic Chemistry, Lomonosov State University, Moscow, Russia

"Aqueous bicarbonate matrix of living organisms is the source of high density energy for sparking and fuelling bioenergetic processes."

14.30-15.00 **SETTIMIO GRIMALDI**

Institute of Neurobiology and Molecular Medicine, C.N.R., Rome, Italy.

"The "fate" of charged molecules in water under a combination of static and alternating low frequencies electromagnetic fields."

15.30-15.30 **ELMAR FUCHS**

Wetsus center of Excellence for Sustainable Water Technology, Leeuwarden, The Netherlands.

"The inner structure of a floating water bridge."

Coffee Break

MEDICAL APPLICATION:

15.45-16.15 **CLARBRUONO VEDRUCCIO**

Italian Navy, Italy

"Electromagnetics non linear interaction with diseased tissues, an approach to laboratory experiments on passive circuits and real diagnostic possibilities."

16.15-16.45 **ANTONELLA LISI**

Institute of Neurobiology and Molecular Medicine, C.N.R., Rome, Italy.

"Regenerative Medicine by biophysical means in the ELF range. State of the art of the application on endogenous adult human stem cells."

16.45-17.15 **ALBERTO FOLETTI**

Independent Researcher, Lugano, Switzerland.

"Managing biological complexity in the framework of Systems Medicine: the possible key role of Systems Information Therapy by biophysical methods in integrating medical practice."

17.15-17.30 Closing Remarks.