

PRESENTATION

This international meeting at the newest frontiers of Psychiatry provides for participation by leading scientific figures of international renown, including Nobel Prize winner Kary Mullis. The conference aims to address, among other topics, results obtained from the project financed by the Marche Region on Bio-Molecular Markers in Psychiatry, which is now recognized, by the Region, as a Project of Excellence. The data collected have not only generated the possibility of grading bipolar and depressed subjects biochemically for the first time in history; they have also pointed toward a possibility of directing the nutrition of those individuals who suffer from this devastating disease affecting the "person" and constituting a social phenomenon whose massive incidence over the next 20 years is forecast by WHO. The Project of the Marche Region has achieved results that can contribute a diagnostic laboratory tool sharpening the diagnostic precision of psychiatrists and thus drastically reducing the deleterious effects of incorrect therapy.

The conference is also an extraordinary opportunity to bring together most of the members of the Quantum Paradigms of Psychopathology (QPP) group. The primary purpose of QPP is to explore the relevance of quantum physics to the most sensitive processes of the abnormal brain.

The concept of mind as a quantum field phenomenon has been under study since the final decades of the last century. Pioneers such as physicists Hiroomi Umezawa, Kunio Yasue, and Giuseppe Vitiello, mathematicians such as Roger Penrose, and biomedical investigators as Stuart Hameroff, Gordon Globus, and Gustav Bernroder have probed the depths of subatomic structure and its amplifications in search of substrates for macroscopic quantum computation and other capabilities that may correspond to the attributes of the human psyche better than conventional models supported by cognitive neuroscience.

The live conference in Fano harbors the potential to generate a productive, face to face synergy, leading eventually to advances in this new area of scientific exploration.

There will also be masterful discussions of the relationships between theology and psychiatry and between philosophy and psychiatry.

Prof. Massimo Cocchi

MEETING ORGANIZED BY



WITH THE SPONSORSHIP OF



THANKS TO



Scientific Board

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AD: EIKON

A LONG SHADOW OVER THE SOUL

MOLECULAR AND QUANTUM APPROACHES TO PSYCHOPATHOLOGY
AN INTERDISCIPLINARY DIALOG WITH PSYCHIATRISTS

FROM 29th TO 31st
MARCH 2012

FANO
Sala Riunioni del Centro Pastorale
Via Roma, 118

MAJOR DEPRESSION AND BIPOLAR
DISORDER

NEW FRONTIERS IN PSYCHIATRY
ITALIAN AND FOREIGN E
XPERTS DISCUSS

Guest of Honor of the Meeting
Kary Mullis, Nobel Prize 1993

CONVEGNO ORGANIZZATO DA :
Dipartimento di Salute Mentale di Fano -
Area vasta 1

Università degli Studi di Urbino -
Dipartimento di Scienze Biomolecolari
University, Lugano, Switzerland -
Faculty of Human Sciences,
Institute "Paolo Sotgiu"
Quantitative and Quantum Psychiatry
and Cardiology-L.U.de.S.

CON IL PATROCINIO DI:

Regione Marche
Provincia PU
Comune di Fano
Società Italiana di Psichiatria
Società Italiana di Biologia Sperimentale

THURSDAY, MARCH 29, 2012 - OPENING PROCEEDINGS

- 2 pm **Official Welcome**
Introduction to the Meeting
Raimondo Venanzini and **Massimo Cocchi**
- Chairperson**
Emma Rabino Massa
President of the Italian Society of Experimental Biology
- 2.30 pm **Fabio Gabrielli**
Professor of Philosophical Anthropology, L.U.de.S, University, Lugano, Switzerland
Philosophy and Psychiatry
"The violated body in the era of the invisible man"
- 3 pm **Michele Aramini**
Professor of Moral Theology
Catholic University, Milan, Italy
Theology and Psychiatry
- 3.30 pm **Stuart Hameroff**
Professor of Anesthesiology and Psychology
Director of the Center for Consciousness Studies at the University of Arizona, Tucson
"Quantum computation in microtubules"
- 4 pm **Giuseppe Vitiello**
Professor of Theoretical Physics, University of Salerno
"The dissipative quantum model of brain"
- 4.30 pm **Elio Conte**
Professor of Psychophysiology, University of Bari
"Quantum mechanics in the analysis of human perceptual and cognitive functions"
- 5 pm **Paola Zizzi**
Professor of Bio Mathematical Sciences Institute
"Paolo Sotgiu" for Quantitative and Quantum Psychiatry and Cardiology
"Incoherent quantum metalanguage and Schizophrenia"
- 5.30 pm **Kary B. Mullis**
Nobel Laureate
"Tunnel Vision"

FRIDAY, MARCH 30, 2012 - ROUND TABLE

- 9 am **Chairpersons**
Paolo Castrogiovanni
"What's right and what's wrong in psychiatry?"
- Lecture**
Giovanni Broggi
Professor of Neurosurgery
Fondazione IRCCS Istituto Neurologico C. Besta
"Neuromodulation in psychiatric disorders"
- 9.30 to 11.30 am **Lectures and Discussion**
Don Giorgio Giovannelli
(Delegato per il Centro di Bioetica di Fano)
Vincenzo Guarracino
(Letterato)

Ines Caneponi
(Dirigente Ufficio Sanitario della Questura di Milano)
Alfredo De Filippo (L.U.DE.S. University),
Angelo Manenti (L.U.DE.S. University),
Andrea Peracino
(Vice President and Member of Scientific Committee)
Giovanni Lorenzini (Medical Science Foundation, Milan, HoustonTX)

11.30 am to 13 pm

Special Lectures

Cesario Bellantuono
Professor of Psychiatry, University of Ancona
"Lights and shadows in psychiatric therapy"
Avi Peled
Chair of Dept SM, Mental Health Center
Lecturer Technion Israel Institute of Technology
"Clinical brain profiling, a future diagnostic system for psychiatry"

THE BIOMOLECULAR APPROACH TO PSYCHIATRY

2.30 to 3.50 pm

Chairperson

Antonio Federici
Professor of Human Physiology
Dept. of Biomedical Sciences and Human Oncology
University of Bari

Giuseppe Caramia
Professore Emerito di Pediatria Ospedale Salesi, Ancona

Mark Rasenick
Professor of Psychiatry
Director, Biomedical Neuroscience Training Program
Department of Physiology & Biophysics, College of Medicine, University of Illinois, USA
"Quantitative psychiatry: a future in psychiatry"

Massimo Cocchi
Professor of Nutrition Biochemistry
Institute "Paolo Sotgiu" For Quantitative and Evolutionary Psychiatry and Cardiology

Lucio Tonello
Professor of Bio-Mathematical Sciences
Faculty of Human Sciences
L.U.de.S. University, Lugano, Switzerland
"How mathematics can inform the diagnosis of mood disorders"

Alessandra Bordoni
Professor of Biochemistry & Human Nutrition
Department of Food Sciences
Faculty of Agriculture, University of Bologna
"Brain Food"

Johanna Assies
Professor of Psychiatry
Department of Psychiatry, Academic Medical Center
Meibergdreef 5, Amsterdam, The Netherlands
"Fatty acids and mood disorders"

MOLECULAR CHANGES IN MOOD DISORDERS RESULTS OF THE MARCHE REGION SPECIAL PROJECT

16 to 17.15 pm

Project Coordinator: Prof. Franco Canestrari
Scientific Project Leader: Prof. Massimo Cocchi

Clinical Aspects

Dott. Raimondo Venanzini, Dott.ssa Raffaella Silvestri
Blood Chemistry Analysis
Dott. Massimo Valentini
Markers of Oxidative Stress
Dott. Serena Benedetti, Dott. Maria Chiara Tagliamone
Platelet Membrane Markers
Prof. Anna Rita Mastrogiacomo, Dott. Valerio Marconi,
Dott. Sabina Bucciarelli, Prof. Mark Rasenick
Gene Expression
Prof. Maria Stella Colomba, Prof. Armando Gregorini

SATURDAY, MARCH 31, 2012

- 9 to 12 am Quantum Paradigms of Psychopathology (QPP Symposium)
- 2 to 4 pm **Massimo Pregnotato**
Chairperson, QPP Group
Mansoor Malik
Corresponding Secretary, QPP Group
Keynote Address
Gordon Globus
Professor Emeritus of Psychiatry and Philosophy,
University of California at Irvine, USA
"Mal-attunement in schizophrenia"
Ursula Werneke
Associate Professor of Psychiatry, Department of Psychiatry,
Umeå University and Sunderby Hospital, Luleå, Sweden
"Psychiatry and reality - perception of matter or matter of perception?"
Donald Mender
Lecturer in Psychiatry, School of Medicine, Yale University, USA
"Modes of dissipation: the green episteme and its not-so-green psychopathologies"

Special Lecture

Efstratios Manousakis
Professor of Physics, Florida State University
"Describing the psycho-physical dynamics of perception using quantum formalism"

Mansoor Malik
Assistant Professor of Psychiatry, Howard University, USA
"Paradigm shifts in mental illness"

Paavo Pyllkanen
Associate professor in philosophy at Skövde University College
Quantum mind, rainforest realism and the implicate order

Gustav Bernroider
Associate Professor of Neurobiology,
University of Salzburg, Austria
"Neural correlates of higher level brain functions"

Jack Tuszyński
Professor and Allard Research Chair, Department of Physics, University of Alberta, Canada
"Is there a rationale for designing new psychiatric drugs?"

Massimo Pregnotato
Professor of Medicinal Chemistry, University of Pavia
"The role of microtubules in psychopathology"

Concluding remarks: Eliano Pessa and Paola Zizzi