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## Quantum Paradigms of Psychopathology (QPP) Group Second International Symposium

### **MINDS, MEMBRANES, MICROTUBULES, AND MADNESS: CURRENT PROGRESS IN QPP-RELATED RESEARCH** *Molecular and Quantum Approaches to Psychopathology. An Interdisciplinary Dialog with Psychiatrists*

April 26<sup>th</sup>-27<sup>th</sup>, 2013  
Palermo, Italy

Venues:

April 26<sup>th</sup>: Sala delle Capriate, Palazzo Steri, Piazza Marina 61.  
April 27<sup>th</sup>: Villa Malfitano "Whitaker", Via Dante 167.

**Special Guest:**

**Kary Mullis, Nobel Laureate**

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QPP Scientific Program Committee Chair Founder, Quantumionet  
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Professor of Psychology and Behavioral Neuroscience,  
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**Paola Zizzi**, Ph. D.

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qpp

quantum paradigms of psychopathology

April 26<sup>th</sup>, 2013

Venue: Sala delle Capriate, Palazzo Steri, Piazza Marina 61, Palermo, Italy

**4:00 p.m.: Official Welcome**

Roberto Lagalla, Rector of the University of Palermo

Salvatore Amato, President of the Council of Physicians of Palermo

Giuseppe Amodei, Chief of Regional Agency for Students' Rights, Palermo  
Giuseppe Mogavero, Mayor of Isnello (Palermo)

Giovanni Zummo, Director of the Department BIONEC, Univ. of Palermo

Bartolomeo Sammartino, President of IEMEST, Palermo

Manuela Di Martino, President of LUdeS University, Lugano, Switzerland

Massimo Cocchi, Director of "Paolo Sotgiu Institute", Lugano, Switzerland

**Introduction to the Meeting:**

**Kary Mullis, Nobel Laureate**

**4:30 p.m., FIRST SESSION: PHILOSOPHY, THEOLOGY AND PHYSICS**

**Chairpersons:**

**Daniele La Barbera**, Director of Psychiatric Unit, BIONEC Department,  
University of Palermo, Italy

**Massimo Cocchi**, L.U.de.S. University, Lugano, Switzerland & University  
of Bologna, Italy

**Keynote Address:**

**THE CUNNING OF THE OBSERVABLE**

**Donald Mender, M.D., F.A.P.A.**

*Professor of Psychiatry, L. U. de S. University, Lugano, Switzerland*

*Lecturer in Psychiatry, Yale University, USA*

**5.00 p.m.: ORTHOTES AS METAPHYSICAL VIOLENCE. MAJOR DEPRESSION  
AND BIPOLAR DISORDER: FROM IDEOLOGY TO BIOLOGY**

**Fabio Gabrielli**, *Professor of Philosophical Anthropology,*

*L.U.de.S. University, Lugano, Switzerland*

**5:30 p.m.: A DIALOGUE BETWEEN ETHICS AND NEUROSCIENCE**

**Michele Aramini**, *Professor of Moral Theology, Catholic University, Milan,  
Italy*

**6:00 p.m.: NEW DEVELOPMENTS IN QFT MODELING OF THE BRAIN AND  
LIVING MATTER**

**Giuseppe Vitiello**, *Professor of Theoretical Physics, University of Salerno,  
Italy*

**6:30-7:00 p.m.: General Discussion**

**7:30: Conclusions**

April 27<sup>th</sup>, 2013

Venue: Villa Malfitano "Whitaker", Via Dante 167, Palermo, Italy

**9:00 a.m.: SPECIAL LECTURE**

**Chairperson: Paolo Castrogiovanni**, Past Professor of Psychiatry, University of Siena, Italy

**Claudio Mencacci**, Head of Psychiatry, Fatebenefratelli Hospital, Milan, Italy - President of the Italian Society of Psychiatry: **WHAT'S RIGHT AND WHAT'S WRONG IN PSYCHIATRY?**

**10:00 a.m., SECOND SESSION: BIOMOLECULAR AND QUANTUM APPROACHES TO PSYCHIATRY**

**Chairpersons:**

**Massimo Pregnotato**, QPP Scientific Program Committee Chair; Founder, Quantumbionet; Professor of Medicinal Chemistry, University of Pavia, Italy

**Mansoor Malik**, QPP Corresponding Secretary, Section Editor for QPP, NeuroQuantology Journal; Professor of Psychiatry, Howard University, USA

**Introductory lecture:**

**Gordon Globus**, Professor Emeritus of Psychiatry, Professor Emeritus of Philosophy University of California at Irvine, USA: **A QUANTUM BRAIN THEORY OF DREAMS**

(Open bar for coffee break from 10.15 a.m. to 11.15 a.m.)

**Special guests' talks**

**11:00 a.m.: Efstratios Manousakis**, Professor of Physics, Florida State University, USA:

**FOUNDING OUR MATHEMATICAL DESCRIPTION OF OUR PERCEPTION OF NATURE ON THE PROPERTIES OF CONSCIOUSNESS**

**11:30 a.m.: Mario Rasetti**, Professor of Theoretical Physic Models and Mathematical Methods, Politecnico di Torino, Italy: **A QUANTUM LIFE MODEL**

**12:00 p.m.: Mark Rasenick**, Professor of Psychiatry Department of Physiology & Biophysics, College of Medicine, University of Illinois, USA: **G PROTEINS AND LIPID RAFTS AS REGULATORS OF BOTH MICROTUBULES AND MOOD**

**12:30 p.m.: Andy Marlow**, UK: **A QUANTUM PSYCHOPATHOLOGICAL ACCOUNT OF ANOREXIA NERVOSA**

**1:00 p.m.: Lunch Break**

**2:00 p.m.: THIRDESESSION: ROUND TABLE OF QPP GROUP.**

**Chairperson: Massimo Pregnotato**, QPP Scientific Program Committee Chair Founder.

**Gustav Bernroider**, Professor of Biology, Neurosignaling Unit, University of Salzburg, Austria: **NEURAL D-SEPARATIONS AND TRANSIENT BRAIN DYNAMICS: UNRAVELING THE CAUSAL CHAIN FROM BRAIN SPACE TO MIND**

**Massimo Cocchi**, QPP Treasurer - Director, Institute "Paolo Sotgiu" L.U.deS. Univ., Switzerland; Professor of Nutritional Biochemistry, University of Bologna, Italy: **CONSCIOUSNESS FROM ANIMALS TO HUMANS: QUANTUM AND MOLECULAR PATHWAYS**

**Mansoor Malik**, QPP Corresponding Secretary, Section Editor for QPP, Neuro-Quantology Journal; Associate Professor of Psychiatry, Howard University, USA: **PARADIGM SHIFTS IN MENTAL HEALTH**

**Eliano Pessa**, Department of Behavioral and Brain Sciences, University of Pavia, Italy: **TOWARDS AN INTEGRATED MODEL OF CYTOSKELETAL QUANTUM DYNAMICS**

**Massimo Pregnotato**, Professor of Medicinal Chemistry, University of Pavia, Italy; **Ignazio Licata**, Director, Institute for Scientific Methodology: **QUANTUM LOGIC, THE COLLECTIVE UNCONSCIOUS AND THE BIOLOGICAL BASIS OF PSYCHOPATHOLOGY**

**Paavo Pylkkanen**, University Lecturer in Theoretical Philosophy, University of Helsinki, Finland: **PSYCHOPATHOLOGY IN LIGHT OF THE ONTOLOGICAL INTERPRETATION OF QUANTUM THEORY**

**Lucio Tonello**, Professor of Biomathematical Sciences, L.U.deS. University, Switzerland: **STREAM OF CONSCIOUSNESS: QUANTUM AND BIOCHEMICAL ASSUMPTIONS REGARDING PSYCHOPATHOLOGY**

**Jack Tuszyński**, Professor and Allard Research Chair, Division of Experimental Oncology, Cross Cancer Institute, Canada: **TOWARDS NANONEUROSCIENCE: THE POTENTIAL OF NANOTECHNOLOGY FOR THE TREATMENT OF NEUROLOGICAL DISORDERS**

**Ursula Werneke**, Professor of Psychiatry, Umea University, Sweden; Consultant Psychiatrist, Director of Postgraduate Education, Sunderby Hospital, Sweden: **INTUITION - COUNTERINTUITION AND MEDICAL JUDGEMENT**

**Paola Zizzi**, Institute Paolo Sotgiu, L.U.de.S. University, Switzerland: **THE MIND AND THE QUANTUM**

**5:30 p.m.: Conclusions**



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