



The 6th **qpp** Meeting
Quantum Paradigms of Psychopathology

**Department of Veterinary Medical Sciences
Alma Mater Studiorum
Aula Messieri
Via Tolara di Sopra 50, 40064 Ozzano dell'Emilia, Bologna**

Evolution, Space, Hibernation & Gut Bacteria

***"Biological consciousness"
A journey from Bacteria to Animals and Humans***

Friday, June 16, 2017, 3 pm

Saturday, June 17, 2017, 9.30 am

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Welcome of the Academic Authorities
Maria Laura Bacci & Pier Paolo Gatta

Evolution, Space, Hibernation & Gut Bacteria
Fabio Gabrielli & Matteo Cerri

Introduction to the theme between Philosophy and Anthropology
“Paolo Sotgiu” Institute for Research in Quantitative & Quantum
Psychiatry & Cardiology, LUDES HEI, Malta
Department of Biomedical and NeuroMotor Sciences of the University of Bologna, Italy

Hannah Carey
“Building the Microbiome into the Hibernator Metabolic
Phenotype” Department of Comparative Biosciences, University of
Wisconsin

Ted Dinan & John Kelly
Melancholic Microbes: understanding the gut-brain relationship
Department Psychiatry University College Cork

Chiara Minuto
Membrane, Cholesterol and Linoleic Acid: A Milestone in Brain Evolution?
From Bacteria, Fungi and Plants to Animal and Human Beings

Andrea Maglioni
Gut Microbiota and Probiotic Strategy

Saturday, June 17, 2017, 9.30 am

**"Biological consciousness"
A journey from Bacteria to Animals and Humans**

Fabio Gabrielli

Introduction to the theme between Philosophy and Anthropology
"Paolo Sotgiu" Institute for Research in Quantitative & Quantum
Psychiatry & Cardiology, LUDES HEI, Malta

Contzen Pereira & J. Shashi Kiran Reddy

Understanding the emergence of microbial consciousness:
From a perspective of the subject-object model (SOM)
Nandadeep, 302, Tarun Bharat Soc, Chakala, Andheri (East), Mumbai 400 099, India

Massimo Cocchi & Attilio Accorsi

Consciousness between Animal & Human

Lucio Tonello & Jack Tuszynski

Stream of Consciousness

Giovanna Traina

Mast Cells and Brain

Department of Pharmaceutical Sciences, University of Perugia, Italy

Saturday, June 17, 2017, 3 pm

Molecular Substrates of Consciousness and Mood

Massimo Cocchi, Mark Rasenick, Jack A. Tuszynski, Gustav Bernroider

Massimo Cocchi: Cell membrane: cholesterol, linoleic acid and temperature

Gustav Bernroider: Membranes, mirrors and feelings: On a functional role of
chirality and molecular sense relations for conscious experience.

Jack Tuszynski: Possible existence of optical communication channels in the brain

Mark Rasenick: Cellular Dynamics of Depression and Antidepressants

Andrea Maglioni

Gut Microbiota and Probiotic Strategy

Guest of the Meeting: Christine Castellitto, Marcello Romeo, Luciano Lozio

This conference addresses with scientific personalities one of the most sensitive issues now emerging in the evaluation of those aspects which distinguish the difference between men and animals compared to the state of consciousness, that is self-awareness.

They will discuss the most current scientific theories that see in molecular link between the main cell structures (cytoskeleton, Gsa protein, cell membrane and ion channels) the ability to interpret the conscious phenomenon.

The Meeting will highlight the critical points that recently made it possible to hypothesize as linoleic acid can be the most critical element in the fatty acid composition of cell membranes of the brain in certain pathological dynamics and, possibly, its role as the key that unlocks the quantum brain.

It will also be dealt with the logic correspondence between human and bacterial cell with regard to the basic and common aspects of the defense mechanisms.

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