



BIOELECTROMAGNETICS SECTION <https://www.cirps.it/sez-bem/>

BIOMET SECTION <https://www.cirps.it/sez-biometeo/>

COHERENCE 2025

**ON THE ROLE OF COHERENT QUANTUM
ELECTRODYNAMICS IN MEDICINE 26 years later**

<https://www.iiimb.me/files/02-Giuliano-Preparata.pdf>

Remembering Massimo Scalia https://it.wikipedia.org/wiki/Massimo_Scalia
Roma, (27 maggio 1942 – Roma, 11 dicembre 2023)

Rome

Thursday 11 December 2025

3:00 PM - 8:00 PM Zurich time in Presence and On Line

Invited speakers among others

Mariano Bizzarri (Rome 1), Giovanni Ettore Gigante (Roma 1), Konstantin Apykhtin (Kiev), Madan Thangavelu (Cambridge), Giuseppe Vitiello (Salerno), Yogendra Srivastava (Perugia/Boston), Larissa Brithz (Kiev), Vincenzo Vespri (Florence), Germaine Cornilleussen (Minneapolis), Federico Faggin (USA), Victor Koledov (Moscow), Svetlana Von Gratoski (Moscow), Luca Gamberale (Milan), Jerome Benveniste (Paris), Luigi Campanella (Rome 1), Pasquale Avino (Unimolise), Svetlana Rogaceva (Saratov), Alexander Trofimov (Novosibirsky), Boris Vladimirov (CAO Sinferopole), Elena Chuyan (UniSinferopole), Flavio Fontana (Milan), Renata Mele (Rome), Milly Moratti (Milan), Giorgio Parisi (Rome), Brian Josephson (Cambridge), Ubaldo Mastromatteo (Milan), Odoardo M. Calamai (CIRPS Rome), Francesco Celani (LNF-INFN), Fabio Del Frate Roma2, Massimo Sperini (Rome 2), Renata Mele (Rome), Graziano Mileto (UniReggio Calabria), Konstantin Koroktov (San Petersburg), Massimo Sperini Roma 2, Fabio Del Frate ((Roma2), Gianni Mattioli (Roma1), Alberto Carpinteri (Politecnico Torino), Francesco Sicurello (Bicocca Milan), Vincenzo Valenzi (CIRPS Prato), Foad Aodi (AMSI Roma), Stefano Murace (Rome), Giulio Tarro (Naples), Giulio Illuminati (Roma 1), Vincenzo Naso (Roma1), Sergio Costa Camera Deputati, Mauro Paissan, Ermete Realacci.

Information & Registration:

vinvalenzi@gmail.com Tel./ WA +39 331 13 14 801 madan.thangavelu5@gmail.com Tel./WA +44 7830300720

MATERIALS FROM COHERENCE 2020/24

<http://www.iiimb.me/atti-di-coherence2020.html>

<https://www.iiimb.me/coherence-2021.html>

THE CRISIS OF THE DOSE PARADIGM AND THE NON-LINEAR INTERACTIONS: THEORETICAL AND APPLICATIVE DEVELOPMENTS OF THE EXPERIMENTS OF JACQUES BENVENISTE

<https://www.nature.com/articles/333816a0>

Some considerations on 26 years of COHERENCE

The "COHERENCE" Conferences on THE ROLE OF Q.E.D. IN MEDICINE was initiated by two physicists, late Professors Giuliano Preparata (10 March 1942, Padua – 24 April 2000, Frascati) and Emilio Del Giudice (1 January 1940, Naples – 31 January 2014, Milan). The two physicists shared a common passion, namely, the subtle in physics and biology: the unresolved issues of the subtle in physics and biology, the expressions of the subtle in the physics-biology interplay and expression of the subtle at the interfaces where physics and biology interplay. The first COHERENCE conference 20 years ago and the events since were held in Italy's prestigious and famous Sapienza Università di Roma, The Sapienza University of Rome (founded 1303). Noteworthy was the 2002 Conference in honour of Giuliano Preparata held in the Rector's Conference Room, with, a Keynote presentation by Jacques Benveniste.

The Benveniste Nature publication of 30 June 1988 continues to be one example of high controversy in the science of the subtle, and the subtle in physics and biology and its interfaces. The controversies raised by this paper remain unresolved three decades and more after publication. The reception offered soon after publication and the manner of events that followed this divided the scientific community, widened further the differences between the followers and the sceptics of homeopathy; the phenomenon seems today to have a common pharmaco-electro-dynamic mechanism with the mode of action of allopathic drugs. The wounds from 1988 are still fresh in the scientific community and the mysteries and the question of the memory of water and its applications continues to draw immense attention, criticism and prejudiced outcry. Water, the very material foundation of Life, remains a poorly understood phenomenon and continues to pose one of the stiffest challenges at the frontiers of science.

The JACQUES-BENVENISTE AWARD was established by the Association Jacques Benveniste pour la Recherche in 2007 in the context of the International Conference on Cosmos and Biosphere, held every two years in Crimea, with the aim of recognizing the best work on life science and water. Scientists at the highest academic levels in the great universities worldwide both in the West and in the East who are working at the frontiers of science contend for the JACQUES-BENVENISTE AWARD. Events in the recent past have prevented the award of the prizes, including opportunities presented at the most recent editions, 2017 & 2019, of the Crimean COSMOS & BIOSPHERE Conferences. COHERENCE 2020 in Rome, 12 March 2020, provided the opportunity to present the outstanding awards.

The 2020 COHERENCE conference was also an opportunity for the Scientific Community to gather and exchange ideas, theories and experiments and to find ways to overcome the unfortunate walls and divisions within the sciences about water and also other areas of science and also between ideologies, the state and policy and more. The conference will bring together men and women in their common efforts on some controversial topics of strategic interest in the Life Sciences and Public Health.

The link between AYUSH tradition and Modern Science

Does science have limits? Where does order come from? Can we understand consciousness? Written by Nobel Laureate Leon N. Cooper, this book places pressing scientific questions in the broader context of how they relate to human experience. <https://www.cambridge.org/gb/academic/subjects/physics/history-philosophy-and-foundations-physics/science-and-human-experience-values-culture-and-mind?format=HB>

Advent of a Link between Ayurveda and Modern Health Science: The Proceedings of the First International Congress on Ayurveda, "Ayurveda: The Meaning of Life—Awareness, Environment, and Health" March 21-22, 2009, Milan, Italy <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2958631/>

Some contradictions in the 2° principle of thermodynamics negentropy and syntropy. <https://www.mauriziovignati.com/global-warming/>

Find more data and analysis also on the book of Ubaldo Mastromatteo
<https://www.booksprintedizioni.it/libro/saggistica/scientificamente-parlando>

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Materials on Vector Potential

From Puthof's Patent⁵⁸⁴⁵²²⁰

" with advent of quantum theory, however, the traditional picture change. In the prior art literature, the (vector and Scalar potentials A and Φ) formalism has emerged as more fundamental because it predicts certain quantum interference effects that have been observed and are not apparent from the (E, B) approach. This difference was first set forth in an unequivocal way in a seminal 1959 paper by Aharonov and Bohm, entitled Significance of electromagnetic potential in the quantum theory" Physical Review 1959 and 1961.

- *In these papers it is shown that in certain two-leg electron-interferometer configuration in which the potential A and Φ are established in a region of space, but B and E are absent. It is nonetheless possible for the potentials A and Φ induce changes in electron quantum interference patterns.*
- *That is, electron that are in an electromagnetic field-free region and therefore do not encounter an electric or magnetic field are nonetheless acted upon by the presence of the A and or the Φ potentials.*
- *Such an effect is now referred to broadly as a Aharonov-Bohm effect, and device have been built which demonstrate this effect in laboratory. For a recent overview, see, Y Imry and R. A. Webb, "Quantum interference and the Aharonov-Bohm effect" Scientific American" 260 (April 1989).*
- *A second quantum interference effect demonstrate the independent reality of the (A, Φ) potentials in the absence of the (E, B) fields (and one which is significant for the technology disclosed by Puthof) is a single-leg electron interferometer effect known as the Josephson effect; see R.P. Feynman, The Feynman Lectures on Physics 1965) The Josephson effect is based on the fact that the current density J through a Josephson Junction (which consist of two superconductors separate by a thin insulator) is determined by the magnitude of the potential A and Φ , independent of whether E or B are present.*

- INFLUENCE OF A VECTOR POTENTIAL ON A HIV REPRODUCTION IN T-LYMPHOCYTES IN VITRO
Pokidysheva L.N., Trukhan E.M., Titova I.V., Miller G.G.

Abstract

The examination of a field free vector potential (VP) influence on HIV reproduction in a T-lymphocytes in vitro is presented. Two variants of the tissue culture cells, infected by HIV were used: a human peripheral blood Tlymphocytes (PBL) and a human T-lymphoblastoid cell line MT4. The cultures were exposed to a VP during 0,5 and 1,0 hour before or after they were infected by 100 units per cell of a lymphotropic strain of HIV(R5/LAV-1).

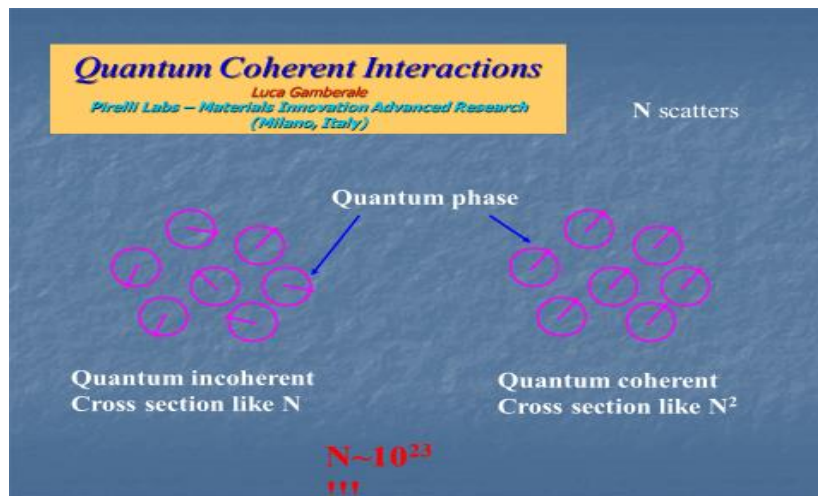
- *Some effect of a VP on the mentioned above biological systems was revealed.* Some distinctions of cell proliferation index (PI) between the PBL and MT4 were found. Slight increase of PI in PBL may be conditioned by wide presentation of signal Toll-2 (IL-1) receptors on the cell surface, which induce the expression of early dividing genes, whereas they are very rare on the surface of MT4 cell line. However, the viral pathogenicity was higher in aMT4 cell line. The phenomena required subsequent evaluation.
- *Yalta 2008*

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Giuliano Preparata & Emilio Del Giudice on Potential Vector

The Potential Vector extends to a nearby large area, without transporting energy but just information, exerting a "fine influence", we could say "informatica", that alters the phase of the present coherent systems. (Scienza e Conoscenza, 17/2006)



Extremely Low Frequency Ion Cyclotron Resonances on the Surface Boundaries of Coherent Water Domains

Allan Widom, Jhon Swain, V.I. Valenzi <https://iopscience.iop.org/article/10.1088/1755-1315/853/1/012024>

Conclusion This work need more development in fundamental physics, and open to a new understanding of many strange biological phenomena, in particular not linear phenomena that influence, ad example mind brain body connections, effects of transdermic drug, that are without chemical reactions, as also very low dosis of drug, far from concentration in blood in the Benveniste Experiment. Bioelectrical function seems play a key role, not only in heart, with ECG, but also in all internals organs, that seems governed by electrical state of meridians connected, that change their electric parameters in answer to any kind of strong and very low signals as showed in the article and in the review by Scalia Valenzi et coll.

<http://ibb.kpi.ua/article/view/140255> .

<http://www.iiimb.me/files/5-06-05-20-PotentialVector--MeridiantechTROISI-F.pdf>

5 Conclusions

The Bohm and Aharonov results can have applications in biological systems. Drug delivery could be revolutionized, because if some damaged tissues could feel the presence of molecular signals of drug, whose information would be carried by the potential vector, these could be effective simply they would be effective simply if they were placed in contact with the human body skin, without the need to be ingested. In addition, potential vector could carry some information about the presence of electromagnetic signals in meridians, which will be at the basis of meridian technology

MATERIALS AND CONTRIBUTIONS FROM COHERENCE AND OTHERS MEETINGS

<http://www.cimb.me/materiali.html>

<https://www.researchgate.net/scientific-contributions/Victor-Koledov-2144575168>

<https://www.ncbi.nlm.nih.gov/pubmed/11383509>

<http://www.22passi.it/downloads/biorisonanza/qeddefinitivo.pdf> L'ULTIMA CONFERENZA DI G. PREPARATA

<https://www.vglobale.it/?s=COHERENCE> REPORT ON COHERENCE

<https://www.vglobale.it/?s=Award+benveniste> REPORT ON AWARD BENVENISTE

<http://www.tcm.phy.cam.ac.uk/~bdj10/> Brian Josephson page

<https://www.iiimb.me/cifa.html> **cosmos and biosphere 2025**

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