



## 25 YEARS OF COHERENCE TOWARDS THE ECOLOGICAL TRANSITION

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### Introduction

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, -at the same time as the inauguration of the Benveniste Archives in Lugano with the active participation in the research of Luc Montagnier, see the Valenzi Montagnier talks in the margins of the conference <https://www.youtube.com/watch?v=CuQvjBuavI>

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

<https://www.vglobale.it/?s=award+Benveniste> 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>

Some development come also from 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 lines of research come also from clear contradictions in the 2° principle of thermodynamics negentropy and syntropy. <https://www.mauriziovignati.com/global-warming/>

### **Some light from the Powerful Role in Nature of Vector Potential**

Some clear notes from Puthof's Patent 5845220 could help us to better understanding:

"With advent of quantum theory, however, the traditional picture change. In the prior art literature, the (vector and Scalar potentials  $A$  and  $\Phi$ ) formalism has emerged as more fundamental because it predicts certain quantum interferer 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  $\phi$  are established in a region of space, but  $B$  and  $E$  are absent. It is nonetheless possible for the potentials  $A$  and  $\Phi$  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  $\Phi$  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 ( $A, \Phi$ ) 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  $\Phi$ , independent of whether  $E$  or  $B$  are present.

Another seminal work on INFLUENCE OF A VECTOR POTENTIAL ON A HIV

REPRODUCTION IN T-LYMPHOCYTES IN VITRO by Pokidysheva L.N., Trukhan E.M., Titova I.V., Miller G.G. presented by Edward Trukan in Yalta in 2008 (photos)

"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 T Lymphocytes (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.

A recent review on Potential Industrial application of Bohm-Arnonov & Benveniste-Montagnier effect by Victor Koledov & Svetlana Von Gratosky of Institute of Radio Engineering and Electronics Russian Academy of Sciences was introduced already in COHERENCE 2021 <https://www.iimb.me/files/04-presentation-vector-potential.pdf>

It's possible to see the video of this rich introduction to VP by Victor [https://www.youtube.com/watch?v=KsMZxTxVuGE&list=PLOymwT\\_Mo-UYzVcNXrazlMaSI6bi9Eh34&index=10](https://www.youtube.com/watch?v=KsMZxTxVuGE&list=PLOymwT_Mo-UYzVcNXrazlMaSI6bi9Eh34&index=10)

## **THE NEW TREND OF ARTIFICIAL INTELLIGENCE VERSUS HUMAN INTELLIGENCE IN THE LABYRINTH OF THE MIND IN THE WORKS OF THE AI CONFERENCE IN KIEV**

The article by researcher A. Bukalov is of the highest level but some passages are difficult understanding as technical and scientific notions are introduced both in the field of psychology and quantum mechanics. It is essentially a review of works already done by other scholars and by Bukalov himself, Works that are cited in a logical order and temporal with the aim of demonstrating or more correctly highlighting the strong analogies that exist between the construction processes of human thought and those of mechanics quantum.

The original report with some specialist consideration are in the special page on AI versus HI. In fact, in the dynamics of marketing we observe how quantum fashion emerges after green fashion. Yet eminent scientists in the last century have grappled with the complexity of life, of the mind of consciousness and of the mind-brain-body axis and not only in the PNEI, by the Austrian-Irish physicist Erwin Schrödinger in particular in his volume WHAT IS LIFE?

David Joseph Bohm, was an American–Brazilian–British scientist who has been described as one of the most significant theoretical physicists of the 20th century and who contributed unorthodox ideas to quantum theory, neuropsychology and the philosophy of mind. His research has been taken up by many groups, in particular in the activities of the Mind-Matter Unification Project of Professor Brian D. Josephson of the Theory of Condensed Matter Group of the Cavendish Laboratory, Cambridge (i.e. the Physics Department of the University of Cambridge)

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

This research led Sir John Eccles, in the 1970s, to a primitive attempt to use quantum fields in the study of synaptic functions which he had discovered a few years earlier. introducing the Theory of PSYCHONS which today appears to be the Tibetan bridge towards understanding Indian practices on disorders of the mind-body axis.

[http://www.siaecm.org/dolore/17\\_03\\_10\\_M\\_TIENGO\\_Dolore\\_Percezione\\_del\\_.htm](http://www.siaecm.org/dolore/17_03_10_M_TIENGO_Dolore_Percezione_del_.htm)

An electroquantum model for immunological intracellular interactions was developed by Jacques Benveniste, who in a parallel unknown to him, to the German research of Reinold Voll, Morel and Rash, developed technologies for the acquisition and recording of molecular signals and its use for diagnostics as developed over the last 15 years by Luc Montagnier Jamal Aissa and the Vitiello and Del Giudice group of physicists.

In this regard, Allan Widom introduced the BENVENISTE MONTAGNIER EFFECT, a biological manifestation of the Aharonov–Bohm effect.

Three works by Widom et al in recent years have placed the subject of biological memories on a solid scientific basis, but as can be read in the conclusions of Widom's latest work:

“This work needs 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 doses 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> “.

A Widom et al 2021 IOP Conf. Ser.: Earth Environ. Sci. 853 012024

<https://iopscience.iop.org/article/10.1088/1755-1315/853/1/012024>

## **THE ENIGMA OF INCREASE OF COHERENCE IN WATER WITH VERY LOW SIGNALS IN THE AYUSH AND MODERN MEDICINE DISCUSSED IN THE LAST COSMOS AND BIOSPHERE**

In the Indian medical tradition experiences with Chakra, and other AYUSH treatments (the latest being Dr. Deep Singh's Nadi Water activation), have revealed some interesting changes in some psychosomatic disorders such as insomnia, panic attacks etc. The mechanism of action of such fine and weak signals acting on the chakras, Nadi and water could be connected with a coherent activation of the systems and on the water. We have treated many anxiety states and panic attacks, increasing performance and well-being in professional artists, leaders, sportsmen and people with critical illnesses.

Measurements with EAV on meridians (energetic channels similar to the Nadis) show a 20/40% change in resistance in Ohms on the skin with correlated increase of the currents, of the electric power that seems to have a key role in the functions of the treated organs and systems as showed below.

Other measurements have been carried out with APEC on the electrical variations in response to modifications of the Chakras on the skin and others will be carried out in activated water SEE IN COMMUNICATION TO COHERENCE 2023 "New theoretical and experimental development about some peculiar water properties" M.Scalia, M. Sperini, F. Pulcini, A. Fantauzzi, L. Uhl, A. Pisani, M. Santilli CIRPS (Interuniversity Research Centre for Sustainable Development), Sapienza University of Rome <http://www.cirps.it/sez-bem/> .

It will be possible to test all the BAS (Active Biological Substances) to evaluate the coherent or incoherent interaction and evaluate the BIOCOMPATIBILITY of the BAS. Some clinical cases and theoretical basis of these phenomena in the link are reported in the link on clinical cases <https://www.cimb.me/casi-clinici.html> .

## **SOME FINAL CONSIDERATIONS ON THE FUTURE OF SCIENCE AND SOCIETY**

The main problem in the evaluations of the impact of complex factors, is in the difficult to find the biological substrate where their act. Just only for allergy to food and drug and others ABS (Active Biological Substances), we can recognize the immunoreaction with antigen antibody reaction and relate allergic phenomena till anaphylaxis diagnosticated with RAST and PRIST.

For the others influences as meteorological, electromagnetic, emotional and for food and drug intolerance, it's not clear where are the biological substrate as happens for oxygen baroreceptor for example. In the last 80 years many researches was carried about the substrate for e.m. and others anomalous influences on human system.

Dr Reynold Voll developed a bioelectrical device that measure resistance along Chinese meridians, that in his model are not a Ying Yang system but a bioelectrical system under Ohm Law. In fact with the Voll's Tester it is measured the Resistance in Ohm (“normal” value on 50 US correspondent to 95.000 Ohm. Variations of entropy seems strictly correlate to evolution of diseases, and could permit early diagnostics of bioelectrical status of organs pathology correlate with the Chinese meridians, in the same way with which EKG and EEG give diagnostics data for Heart and Brain status.

Theoretical development on Coherent Quantum Electrodynamics, water structure and function in biological systems, seems contribute to clear some phenomena that was classified out of Law of physics and banned by fundamental and applied activities in Public Researches as reported in the articles Some Observations on the Role of Water States for Biological and Therapeutical Effects Massimo Scalia, Pasquale Avino, Massimo Sperini, Valentina Viccaro, Albina Pisani, Vincenzo I.

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

It's of some interest read the conclusive remark of Work Group of FNOMCEO on these technologies for diagnostics of food intolerance:

"To the term of this short tracking shot on methods "Alternatives"(Tab.8.1) and their great spread of use, must do some reflections.—these methods not have ground works scientific proven, in bucking with there modern Medicine, where is it poor search for create paths diagnostic or therapeutic "EBM"; while being in use from years, without control in double blind that could show their effectiveness.

**Exist instead demonstrations of their ineffectiveness. (where !?) ndr**

The risk of a utilization indiscriminate of methodologies not proven, as self-diagnosis from part of the patient or from doctors not experts of the matter, can he to conduct to serious impact on health of the patient. think to example to the delay of grow of malnutrition in children that not they follow a correct supply self private of aliment fundamental, without really clinical indication; the failed recognition of a allergen dangerous for the life of the patient; yet worse, the risk of a delay diagnostic of diseases more serious, not recognized because considered "intolerances food " (Seine G.Bonadonna Petto the.;Riv.Imm.eAll.Pediatric,December2004.)

<file:///C:/Users/vinval/Desktop/FNOMCEO%20INTOLLERANZE%20.pdf> .

So while intolerance to food and other ABS, increase with the Iceberg of Chemical Multi Sensitivity, while the drug intolerance stay dangerously without no one diagnostics, while virus and bacteria in intracellular life are without a significative and useful detection, may be useful look to these controversial development in biotechnologies and bioinformatics using Ohm Law  $I=V \times I$ , Power Law  $W=V \times I$  that change with variation of resistance in answer to coherent or incoherent electromagnetic signals also very low, as in Zhadin Experiment, or in answer to quantum signal mediated by Vector Potential in Maxwell Equation  $B = \sim \times \sim A$  and try to implement them, testing and looking to validate their potential for diagnostics and also for a direct consequences of variations of entropy that could be used for early diagnostics and correlate precision personalized approach to therapy.

May it's time to develop serious theoretical experimental and RCT to give a scientific answer to the controversial question. We invite the Scientific Community to these efforts.

## References

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Some Observations on the Role of Water States for Biological and Therapeutical Effects Massimo Scalia, Pasquale Avino, Massimo Sperini, Valentina Viccaro, Albina Pisani, Vincenzo I. Valenzi

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

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/10.1088/1755-1315/853/1/01202>