

VIII International Symposium
"Modern Problems of biophysical medicine"
14-17 May 2014

*Some considerations on the
mechanism of climate effects on
health*

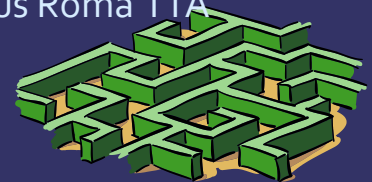
VI Valenzi¹, P- Avino², MV Russo³, M. Sperini⁴, M. Scalia⁴

¹Department of Integrative Medicine IURS/FUB Bellinzona (CH) Centro Studi di Biometeorologia onlus Roma I TA

²INAIL settore Ricerca, Rome (Italy), Centro Studi di Biometeorologia onlus Roma I TA

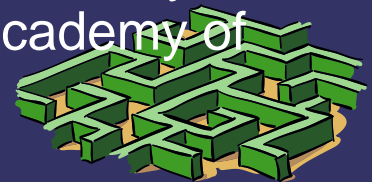
³Università degli Studi del Molise, Campobasso (Italy) Centro Studi di Biometeorologia onlus Roma I TA

⁴Centro Interuniversitario per lo Sviluppo Sostenibile Roma I TA



FROM IPPOCRATE TO BENVENISTE THE LONG TRIP OF MEDICINE

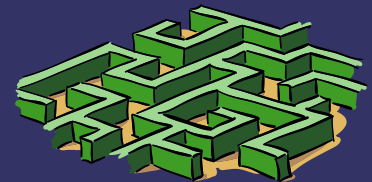
The history of medicine, from Ippocrate to later, teaches that Galeno usually sent respiratory sick patients to the sea. During the nineteen century, the climate therapy has been one of the milestone of therapy and rehabilitation from sickness, in particular for tuberculosis care based on sanatorium centres for climate therapy. The rise of antibiotic therapy implied the disappearing of this kind of therapy in Italy, but not in France, where the climate therapy, “le climatisme”, continues till today to maintain a large scientific presence and effectiveness and, in turn, remains one of the modern instrument and tools of the therapeutic media for the care of respiratory illness. In the case of tuberculosis, the antibiotics show new resistance and *climatisme* comes back actual in the therapy of the great disease, as showed in recent works by Kiev School of Beregosky, at Physiological Institute of Academy of Science of Ukraine.



METEOROSENSIVITY CRITICAL EVENTS AND THE ENIGMA OF THEIR MECHANISM

Many researchs show also that critical vascular events occur in the frame of weather perturbations with variations of air ionization (Messini, Avino, Scalia et al. to Coherence 2013 <http://goo.gl/I2Yxbk> and related articles and books), as confirmed by a lot of observations in emergency area in Florence .

The mechanisms are connected to air ionization and thermal and moisture influences, but nothing was never found on the biological substrate for meteorological, ionic and electromagnetic influences.



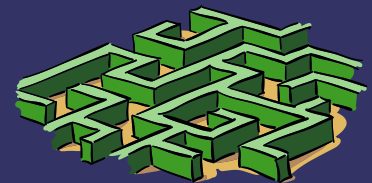
Classification of pollutants

Primary

- CO
- NO_x (95% NO, 5% NO₂)
- SO₂
- Composti Organici Volatili (Benzene, Toluene, ecc.)
- IPA
- Nanoparticelle
- PM1
- Radon, radioactivity...
 - gas e vapori
 - particelle

Secondary

- O₃
- NO₂, HNO₃, HNO₂
- Perossiacetilnitrato
- Formaldeide
- Nitroderivati Organici
- Nitrati
- Solfati



Riferimenti normativi

INQUINANTE		TIPO DI MEDIAZIONE	LIMITE	n° MAX SUPERI/ ANNO	SOGLIA DI ALLARME	ANNO DI RIFERIMENTO
SO2	Biossido di zolfo D.M. 60/02	media 24h	125 ug/m3	non piu di 3 volte per anno civile	media 1h >500 ug/m3	2008
		media 1h	350 ug/m3	non piu di 24 volte per anno civile	misurati su tre ore consecutive	
NO2	Biossido di azoto D.M. 60/02	media 1h	220 ug/m3	non piu di 18 volte per anno civile	media 1h >400 ug/m3	2008
		media anno civile	44 ug/m3		misurati su tre ore consecutive	
CO	Monossido di Carbonio D.M. 60/02	massima media mobile giornaliera su 8 ore	10 mg/m3			2008
C6H6	Benzene D.M. 60/02	media anno civile	7 ug/m3			2008
PM10	Materiale Particolato D.M. 60/02	media 24h	50 ug/m3	non piu di 35 volte per anno civile		2008
		media anno civile	40 ug/m3			
O3	Ozono D. lgs. 183/04	media 1h	180 ug/m3 soglia di informazione		media 1h >240 ug/m3 misurati su tre ore consecutive	2008
		massima media mobile giornaliera su 8 ore	120 ug/m3	non piu di 25 volte per anno civile (Obiettivo da raggiungere nel 2010)		2008



HYPERBARIC AND HYPOBARIC OXIGEN THERAPY

***What other mechanisms involving the stimulation of oxygen?
Free radicals, air ionization, electromagnetic quantum interaction?***

The history and present state in researches on the influence of oxygen on the basic life processes in humans and animals presented. A new valeological classification for biological effects of oxygen deficiency, that distinguishes the indifferent, sanogenic, pathogenic and abiogenic zone of hypoxic exposure was proposed. A special method for quantifying the degree of hypoxic influences elaborated. The main attention is paid to the state sanogenic hypoxia zone, that occurs in both - the physical work and stay in the mountains or breathing with the gas mixtures that reproduce the healing properties of mountain air. The changes in the activity of the respiratory, cardiovascular, autonomic and central nervous systems. The psychological and physiological features of the formation character and behavior of residents of the foothill and mountain areas were examined. Indications and contraindications for the treatment of pathological conditions in a natural mountain environment worked out (Vadim Berezowskii)



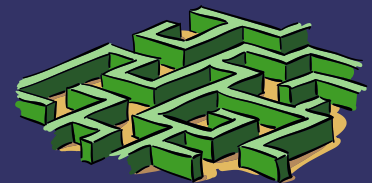
Treatment with Hyperbaric Oxygen (HBO) at the Karolinska University Hospital

FOKUSRAPPORT Summary & Recommendations

As a therapeutic modality, Hyperbaric Medicine edges closer to the mainstream of modern medical practice. Laboratory investigations support the firm physiological basis for the utilization of HyperBaric Oxygenation (HBO). Recently published controlled and randomized studies provide the much needed clinical validation for some of the HBO indications and have therefore been labeled “recommended” but many indications, especially in the field of surgery, lack sufficient randomized clinical studies and has been marked HBO indications “under investigation”.

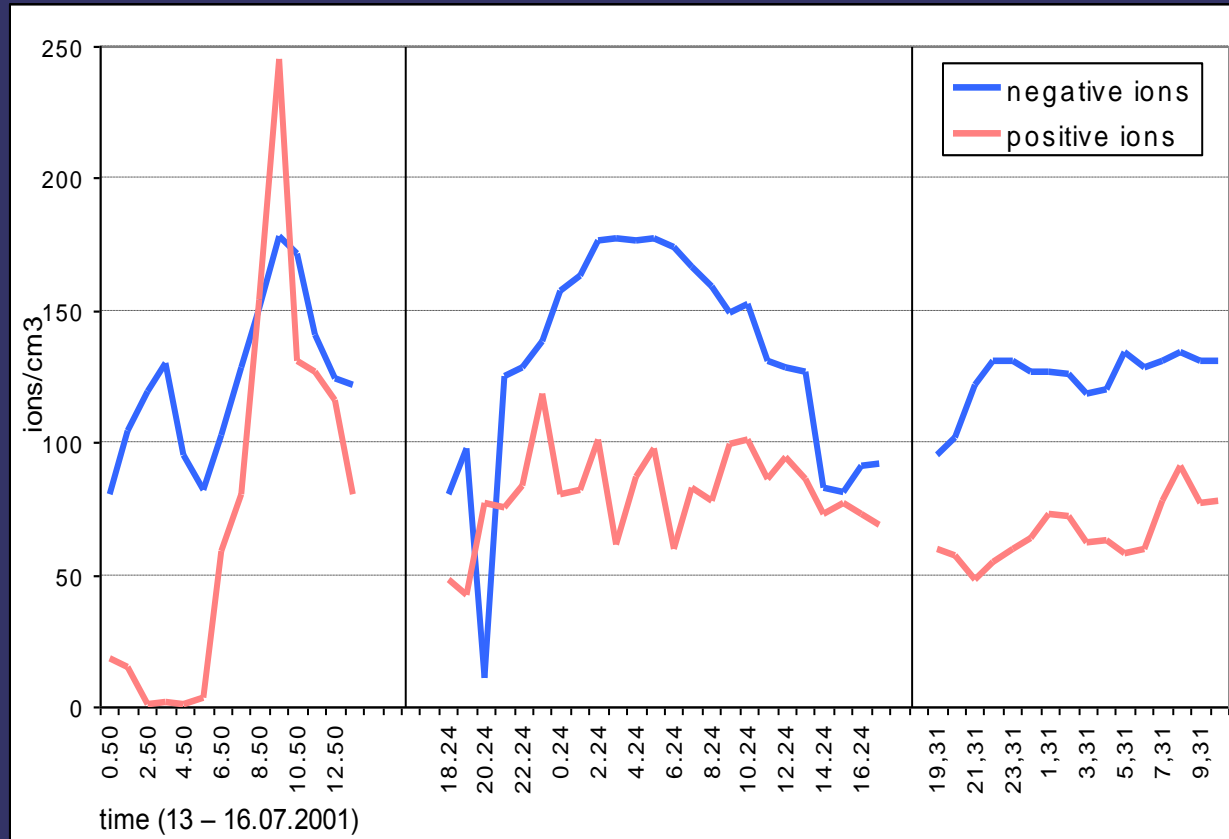
In this report it has been shown that there are several indications for treatment with HBO where sufficient evidence favors HBO in selected cases, either as a primary therapy or as part of a protocol including appropriate surgery, antibiotics etc.

Specialist referrals are compulsory and the diabetic foot patient should for example.



AIR IONIZATION

Another valuable parameter starting by Chyzhevsky



P. Avino, V. De Lisio, M.V. Russo, L. Lepore, G. Quartieri, G. Ciccotti, B. Messina, G. Monaco G. Spagnoli,
V.I. Valenzi, A. Fraioli
Inquinamento atmosferico e ionizzazione in due siti dell'Italia centrale.
G. It. Med. Lav. Erg., 26 (2004) 115-116.

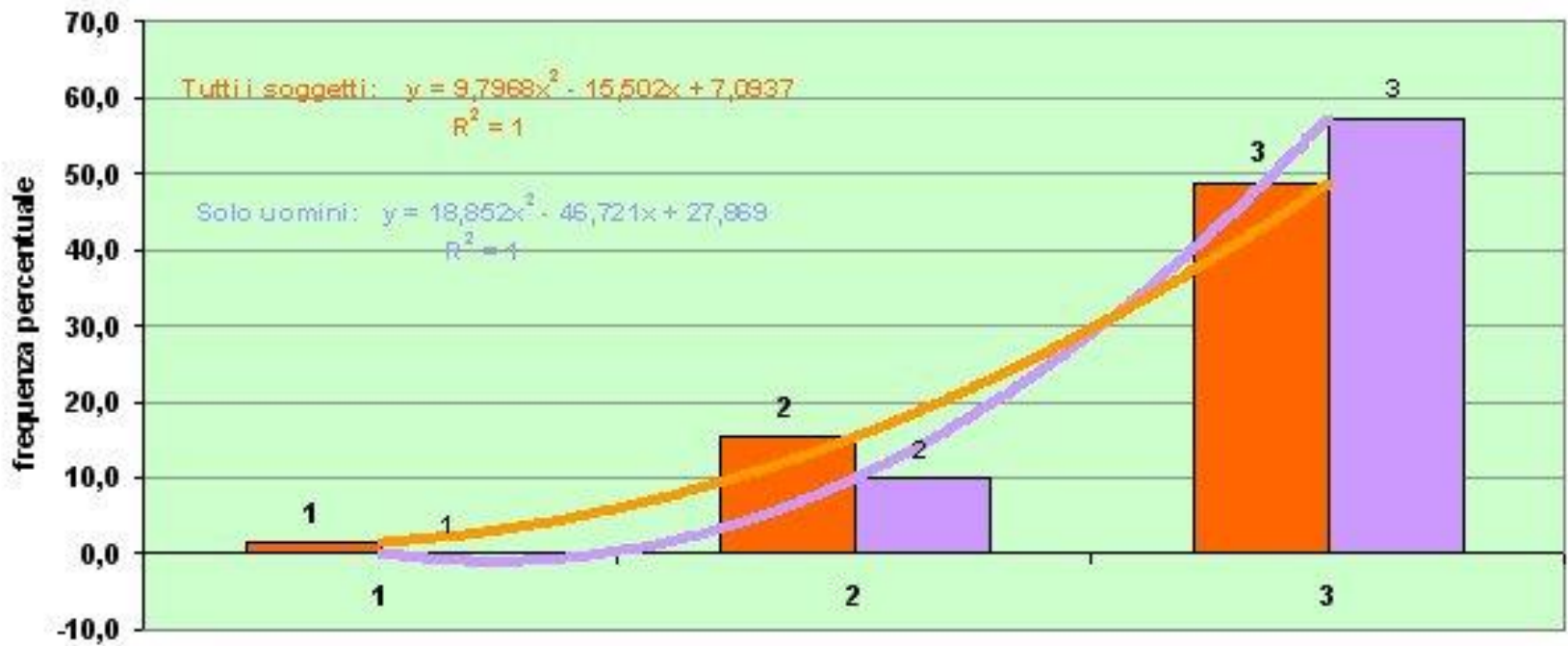


Ioni e percezione in differenti località

luogo	n ⁻ ioni	n ⁺ ioni	n ⁻ /n ⁺	ioni (K≥1) %	ioni (K<1) %	Ottimo (+++++) e peggiore (+) percezione
Campagna, sole, collina	306.7	251.6	1.21	88.0	12.0	+++++
Mare, quiete, no vento	436.7	354.4	1.23	84.7	15.3	+++++
Montagna 2000 m	560.3	602.5	0.92	92.0	8.0	+++++
Strada città no traffico	120.5	108.7	1.10	66.0	44.0	+++
Strada città con traffico	30.8	150.4	0.20	25.0	75.0	+
Valore medio	291.0	293.5	0.93	71.1	28.9	+++++ (3.6)
Dev. Standard	± 218.9	± 197.2	± 0.40	± 27.6	± 28.4	± + (1.6)



PAIN AND PERTURBATED WEATHER in old people in very fine environment



Dolori (1=miglioramento, 2=stazionario, 3= peggioramento)
serie arancione = tutti i soggetti
serie viola= solo uomini

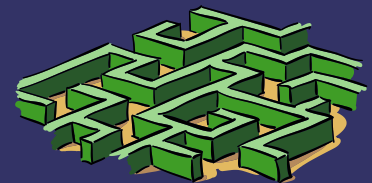


The Sensitive Bioelectrical System in Humans to meteorological factors and fields

A possible model could be represented by SEP (Skin Electric Parameters) that measure the Ohm resistance in the chinese meridian seen as circuits to variable resistance .

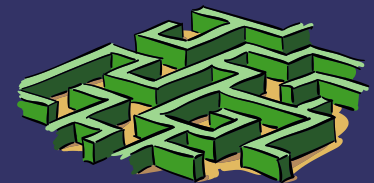
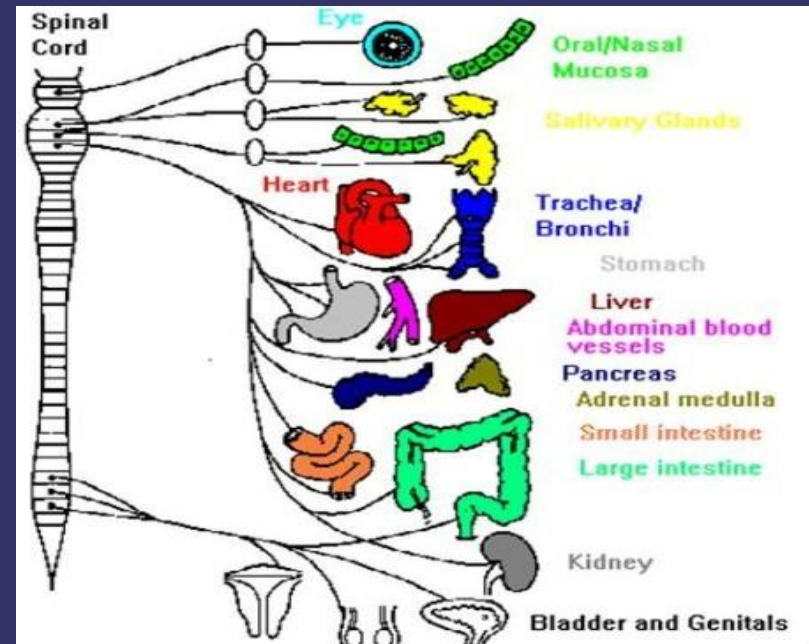
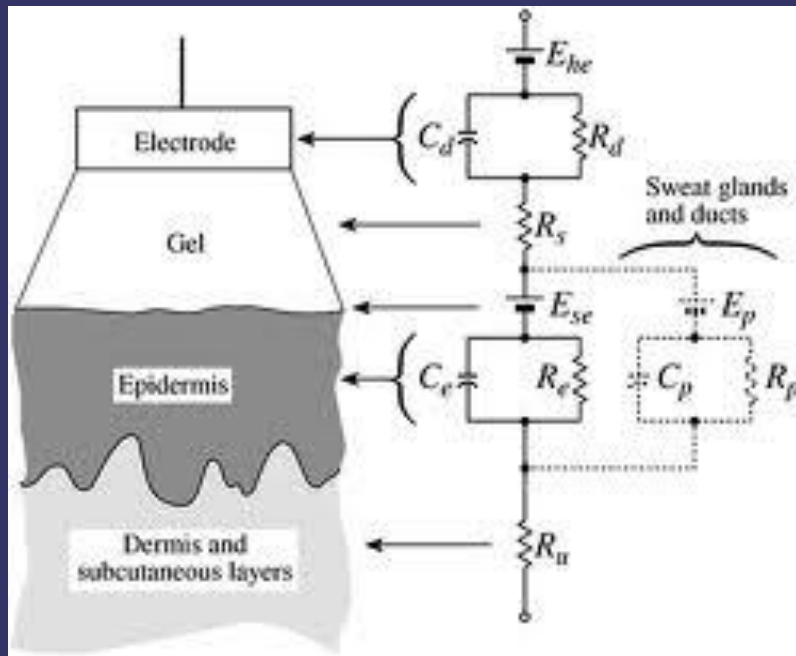
On these circuits, em signals inside and outside the body, or quantum fields, may be able to induce significant changes of the electrical resistance, as observed in some researchs on Meteoropathies in Spa Medicine, in pharmacoelectrodynamics ecc.

It seems indeed that the Ohm Law and em signal and quantum field could have a key role in general phisiopathology



Skin Equivalent Electric Circuit

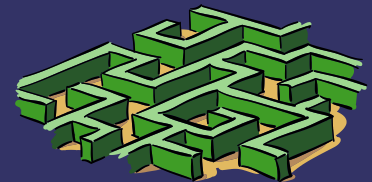
On these circuits (on chinese meridians), em signal inside and outside the body, or quantum fields, may be able to induce relevant modification of electric resistance connected with internal organ functions, diseases and therapy. We may be able to drive therapy on electrodynamic basis, with bioelectrical and dynamometric variations.



The substrate for meteorological, em and quantum signals seems to be the chinese meridian circuit.

The Ohm Law in Therapy and Biology

- Measures on meridians highlighted in subjects with meteoropathies and various pathologies, that the electrical resistance increased in physical electric circuits with a medium of about 43 scale unites of SEP corresponding to 130,000 Ω
- “Normal” level of resistance is 95.000 Ohm =50 us
- After the administration of a coherent therapy, we saw a resistance fall in medium at 39,000 Ω (70 us), with an improvement of bioelectric performance due to an increase of physical electric currents, in accordance with Ohm’s law, **$I = V/R$**
- Power in the biological system vary with **$W = V \times I$** , with functional correlations (performance status, immunological status, muscle power, pain, inflammation, allergy, dyspnea, etc.)



Health Subjects

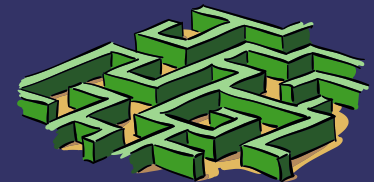
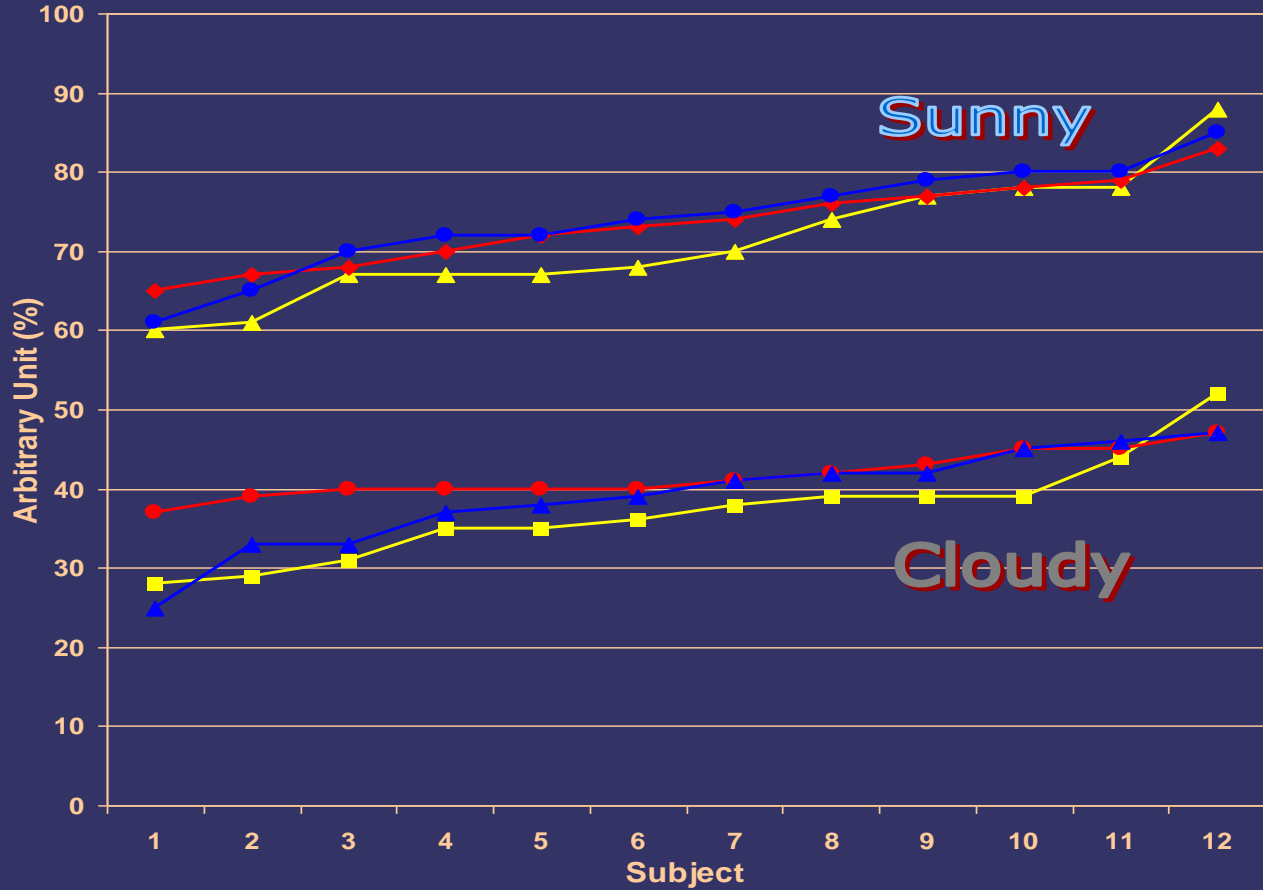
sunny days 70 K Ohm, Cloudy 130 K Ohm in bioelectric circuit (meridians)

Ohm

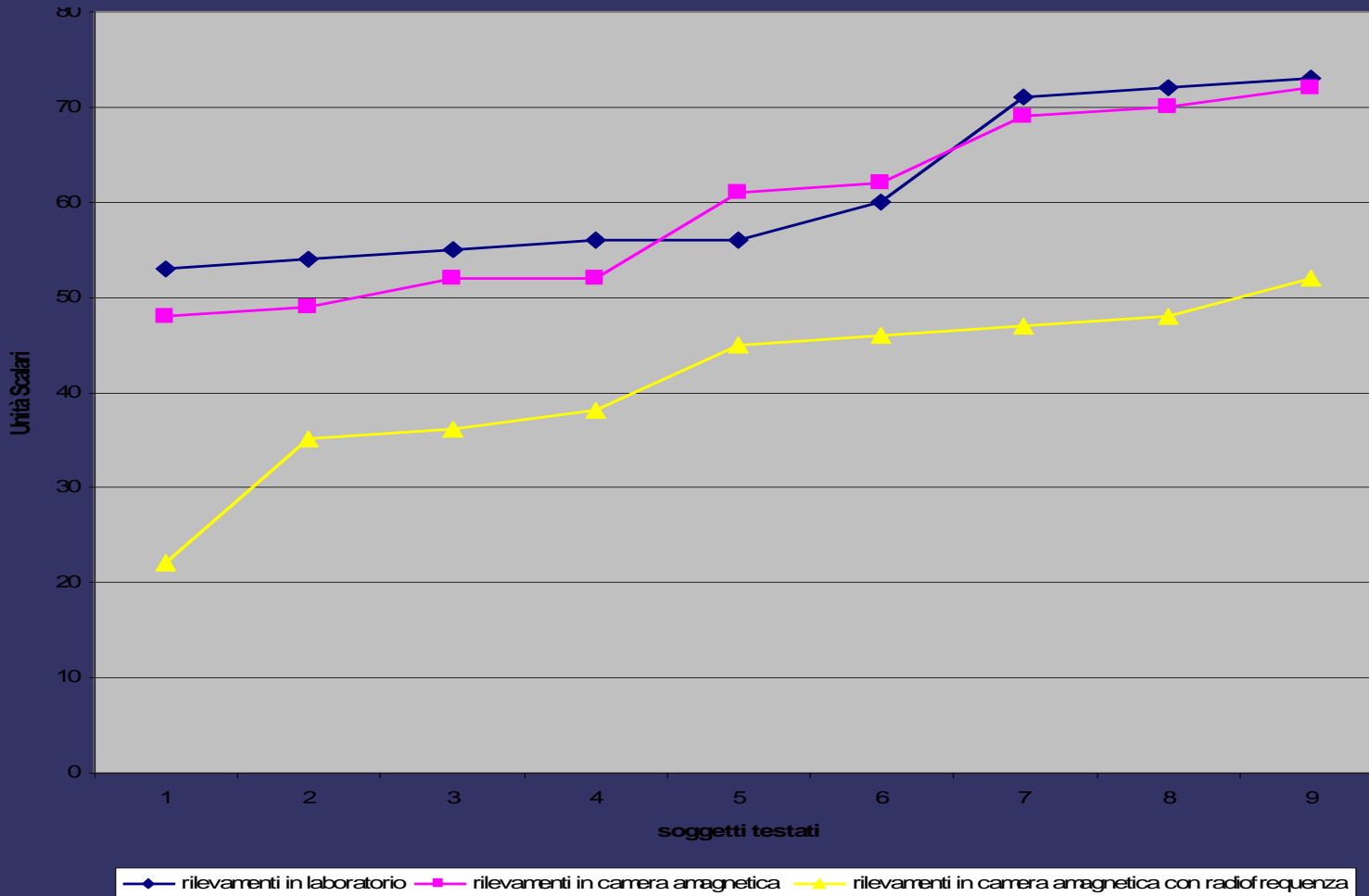
V alore US

10 000
27 000
39 000
47 000
95 000
100 000
130 000
200 000
220 000
300 000
560 000
1 000 000

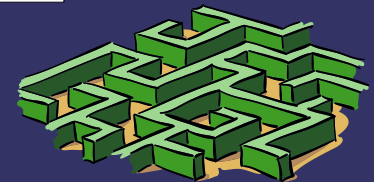
91
78
70.5
66.5
50
48
43
32
29
24
14
8



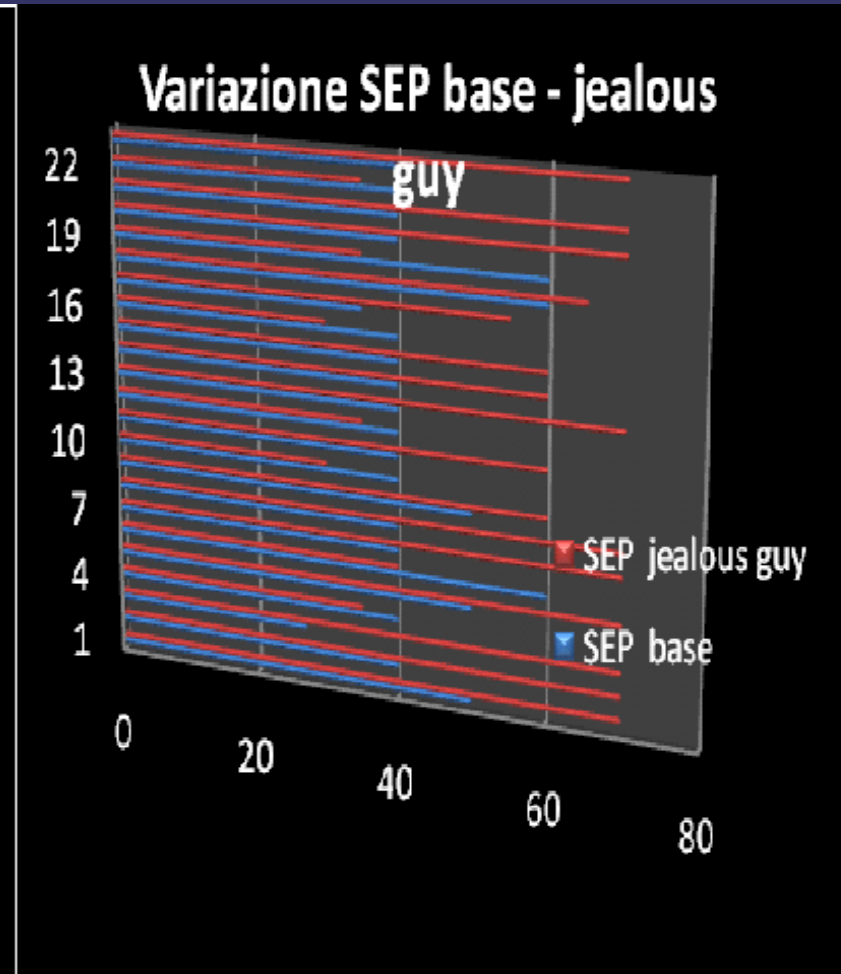
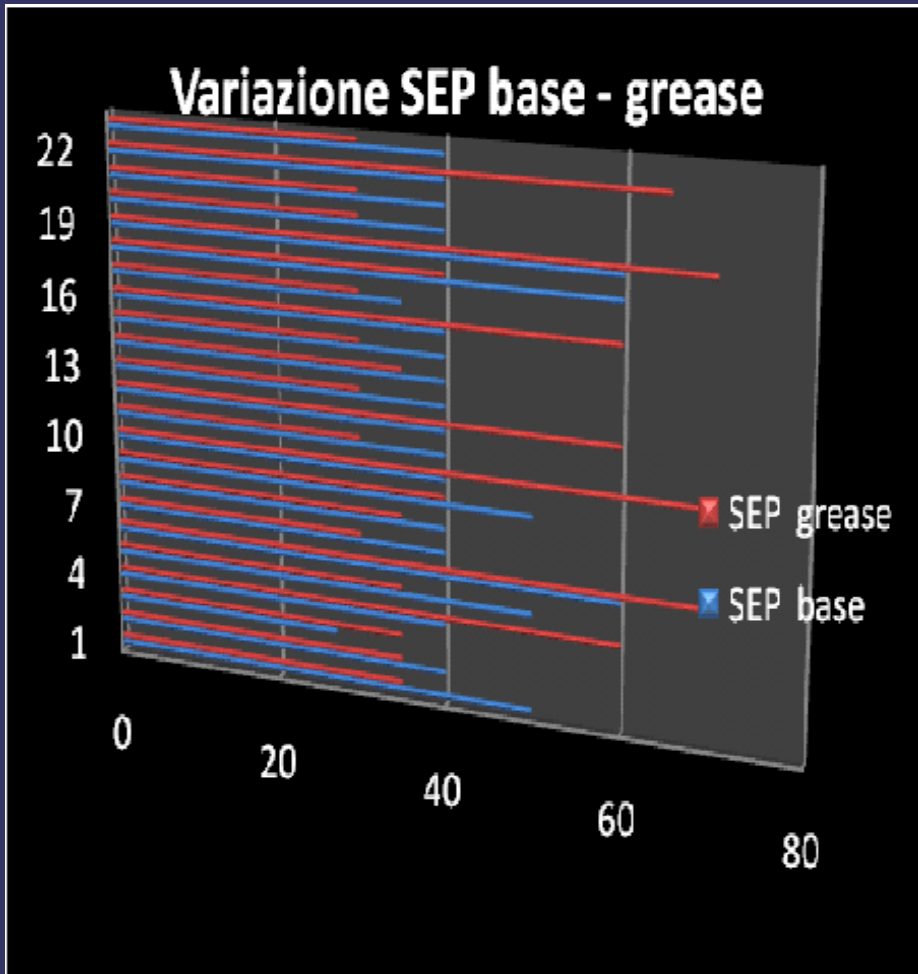
Effects on the conductivity by magnetic field of cell phone antenna 10 V/mt - 900 GHz on seven men exposed in amagnetic room



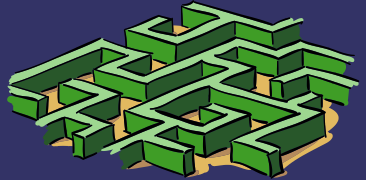
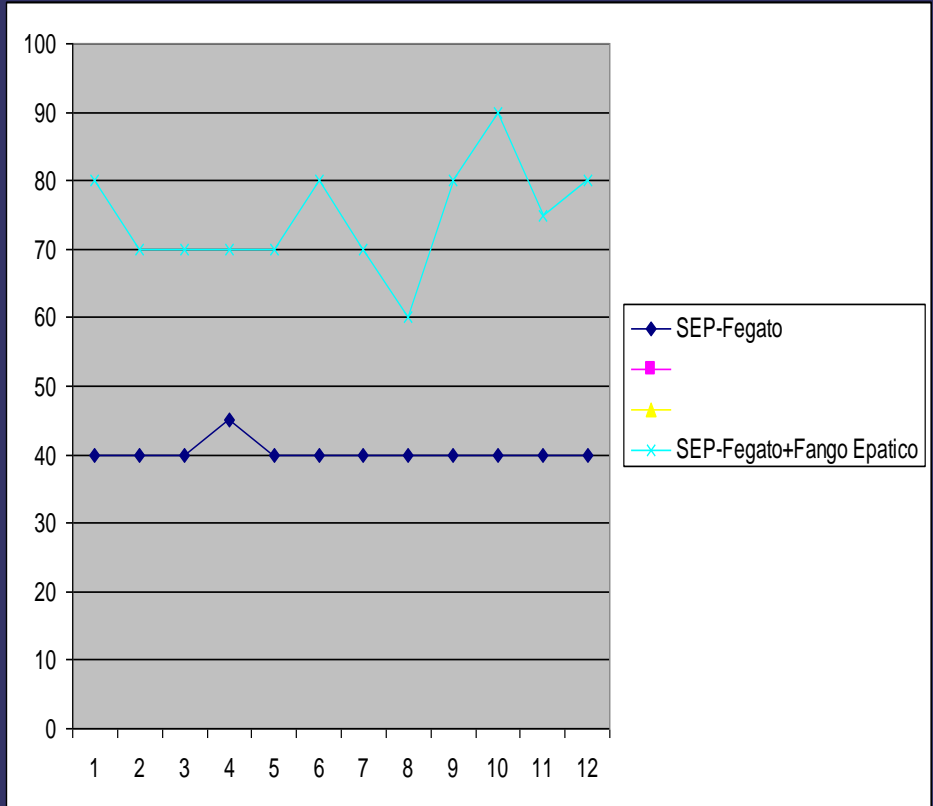
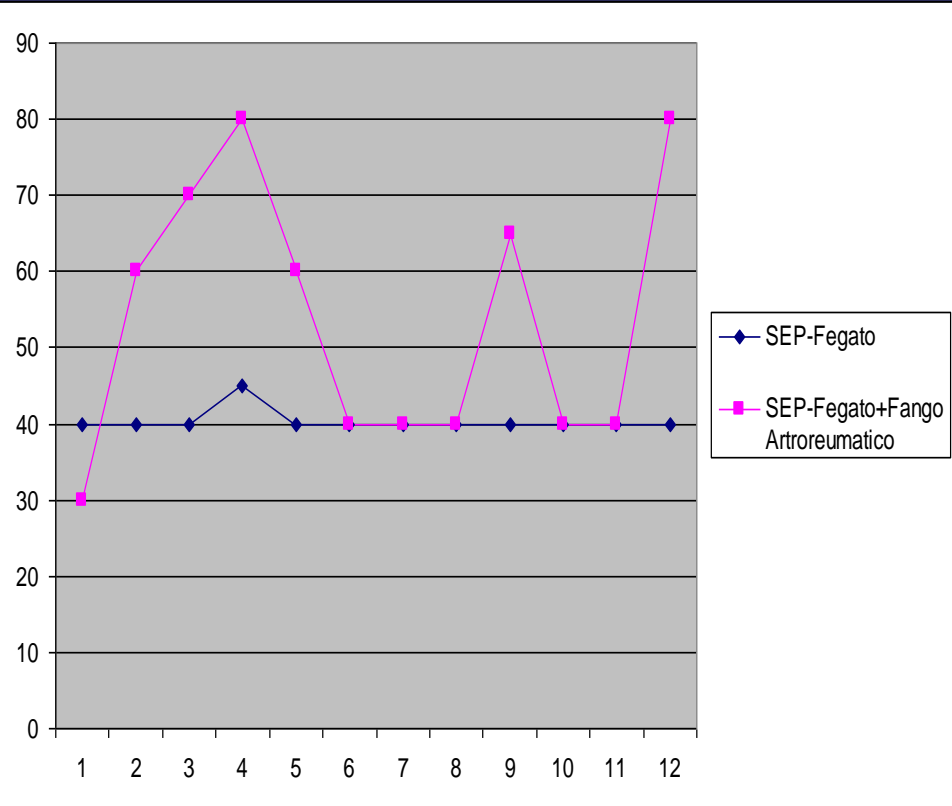
V.I.Valenzi, S. Grimaldi, G. Quartieri, G. E. Gigante; G. Mileto, G. Monaco: Osservazioni sulle variazioni bioelettriche nell'uomo indotte da campi elettromagnetici in camera amagnetica. Ricerca Aerosp. Pag. 33-38, Anno XXI- N. 1. 2005



BEATLES AND J. TRAVOLTA SEP EFFECTS

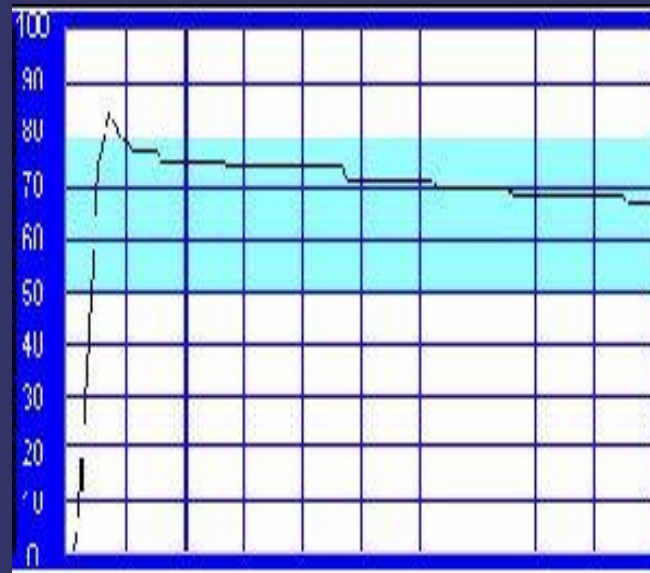
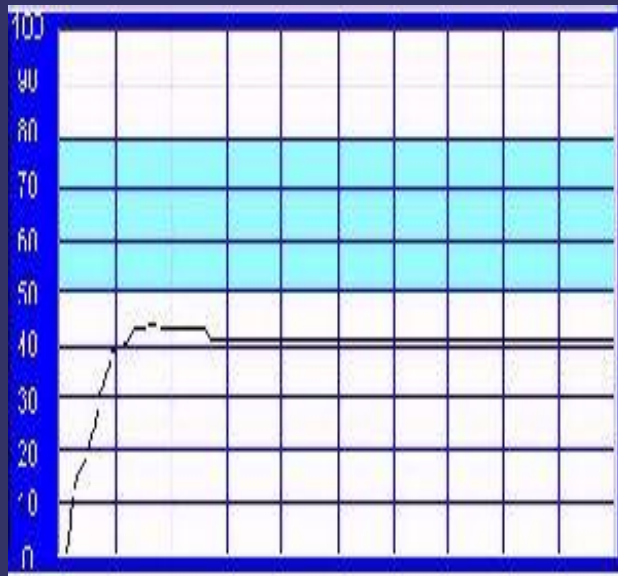


Mud therapy and rheumatic meteoropathic pain: muds are not all the same!



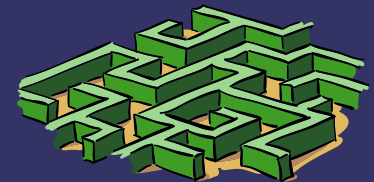
Skin Electric Parameters and molecular signaling of drug DRUG EFFICACY AND/OR INTOLERANCE IN METEOROPATHIC OSTEOARTICULAR DISEASES WITH 8 FANS TESTED

After Nimesulide 1,5 cm max far from body



<http://web.tiscali.it/numedi/arc2002/0902/12.html>

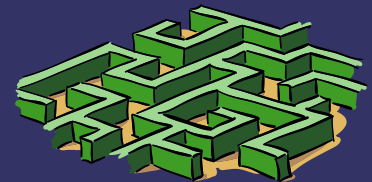
V.I. Valenzi and M.L. Roseghini



Potential Vector

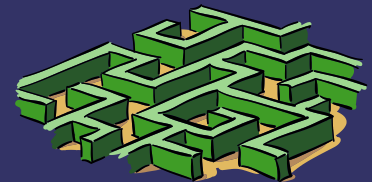
The Potential Vector extends to a nearby large area, without transporting energy but just information, exerting a “fine influence”, we could say “informatica”, that alters the phase of the present coherent systems.

Giuliano Preparata & Emilio Del Giudice
(Scienza e Conoscenza, 17/2006)



Vector Potential in Puthof's Patent 5845220

- " 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 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 Ahranov 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.

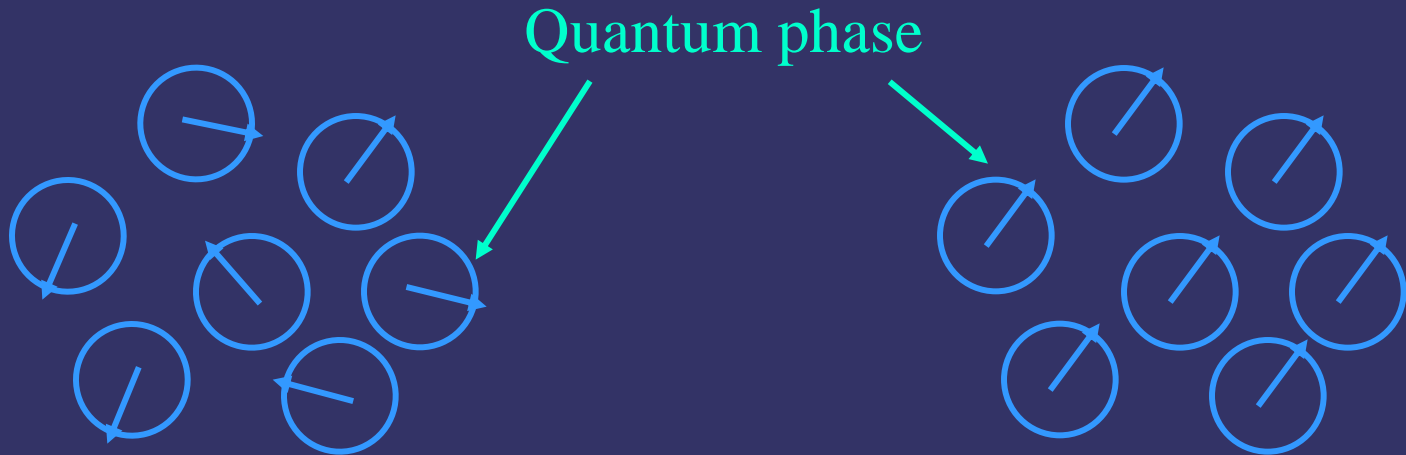


Quantum Coherent Interactions

Luca Gamberale

Pirelli Labs – Materials Innovation Advanced Research (Milano, Italy)

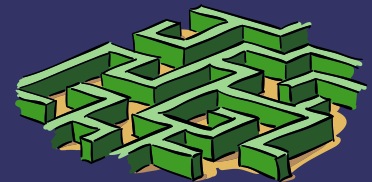
N scatterers



Cross section goes like N

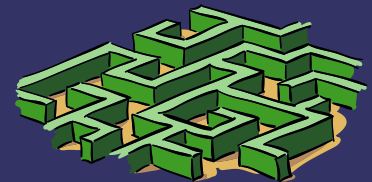
Cross section goes like N^2

$N \sim 10^{23}$!!!



Vector Potential in Puthof's Patent(2)

- Such an effect is now referred to broadly as a Ahnranov- 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 Ahnranov-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 know 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.

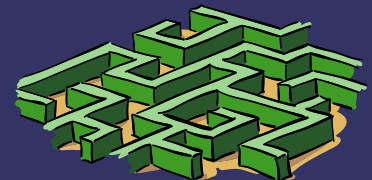


INFLUENCE OF A VECTOR POTENTIAL ON A HIV REPRODUCTION IN T-LYMPHOCYTES IN VITRO

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.



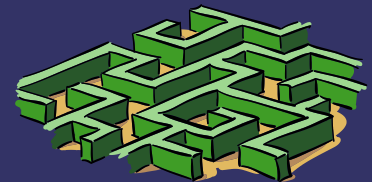
***Biological Aharanov-Bohm Effects and
Electromagnetic Communication Signals from Bacterial DNA***

VI Valenzi, A. Widom, J. Swain, Y. Srivastava

<http://www.biospace.crimea.edu/en>

COSMOS AND BIOSPHERE 2013

Pure water and thus biological tissues are repelled by magnetic fields in a manner closely analogous to superconductors, only with much weaker repulsion. For example, both superconductors and biological tissues can be levitated on static magnetic field gradients. The Aharanov-Bohm quantum mechanical phase interference thereby occurs in both biological tissues as well as superconducting Josephson weak link arrays. An example of such Aharanov-Bohm quantum phase interference occurs in the Benveniste-Montagnier effect wherein electromagnetic signals are communicated between distant bacteria of the same species. The DNA rings of the bacteria exhibit the Aharanov-Bohm phase due to the diamagnetism of the coherent water shells coating the DNA molecules.



***FROM THE QUANTUM MECHANISM FOR DRUG TO THE
ENIGMA OF ATMOSPHERIC ACTIVATION OF SKIN
ELECTRIC PARAMETERS AGAINST METEORO
PATHOLOGIES***

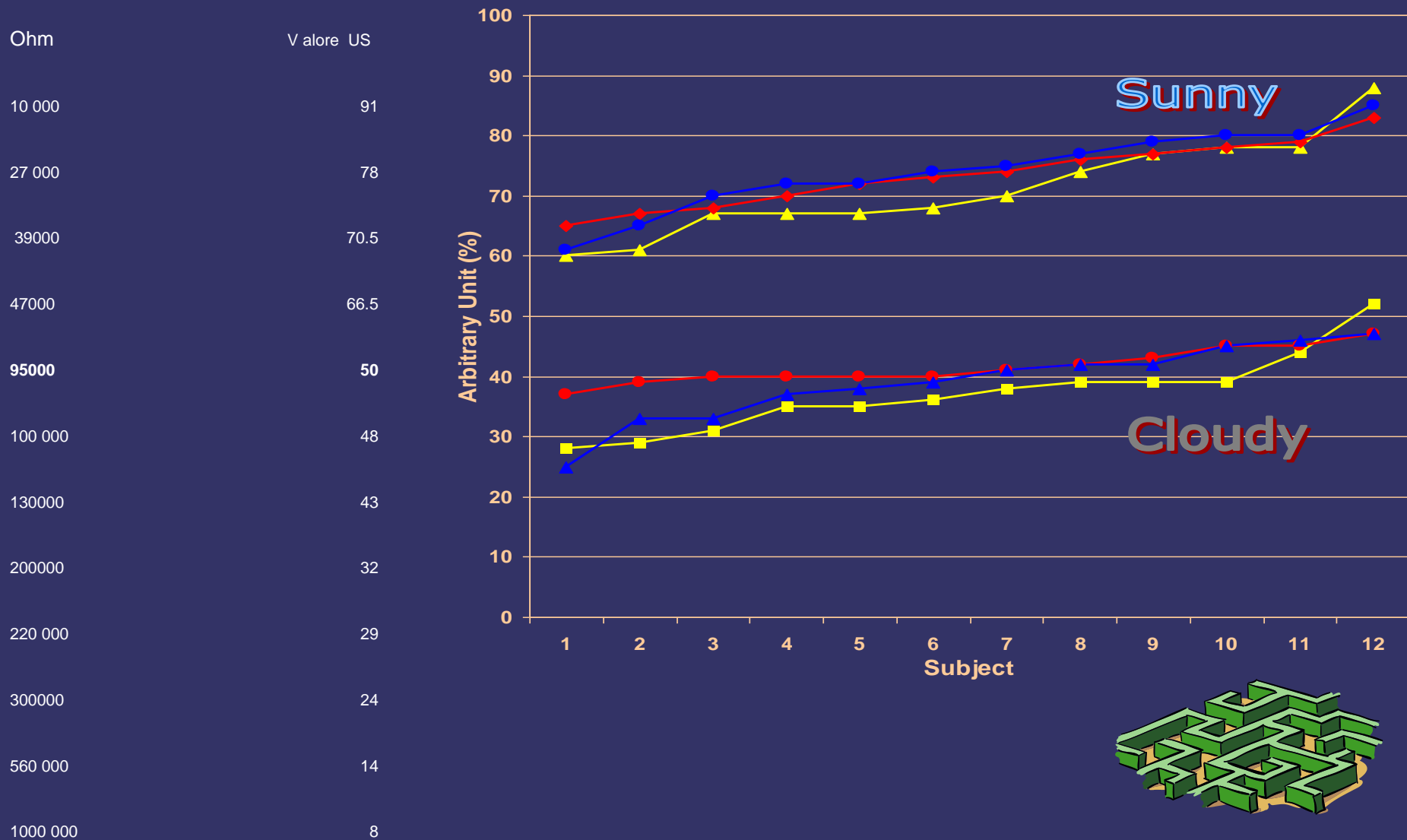
It seems to be clear the role of quantum interaction (Bohm
Aranov effect , and other electromagnetic effects) on the
bioelectrical circuits in human body with drugs food,
chemicals, wine, ecc.

But some observations on anomalous effects of W.Reich
device (cabin, pillow ecc), that are able to induce the same
effects on body electric circuits, recharging “biological
battery”, appear less clear, or, better enigmatic.

In fact , in preliminary observations we detect an increase in
bioelectrical power correlated to an increase in immune
resistance and in the performance status (that must be
developed in more deep studies in pathophysiology and
fundamental biophysics),



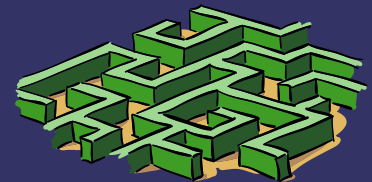
The strange radiation of Reich pillow is able to reproduce a sunny day effect (reproducible effect with electric measure and dynamometre)



FROM FREE THERMAL ENERGY IN THE ATMOSPHERE TO COHERENCE AND VECTOR POTENTIAL GENERATION?

We can only speculate to try to explain the mechanism of renormalization of SEP by the Reich Device in meteoropathic people; when wheater is cloudy, “free thermal energy” is absorbed from water by evaporation for cloud formation (negentropic process) and this could explain the low electrical measures in body, that are normalized by a coherent therapy (drug, em signals, ecc) or by “radiation” of “free thermal energy” emitted from Reich device.

The nature of “free thermal energy” is not clear, as well as the mechanism by wich the organic -. metallic multilayer is capable of creating a flow of this radiation of biological and therapeutic interest.



A STRANGE ARTISANAL DEVICE AGAINST METEOROPHATIES

- A lot of old scientists and other people are using a special pillow (an organic – metallic multilayer) with critical improvement of their life in many areas (walk from meter to km, pain reduced in meteorophatic and chronic artrosis, performance status improved in many fields, ecc. *(See also Valeri and Del Giudice in references)*
- No big business (very easy home production) and a great scientific game that is opened for us in the area of interaction in atmospheric dynamics and biological systems.
- The mystery of meteorophaties starts to be cleared, opening a new window on Nature and Life.



References

- **V. I Valenzi, B. Messina** Proceedings meeting on: *The role of quantum electro dynamics in medicine.* Rivista di Biologia/Biology Forum 93 (2000) pp. 267-312.
<http://web.tiscali.it/numedi/arc2002/0902/12.html>;
- **V.I.Valenzi, G.Monaco, S. Spada, P. Cimaglia, L.Petraccia, S.Palmieri, B. Messina M.Grassi:** *Ruolo dei SEP (Skin electric Parameters) nello studio delle meteoropatie,* Annali di Medicina Interna, 2003: 18, 164S - Proceedings Congresso SIMI Vincitore Premio CECIL
- **A. Pisani V. I. Valenzi , M.C. Lucchetta, M. Grassi, A. Serio P. Avino, M. Russo, A. Fraioli** *SEP variations on subjects with chronic constipation in idropinic treatment.* VII Intern. Conference "COSMOS AND BIOSPHERE":1-6/X 2007Sudak Crimea- Benveniste Award
- **Allan Widom, Yogi Srivastava, Vincenzo Valenzi :** *The Biophysical Basis of Water Memory.* International Journal of Quantum Chemistry (Wiley and Sons), Published on line May 19, 2009[DOI: 22140];
- P. Avino, Vincenzo De Lisio, , Vincenzo I. Valenzi e altri : *Influence of air pollution on chronic obstructive respiratory disease: comparison between city Rome) and hillcountry environments and climates.* Annali di Chimica,94,2004, 629-35. by Società chimica Italiana.
- **Scalia M. Sperini M. Marinelli F. Valenzi V et al.** *Ioni aeri e salute umana.* Andromeda Editore Roma 2013 <http://goo.gl/o4onLv>
- **Gualtiero A.N. Valeri** "Dati preliminari dinamometrici, bioelettrici e biologici del dispositivo multistrato di Whilelm Reich", Roma 28/4/2014. <http://goo.gl/qeXDKo>
- **Emilio Del Giudice** on Reich work: http://www.biosofia.it/reich_v_delgiudice.asp
- **PROCEEDINGS climatoterapy conference Rome March 2013** <http://goo.gl/dXktld>

