

Ormus, DNA Repair and Health

by Barry Carter

It appears that the key to great physical longevity is the discovery of a method for effecting the repair of DNA. Accumulated damage to the DNA has been called one of the major factors in aging. It is also generally considered to be a major factor in cancer, aids and other degenerative diseases. David Hudson in his lectures and workshops claims that the ORMUS materials have reversed the progress of cancer and other diseases. Hudson suggests that this reversal is the result of the repair of DNA which is facilitated by the ORMUS elements...

Here is a quote on this subject from David Hudson's Portland, Oregon lecture:

"They claimed that it perfects the cells of the body. Well I can show you tomorrow Bristol-Myers-Squib research that shows that this material inter-reacts with DNA, correcting the DNA. All the carcinogenic damage, all the radiation damage, all is corrected from these elements in the presence of the cell. They don't chemically inter-react with it, they just correct the DNA...

This is not an anti-anything. This is not anti-aids. This is not anti-cancer. This is pro-life. It literally is the spirit. The material is not here to cure aids. The material is not here to cure cancer. The material is here to perfect our bodies. It makes our bodies be in the state they are supposed to be in. It is our own immune system that fights and cures the disease. If you can correct your DNA at every cell in your body. If you can correct the damage that's been done that brought about the cancer, if you can correct the damage that has been brought about by the virus; the aids you literally will become a perfected being. You will return back to the original healthy state you were meant to be in."...

Here is another quote on this subject from Hudson's Dallas lecture:

"Now what does it do in the body? It literally corrects the DNA, by a process the equivalent of a denaturing solution, the DNA relaxes and recombines corrected. So all diseases that originate with a problem with the DNA can be corrected, but your reason for taking it cannot be to correct a disease. Your reason for taking it has to be a philosophical reason. It has to be to enlighten and to raise the nature of mankind. If in doing that, it happens to cure the diseases, so be it..."

And I just saw this. Dan Winter does such a good job of depicting it that I said, oh hell, I'll just use his slides. It just so happens that Dan Winter said that the nucleus or the DNA interacts with this frequency. So people in music and all this that play all this beautiful music, they say it calms the soul, it does all these things, they say, "Dave, would music effect the DNA itself?" I don't believe so because, I think, that what you're trying to effect is in fact a null, and that frequency that you're trying to generate is in fact a frequency so short that even our nuclear physicists can't produce the Planck frequency...

But that frequency in fact is where everything is and that frequency just happens to interact with the DNA in the cell. It is the God-Force or the Creative Vibration or the energy that is everywhere timeless in the universe and that's what the electro-magnetic null produces. So what frequency is it? It's not important. It's two waves equal and opposite, that's what's important. (audience question) It's actually Dan Winter's book, it's a big thick book, but I don't remember the title of it. It's Dan Winter's book and that's what it's in... Anyway, next slide...

And here he says, he's showing the cell again, the inter-reaction of the zero point energy which he shows depicted as the center or literally that the vibrations actually go to null, to nothing and that's the center. And that's the frequency inter-reaction of the DNA. That's one way of picturing it and so I'm using his slide, but that happens to be the frequency that does interact with the DNA, and his terminology here is, lightning-spun up-primal soup- all lightning is unipolar because of the consistent orgone electro-negative. Well he's talking about this as orgone energy. That I don't know if I ascribe to, I don't know if I like his terminology here, but his concept of the electro-magnetic zero point is accurate...

I'm not telling you that I believe everything that Dan Winter writes, I'm telling you that this particular part of it is accurate. Next slide. Okay, next slide."...

The immune system is also degraded by DNA damage. We suspect that any disease condition which is related to either the immune system or damaged DNA might benefit from ingestion of the ORMUS materials...

A recent Associated Press story talks about the discovery of an "aging gene" named WRN which:

"appears to play a vital role in how DNA repairs itself and reproduces, long

suspected as keys to aging"... "Normal WRN appears to govern the production of vital enzymes called helicases."...

"DNA carries the body's genetic blueprint, in double-helix strands coiled inside every cell. Whenever a cell reproduces, the DNA strands first must uncoil so they can be copied accurately for the new cell. Likewise, whenever the body needs to repair a cellular defect, the DNA must unwind so repair enzymes can snip off the defective piece. Helicases make DNA unwind."...

"If WRN is mutated, presumably the helicases aren't uncoiling DNA properly - so cells aren't reproducing to replace dying ones or DNA damage is not being repaired"...

Three recent papers suggest that the platinum group elements can assist in this process of DNA repair:

Platinum Metals Review

1990, Volume 34, Number 4

Biophysical Studies of the Modification of DNA by Antitumour Platinum Coordination Complexes

"The modification of DNA by cisplatin has been examined. Anti-tumour active Pt compounds induce in DNA, at low levels of binding, local conformational alterations which have the character of non-denaturing distortions. These changes in DNA occur due to formation of inter-strand cross-links..."...

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Scientific American

May 1995

David Paterson

"The researchers examined the electrical properties of short lengths of double-helix DNA in which there was a ruthenium atom at each end of one of the strands. Meade and Kayyem estimated from earlier studies that a short single strand of DNA ought to conduct up to 100 electrons a second. Imagine their astonishment when they measured the rate of flow along the ruthenium-doped double helix: the current was up by a factor of more than 10,000 times-over a million electrons a second. It was as if the double helix was behaving like a piece of molecular wire."...

"For some time, chemists have suspected that the double helix might create a highly conductive path along the axis of the molecule, a route that does not exist in the single strand. Here was confirmation of this idea."...

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Matti Pitkanen, a theoretical quantum physicist in Finland, wrote the following about the third article which appeared in Science magazine:

In the newest Science, vol. 275, 7. March 1997 there was a very interesting article about the work of Barton and her group. Barton et al have done several experiments between 1993-1997 related to the conductivity properties of DNA double helix.

The conclusion of Barton et al is that DNA double helix has the ability to do chemistry at distance:

"A DNA molecule with a chemical group artificially tethered to one end appears to mediate a chemical change far down the helix, causing a patch of damaged DNA to be mended."...

DNA as conducting wire instead of insulator

What seems to occur is flow of electron current along DNA with very small resistance. Typically the experiments involve electron donor and acceptor separated by a long distance along DNA. When acceptor is radiated it goes to excited state and an electron current flows from donor to acceptor as a consequence. Standard wisdom tells that this should not be possible. The current should flow by quantum tunneling between adjacent building units of DNA and it should diminish exponentially with distance. For proteins this is known to be the case. In experiments however no distance dependence was observed...

There exists a theory which assumes that the current could flow along the interior of double DNA, that is the region between the bases of strand and complementary strand. The electron would be delocalized in bases rings these rings would form a stack along DNA. The current would flow by tunneling also now but the tunneling probability would be so large that distance dependence would be weak. The critics of Barton argue that this model cannot explain all the experiments of Barton and that the model is not in accordance with basic organic chemistry and biology: ordinary sun

light should have rather drastic effects on us. Barton admits that they do not understand the mechanism...

TGD-based explanation in terms of exotic atom concept

TGD suggests a possible explanation of phenomenon in terms of closely related concepts of exotic atom and charged wormhole. The concept of exotic atom in turn relies on the concept of many sheeted spacetime. Exotic atom is formed when one or more outer valence electrons of ordinary atom are dropped from atomic spacetime sheet to a 'larger' spacetime sheet, now spacetime sheet with a form of DNA helix. As a consequence, charged wormholes feeding the em gauge flux to the larger spacetime sheet are also generated. Electrons in larger spacetime sheet could be delocalized and this could lead to a smaller ground state energy. What is important is that the electrons on the larger spacetime sheet move effectively in empty spacetime and therefore electric current can flow freely without resistance...

Charged wormholes could provide also a mechanism of superconductivity: photons are replaced with the excitations of wormhole BE condensate in this mechanism. It is however too early to say whether super conductivity is really in question and even whether this superconductivity mechanism really works...

In the experimental arrangements of Barton typically donors and acceptors of electrons are Rh and Ru atoms. Both have 5s unpaired electron and this electron would drop on the larger spacetime sheet from the atomic spacetime sheet and induce electric current. Some colleagues of Barton did not observe the effect when using organic molecules as donors. A possible explanation is that these molecules are such that their valence electrons cannot drop on lower spacetime sheet (it is not energetically favourable, they could be paired, for instance)...

Additional references to papers by Dr. Jacqueline Barton can be found on physicist Tony Smith's web page (Tony Smith goes into additional technical discussion on many of the issues raised in this article...)

From these three papers, it should be clear that the repair of DNA may be linked to the presence of the platinum group elements...

David Hudson claims that he has provided ORMUS materials to various

medical doctors who have given them to patients with cancer. According to Hudson, in the great majority of these cases the cancer patients have recovered with indications that the cancer tissue reverted to normal tissue. Hudson reports that the tumors at first appeared to grow because cancer tissue is more dense than normal tissue. Since the cancer was becoming normal tissue, as it became less dense it would expand...

In his Ashland, Oregon lecture Hudson said:

"First of all, if you use the rhodium and iridium, one of the things you can see is that in the first 3 to 4 weeks the tumor actually appears to grow faster. So if you have taken a biopsy, and found that you have a tumor, if you take the rhodium and iridium, in the first 3 to 4 weeks the magnetic resonance imaging will show it's growing faster, which really scares people. They say 'God, that's not what I want'. What you have to understand is, that the dense cancer tissue, when the tissue is converted to healthy tissue, it enlarges in size. And so if the physical tumor is this large (gesture), when it's cured will be this large (gesture)...

It actually gets larger because it's going to healthy tissue. It's called necrosis in the medical community. It's the opening up of the tumor, okay, and the going to normal. After 60 days you do a biopsy on the tumor and it's no longer cancer. It's a benign tumor. The doctors who surgically remove the tumor say 'Gosh, it looks like cancer, looks like it ought to be cancer, it was cancer 60 days ago; it's just not cancer now... I don't know what to explain.' Well, that's okay. It takes about a year and a half for all this mass of tumor to dissolve away...

So... if you have a cancer in the brain, if you have a brain tumor, my advice is to stay away from this. And the reason for it is there seems to be a growth. And that's a problem when you have a brain tumor because your brain is encapsulated in a skull, which has a limited amount of room. And so I advise people, you can have surgically implanted a radioactive iridium pellet -which you don't have to have radioactive, you can put the [non-radioactive] iridium and it goes away too, but they make it radioactive so that standard science can accept that this is why it's going away; I thought 'That's stupid' when I read that...

Anyway then, implant this pellet in the tumor, and the tumor shrinks down to the point that they can surgically remove it, without hurting the brain. Then they actually take the tumor out and they take the pellet out also. Then you can take the material. Okay? But my advice to you is to be careful in dealing with brain tumors, because you do have a space

limitation here."...

Hudson says that he provided ORMUS materials to the National Institute of Health for in-vitro studies. Here the results were no less stunning but appeared to provide conflicting results. Most of the cancer tissue cultures did not show reversion of the cancer tissue to normal tissue but rather showed that the cancer just became more healthy...

Here is an excerpt from Hudson's July/August, 1996 newsletter:

Now to RESEARCH:

The National Institute of Health has performed cancer cell testing. Six kinds of tests were performed on leukemia with no direct interreaction with rhodium. Nine types of non-small cell lung cancer were tested with direct retardation of only one type of cell by the rhodium. That was NCI-H23. There were seven varieties of colon cancer tested with no interreaction with the rhodium. There were six varieties of CNS cancer with no direct interreaction...

There were eight varieties of Glioblastoma with one variety referred to as the LOX IMVI, showing a dramatic reduction of growth in the presence of rhodium. The LOX INVI cancer cells are a melanoma form of cancer...

There were six varieties of ovarian cancer, six varieties of renal cancer, two varieties of prostate cancer, eight varieties of breast cancer, none of which showed any direct interreaction with the rhodium. There was MD MID tests performed on Delta and also on the Range showing dramatic reduction in cancer activity...

Members should be clear that this was not a study on human patients. It did not measure any reaction with the thymus or other organs in the body. The tests did not measure increases in white blood cells, T-cells, etc. it was simply a test of the direct interreaction of one ORME (rhodium) in a cell culture...

Additional studies were conducted in New York on PC3 independent prostate cancer cells. At two, four and ten micrograms per milliliter the rhodium ORME promoted DNA synthesis (measured by the thymidine incorporation), stimulated cell growth and cell looked better than usual. Thus rhodium ORME is not toxic, but in fact seems to make the cancer cells more vigorous and robust and clearly does not retard PC3 cancer cells...

Similar results occurred with mink lung epithelial cells. Incorporation of tritiated thymidine increased from 7000 cpm to 20,000 cpm...

In PC3 cells, rhodium ORME caused cytokine, mRNA and peptide levels to fall. This correlates with the increased growth rates in these cells, since this cytokine is known to inhibit cell growth. It also is known to increase in inflammatory conditions, therefore it is possible that the decrease in the cytokine caused by the rhodium ORME could reduce inflammation...

At the university of Illinois, the rhodium ORME was tested in cytotoxicity tests using eight different cell lines. None showed toxicity at levels as high as twenty micrograms per milliliter. This shows that rhodium ORME is not toxic. Clearly Rhodium ORME does not act on cancer cells by killing them, but many other mechanisms which are not considered normal in cancer research are now being investigated...

In Summary:

Rhodium ORME is clearly not toxic, even at very high concentration. Thus its anti-cancer action can not be via a cancer cell-killing mechanism.

Its effects on growth of cancer cells is cell type specific. It inhibits growth of liver cancer cell lines and the prostate line H23, but not the growth of other cell types. It actually stimulates the growth of PC3 cells and mink lung epithelial cells...

It inhibits the production of cytokine in PC3 cell and mink lung epithelial cells, which suggests the rhodium ORME may have anti-inflammatory activity...

The implications of this discrepancy need to be examined. If, with exposure to the ORMUS elements, cancer cells revert to normal cells in the body but do not do so in the petri dish then there must be some factor, which promotes this reversion, that is present in (or around) the body and that is

not present in a petri dish...

A gentleman named Gary, who describes himself as a "kundalini awakened American engineer" wrote the following explanation for his theory about a mechanism for DNA repair in the body:

Regarding Hudson's negative results with in-vitro cancer cultures...

Cell cultures do not behave the same as their in-vivo equivalents, for processes that involve kundalini. Cell cultures contain pranic energy, but they lack nadis, and kundalini. As kundalini generally oversees and directs the use of ORMEs, this means ORMEs actions in vitro will be substantially impaired, and much less effective, than in vivo...

Some have asked incredulously and sometimes vituperously how DNA could possibly be repaired and restored to its original sequence by *anything*, once damaged. I have listened to several such exchanges. Some apparently believe that, once the DNA is damaged, nothing remains to base a correction on, and hence have difficulty understanding how ORMEs (or anything else) could know *how* to "fix" sequencing damage, once it has occurred (assuming, of course, that both halves of the DNA have been altered)...

Each of us has an etheric double, which is the coarsest of the subtle counterparts of our physical body. This and some subplanes of the astral are the level or home of an 'elemental', associated with the innate consciousness of the physical body. This is a separate consciousness, like those I touched on in explaining the nature of consciousness in matter, earlier...

Regardless of the physical damage cellular DNA may sustain, such as by ionizing radiation, phage-induced mutations, etc., the subtle template is always there, and though it may be depleted of vitality, it is not susceptible to these sorts of structural damage. It is around this prescient organizational form that our bodies grew, in genomic expression, once the individualization phase began in later fetal progress. Every molecule **related to organization and structure** has its subtle counterpart, within it. This is the same matrix which has been observed in the "phantom leaf

effect", etc., in Kirlian photography...

Kundalini and ORMEs both function, in large part, in 4th dimensional astral levels. The original subtle "backup copy" of the DNA is readily available to them, at the precise place where it is needed, right at the damage site in the errant cell's DNA. The subtle part lies, superimposed 4th dimensionally, right where the physical part is, and there is no problem at all, in seeing where the two don't agree. There are a variety of mechanisms that repair DNA. In some cases, given sufficient ORMEs in the system, kundalini simply uses the ORMEs as a mechanism, like a read/write head so-to-speak, in repairing the damage. ORMEs are used to transfer a resonance from the subtle template, to guide the DNase, polymerase, endonuclease, and other various enzymes in removing and recoding the damaged base sequences. Each of the bases has a distinct vibrational signature, which the enzymes have no trouble at all in recognizing...

In a cell culture, the cell's own subtle template is present, but no kundalini is present as an organizing force, nor overall template, and virtually no organization is present among the cells, so the genotypical expression elements are largely running open loop. How likely is it that ORMEs may effect a cure under these conditions? Not very(!), though they still seem to have some slight beneficial effect. I suggest they shall have better luck with curing cancers when they experiment on lab mice and other living creatures."...

In a nutshell, Gary is suggesting that a non-physical template for DNA exists and that where this non-physical DNA template is available to the physical DNA the ORMUS elements can facilitate the repair of the DNA to this healthy template. Let's examine these concepts...

Many respected modern scientists in a variety of scientific fields postulate that physical manifestations of matter arise out of some sort of non-physical information field. The great physicist David Bohm postulated that time, space and matter unfolds from a non-physical "plenum" he called the "implicate order".

Further, this unfoldment is directed by a field of intelligence he called the "super-implicate order":

"The first implicate order is like the field, and there is a super-implicate

order which organizes the field into discrete units which are particle-like. Without that superimplicate order however, the field would just spread out without showing any particle-like qualities."...

How might communication between the implicate order and physical reality take place?

Quantum Coherence

Quantum physicists often attribute communication between non-physical realms and the physical realms to a quantum physical phenomena called "quantum coherence". In certain "special" situations like coherent light (lasers) and superconductivity, multiple particle aggregations are believed to become coherent and behave as if they were single particles. These coherent systems of particles exhibit quantum properties like quantum non-locality where a force administered to one particle may be instantly reflected in a response in another quantum coupled particle light years away. This coupled response is taken to be evidence of communication between the two particles which is independent of space and time...

Until recently, it was generally believed that practical demonstrations of quantum coherence required very special technical conditions like super cold (in the case of superconductivity) or special mirrors (in the case of lasers). Recently a number of scientists have been reporting evidence of quantum coherence in biological systems. Dr.

Mae-Wan Ho (see: <http://www.i-sis.org.uk/about.php> for a short bio) wrote this about the role of "quantum coherence" in consciousness. In the abstract of her article titled "Quantum Coherence and Conscious Experience" Dr.

Ho writes:

"I propose that quantum coherence is the basis of living organization and can also account for key features of conscious experience - the "unity of intentionality", our inner identity of the singular "I", the simultaneous binding and segmentation of features in the perceptive act, the distributed, holographic nature of memory, and the distinctive quality of each experienced occasion."...

<http://www.i-sis.org.uk/brainde.php>

But is there evidence that quantum coherence is involved in a wider communication network beyond the body? In her paper titled "Gaia and the Evolution of Coherence" she suggests that quantum coherence is a fundamental basis for intercommunication between species on the Earth:

"Thus, it seems that the essence of the living state is to build up and extend the coherent spatio-temporal platform for communication starting from the energy of the sun initially absorbed by green plants. Living systems are thus neither the subjects alone, nor objects isolated, but both subjects and objects in a mutually communicating universe of meaning. In contrast to the neo-Darwinist point of view, their capacity for evolution depends, not on rivalry or on might in the struggle for existence. Rather, it depends on their capacity for communication..."

So in a sense, it is not individuals as such which are developing but living systems interlinked into a coherent whole. Just as the cells in an organism take on different tasks for the whole, different populations enfold information not only for themselves, but for all other organisms, expanding the consciousness of the whole, while at the same time becoming more and more aware of this collective consciousness. Human consciousness may have its most significant role in the development and creative expression of the collective consciousness of nature."...

Also in her paper she postulates that:

"Organisms are thus emitters and most probably, also receivers of coherent electromagnetic signals which may be essential for their functioning."...

Dr. Philip Callahan is an entomologist who has been exploring mechanisms of coherent electromagnetic communication for the last fifty years. Dr. Callahan has his doctorate in entomology and about 1600 hours of training in electronics. He has combined these two interests and developed several interesting theories. His theories are based on experimental evidence...

One of his theories is that insect antennae are dielectric, open resonator, infrared detectors. He expounds this theory in a paper published in the book "Molecular and Biological Physics of Living Systems" edited by R. K. Mishra and published by Kluwer Academic Publishers in 1990. His paper is titled "Nonlinear Infrared Coherent Radiation as an Energy Coupling Mechanism in Living Systems".

Here is his introduction to this paper:

"A history of my observations of moths and ants at light is given and the external infrared environment of day and night described. It is pointed out that insects have dielectric, open resonator, antennae, in the form of sensilla, on their antennae. A table of the ELF vibration frequency of various insect orders is presented and related to the many parameters of infrared scatter emission from scent and pheromone molecules. Experiments on moth oviposition, attraction to candles, and response to colors of light are described, as is the behavior of ants at candles..."

The complex far infrared maserlike emission of candles is correlated with emission from insect sex scents and pheromones, and a method of generating maserlike scatter emission from scent molecules described. Several such spectrum from ethanol are presented. Spectrum of nonlinear emission, far infrared frequencies from breath are generated by vibrating a metal plate with a 130 audio component of the OM phoneme. The discussion relates the insect communication system to other life organizing coherent systems. This work on Cabannes and Rayleigh scattering of coherent radiation reinforces other work on photon storage in biological systems."...

There are a couple of quotes from this paper which suggest that the principles that Dr. Callahan has discovered might be common to many living systems:

"The occurrence of nonlinear coherent lines in breath at body temperature leads one to the conclusion that coherent radiations, especially from complex scatter frequencies, are a part of the mechanism of self organizing biological system and occur as readily, under the right conditions, in the tubules of the blood vessels and at cellular levels, especially in the visible region as shown by Popp, and others. A summary of elegant work based on coherence in self organizing living systems is given in the symposium "Synergic et Coherence dans les Systems Biologiques."...

Work on coherent information and energy transfer mechanisms is a new and exciting area for research into the mysteries of self organizing biological systems, and it is the scent coupling of energy from organic molecules to insect dielectric antennae forms in the infrared region that gives great insight into how such coherent systems work. It is imperative that researchers in this field answer criticism from those who are convinced that coherence does not occur at room temperatures in living systems."...

"That coherent infrared is available for insect communication systems there is and it is also available in both the visible and infrared portions of the spectrum for utilization in self organizing biological systems, and it is for this reason that my work reinforces other work on coherent energy coupling mechanisms in living systems...

Once this concept of coherent energy coupling in self organizing systems is thoroughly understood, it is predictable that the generation of coherent signals in the UV (virus and membrane dimensions) visible and infrared (cell, organelles and insect antennae dimensions) can be utilized to resonate to the biological antenna in order to control disease organisms or reverse cancerous conditions. It might even be possible

to resonate to the form of the AIDS virus in the 0.1 mm region, which is the dimension of most virus, and reverse the fatal signals of that small "living" antenna, or to put it in more poetic terms 'find God in little things.'...

Another phenomena which is associated with quantum coherence is superconductivity. The search for a material which will support superconductivity at room temperatures is one of the "Holy Grail" quests of modern physics but there is strong evidence that superconductivity is already present in biological systems at biological temperatures. In her "Gaia" paper Dr.

Ho wrote:

"Recently, technology has progressed to materials which can superconduct at much higher temperatures above absolute zero. The solid-state physicist Herbert Frohlich (1968) in Liverpool was among the first to point out that something like a condensation into a collective mode of activity may be occurring in living systems, such that living organisms are in effect, superconductors working at physiological temperatures. He suggested that much of the metabolic energy, instead of being lost as heat, is actually stored in the form of coherent electromechanical vibrations in the body. He called these collective modes, coherent excitations."...

In recent years a number of interesting papers have been published which identify the presence of superconductivity in biological systems (<http://www.ortho.lsumc.edu/Faculty/Marino/EL/EL4/References4.html>):

Little, W.A. 1964. Possibility of synthesizing an organic superconductor. Phys. Rev. 134A:1416...

Little, S.A. 1965. Superconductivity at room temperature. Sci. American 212:21.

Ginzburg, V.L. 1964. On surface superconductivity. Phys. Lett. 13:101...

Ginzburg, V.L. 1968. The problem of high temperature superconductivity. Contemp. Physics 9:355...

Halpern, E.H., and Wolf, A.A. 1972. Speculations of superconductivity in biological and organic systems. Adv. Cryogenic Eng. 17:109...

Wolf, A.A., and Halpern, E.H. 1976. Experimental high temperature organic superconductivity in the cholates: a summation of results. Physiol. Chem. Phys. 8:31...

Wolf, A.A. 1976. Experimental evidence for high-temperature organic fractional superconduction of cholates. Physiol. Chem. Phys. 8:495...

Ahmed, N.A.G., Claderwood, J.H., Frohlich, H., and Smith, C.W. 1975. Evidence for collective magnetic effects in an enzyme. Likelihood of room temperature superconductive regions. Phys. Lett. 53A:129...

Cope, F.W. 1971. Evidence from activation energies for superconductive tunneling in biological systems at physiological temperatures. Physiol. Chem. Phys. 3:403...

Cope, F.W. 1978. Discontinuous magnetic field effects (Barkhausen noise) in nucleic acids as evidence for room temperature organic superconduction. Physiol. Chem. Phys. 10:233...

How might quantum coherent communication work in the body? In her book, *The Rainbow and the Worm*, Mae-Wan Ho wrote:

"The collagenous liquid crystalline mesophases in the connective tissues, with their associated structured water, therefore, constitutes a semi-

conducting, highly responsive network that extends throughout the organism. This network is directly linked to the intracellular matrices of individual cells via proteins that go through the cell membrane. The connective tissues and intracellular matrices, together, form a global tensegrity system, as well as an excitable electrical continuum for rapid intercommunication through-out the body."...

She suggests that:

"the instantaneous (nonlocal) coordination of body functions is mediated, not by the nervous system, but by the body consciousness inhering in the liquid crystalline continuum of the body. Implicit in this suggestion is the idea that living systems have a special kind of coherence or wholeness, which is characteristic of macroscopic quantum systems."...

Later she elaborates further on this:

"I have argued that quantum coherence is the basis of conscious experience, which involves the possibilities of nonlocal inter-communication between distant parts of the brain, the simultaneous recognition of whole and part in our perceptive field, and the distinctive quality of each experienced occasion. All that is beyond the scope of the present discussion. I shall mention just one aspect of (brain) memory here. Many people have already remarked on the holographic nature of brain memory in that it is able to survive large brain lesions..."

The possibility, from what has been said above, is that memory is not only delocalized over the entire brain, but over the entire liquid crystalline continuum of the body which serves as a holographic medium. Ervin Laszlo, philosopher and systems theorist, has recently proposed that much of personal memory may be stored in an

ambient, collective quantum holographic memory field delocalized from the individual - in the universal holographic medium of the quantum vacuum - and that memories are accessed by the brain from the ambient field. This is fully consistent with the 'romantic' idea, increasingly validated by the foundations of quantum theory, that all nature is interconnected, and that the separateness and discreteness of things in the common sensible world are illusory."...

Optical coherence effects also have been observed in microtubules (which are a structure inside cells).

An interesting theory about how microtubules might function as a biological computer by collapsing infinite possibilities into a decision was proposed by Roger Penrose (a physicist) and Stuart Hameroff (an anesthesiologist) in their paper titled "Orchestrated Objective Reduction of Quantum Coherence in Brain Microtubules: The "Orch OR" Model for Consciousness":

"A critical number of tubulins maintaining coherence within [microtubules] for 500 msec collapses its own wave function (objective reduction: OR). This occurs because the mass-energy difference among the superpositioned states of coherent tubulins critically perturbs space-time geometry. To prevent multiple universes, the system must reduce to a single space-time by choosing eigenstates."...

In another paper (Cytoplasmic Gel States and Ordered Water: Possible Roles in Biological Quantum Coherence) Hameroff suggests that this quantum coherence within the microtubule might be a function of light coherence:

"Here we consider three proposals in which ordered water may play a role in biological quantum coherence essential for living systems and consciousness:

- 1) quantum optical coherence in microtubule inner cores ("super-radiance" and "self-induced transparency")...
- 2) cellular "vision"...
- 3) isolation of microtubules from environmental decoherence"...

So, we see that both optical coherence and superconductivity have been identified within biological systems, but how might the ORMUS elements be responsible for these effects and how might they relate to DNA repair?

The ORMUS elements appear to support both superconductivity and optical coherence at biological temperatures and above. I believe that I have demonstrated superconductive magnetic levitation at room temperature on my kitchen table using ORMUS gold as the superconductor. Watch a short "video" of this demonstration...

I have spoken with Dr. Callahan extensively about the ORMUS elements and we agree that they may be the "mechanism" underlying the coherent coupling phenomena that he describes. Dr. Callahan has demonstrated experimental evidence that coherent coupling phenomena couples living plants to their environment. He postulates that paramagnetic soils are the basis of this coupling phenomena...

In his book on this subject "Paramagnetism - Rediscovering Nature's Secret Force of Growth" he writes:

"Sometime during the decline of the great Tang dynasty (894 AD) the gates to China were closed by Japan and garden geomancy became garden art, an aesthetic undertaking. It had lost its connection to the sun. Placement and shapes were no longer antenna design, but were more in line with the visions of artists who had little knowledge of low-energy force fields...

There it stagnates today, endlessly fostered by Eastern and Western practitioners who have not the slightest knowledge of the physics of nature's low-energy forces. If one thing should be learned from this book, it is that not only do the laws of physics connect chemistry to biology, but they also connect mankind to the sun!"...

In this book, Dr. Callahan explains that paramagnetic properties of the soil are taken up into plants where they become diamagnetic but when these plants burn or rot the ash is paramagnetic again. We have noted that the ORMUS materials will change from paramagnetic to diamagnetic depending on their exposure to moving magnetic fields, and that they become diamagnetic when they are in water...

Using this principle we have devised "magnetic traps" to magnetically "levitate" the more diamagnetic portion of water so that this portion can be concentrated...

An Australian geologist named Kevin Massman has used one of the magnetic trap designs to extract ORMUS elements from the air. Kevin has also found that dew collected at the time of the full moon has more of these elements in it than dew collected at other times of the month...

A 52 year old woman of our acquaintance who lives in Michigan has been

drinking ORMUS water concentrated using a magnetic trap. She has been keeping meticulous notes on her response to the effects of this water. You can read her diary of these effects [HERE](#).

So, what might the mechanism of DNA repair by the ORMUS elements be?

Cisplatin and the ORMUS elements

Cancer cells are known to have damaged DNA. Cisplatin is one of the most commonly used cancer chemotherapy drugs. Cisplatin is a DNA damaging agent. It kills rapidly reproducing cells, including cancer cells, by increasing the rate of DNA damage which causes cell mutation sufficient to make cancer cells unable to reproduce.(1) Sometimes cancers will develop a resistance to Cisplatin; the Cisplatin quits working as it is supposed to. The evidence that it has ceased working is that it quits damaging cancer cell DNA and starts repairing it instead. In other words, it looks like Cisplatin can both damage and repair DNA...

Unfortunately Cisplatin does not repair the damaged DNA in cancer cells according to a healthy cell template but rather it repairs the damaged DNA according to the cancer cell template. The ORMUS form of the platinum group elements appears to facilitate the repair of mutated cancer DNA according to a healthy template...

Here is our theory about how this repair might happen

Cisplatin is a small cluster metallic compound of platinum. We believe it is possible to put platinum and the other platinum group elements into a monatomic or diatomic state which is non-metallic and is characterized by the Cooper pairing of the electrons and certain Bosonic behaviors...

In this Cooper paired state the platinum group elements (PGEs) are no longer capable of forming compounds because their electrons are paired and this makes them unavailable as valence electrons. But they are capable of resonance coupling with one another and they may be "involved" with conventional chemistry in a number of ways (for example they are suspected to be powerful catalysts for chemical reactions)...

Superconductors resonance connect via something called the Meissner effect. If the ORMUS elements are superconductors at biological

temperatures then we might expect some sort of Meissner effect to be evident in the body if they are present in the body. The demonstration linked above suggests that the Meissner effect is in evidence at biological temperatures as does the work we have done with the magnetic trap...

We believe that this resonance coupling capability allows these microcluster (monatoms & diatoms or m-state) elements to transfer information about healthy DNA to the damaged DNA in the cancer cells. We believe that they also mediate the repair of the DNA like the Cisplatin does but since they also are resonance coupling the healthy DNA information, the healthy template is used for the repair of the cancer cell DNA...

If, as David Bohm, Rupert Sheldrake, Mae-Wan Ho, Philip Callahan and other scientists suggest, there is a non-physical information field which surrounds and interpenetrates the body then the information from this field might be coherently communicated to the DNA by the ORMUS elements. This information transfer may be partly facilitated by the coherent Meissner effect generated by the superconducting

m-state elements in the body. We suspect that this information field is more than just the Meissner field and involves energies which are not currently known to science...

This theory that I have just explained models a more healing mechanism for cancer recovery than the cancer killing mechanism which is in current vogue in the medical community. According to this model, cancer cell DNA is repaired and the cancer cells revert back to normal healthy tissue...

We have strong evidence that the m-state PGEs are present in the body. David Hudson, the best known researcher in the ORMUS field, has determined that m-state rhodium and iridium together account for about 5% of the dry matter weight of brain tissue. We also have strong evidence that these two m-state elements are relatively abundant in all of the natural animal and vegetable based cancer "treatments". For example carrots raised in volcanic soil have a quarter of a percent of combined m-state rhodium and iridium and the aloe vera based product Acemannan contains about 90% m-state rhodium...

David Hudson provided ORMUS elements for clinical cancer treatments to a number of doctors.(2) These cancer treatments were outstandingly successful with considerable evidence that the cancer tissue was reverting to normal healthy tissue in almost every case. However when in-vitro studies were performed using the ORMUS elements on the same types of cancer, the cancer cell lines simply became very healthy...(3)

In the in-vivo clinical cases the cancers were in close proximity to healthy cells in the patient's bodies so the resonance transfer of DNA information could happen. In the petri dish studies, the cell lines were far removed, in time and space, from the healthy cells of the person who "donated" them to science...

Evidence of a Non-Physical DNA Template

There are a couple of recent studies which might support the involvement of a non-physical information template for the repair of DNA. Here is a summary of a pilot study of the effects of the electromagnetic fields generated by the heart on the cells of the body:

"Results of a pilot study conducted at IHM showed that a coherent ECG signal had an inhibitory effect on tumor cells while the same signal facilitated growth in healthy cells. This research is in the process of being published and only the abstract is available here at this time. As soon as the scientific paper is published, and the journal grants permission, it will be included in the web information. The abstract is available."...

Perhaps the difference between the in vitro and in vivo results are due to the magnetic fields generated by the heart. Perhaps there is some other type of energy field present in the body which would not be present in a petri dish. The phantom DNA effect discovered by Dr. Vladimir Poponin suggests another type of mechanism which would explain the difference...

Here is an explanation of the DNA phantom effect from the web page cited above:

"Dr. Vladimir Poponin and his Russian colleagues serendipitously discovered the DNA phantom effect during experiments observing DNA

molecules with a laser photon correlation spectrometer. To their surprise, they found characteristic and reproducible patterns of photon scattering both while DNA molecules remained in the path of the laser beam and after the DNA molecules were removed from the laser pathway...

They were able to detect the photon patterns (which they called the DNA phantom effect) for as long as several months after removal of the physical DNA from the system. They realized they had demonstrated a link - or coupling - between the electromagnetic energy of the DNA molecule and the zero energy vacuum substructure predicted by quantum physics."...

In summary, we think that water in the body is "ordered" by the presence of the m-state or ORMUS elements...

We suspect that this ordered water constitutes the "tubulin" inside the microtubules and the "liquid crystalline continuum of the body". We also believe that when the amounts of the m-state PGEs in the body are enhanced, the cell's superconducting, Meissner effect generating abilities are strengthened and expanded. We think that this allows quantum coherent information transfer between the DNA in individual cells and, possibly, allows quantum coherent communication with non-physical information realms. This coherent information transfer might facilitate the repair of DNA to a healthy template...