Informational Pleomorphism

Today I am 53, and the happy fact remains: change is the only thing which life has to offer us. The hummingbirds hang suspended in space, floating, a magical excess of energetic expenditure, frozen amongst whipped air, waiting. A drink from the feeder, now rejuvenated, a dart of color speeds away into the sky, carving arcs of mad precision in a coordinated ballet of energy, sound and motion. The many varieties of caterpillar each become anew, their tube feet soon exchanged for wings, each blade of grass stretching toward the sun becomes a tasseled head of seed, and dies, the sun arching and sweet, soon rising to a boil at the apex of Summer's noon, pouring sheets of heat over the valley, then receding behind the distant hills to invite evening's cool, and the poetry is of one thing alone: becoming. The happy fact remains: change is the only thing which life has to offer us.

Process and transformation, is the basis of all things. Energy becomes mass, mass becomes energy, virtual particles appear and disappear, suns burn and die—the eternal is but the finite—ever changing.

Long ago there was a conflict between scientific thinkers, and reputation gained the upper hand over truth. Reputation is truth in science. Science is no different from any other human enterprise, and it is affected by human frailty, and hubris. There is a paradigm known as pleomorphism which has been rejected. Disease processes are sustained by way of transformations in biological structures such as cell types, which are therefore themselves *processes*. Pleomorphism in biology is defined as: The assumption of various distinct forms by a single organism or species. (Dorland's *Illustrated Medical Dictionary*). Orthodox theory is monomorphic, and does not acknowledge this long observed notion of transformative biological processes. Why?

Many have long ago deduced pleomorphism to be valid. Pierre Bechamp was one of them. Louis Pasteur has staked his reputation on the converse view. Bechamp deduced after years of detailed study, that bacteria could change form. Rod like structures for instance could become spheroid but even further, he noted that the size of these organisms could also vary, and devolve into smaller organisms which were unseen, that he called *microzymia*. This point is crucial. However, Pasteur's reputation was great, and Bechamp, whose work was later proven correct, was soundly crushed and his ideas excluded from accepted practice. The paradigm science labored under for much of the 20th century was thereby hobbled.

The story goes on, and later articles will detail the sordid tale in each aspect, but suffice it to say that biological organisms from my estimation appear deeply pleomorphic. Filtered preparations which exclude all but the smallest nearly sub-microscopic structures, demonstrate active properties whereby disease organisms from which the preparation was derived may be reconstituted from these supposedly sterile preparations. The 'devolved' microzymia as Bechamp had named them, have been demonstrated to exist many times. Montagnier, in my view, must have also discovered the field effects involved. Transformations in biology, not surprisingly, may well be due to informational effects

involving fields, which foster sustainment of many disease processes, and healthy ones as well. The medium, and it appears also field interactions involving it, define morpho-functional adaptation in pleomorphic processes.

The information carried in a particular sort of ELF field if properly encoded, appears quite clearly to affect biological tissues. I will soon post a detailed series of experiments and accompanying theory demonstrating these effects, so very hopeful for the future of medical practice. The very genesis of biology from self-replicating pre-biotic kernel systems, is dependent upon informational transfer!

Please see the original article for embedded references. From:

Tamulis A, Berteska L, Grigalavicius M, and Baltrusaitis J. Quantum Dynamics of Self-Assembly of Minimal Photosynthetic Cells. *Quantum Matter,* 2016; **5**, 5-18, doi: http://dx.doi.org/10.1166/qm.2016.1248

1. "We expect that our quantum chemical calculations results should also be applicable in room temperatures situations based on the work of Cai, Popescu and Briegel where the authors proved that quantum entanglement can be continuously generated and destroyed by non-equilibrium effects in an environment where no static entanglement exists. . . . Rieper et al. modelled the electron clouds of nucleic acids in DNA as a chain of coupled quantum harmonic oscillators with dipole–dipole interactions between nearest neighbours resulting in a van der Waals type bonding. These authors showed that, for realistic parameters, nearest neighbour entanglement is present even at room temperature. These authors found that the strength of the single base von Neumann entropy depends on the neighboring sites. *Thus, we can question the notion of treating single bases as logically independent units.* [emphasis added]."

2. "We have observed during the geometry optimization process of this photosynthetic prebiotic minimal cells that the quantum entangled states remains not depending on the mutual distances of photosensitizer and pFA molecules, i.e., exist invariance of quantum entangled states relative the mutual distance. According to Zeilinger's quantum information theory this invariance of quantum entangled states relative the mutual distance might be used for *quantum information transfer in this certain photosynthetic prebiotic minimal cells system during two quantum entangled excited states" [emphasis added]*.

For further details regarding information as expressed by field interactivity in biological systems, I recommend:

Brizhik, L.S., Musumeci, F., Ho, M-W. Eds. (2003) Energy and Information Transfer in Biological Systems.
River Edge NJ. World Scientific Publishing.

In physics, the idea is older:

http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-02-4969-01

All things…fields and particles alike, are based in information and observation. In my view, there is no conflict in these ideas and the moon is still there if you are not looking at it. Informational exchange is happening all the time through interactions throughout the physical system, and we as human observers are just a small contributor. No undue egoism or solipsism is needed to accept this truth: the universe is self-observing, and we, are part of the universe. The cognitive factor is endemic to the system at all levels…information, is basic to physical processes.

Wheeler in 1990 stated: "It from bit symbolizes the idea that every item of the physical world has at bottom — a very deep bottom, in most instances — an immaterial source and explanation…"

Physics, springs of information.

The very physical world itself, is derived at a fundamental level in a primary way, from information. Indeed, I wish to advance the notion, that all the physical universe is *information pleomorphic*. Fields and particles are but transformations of energy formed up by information. Biology has evolved around this idea, and the rest of the universe as well. All particles and fields, are formed of the same informational/energetic seed which is transformed into all structure types in a sort of morpho-functional alteration to specificity, defined by conditions and information, as in biology transformative processes are pleomorphic. It appears to me from study of the work of Rife and others that: Pleomorphic microbes, which if you follow the theories of Tononi are themselves demonstrative of integrated information, may transform according to the medium and conditions, and from the work of Montagnier I infer associated fields containing information dynamically facilitate transformations of those pleomorphic entities into various microorganisms associated with sarcoma, carcinoma, monococcoid forms found in the monocytes in the blood of cancer patients and, Crytomyces pleomorphia fungi identical morphologically to that found in orchids and mushrooms!

Rous had long ago discovered a cancer virus for which he would all too belatedly receive a Nobel Prize. In 1948 Dr. Virginia Livingston-Wheeler began studying tumors in which she then found the same organism. She came across the work of Dr. Eleanor Alexander-Jackson who demonstrated that tubercle bacillus went through many changes, (as Kendall, Rosenow and Rife had shown already in the 30s, a fact which had been forgotten).

Livingston-Wheeler found the extraordinary pleomorphism intriguing and wondered if cancer behaved pleomorphically. Her paper which confirmed the fact was published in 1948 in *The New York Microscopical Society Bulletin*. It concluded as follows:

"In conclusion it may be stated that a definite mycobacterium is observed in many kinds of tumors. Its presence within the tumor cells as well as within the blood of the patients suffering with the disease can be demonstrated." Livingston-Wheeler and Alexander-Jackson had demonstrated that Rous had found a virus which was *in actuality a*

pleomorphic bacterium.

Livingston-Wheeler's assertions of pleomorphism were confirmed in 1950 by Dr. James Hillman of RCA labs in Princeton NJ. via electron microscopy, whose observations gave confirmation of the filtered form.

For background and support see: Hume's *Bechamp or Pasteur*, Sonea and Panisset's *A New Bacteriology*.

I assert: It appears, that information affects structural outcomes in biology, and physics. *Biology and physics are informationally morpho-functional.* Wheeler was right. After all, chemistry and biology are both sub-examples of a primary physical basis, are they not?

If this is so, we should be able to use information to alter biological systems, without recourse to costly toxic drugs. Yes, perhaps this *is* the case. Perhaps, we will soon be in a new age where toxins, addiction and massive profit for drug companies…will be a thing of the barbaric and forgotten past. Let us cast our eye here, to a future where monetary enslavement, addictive poisons and prohibitive profits reaped for medical care, can be dispensed with—permanently. Perhaps, there is hope.

In a new paper which will be covered in detail later: "*Quantum Information Medicine: Bit as It—the future direction of medical science: antimicrobial and other potential nontoxic treatments*," we can see information, so deeply akin to a *cognitive element*, doing the work of dangerous drugs. Question: Why study cognitive quantum theory? Answer: Because it is more directly important and practically applicable than any other.

From the abstract of *Quantum Information Medicine: Bit as It—the future direction of medical science: antimicrobial and other potential nontoxic treatments* (in press *World Journal of Neuroscience*):

> . . . Empirically rigorous demonstrations of antimicrobial agent associated electromagnetic informational inhibition of *MRSA*, *Entamoeba histolytica, Trichomonas vaginalis*, *Candida albicans* and a host of other important and various reported effects have been evidenced, such as the electro-informational transfer of retinoic acid influencing human neuroblastoma cells and stem teratocarcinoma cells. Cell proliferation and differentiation effects from informationally affected fields interactive with aqueous systems are measured via microscopy, statistical analysis, reverse transcription polymerase chain reaction and other techniques. Information associated with chemical compounds affects biological aqueous systems, sans direct systemic exposure to the source molecule. This is a quantum effect, based on the interactivity between electromagnetic fields, and aqueous ordered coherence domains. The encoding of aqueous systems and tissue by photonic transfer and instantiation of information rather than via direct exposure to potentially toxic drugs and physical substances holds clear promise of creating inexpensive non-toxic medical treatments.

Information, does the work of the drug molecules with which it is associated and from which it is derived. It affects and differentiates malignant cells, they change form due to information alone, exactly as if exposed to the chemical differentiating agent from which the information was extracted.

Here we see a new turn on Wheeler's *'it from bit*:' *Bit as It.* Information, affecting cells in place of molecular substantive exposure. Drugs: so *unsafe, addictive, profitable and costly*— perhaps, if we look closely and with an open mind, for little investment, perhaps we may find: Hope. The future of medical practice is a question of physics: a question —of *informational pleomorphism*.

You may contact me through the staff contact page at *Mind* magazine:
www.mindmagazine.net