

## **Molecular Qi : A Path Between Eastern And Western Medicine**

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I have been schooled in the western tradition of scientific research long enough to delight in lab work, and to have confidence in material structure analysis to explain phenomena. But after a long period studying alternating current and field theory, I also learned that it is the periodic oscillations in matter and energy that are the real organizing and organized states of nature. The durable states such as the elliptic paths of planets and the orbital states of atoms are pulses. The higher living forms have an electro-vascular pulse until they die, and their activities oscillate between waking and sleeping, activity and repair, cell division and cell death, and the cycles of the seasons.

For the last eleven years I have studied an electron transfer reaction involving the gene material – DNA, catalyzed by a synthetic catalyst made up of the vitamin lipoic acid, and the precious metal palladium. This catalyst transfers electrical charge to DNA. The catalyst is in turn re-charged by fatty acids such as linoleic acid. Thus a continuous current can be made to flow from the cell membrane lipid layer, radially inwards through the cells to their DNA. This inward current has been shown in a variety of experiments to be destructive of anaerobic cell groups including certain tumors and protozoa. The dynamics of this electronic process appears to emerge from the liquid crystal nature of palladium-lipoic acid, and the presence of the ultra-low frequency oscillation it shares with DNA. The electrical signal elicited from palladium-lipoic acid at its narrow resonant frequency can be shown by electro-analysis to be p-type semi-conduction. The frequency is .29 Hz. This signal has a frequency purity and an extremely narrow voltage band, properties one might expect from a crystal semiconductor. Therefore the signal is a coherent electronic signal with a long range. Since this signal electronically reduces DNA, it protects against DNA oxidative mutagenesis.

But the inward current flow and pulsation is global. It acts in all cells. And this safe and global signal catalyst is believed to be a mimic of processes present in normal, healthy cells. This proceeds from the idea that vitamin-mineral complexation is an active area of biochemical activity. In such a case, the inward current catalyst is a supplement to a natural energy pathway. And it is from Eastern Medicine that we learn of such energy pathways or Qi. It is from the perception of Qi that we see carcinogens as toxins which prevent energy flow. And by observations of the liquid crystal structures of palladium-lipoic acid, DNA, prothrombin, and actin, we show in our experiments the destructive effects of carcinogens on liquid crystal structure. These structures of biological polymers achieve beautiful form by external packing of their quaternary states in the right environment. Claud Bernard would have said “internal milieu”. The carcinogens fragment the packed structures. The crystals and their fields are destroyed. A primitive disease state emerges when the field energy of large molecules is depleted. The carcinogens have caused energy to stagnate. Is it macro-molecular free energy or Qi ? Will we understand by experimental quantitative assay, or by the vision of the flow of energy forming and sustaining life ? Perhaps we can hold to both.