

The philosophical reflection on human consciousness, the origin and nature of qi energy in connection with the scientific theory of Bioplasma

Marcus Bongart Institute for International Standards of Medical Qigong in Sweden

A human being creates oneself.

Human creativity is inseparably connected with touching matter in constant search for new expression. In the creative process a human thought must first touch the matter to sense its shape according to a new form and functional usage. In return, matter releases new emphases in the mind of the creator, forcing continuous progress on one. In other words, a constant search for new ways of solving problems is posed by evolving life.

From time immemorial human beings have always wanted to shape matter according to their own intuition, according to their own artistic values and needs.

The formation of matter into a new artistic shape directly affects both originator and environment. There is a continuous informative feedback of initiated activities.

In this way, a human being becomes a sculptor of oneself by constantly interacting with matter. This human creative action derives from the whole paradox of human life. No-one in the world is born a human being; each person becomes a human in the long process of shaping and 'humanizing' one's consciousness.

In the history of the course of life, a slow but systematic outlining of awareness in inanimate matter, transforming it into an animated matter, is noted. The evolution of consciousness is confirmed by vast experience, represented by the development of the whole anthroposphere.. Reasonably approached awareness, that is, sensing the evolutionary scheme of life transmitted by the Infinite can accelerate and deepen the process of becoming a human, but, misread, can also be an impediment. It follows from the nature of consciousness itself, which is a constantly self-improving mechanism, undertaking tasks which shape humanity at both the individual and collective level, and its entire natural habitat.

In the search of new solutions

Human beings, through close contact with nature, have persistently refined their senses for the reception of impulses. Simultaneously, passing the surrounding matter through their own hands, they have, slowly but steadily, changed their environment.

These changes in the surrounding environment meant that the old instinctive contact with nature has been lost over time, or seriously weakened, in favor of a new mechanism, that of consciousness.

Consciousness is able to run in parts of our brain responsible for both intercellular communications within the body and with our environment. This biological mechanism has the ability to download and confirm information, playing a key role in the continual evolutionary process of life.

It seems that the great thinker and anthropologist of our time Pierre Teilhard de Chardin was right when he wrote that consciousness is a characteristic of all matter (Teilhard de Chardin 1964).

All logic suggests that the start of life, including consciousness, must have been inductive. Therefore, bringing awareness down to the phenomenon of receiving and confirming information by the matter, it will be easier to understand what potential opportunities are available to a human being in influencing oneself and the surrounding environment.

In any case, from the bioelectric point of view, awareness equals receiving and sending information in space. These two effects - the reception and confirmation are the essence of consciousness. It is this way that our

consciousness can change the energy state it possesses, as living matter is adapted to receiving information, retuning its own energy system and sending information confirming the change that has taken place in it.

It also seems that the constant increase in awareness is the only way for evolutionary changes to lead life to its natural equilibrium, at which the entire universe aims. (Sedlak 1969).

Human consciousness has the possibility of acceleration, deceleration, or to correct evolutionary processes of life by mobilizing the relevant parts of the human brain. This is precisely how a human being becomes a sculptor of one's life, and of the surrounding environment. This unique activity of the human brain cannot be replaced even by the most sensitive test equipment.

Life is a news program carried by an electromagnetic wave, generated by the Infinite, and forming its own carrier. This truth is reached slowly, requiring an extraordinary intellectual effort by a human being who is better and better equipped with the scientific and research apparatus confirming one's insightful vision of life. The pace of progress accelerates. It is an inevitable result of increasing research capacity, and human understanding of the phenomena thus discovered.

Electromagnetic nature of "Qi"

DNA has a helical structure which allows it to use both electric and magnetic components of an external electromagnetic field. This follows the construction of an electronic and protein antenna of DNA, which is shaped as :

a rod (as an electric dipole),
a ring (as a magnetic dipole).

In the evolutionary process of shaping the antenna of DNA, the structural transceiver capacity has been used up to the maximum. It is manifested in the external field by spontaneous tuning of the antenna for optimal reception of information favorable to life. No wonder that the possibility of plant, animal and human cells for the automatic recovery of disturbed balance in their field was observed quite early. But it has also been noted that this mechanism fails in very specific conditions.

This must be seen as the reason for the emergence and development of treatment methods, characteristic of traditional Chinese medicine, leading to control the potential of the "Qi" energy, and thus to recovery of the lost balance of the fields in the cells of an animal or a human body.

Studies in physics and theoretical biology clearly show the electromagnetic nature of any changes taking place in living and inanimate matter. An example of this may be found in the structure of DNA, the formation of which is believed to result from the mutual influence of electromagnetic streams and matter upon each other. This can be explained by the current prevalence of thermal radiation, which is closely linked with the development of inertial electromagnetic fields. Heat constitutes "incoherent energy", producing irregular movements of particles in each substance.

When a photon meets an atom in which the electron orbit energy difference is equal to the photon's energy, an electron jumps, absorbing light, from the (inner) orbit which has lower energy out to the (external) orbit richer in energy, which assumingly has not been hitherto filled by an electron. The period of time in which an electron remains in the excited state is generally very short, approximately from 10^{-9} seconds to microseconds. In "excited" orbits, showing weak phosphorescence, electrons remain no more than a second. After this time, they revert to their primary orbits, emitting photons. The interaction of light (an electromagnetic wave) and matter in general constitutes just such elementary acts, with the participation of all possible light quanta (of different energy and wavelength) and the corresponding electron orbits.

Energies are very large for electronic transitions emerging from the innermost shells of an atom. In the case of heavy atoms, the regressive transition results in X-ray emission. In the case of shells more distant from the core, which are still occupied by electrons, an electron transfer to a higher shell requires a delivery of much less energy. As a result of the regressive jump, ultraviolet radiation or visible light is emitted, and in the case of small differences of energy, infrared radiation.

Outermost electrons of an atom are called "valence electrons" and they constitute a binder for chemical bonds. These electrons are spread over several atoms, if in a chemical reaction a new atomic structure (molecule) is formed. Moving along the orbits, which embrace atoms, they condition the structure of the atomic contents. Valence electrons are also called optical (light) electrons. They become excited while absorbing light. As a result of the return jumps into the initial orbits, there appears the emission of visible or ultraviolet (ultra low-mass) radiation.

Therefore, as a result of inert heat collisions or, more precisely, the emergence of inertial electromagnetic fields, a transfer of electrons to higher orbitals takes place. Their regressive transitions are accompanied by emission of the inertial electromagnetic radiation. The expected intensity of this radiation results from the Planck formula, which defines the number of regressive jumps, per a unit of volume, a unit of time, and the range of energy for each temperature and wavelength. Thus, the intensity of photon flux for each wavelength it is known in physics.

It seems that the development of science, constantly seeking better and better understanding of the function of an electromagnetic wave in the processes of life, allows, with a high degree of probability, for a statement that "Qi" is of electromagnetic character. Otherwise, this energy would not be able to influence the plant, animal and human cells to the extent already well-known to us. Postulating the electromagnetic nature of "Qi" here is the only logical, and at the same times the only acceptable, alternative from a scientific point of view.

Acupuncture and qigong in the bioplasmic environment

In the constant search for universal knowledge of life, since time immemorial we have invariably been asking ourselves the same questions:

what is life?
how to stay healthy?

For answers, we turn more and more often to other cultures for new methods of treatment and research, as well as scientific inspiration. Recently, more and more interest is being turned to the medical arts of traditional Chinese medicine, built on the phenomenon of the pervasive nature of the "Qi" energy. The dynamics of "Qi" here are used to describe functions of the entire body and all the processes taking place in it.

The ancient science of Chinese medicine placed this kind of energy in animal and human organisms in specific energy channels called meridians. These channels run in biological systems in a precise manner and in precise locations, communicating both with all the internal organs of the biological system and with the external environment - the Infinite, through biologically active points occurring on the surface of the skin (acupuncture points). Knowledge about them has served for the development of different forms of medical impact on a human and an animal body, by:

Controlling the flow of "Qi" between the meridians
Closing or opening biologically active points to the "Qi" energy
inductive transmission of "Qi" in the coupling of one biological system to another.

Adequate techniques used for these medical process include:

Acupuncture and forms of manual therapies related to it,
Chinese massage
Qigong.

All of the techniques mentioned above are aimed at equalizing the "Qi" energy level, which conditions the health of an animal or human body.

In recent decades, research conducted in China, the USA, Russia and Europe has been helping to better define the properties of biologically active points, which are activated from the first moments of the birth of a living system. It is also noted that these points are continually active and are subject to change depending on time of day, emotional state and health of the body.

Scientific research has allowed us to observe that the diameter of the biologically active points ranges from 1 mm to 5 mm in a healthy body, while in the states of health disorders, those points can grow up to a diameter of approximately 1 cm.

A Soviet scientist, the physicist B.I. Adamenko, (Adamenko 1973), constructed special apparatus to measure the electrical activity of biological points, and called it CCAP (Conductivity of the Channels of Acupuncture Points). Using this apparatus, he registered, together with a psychiatrist Vladimir Raikov, electrical activity of acupuncture points in various states of activity of the human body.

During the studies, they found out that the biologically active points are subject to change depending on the stimulation of the human brain. During sleep, when brain activity is reduced, the diameter of a biologically active point is about 1 mm, whilst during an increased activity (awake state), it is enlarged. They have also noted that all emotional states affect the diameter of biologically active points. The results of these studies were published in the sixties by V. Raikov, in popular science, in *Kolsomolskaja Pravda*.

A Soviet scholar, A.A. Arewszatiana observed that an increase of temperature in onion cells results in the occurrence of a shift of broad maximum in the ultraviolet to longer waves. This phenomenon is caused by the fact that an increase in temperature is followed by increases in the probability that the distances between pairs of rules in the DNA network become greater because of higher energy of photons. As a result, the share of long-wave ultra-low-mass emission of photons increases.

The results of these studies can be generalized by applying them to all forms of life since animal and plant cells do not differ in behaviour. It is also not excluded that the change in diameter of biologically active points in various states of activity of the human body observed by Adamenko and Raikova should be linked to this particular phenomenon.

The medical achievements of acupuncture caused great interest in the USA through the publication of an article by James Reston in *The New York Times*, July 26th, 1971. The author described in it his own experience with acupuncture as a method of anaesthesiology used on him by the Chinese doctors during an appendicitis operation. This article sparked a heated debate on American soil among enthusiasts and as well as sceptics of this foreign method of medical treatment. In this debate, both sides lacked arguments with which to explain the operating principles of acupuncture and therapeutic approaches represented by the traditional Chinese medicine (see Kippner & Rubin 1973; Cielecki 1979 s. 69).

Science like bioelectronics met this general need half way by giving a scientific basis for the interpretation of traditional Chinese medicine using "Qi" in its therapeutic action. Bioelectronics allows us to extract the methods of traditional Chinese medicine, including acupuncture, from the context of a phase of folk medicine. The concept of "traditional medicine" is not necessarily synonymous with the impossibility of scientific confirmation. Polish bioelectronics allows to interpret traditional Chinese medicine electromagnetically and to put it on the borderline of the research methodology used in molecular biology and quantum physics.

All scientific activities must fit within a specific system of thinking, which is equivalent to a framework of reference for the interpretation of the results of research. There are no scientific results suspended in an interpretative vacuum.

It is observed through research that in traditional Chinese medicine we are confronted with the quantum processes of electromagnetic emission, quantum-acoustic effects and phenomena of luminescence (ultra-low-mass emission), considered to be essential phenomena of life. In this way, in traditional Chinese medicine, we are up against a phenomenon of biological plasma in a living system.

Bioplasma is a dynamic biological reality that results from the appropriate density of electrical charges, triggered by chemical reactions and electronic processes in the semiconducting centre of organic compound.

Bioplasma, in the form of each physical plasma, carries all types of energy as a change in its electric profile. The studies by Adamenko and Raikova allow us to maintain with a high degree of probability that acupuncture is a direct action, through biologically active points, on the electric state of biological plasma. The puncture of a biologically active point produces an even transfer of information in the plasmic environment of the entire biological system and this disturbance should be seen as a medical effect.

Ancient descriptions of Chinese medicine allow to see “Qi” electromagnetically, from the perspective of current achievements of theoretical biology and quantum physics, and to see its healing techniques as a direct effect on the plasma of a biological system.

Only in a bioelectronic system of thought does modern scientific research on the medical methods of TCM, using precise measuring apparatus, and carried out in China, the USA, Russia and EU countries, find an appropriate frame of reference for interpretation of the obtained test results.