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Perspective Article

Biofield and Biorhythms Patterns that link them "Psi as a Model"

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Abstract

This is a scientific short essay, that discus briefly in conductive and deductive way nature of both biofield and biorhythm and how psychical (psi) phenomena, as human frontier ability, may be a link pattern that connects them. Then from theoretical background, I suggest hypothesis about psi nature, as a join pattern of two of them.

Keywords: Biofield, biorhythm, psi phenomena.

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1. BIOFIELD:

(a) Biofield Concept, Meaning:

In 1994 a panel of scientists at, chose the word "biofield", to describe the field of energy and information that surrounds and interpenetrates the human body [1].

In addition, biofield may refer to many alternatives, as; aura, paranormal, energy medicine, integrative and alternative medicine, Electrophysiology; the study of electric prosperities of cells and tissues, magnetoception; sensory of magnetic fields by organisms,

Bioelectromagnetics; scientific study of electric biofields of organisms, medical imaging; scientific magnetic electrical biofield imaging, or magnetoencephalography; brain imaging by magnetic field sensing, Electroencephalography; brain imaging by electric field sensing, magnetocardiography, heart imaging by sensing its magnetic magnetogastrography; stomach imaging by sensing magnetic fields, and Magnetomyography; muscle imaging by sensing magnetic fields, produced by electrical impulses.

(b) Biofield Nature:

Biofield refers to the surrounding field that emitted from biological systems.

Many scientists gave multi- suggestions about the nature of this field.

(i). First characteristic of its nature is existence through distance suggested by David Labuschangne, in

his paper about biofield nature in 2003. He explained that biofield transmits energy and information, at low power over long distances, which may exhibit anomalous behaviors- as telepathy, dowsing, PK, and psi healing- due to their resonant interaction [2].

(ii). Second characteristic is morphic field, suggested by Rupert Sheldrake; these fields contain inherent memory, as he called morphic resonance; which involves transfer of information.

Field interaction as group interaction, as a whole; this, may explain telepathy that interconnects the individuals, also, precognition, PK, and remote viewing. His theory suggested that psi as telepathy occurs between bonded members of social groups rather than between strangers [3].

Therefore, Sheldrake suggested what he called "psi field theory", he hypnotized, field, which has no apparent distance, so that everywhere appears to be here, and, the field retains information, which is everywhere available [4].

(iii). Third characteristic is, biofield may generalized as nature law; universe is more like an organism than a machine, with this organic hypothesis laws of nature are more like habits, which has an in-built memory, involved inherent unconscious memory. There is a background resonance for all humanity, which leads to radical reaffirmation of Jung's concept of the collective unconscious. Any reaction tunes one in by similarity to all previous alike occasions [3].

(iv). Fourth characteristic is, biofield maybe a conscious field; new physics shows that mental operations are analogous to the physical world, emotions like photons, all carry energy. Intelligent life is an abstract reflection of the universe, and the mind is an active participant in cosmic evolution. Quantum mechanics consider events to be subspaces of a vector space; in quantum entanglement, observation on one part of the system instantaneously affects the state in another part of the system, even if space-like distances separate the respective systems ^[5].

Exactly as Gaia hypothesis, or Gaia theory, which proposes that living organisms interact with their surroundings on Earth to form a synergistic and self-regulating, complex system that helps to maintain and perpetuate the conditions for life on the planet.

Awareness is associated with the highly organized neuronal assembly of the brain. Unhindered awareness might exist during clinical death. Death halts brain activity and sensory interaction, allowing the mind to increase its entropy as transverses the cosmos' temporal field ^[5].

New physics explains the nature, as nonlocal one, suggested that particles of matter not accurately separated. There is a "holomovement" as David Bohm said; hidden "nonlocal, implicit order".

In his paper about extra-dimensional entities, Daniel, suggested telepathic experience and other psychical ones, as experiences that happen in ionization level. He described telepathy, as example, as psi contents that jump the barriers, and added that ego had spent years erecting.

In his paper, Fadden, J. MC. suggested a key aspect of consciousness field; he represents bound or integrated information promoting an increasing conviction that the substrate of consciousness must be capable of encoding integrated information in the brain. However, he insisted, "information is psychical", so integrated information must physically integrated. He argued that nearly all examples of so-called integrated information, including neural information processing and conventional computing, are only temporary integrated in the sense that outputs are correlated with multiple inputs: the information integration is implemented in time, rather than in space, and thereby cannot correspond to physically integrated information. He pointed out that only energy fields are capable of integrating information in space. He described the conscious electromagnetic information (CEMI) field theory that he proposed; consciousness is physically integrated, and causally active, information encoded in the brain's global electromagnetic (EM) field. He extended the theory to argue that conscious implements algorithms in the space rather than time, within the

brain's EM field. The CEMI field theory proposes a scientific dualism that is rooted in the difference between matter and energy, rather than matter and spirit [6]

2. BIORHYTHM:

(a) Biorhythm; Nature and Concept:

People frequently talk about body clocks, a term that refers to the patterns of energy and exhaustion, functioning and resting, and wakefulness and sleep that characterize daily life routine. In fact, the concept of the body clock, or circadian rhythm, is part of a larger picture of biological cycles, such as menstruation in mammalian females. Such cycles, which assume a variety of forms in a wide range of organisms, are known as biological rhythms. These rhythms may define as processes that occur periodically in an organism in conjunction with and often in response to periodic changes in environmental conditions—for example, a change for light and seasons.

Then biorhythm is a biological rhythm that producing from biological systems, and occurs periodically, in response to surrounding, environmental, field changes.

(b) How does biorhythm work?

Rhythm is one of the most common aspects of nature laws.

Biological rhythms are inherent to life itself and can detect by all the senses. We can see them, hear them, feel them, smell them, and we may even taste evidence of them. Perhaps the sense of time itself could consider a sixth sense. In many ways, we can sense how long a time has elapsed since some occurrence last noted, as well as the time of day, time of month, and time of year from cues all around us. Life moves in synchrony to the beat of clocks and calendars, some outside the body and some within the very cells of all living things. Rhythms are among the common strands from which the web of life itself is spun [7].

By definition, a *rhythm* is a change that repeated with a similar pattern. Humans like all other organisms that inhabit this Earth, have a rhythmic order underlying life. Actually, change, not constancy, is the norm for life and the rhythmic timing of change makes predictability a reality ^[7].

All known variables of life, be they levels of potassium ions in a cell, stages of sleep, or the opening and closing of flowers, have either directly or indirectly been found to display rhythms. Furthermore, adaptations of organisms for survival relative to geophysical cycles, such as the solar day, seasons, and tides, attest to the evolution of the genetic aspects of certain types of rhythmic timing [7].

The rhythmic nature of life influences the very existence of organisms, commencing before conception

and extending beyond death. Rhythms may be the most ubiquitous, yet overlooked, phenomena of life. They are such an integral part of life that the absence or perturbation of specific oscillations (e.g., brain waves and heart beats) in humans and other animals is used in the practice of medicine to distinguish between life and death, as well as between illness and good health [7].

We have become a "clock driven" society, one that arranges time according to the demands of a commercial or industrial complex often fostered by profit and/or leisure, rather than arranging time so that our internal body clocks are in synchrony with the natural environment of this "clockwork Earth". Accidents, catastrophes, and illnesses are inevitable when the time cycle of society does not heed the biological rules that underlie the rhythms of humans or other organisms. For example, the reason that many traffic accidents occur during night and early morning hours is not only due to the difficulty in seeing in reduced light, but also to a decline in the alertness of the driver who is trying to overcome the physiological urge to sleep [7].

Alertness is but one of the many performance variables that are under rhythmic control. It may be no coincidence that some of the major industrial catastrophes of our time not related to weather, but were associated with erratic work–rest schedules and fatigue [7].

The study of biological rhythms, known as chronobiology, is an integrating discipline that has ranked parallel with the more classical disciplines of development, genetics, and evolution. All four of these disciplines span the structural levels of organization from molecules to ecosystems. A comparison among the four disciplines concerning duration and episodic designation. The inclusion of chronobiology in formulating questions and hypotheses that lend themselves to experimentation now provides a broad unifying approach that extends from single-celled organisms to higher plants and animals. This can see by the continuing annual increase in the number of published scientific papers, which are accruing in the thousands per year since the late 1960s, and can found in an online literature search that uses circadian and other rhythm domain terms as key words [7].

Historically, the interdisciplinary nature of chronobiology introduced in the first international organization focusing on the study of biological rhythms. Three Of the five review papers presented at this conference that were of a more theoretical nature, one was based upon plant rhythms, by Anthonia Kleinhoonte from Holland, the second focused on animal rhythms, by Hans Kalmus from England, and the third dealt with human rhythms, by Arthur Jores from Germany [7].

There are some rhythm features, as numerical description, answering when the cycle completes, in minutes, hours....year, genetic basis of biological rhythms and the suprachiasmatic nucleus (SCN) in the brain as a master circadian clock and the role of melanopsin in retinal ganglia in perceiving light for synchronization to alterations in external light and dark [7]

Therefore, rhythm defined as repeated with a similar pattern, probability, and period. The period represents the time required to complete a cycle. It may range from milliseconds to more than a century. Frequency is the number of cycles in a unit of time and is the reciprocal of the period [7].

Social biorhythms: Social Synchronization

Social cues as synchronizers have observed for various ultradian, circadian, and infradian rhythms. Social synchronization refers to a behavioral rhythm (e.g., sleeping, eating, grooming, drinking, physical activity) being regulated by an external source generated by another individual or some other social condition. It occurs not only in humans, but in many other species, as well, including fish, birds, monkeys, deer, coyotes, hamsters, mice, rats, crabs, and bees [7].

Communication

For the most part, we synchronized to be in phase with our own geographical location, the place where we send and receive messages. If we are aroused to communicate near dawn, the chances are that we will be less vigilant or awake than if it occurred at 11:00 h. The duration of time that is required for direct communications may measured in fractions of a second, but the duration of time that could exist between the phases of the biological rhythms for individuals who are in communication with each other may be in the order of hours. In other words, one individual may be more alert and attentive than the other who is in a different time zone. This difference in phase is one of the problems facing international corporations when they attempt telecommunication conferences among persons located in different parts of the world [7].

(3) Patter that link biofield with biorhythm; Psi, as an example:

Biofield is a conscious surrounding environment that interact with us reciprocity, while biorhythm is our repeated periodic behavior, as a response to such environmental periodical changes. Biofield is a physical component and biorhythm is a response to this component.

Physiological rhythms synchronized with solar and geomagnetic activity. Science that studies how solar and geomagnetic activity affects organisms, especially human, called heliobiology. Global Coherence Initiative (GCI) hypnotized that: each individual affects the

global information field, and a large number of people creating heart-centered states of care, love and compassion, will generate a more coherent field environment and information that can benefit others and help offset the current planetary wide disorder and incoherence [8].

Related to the above hypothesis; human emotions and consciousness interact with and encode information in the geomagnetic field. Within this field, information can communicate nonlocally between people at a subconscious level, which in effect, links all living systems and influence collective consciousness [8].

In GCI 2010 interconnectedness study, 1,643 members from 51 countries completed a survey twice weekly, in random times, six days each week, over a six months period, scales were: positive effect, well-being, anxiety, confusion, fatigue and physical symptoms. When looking at the data results, in Saudi Arabia, for example, it is clear when the earth's magnetic field was calmer, study participants felt better, were more mentally and emotionally stable. The same observation made for increased activity in the resonant frequencies and the solar radio flux [8].

In the mid of 1950s, W.O. Schumann and H. Koenig, first measured frequencies that consisted with a mathematical model which predicted an Earth-ionospheric resonance, called Schumann resonance (SR). As the brain is very sensitive electromagnetic organ, changes in geomagnetic activity and SR, appear to alert brainwave and neurohormone responses [8].

Plasma is the name given to highly ionized gases threaded by a magnetic field, and the ionosphere is a layer of plasma surrounding the earth, studies show that an increase in magnetic field line resonance can affect the human cardiovascular system ^[8].

The more people increase their personal coherence and ability to self - regulate, they benefit themselves and others, because their heart magnetic fields, which are radiated out into the local environment become more coherent. Being in a heart-coherent state strengthens and stabilizes the coupling and transfers of bidirectional information to the planetary magnetic fields [8].

In an online symposium, November 2020, Parapsychological Association published abstracts about ecology nature and parapsychology; the field of ecology defined as, the study of the relationship between living organisms and their physical environment, a major concept is ecosystems, which are about relationships, a connection of everything through networks of reciprocal exchange. The study of this rising field suggests "ecological consciousness", then "ecology of psi subject", in its natural environment, to link ecology and psi, another concepts developed, as:

"extrasensory ecology", "transpersonal ecology", all these suggested concepts saw a kind of spiritual 'vital force', behind some complex psi phenomena, like ectoplasms. 'Social animals' also inspired several parapsychologists, with telepathy, as a missing link to understand zoopsychism, they highlighted at each level from cells to crowds- a "coalition for existence" in opposition to the Darwinian "struggle for existence" [9].

CONCLUSION AND SUGGESTED HYPOTHESIS

We are living in a nonlocal, entangled, resonant, organic, conscious, rhythmic field, all of ours; systems, individuals, groups, respond to this giant natural law; continuous response to this continuous code, including what we called psi, or paranormal, the most complicated phenomena to over control in labs and daily life.

Hypothesis suggested from all above:

- 1. Psi is a material existence, which emits from us, as coded information, for example, in bio photon shape.
- Psi is a function of unconscious mind, which links biofields with all its characteristics, with biorhythm as a response to these fields. Unconscious mind is our roots, deeps that link us with nature and nature's laws.
- Unconscious mind is a function of conscious biofield and biorhythm.
- Psi synchronize with life beats, geographical locations, and feels life spin, rhythms unconsciously, and then react to resonate events, and things.
- 5. Psi behavior represents how much we are embedded to hidden nature's laws; response accordingly to life, universe, nature deep structure, and feel unconsciously the nonlocality.

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