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## Introduction to Raksanizer: The Quantum Biological Future of Neurogenesis

By Abhijit Naskar

*Abstract-* Since the beginning of human history, mankind has been asking a very simple question, “what is mind?”. As humans developed in the path of science and philosophy, this question became more and more complex with thousands of other doubts and confusions emerging from it. Back in the days, when humanity had just discovered fire, if somebody behaved unnaturally or crazy, collective ignorance defined it as some supernatural possession. Even today, to our disgrace, this ignorance runs through the profound and remote veins of many civilizations. But, thinkers throughout history dared to ask questions to unfold these mysteries of human behavior. Freud and Breuer took a step further in the clandestine arena of human mind, by finding out jewels of facts behind Hysteria. Following the footsteps of Freud, another man named C.G. Jung, made us more aware about the truth behind the most subtle acts of human psychology. On the pillars of all these rising knowledge, modern neurology became far more delicate and sophisticated, shedding light over different dark regions of the brain.

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# Introduction to Raksanizer: The Quantum Biological Future of Neurogenesis

Abhijit Naskar

**Abstract-** Since the beginning of human history, mankind has been asking a very simple question, "what is mind?". As humans developed in the path of science and philosophy, this question became more and more complex with thousands of other doubts and confusions emerging from it. Back in the days, when humanity had just discovered fire, if somebody behaved unnaturally or crazy, collective ignorance defined it as some supernatural possession. Even today, to our disgrace, this ignorance runs through the profound and remote veins of many civilizations. But, thinkers throughout history dared to ask questions to unfold these mysteries of human behavior. Freud and Breuer took a step further in the clandestine arena of human mind, by finding out jewels of facts behind Hysteria. Following the footsteps of Freud, another man named C.G. Jung, made us more aware about the truth behind the most subtle acts of human psychology. On the pillars of all these rising knowledge, modern neurology became far more delicate and sophisticated, shedding light over different dark regions of the brain. Now, we know that there's no supernatural impact upon abnormal human behavior or instability of mind. If there's anything closely real and scientific to the term "supernatural", it is "natural impact", for nature makes a huge impact on the mind and molecules of every living being. This phenomenon becomes more evident when there occurs a geomagnetic disturbance on planet earth. There have been reports of an increased frequency of seizures in epileptic patients during geomagnetic disturbances. Since the dawn of mankind, the geomagnetic fields have been interacting with each brain on mother earth, thus making it vulnerable and sensitive to different kinds of electromagnetic radiation. This gives us an evolutionary advantage in developing a cure for the cruel and sometimes clandestine diseases of human mind or the entire Nervous System. Utilizing the basic electromagnetic link between the characteristics of mother nature and man, a device is being developed by me, named "Raksanizer", which begins its journey with curing neural degenerative diseases, while opening a gateway for the advent of an emerging field of science – Quantum Biology.

**Keywords:** *mind, possession, behavior, freud, breuer, hysteria, c. g. jung, geomagnetic disturbance, seizures, epileptic, electromagnetic radiation, raksanizer, quantum biology.*

## I. INTRODUCTION

The entire human anatomy is a living tranceiver and the most delicate one too. The electrical and electronic signals within the living system are tuned to perfection by mother nature. Each molecule has its electromagnetic signature. Each molecular interaction

and each physiological process generates fields as well. All of these fields are compatible with our beloved planet earth. In healthy tissues interferences and incompatibilities do not occur. Each heartbeat, each breath, each emotion generates characteristic electromagnetic fields that travel through the living matrix to neighboring cells and tissues. This gives birth to a magical intricate web of coordination and harmony. And whenever problems and disruptions arise in this intricate web in the form of diseases, delicately designed forms of subtle Electromagnetic Radiation can induce and restore order inside the living system at a molecular level.

To begin with external Electromagnetic Radiation Induction upon the Central Nervous System (CNS) let's look into the evolutionary background of mankind by means of geomagnetic impact over the human body. The human species has been and continues to be immersed within the earth's magnetic field. Its general intensity averages around 50,000 nT (0.5 gauss) with a discrepancy of approximately a factor of 2 to 3 between the equatorial and polar regions. Living areas above large aggregates of near surface magnetized minerals, such as the Kursk anomaly in the Ukraine, are about 4 times the average intensity. Geomagnetic fluctuations, primarily from alterations in solar activity mediated by changes in the velocity and density of particles in the interplanetary magnetic field (the "solar wind"), are one-thousandth to one hundredth of this steady-state intensity. The durations of these fluctuations are in the order of minutes with median ranges of intensity in the order of 50 to 1000 nT. This ratio is comparable to the differences in magnitude between the steady-state potential differences (~10 to 20 mV) between the rostral and caudal distances of the human cerebrum and the primary time-varying, extremely low frequency fluctuations measured over the cerebral cortices. The majority of the power within this extremely low frequency band is between 1 and 40 Hz with peak to peak magnitudes between 10 and 200  $\mu$ V. Conventional measurements by modern quantitative electroencephalographic (QEEG) technology usually range from 1-10  $\mu$ V/H. Increases in indices of global geomagnetic activity, particularly when disturbances exceed about 25 nT, have been associated with increased incidence of epileptic seizures, unusual nocturnal experiences, and subsequent alterations in behaviors within vulnerable populations. The following list includes a few instances of the enormous documented literature on this matter.

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- ✦ Cardiovascular problems (Bellossi et al 1985; Watanabe et al 1994; Stoupel et al 1993, 1994, 1995; Knox et al 1979)
- ✦ Seizures, epilepsy, convulsions (Stoupel et al 1991; Mikulecky et al 1996; Persinger and Psych 1995)
- ✦ Hypothermia (Bureau et al 1996)
- ✦ Headache (De Matteis et al 1994)
- ✦ Vestibular problems (Persinger & Richards 1995)
- ✦ Bacterial growth (Polikarpov 1996)
- ✦ Intraocular pressure (Stoupel et al 1993)
- ✦ Death (Lipa et al 1976; Stocks 1925)

In addition, a variety of behavioral changes have been noted

- ✦ Crime (Chibrikin et al 1995)
- ✦ Aggression (St Pierre & Persinger 1998)
- ✦ Depression (Kay 1994)
- ✦ Loss of attention and memory (Tambiev et al 1995)
- ✦ Accidents (Grigor'ev 1995)

Experimental simulations of the intensity and temporal shapes of geomagnetic activity in the laboratory produce comparable changes. Recently Mulligan *et al* in Canada replicated the results of Babayev and Allahveriyeva in Azerbaijan, that changes in cerebral power as measured by QEEG occurred during increases in geomagnetic activity above 25 to 30 nT. The most consistent, moderate strength correlations were evident for theta (4 to 7 Hz) and gamma (35 to 45 Hz) frequency bands over the right frontal lobe. However the cerebral changes associated with geomagnetic activity are transient. Most of the biological time the human species is continuously exposed to the more or less "steady-state" or static component of the earth's surface magnetic field. This simultaneous immersion of about 6 to 7 billion human brains, which are effectively very similar semiconducting microstructures within this magnetic field, would be sufficient to produce a secondary field that might have biological implications for survival and adaptation. This secondary field could display emergent properties with qualitatively different characteristics. Thus, applying another secondary flux field to the biomagnetic field of the human physiology it is possible to induce an adaptive healing characteristic inside the brain and the entire CNS to regenerate new pathways of neurosynaptic network, which eventually leads to the cure for all neural degenerative disorders.

## II. DEVELOPMENTAL BACKGROUND OF RAKSANIZER BY MEANS OF GEOPHYSICAL IMPACT UPON CEREBRAL ACTIVITY

Now we'll enter the mysterious gateway of mother nature's scientific wonders and hunt down the elixir to the cure for the degenerative disorders of the nervous system. About 2500 years ago Hippocrates recognized the significance of the weather and climate

on living systems. In the 20th century, the relation between natural electromagnetic rhythms and living systems were explored in the pioneering work of Harold Saxton Burr and his colleagues at Yale University School of Medicine. Life on earth is not isolated from the rest of the universe, but is susceptible to the forces extending across vast distances of space. The fields within the human bodies are inevitably affected by the larger fields of the planet and other celestial bodies. The mechanisms involved are not mystical or obscure – they involve well-documented pathways of interactions. For instance, the cycles of the moon cause changes in ionospheric currents and geophysical fields which in turn influence the fields within us.

The masses of the earth ( $5.98 \cdot 10^{24}$  kg) and the moon ( $7.34 \cdot 10^{22}$  kg) compared to the mass of a single mammalian cell ( $\sim 10^{-13}$  kg) would seem extraordinarily too disproportional to be related. Although the gravitational force between these two major bodies is known to produce tidal forces that affect the height of oceans as a dynamic (rotational) process, the gravitational forces between the mass of cells in organisms and the earth have been assumed to be too minimal to be relevant. Yet intrinsic  $\sim 28$  day periodicities in many living systems have been documented and may be even emerge following brain injury. That lunar phase affects the movement of different classes of vertebrates which can be modified by applied weak ( $\sim 10^{-4}$  T) horizontal static magnetic fields was elegantly explored by Brown. The gravitational force between the mass of an average mammalian cell and the earth is in the order of a picoNewton. When applied across the plasma membrane the energy is within the domain of  $10^{-20}$  J that is associated with the distance between forces of ions that are correlated with the membrane potential. Solutions for velocity and acceleration are congruent with known properties of the ion channel and cell membrane. The differences in gravitational forces between lunar perigee and apogee are within the  $10^{-20}$  J range when applied across distances that constitute neural processes. Calculations of the ratio of gravitational force to a specific range of intensities of rotating experimental magnetic fields produce equivalent electric dipole moments (A·m) that are within the same order of magnitude as that measured for single post-synaptic potentials (Michael A Persinger 2014). The role of gravitational forces and the corresponding magnitudes of energies during evolution upon the physical constraints of the cell and membrane function may be more important than traditionally considered. The emergence of the basic bioquantum unit of  $10^{-20}$  J when the gravitational force between the masses of the earth and a typical cell was applied across the plasma cell membrane could reflect the origin of this biological boundary as well as a yet to be determined role of gravitational energy in cell function. Hence  $10^{-20}$  J would be the very root of a newly

emerging field of science – Quantum Biology, which will quite delicately and eloquently explain the intricate network of all biological systems. This gravitational constraint upon biological systems because they emerged on this planet could significantly influence the adaptation of any terrestrial life forms during maintained planetary exploration or maintained presence on worlds with markedly different masses.

Quantitative solutions indicated that the intensity of the “transcerebral” field produced from all human brains within the geomagnetic field is the same order of magnitude as the values associated with cognitive processes and altered expressions of proteins within the individual brain. This convergence could meet one of the criteria for a holographic-like phenomenon. The transition from 6 to 8 billion brains would be associated with shared energies within individual cerebral space whose frequencies increase across the visible electromagnetic wavelength from infrared to ultraviolet. Magnetic diffusivity indicates all brains could be influenced within about 10 minutes. The application of weak, complex magnetic fields through the cerebral hemispheres elicits experiences of a “sensed presence” or “sentient being” in normal people. Michael A. Persinger of the Laurentian University, Canada has hypothesized these experiences are the awareness of the right hemispheric equivalent of the left hemispheric sense of self and may be the prototype for the god experience. Experimental results and clinical measurements have supported this contention. One of the fundamental principles of behavioral neuroscience is that all experiences are generated by or correlated with brain activity. This activity is determined by the microstructures within the brain and the patterns of electromagnetic and chemical activity within and between these structures. Structure dictates function and microstructure dictates microfunction. There are several important extensions of these principles. The first is that all experiences are responses that must be evoked by physical events or stimuli. However the events that function as stimuli are only an extremely small subset of the myriad events within the environment. The principles indicate that all experiences, from the awareness of the sense of self, to the feelings of love, to the presence of God, emerge from brain activity. Once we can isolate the controlling stimuli that evokes an experience or furthermore induces specific brain activity, then any biological experience including God experience would be subject to experimental verification and reproduction within laboratory and even in the household. The human mind can be programmed in such way that it can experience the sentient being at any place. Even induced ubiquitous genetic changes, shared modifications in protein sequences associated with memory during REM sleep, and limitations upon the proliferation of the species are plausible.

### III. PROMISING NATURE OF NEURAL STEM CELLS IN THE WAY TO NEUROGENESIS

Now digging deeper into the pathway of inducing neurogenesis I shall introduce the most crucial cells for this regeneration process – the neural stem cells. Neural stem cells self-renew and give rise to neurons, astrocytes and oligodendrocytes. These cells hold great promise for neural repair after injury or disease. One of the fundamental concepts of neural repair lies in the replacement of cells that are lost as a result of disease or injury. Numerous investigators have used a variety of means to replace cellular elements in the brain, including transplantation of fetal tissue, primary cells derived from a number of different structures and transformed or genetically engineered cell lines. With each of these modalities numerous problems exist, including access to sufficient numbers of cells, lack of specificity of the repair strategy, immunologic rejection, and, most importantly, lack of efficacy. The discovery of neural stem cells, however, has led to a renewed hope in cellular replacement in the CNS after stroke or other insult, like the degenerative state of Amyotrophic Lateral Sclerosis, Parkinson's, Alzheimer's etc. For a number of years, it was held that there was no neurogenesis in the adult vertebrate brain. The studies of Nottebohm and colleagues demonstrated that adult male songbirds had a robust period of neurogenesis during the spring mating season. As early as 1969, neurogenesis in the adult rodent olfactory bulb was described, with confirmation of this work published in 1977, although these studies were largely ignored. However, in 1993 the studies of Luskin-Lois and Alvarez-Buylla and colleagues clearly demonstrated that the ongoing proliferation of cells in the adult rodent subventricular zone (SVZ) resulted in new neurons within the olfactory bulb. Although not completely proven, current theory holds that within the adult SVZ, a relatively quiescent stem cell gives rise to rapidly proliferating progenitors, which then ultimately give rise to neural precursors that migrate into the olfactory bulb to form granule cells and some periglomerular interneurons. In addition to the olfactory bulb, new neurons are formed in the adult mammalian hippocampus where new dentate gyrus granule cells are regularly added. One of the most important aspects of neural stem cells is their choice of cell fate. Rakshanzier's complex electromagnetic radiation (EMR) forms call for the replacement of specific cell types, such as dopaminergic neurons for Parkinson's, glutamatergic neurons for stroke, and oligodendrocytes for demyelinating disease or spinal cord injury. With properly generated minuscule and complex forms of EMR it is possible to push the reset button within the CNS which will trigger the neurogenesis, defining the fate of the neural stem cells in vitro. This way, as new neural pathways completely

replace the old damaged ones, the highway for the afferent and efferent signal transfer gets to working condition again. Thus any kind of neural disorder caused by damaged or disrupted neural circuitry, achieves a healthy network of signal transfer, which means signals from the CNS can again start to reach every corner of the human body and vice versa without any further disruption. The simplest symptom of the recovery would be healthy motor and sensory activity.

#### IV. RAKSANIZER'S IMPACT UPON CNS

Biological systems completely defy a simple and obvious logic ; larger stimuli should produce larger responses. In living systems weak and subtle fields have potent effects, while there may be little or no response to strong fields. Here intensity doesn't matter, what carries weight, is delicately designed complex fusion of electromagnetic radiation, that'll reinstate the neurogenesis. Unlike the tradition in biophysics to study the effects of magnetic stimulation by employing the simplest of shapes of fields, complexity and information within these fields are more important than their intensity. If one wanted to study the function of the arrangement of molecules upon biological systems, the selection of two molecules of hydrogen and one of oxygen, because "it's simple", would not have permitted the discovery of the unique properties of proteins or nucleic acids. Hence a miraculous mixture of electromagnetic radiation forms at different frequencies, for instance magnetic field, visible light, sound and many others shall be induced throughout the entire CNS by the device Raksanizer in vitro and as a result it'll lead to an amazing rate of neurogenesis making all the degenerative symptoms disappear. proteins or nucleic acids

#### V. SUMMARY

The present time is an intensely crucial period for science and civilization. In the last several decades, modern science has transcended to extent beyond human imagination. Due to the Large Hadron Collider we are finding out crucial secrets of genesis of the universe. Quantum physics has thrown us into the arena of advanced races of the cosmos. As Quantum physics is constantly unmasking the material world of the cosmos, the emerging field of Quantum Biology is in its early phase of enlightening the humanity about the true energetic nature of all the living systems on planet earth and beyond. Raksanizer will enable quantum biology to get inside human nervous system and repair the damaged parts of the intricate web of the living system. It'll make human mind much more aware of its surroundings and less anxious in disturbing situations of life. In the coming few decades with more research and development, Raksanizer will also give a human mind the access to the emotions of another beloved mind

thousands of miles away at another corner of planet earth.

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