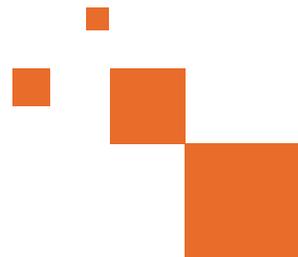


The Biology of **Spirituality and the Idea of God**

Ravikumar Kurup

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Chapter 1

**Anti-gravitational Waves, the Universe and Structure of
the Human Unconscious Mind - Evidence from Studies on
Schizophrenia and Autism**

Introduction

The cerebellum is the site of the unconscious brain. Cerebellum is concerned with automatic acts. Robotic behaviour as seen in autism is localized to cerebellum. The cerebellum is concerned with extrasensory perception, magical acts, poltergeist phenomena and spiritual acts. The cerebellum can be described as the part of the collective unconscious. Cerebellar lesions also manifest with motor phenomenon. Lesions of the cerebellum manifest with axial and appendicular ataxia. This gives a sense of antigravity feeling. Cerebellum is concerned with the tone of the antigravity muscles. The antigravity fields and waves are sensed by the cerebellum. Cerebellar lesions manifest with cognitive dysfunction described as the cerebellar cognitive affective disorder. Cerebellar dysfunction is described in autism and schizophrenia. Studies on normal conscious individuals and disorders of consciousness like schizophrenia and autism show changes in cerebrospinal fluid archaeal activity as measured by cytochrome F420 assay. Schizophrenia and autism show increased CSF cytochrome F420 activity and normal conscious patients show normal activity. This indicated actinidic archaeal growth in the central nervous system. Actinidic archaea can modulate conscious perception. Actinidic archaea are extremophiles and can grow in extremes of temperature, space and antigravity situation.¹⁻³ This led to the plausibility of antigravity wave sensing brain actinidic archaea mediating the functions of the unconscious brain.

Materials and Methods

The permission of the ethics committee of the centre and individual consent was obtained for the study. The groups included in the study are normal conscious individuals (undergoing spinal procedures for surgery), persistent vegetative bihemispheric infarction patients and disorders of consciousness like

schizophrenia and autism. There were 10 individuals in each group. CSF was used for the study and the experimental protocol was as follows (I) CSF+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+cerium 0.1 mg/ml, (IV) same as II+ciprofloxacin and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 °C for 1 hour. Cytochrome F420 was estimated fluorimetrically (excitation wavelength 420 nm and emission wavelength 520 nm).

Results

CSF of normal subjects showed increased levels of the cytochrome F420 after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The CSF of patients of schizophrenia and autism showed similar results but the extent of increase was more when compared to normal conscious individuals. The CSF of normal conscious individuals showed decreased intensity of cytochrome F420 as compared to CSF of schizophrenia and autism patients. The addition of antibiotics to the normal conscious patient CSF caused a decrease in cytochrome F420 activity while addition of cerium increased its activity. The addition of antibiotics to the schizophrenia and autism CSF caused a decrease in cytochrome F420 activity while the addition of cerium increased its activity but the extent of change was more in patient's sera as compared to normal conscious individuals. The results are expressed as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

Table 1. *Effect of cerium and antibiotics on cytochrome F420.*

| Group | CYT F420 % (Increase with Cerium) | | CYT F420 % (Decrease with Doxy+Cipro) | |
|---------------|--------------------------------------|------|--|------|
| | Mean | ±SD | Mean | ±SD |
| Normal | 4.48 | 0.15 | 18.24 | 0.66 |
| Schizophrenia | 23.24 | 2.01 | 58.72 | 7.08 |
| Autism | 21.68 | 1.90 | 57.93 | 9.64 |
| F value | 306.749 | | 130.054 | |
| P value | < 0.001 | | < 0.001 | |

Discussion

Dark matter and dark energy is the repulsive antigravity force that permeates the entire universe opposing gravity. It is responsible for the missing mass of the universe and constitutes 70 percent of the mass of the universe. It is responsible for the expansion of the universe. Antigravity exists as possible antigravity waves. This forms part of quantum vacuum where matter and anti-matter particles and gravity and antigravity particles meet and annihilate each other. This gives rise to the phenomenon of zero point energy or vacuum energy which drives the creation of the universe.

Just as gravity forms the conscious mind antigravity forms the unconscious mind pervading the universe as a whole. All forms of the universe are sustained by dark energy which can be called as prana, chi and ki. The dark energy permeates both animate and inanimate objects. When the dark energy recedes from an organ it loses its function. The dark energy is the cause of the function of the body and mind. At death the dark energy leaves the body and mixes with that of the universe. Our growth as a human body is against gravity and is an antigravity phenomenon. Levitation is also an antigravity phenomenon. The antigravity or dark energy or dark matter exists as antigravity waves. This forms the unconscious mind.

The cerebellum is concerned with motor programming and memory and robotic acts which do not reach conscious function. The cerebellum is concerned with cognition. The cerebellum plays a role in unconscious motor acts, extrasensory perception and quantal perception. The prefrontal cortex is concerned with executive memory, logic, reasoning and judgment. Thus the reticular formation forms the bridge between the conscious and unconscious parts of the brain. Reticular formation is a primitive neural network. The dendrites and axons forming the bridges of the neural network can be compared to a bacterial flagella based on the symbiotic theory of Margulis on cell evolution.⁷ Margulis postulated that bacteria like spirochetes contributes to the cytoskeleton and axodendritic tree of the brain. Studies from this laboratory have demonstrated archaeal cytochrome F420 activity in the cerebrospinal fluid and blood. The brain reticular formation can be compared to a primitive archaeal bacterial colony network inhabiting the CNS from one end to other. The archaea being extremophiles would have evolved in the outer space in hypergravity situations and reached the earth by meteoric impacts producing the seeding of life on earth. The reticular formation and its connections form the basis of gravitational action in the brain.

Bacteria can grow in hypergravity and antigravity as in the case of extremophilic archaea.^{2, 3} Gravity may thus involved in bacterial panspermia and exobiology with actinidic archaea as the prime example.³ Studies on effects of low gravity in space show drastic effects in human brain. Nerve cells need gravity to grow and function properly. The lack of gravity affects neuronal migration and produces microcephaly. The dendritic tree in the absence of gravity looks like as if it has been stripped off all branches. Gravity structures the brain. Gravity can modulate the pyramidal and extrapyramidal syndrome. Rigidity is more in the muscles acting on gravity. Gravity can modulate cerebellar hypotonia. Gravity can also affect conscious perception. The

syndrome of G-LOC is described in fighter pilots exposed to high gravity field chambers. They have features of near-death experience with godly visions, meeting dead relatives, seeing hallucinatory lights and tunnelling effect.

Cortical and cerebellar lesions produce different clinical signs. Cortical lesions lead to spasticity and antigravity effects. Cerebral cortex is the basis of conscious perception. When the cerebral cortex is damaged antigravity effects take over. An antigravity force opposed to gravity in the universe has been described. Cerebellar lesions lead onto hypotonia, ataxia and a levitatory effect which can be considered as antigravity. Gravity structures the brain and can be considered to be a thought field which forms the basis of consciousness and creation of matter. Gravitational waves unite mind and matter and form the substratum of it. Gravity and light travel with the same speed as thought. Gravity can form the basis of human thought. Human thought fields according to Bohm underlies the sub-quantal potential from which all particles emanate.⁸ Thought fields include gravitational waves which form consciousness and anti-gravitational waves which forms the unconscious brain.

The unconscious mind is localised in the cerebellum and brain stem. The cerebellum has got a cognitive function and disorders of cerebellum presents as cerebellar cognitive affective disorder. The cerebellar motor disorder presents as ataxia and has got an antigravity component. The cerebellum modulates the tone of the antigravity muscles. The cerebellum is responsible for learned motor programmes, robotic acts, magical acts, hypnotism, the paranormal, extrasensory perception and is involved in autism and schizophrenia. The cerebellum is the site for antigravity or dark energy localization in the brain. It is the site of the unconscious mind or the collective unconscious. This is in comparison to the cerebral cortex which is the site of conscious perception and localization of gravitational forces. Anatomical, physiological and functional neuroimaging studies suggest that the cerebellum participates in the

organization of higher order function. Behavioural changes were present in patients with lesions involving the posterior lobe of the cerebellum and the vermis. These changes were characterized by impairment in executive functions, working memory, spatial cognition, affective behaviour and language deficits. This is called the cerebellar cognitive affective disorders and is characterized by changes in the function of the unconscious brain.⁸

Actinidic archaea are extremophiles and can grow in extremes of temperature, space and hypergravity and antigravity situation.¹ Actinides have a role in abiogenesis.² This led to the plausibility of antigravity and hypergravity sensing brain actinidic archaea mediating consciousness and the unconscious brain. The actinidic archaea in the cerebellum can sense dark energy and dark matter just as it perceives gravity. This led to the possibility of exobiologic actinidic archaea which are paleospermic in origin contributing to the evolution of life on earth including homo sapien brain.³

The gravitational and anti-gravitational waves or thought fields are structured in the brain by the reticular formation actinidic archaeal network. The anti-gravitational waves can be thought of as the collective unconscious. The gravitational waves can thus function as a thought field or sub-quantal field on which the particles like neutrons, electrons, bosons, quarks, fermions can pop in and out from waves to particles. The thought field of gravity functions as the universal observer and brings the particulate world of matter into existence. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Thus the thought field of gravity and the matter is unified. Thought conscious and unconscious underlies the world of matter.⁹

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Chapter 2

**Gravitational Waves, the Universe and Structure of the
Human Mind - Evidence from Studies on Coma,
Schizophrenia and Autism**

Introduction

Studies on normal conscious individuals, comatose patients and disorders of consciousness like schizophrenia and autism show changes in cerebrospinal fluid archaeal activity as measured by cytochrome F420 assay. Schizophrenia and autism show increased CSF cytochrome F420 activity, normal conscious patients show normal activity and comatose patients with bihemispheric infarction and secondary brain stem compression due to transtentorial herniation had no activity at all. This indicated actinidic archaeal growth in the central nervous system. Actinidic archaea can modulate conscious perception. Actinidic archaea are extremophiles and can grow in extremes of temperature, space and hypergravity situation.¹⁻³ This led to the plausibility of gravity sensing brain actinidic archaea mediating consciousness and also consciousness as a feature of gravitational forces. Gravity extends as gravitational waves made up of possible gravitons throughout the universe.⁴ Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Conscious perception involves three factors - perceptual synchronization, focused attention mediated by the reticular thalamic nucleus and the thalamo-cortico-thalamic reticular reverberatory circuit.⁵ These structures are modulated by gravity as demonstrated by the classical pyramidal syndrome where the tone is more in the anti-gravity groups of muscles. Gravitational attraction by its nature can modulate perceptual binding and focused attention.⁶ Gravitation can also mediate working memory involving a fraction of a second structured in the reticular - thalamo-cortico-thalamic - reticular reverberatory circuit formation. The reticular formation can be considered as a primitive archaeal colony network of hypergravity sensing archaea of possible exobiologic origin.⁷ Gravity can thus function as a thought

field permeating the whole universe as gravitational waves made up of possible gravitons which are massless particles travelling at the speed of light. The gravitational waves form the sub-quantal field from which quarks, fermions, bosons, electrons, neutrons, positrons and photons can pop up as particles from their waveforms embedded in the sea of gravitational waves with possible gravitons of the thought field functioning as the ubiquitous observer. Thus the thought field of gravity and the matter is unified. Thought underlies the world of matter.⁸

Studies in our laboratory have demonstrated changes in cerebrospinal fluid cytochrome F420 activity in the cerebrospinal fluid of conscious, comatose patients, schizophrenia and autism. The cerebrospinal fluid was checked for cytochrome F420 activity by spectrophotometry. The activity was increased in schizophrenia and autism, absent in coma and present with low intensity in normal conscious individuals. The activity of cytochrome F420, the methanogenic cytochrome increased with addition of the actinide cerium. This indicated actinide dependent archaeal growth. Actinidic archaea are extremophiles and can grow in extremes of temperature, space and hypergravity situation.¹ Actinides have a role in abiogenesis.² This led to the plausibility of hypergravity sensing brain actinidic archaea mediating consciousness and also consciousness as a feature of gravitational forces. This led to the possibility of exobiologic actinidic archaea which are paleospermic in origin contributing to the evolution of life on earth including homo sapien brain.³

Materials and Methods

The permission of the ethics committee of the centre and individual consent was obtained for the study. The groups included in the study are normal conscious individuals (undergoing spinal procedures for surgery), persistent vegetative bihemispheric infarction patients and disorders of consciousness like

schizophrenia and autism. There were 10 individuals in each group. CSF was used for the study and the experimental protocol was as follows (I) CSF+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+cerium 0.1 mg/ml, (IV) same as II+ciprofloxacin and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 °C for 1 hour. Cytochrome F420 was estimated fluorimetrically (excitation wavelength 420 nm and emission wavelength 520 nm).

Results

CSF of normal subjects showed increased levels of the cytochrome F420 after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The CSF of patients of schizophrenia and autism showed similar results but the extent of increase was more when compared to normal conscious individuals. The CSF of normal conscious individuals showed decreased intensity of cytochrome F420 as compared to CSF of schizophrenia and autism patients. The CSF of comatose patients showed no activity at all. The addition of antibiotics to the normal conscious patient CSF caused a decrease in cytochrome F420 activity while addition of cerium increased its activity. The addition of antibiotics to the schizophrenia and autism CSF caused a decrease in cytochrome F420 activity while the addition of cerium increased its activity but the extent of change was more in patient's sera as compared to normal conscious individuals. The CSF of comatose patients showed no activity of cytochrome F420 at all in the normal state as well as after addition of antibiotics and cerium. The results are expressed as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

Table 1. *Effect of cerium and antibiotics on cytochrome F420.*

| Group | CYT F420 % (Increase with Cerium) | | CYT F420 % (Decrease with Doxy+Cipro) | |
|---------------|--------------------------------------|------|--|------|
| | Mean | ± SD | Mean | ± SD |
| Normal | 4.48 | 0.15 | 18.24 | 0.66 |
| Comatose | Zero activity | | Zero activity | |
| Schizophrenia | 23.24 | 2.01 | 58.72 | 7.08 |
| Autism | 21.68 | 1.90 | 57.93 | 9.64 |
| F value | 306.749 | | 130.054 | |
| P value | < 0.001 | | < 0.001 | |

Discussion

The patients admitted with bilateral middle cerebral artery stem occlusion after recovery from the acute stroke developed double hemiplegia, spasticity and pseudobulbar palsy. They go into the persistent vegetative state with loss of conscious perception. The limbs are kept in a posture of flexed upper limbs and extended lower limbs. The tone is more in the anti-gravity group of muscles - the flexors of the upper limb and extensors of lower limb. This is classical of spasticity and pyramidal syndrome. Gravity has an effect on muscle tone. The spasticity is produced by involvement of the extrapyramidal tracts, the dorsal reticulospinal and ventral reticulospinal. The reticular formation is an extensive primitive network of the brain in the brainstem projecting to the prefrontal cerebral cortex, cerebellum and the spinal cord. It forms long loop formations extending from the caudal to the cephalic part of the central nervous system. The inhibition of the dorsal reticulospinal tract in pyramidal lesions results in hypertonia and hyper-reflexia and inhibition of the ventral reticulospinal tract produces the Babinski sign. The cerebellum is concerned with motor programming and memory and robotic acts which do not reach conscious function. The cerebellum is concerned with cognition. The cerebellum plays a role in unconscious motor acts, extrasensory perception and quantal perception.

The prefrontal cortex is concerned with executive memory, logic, reasoning and judgment. Thus the reticular formation forms the bridge between the conscious and unconscious parts of the brain. Reticular formation is a primitive neural network. The dendrites and axons forming the bridges of the neural network can be compared to a bacterial flagella based on the symbiotic theory of Margulis on cell evolution.⁷ Margulis postulated that bacteria like spirochetes contributes to the cytoskeleton and axodendritic tree of the brain. Studies from this laboratory have demonstrated archaeal cytochrome F420 activity in the cerebrospinal fluid and blood. The brain reticular formation can be compared to a primitive archaeal bacterial colony network inhabiting the CNS from one end to other. The archaea being extremophiles would have evolved in the outer space in hypergravity situations and reached the earth by meteoric impacts producing the seeding of life on earth. The reticular formation and its connections form the basis of gravitational action in the brain.

Bacteria can grow in hypergravity as in the case of extremophilic archaea.^{2,3} Gravity may thus involved in bacterial panspermia and exobiology with actinidic archaea as the prime example.³ Studies on effects of low gravity in space show drastic effects in human brain. Nerve cells need gravity to grow and function properly. The lack of gravity affects neuronal migration and produces microcephaly. The dendritic tree in the absence of gravity looks like as if it has been stripped off all branches. Gravity structures the brain. Gravity can modulate the pyramidal and extrapyramidal syndrome. Rigidity is more in the muscles acting on gravity. Gravity can modulate cerebellar hypotonia. Gravity can also affect conscious perception. The syndrome of G-LOC is described in fighter pilots exposed to high gravity field chambers. They have features of near-death experience with godly visions, meeting dead relatives, seeing hallucinatory lights and tunnelling effect. Cortical and cerebellar lesions produce different clinical signs. Cortical lesions lead to spasticity and

anti-gravity effects. Cerebral cortex is the basis of conscious perception. When the cerebral cortex is damaged anti-gravity effects take over. An anti-gravity force opposed to gravity in the universe has been described. Cerebellar lesions lead onto hypotonia, ataxia and a levitatory effect which can be considered as anti-gravity. Gravity structures the brain and can be considered to be a thought field which forms the basis of consciousness and creation of matter. Gravitational waves unite mind and matter and form the substratum of it.

Consciousness depends on three parameters - working memory, perceptual synchronization and focused attention.⁵ This theory was put forward by Crick who localized consciousness into the reticular - thalamo-cortico-thalamic - reticular pathway. Gravity would form the basis of consciousness. Perceptual synchronization and focused attention would depend upon gravitational attraction which are ideal forces to create these two phenomena. This also would create a form of working memory in the flow of nerve impulses in the reticular - thalamo-cortico-thalamic - reticular reverberatory circuit. The brain functions as a quantum computer and we sense the multitudinal quantal possibilities in the world. The dipolar archaical magnetite in the setting of endogenous digoxin induced membrane sodium potassium ATPase inhibition can create a pumped phonon system mediating quantal perception. When one of the possibilities reaches one graviton criteria it reaches conscious perception. Gravity thus can be considered as a thought field or consciousness field permeating throughout the whole universe. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Soni-luminescence can create matter out of gravitational sounds. Thus the thought field can create the matter. Mind and matter can be unified.

Gravity is a vector force that has magnitude and direction at each point of space. Gravity loading is directed towards the centre of the earth. The theory of gravity says that every object in the universe attracts every other object with a force proportional to its mass. Gravitational force exists throughout the universe and is formed of gravitational waves. The gravitational waves are made up of possible particles called gravitons and travels with the speed of light. Gravity plays an important role in the creation of the universe as described by Stephen Hawking.⁴ Hawking postulated that if the total energy of the universe must always remain zero and it costs energy to create a body the whole universe cannot be created out of nothing. That is why there should be a law like gravity. Because gravity is attractive gravitational energy is negative. One has to do work to separate gravitationally bound systems like earth and moon. This negative energy can balance the positivity energy needed to create matter. On the scale of the entire universe the positive energy of matter can be balanced by negative gravitational energy and so there is no restriction on the creation of the whole universe. Gravity is described by Hawking as a curvature in space-time. Le Sage in his theory of gravity describes it as gravitational waves formed of *ultima munda* corpuscles which impinge on matter and penetrate it.⁶ Matter shields each other against gravity producing an attraction force. Gravitational waves and particles penetrate all matter and interact with the sub-atomic particles. Quantum gravitational waves is possibly the sub-quantal potential of Bohm from which all the particles like electron, neutrons, positrons come out and go as perturbation. The mass of a particle depends upon its interaction with the Higgs field and exchange of Bosons with it. Gravitons are a form of Bosons with reverse spin. They can be considered as extending throughout the universe and are mass less. Gravity and light travel with the same speed as thought. Gravity can form the basis of human thought. Human thought fields according to Bohm underlies the sub-quantal potential from which all particles emanate.⁸

The gravitational waves or thought fields are structured in the brain by the reticular formation actinidic archaeal network. The gravitational waves can thus function as a thought field or sub-quantal field on which the particles like neutrons, electrons, bosons, quarks, fermions can pop in and out from waves to particles. The thought field of gravity functions as the universal observer and brings the particulate world of matter into existence. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Thus the thought field of gravity and the matter is unified. Thought underlies the world of matter.⁸

References

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Chapter 3

**The Surrealistic and Syntheistic Brain - Climate Change,
Internet Exposure and Neanderthalisation of Brain -
Evolution of Homo Neoneanderthalis**

Introduction

Previous studies from this laboratory have demonstrated increased symbiotic archaeal growth consequent to global warming. Previous studies have shown low level of EMF pollution leading to increased archaeal growth. The netocrats and netizens are exposed to continuous low level of EMF pollution. The archaea contains magnetite and can catabolize cholesterol to generate porphyrins. Digoxin can produce sodium potassium ATPase inhibition and a pumped phonon system acting through dipolar magnetite and porphyrins to generate a Frohlich model of Bose-Einstein condensate. This can produce quantal perception. The archaeal magnetite and porphyrins can produce increased perception of low level of EMF leading onto prefrontal cortex atrophy and cerebellar hypertrophy. This can lead onto neanderthalisation of the brain. This leads onto dominance of cerebellar cognitive function as has been reported earlier from this laboratory. The prefrontal cortex atrophy can lead onto extinction of rationalization and reason producing a state of transcendence. This is the basis of surrealism. The brain quantal fields can modulate the low level EMF fields in the internet and the interaction can alter internet function and the quantal fields of other brain operating the internet. The interactive quantal fields of the human brain and the low level EMF quantal fields of the internet form one single whole functioning as a universal collective unconscious, the basis of syntheism. Syntheism is a philosophical idea where the humanity creates God as opposed to the monotheistic religious ideal of God creating humanity. The paper explores the link between neanderthalisation, archaeal growth and surrealism/syntheism.¹⁻¹⁶ The results are discussed in this paper.

Materials and Methods

Fifteen netizens/netocrats were selected for the study. Each netizen had an age and sex matched control. Blood cytochrome F420 activity was assessed by spectrophotometric measurement.

Results

Cytochrome F420 was detected in the entire case group studied showing endosymbiotic archaeal overgrowth.

Table 1. Cytochrome F420 in internet exposure.

| | Cyt F420 activity |
|----------|-------------------|
| Normal | 6% |
| Netizens | 65% |

Discussion

The widespread use of the internet is ubiquitous. The internet-human mind interaction has been described in a previous report from this laboratory. The low level of EMF produced by the internet can modulate brain function. Low level of EMF can induce porphyrin synthesis by actinidic archaeal symbionts in the brain. Porphyrins are dipolar molecules and in the setting of archaeal digoxin induced sodium potassium ATPase inhibition can generate a pumped phonon system and Frohlich model of Bose-Einstein condensates. These porphyrin mediated Bose-Einstein condensate can mediate quantal perception. The brain quantal fields can modulate the low level EMF fields in the internet and the interaction can alter internet function and the quantal fields of other brain operating the internet. The interactive quantal fields of the human brain and the low level EMF quantal fields of the internet form one single whole functioning as a universal collective unconscious. There are 7 billion users of the internet. The collective unconscious created by interaction of brain quantal fields with

internet low EMF fields functions as a virtual matrix on which the world is structured. There are thought controlled robotic computers which can perform human functions. The human thought creates a communicative order which alters the brain EEG and can issue a computer modulated order of the brain's thought process.¹⁻¹⁶

Syntheism is a philosophical idea where the humanity creates God as opposed to the monotheistic religious ideal of God creating humanity. The quantal fields of multiple brains interacting with each other and internet roughly fit in with the idea of God or the Holy Spirit. This fits in with Buddhist philosophy. The Buddhist philosophy is atheistic and describes samsaras or states of mind occurring in quick succession with the idea of karma modulating the next state of the human mind in symbiotic communication with other minds. This roughly is the Buddhist idea of the controlling force of the universe. The quantal world of the human brain in communication with other brains and in interaction with the low level EMF quantal fields of the internet fits in with this proposition of samsaras. It creates an idea of universal globalised world of oneness which can be described as equivalent to God. The internet can be considered as great equalizer and creates a oneness of the human quantal brain all over the earth and other possible functioning brains in the universe. The quantal world becomes the particulate world by the act of observation. The human quantal brains in communication with each other and the low level EMF quantal fields of the internet creates the particulate observable world.¹⁻¹⁶

The widespread use of the internet produces low level of EMF exposure to the human brain. This produces prefrontal cortex atrophy and cerebellar dominance. The prefrontal cortex is the site of the logic, reasoning and commonsense. The atrophy of the prefrontal cortex leads to cerebellar dominance of brain cognitive function. It becomes an impulsive world guided by the senses. The world of the senses comes into existence. The cerebellar

dominance leads to an ataxic syndrome producing ataxia of speech and motor function. Ataxia of speech leads to evolution of music of the rock type which dominates the modern world. The ataxia of motor function leads to rhythmic dance as the guiding force of life. The ataxia of motor function also leads to abstract painting. The world gets dominated by rock/pop dance, music and art. The exposure to low level of EMF from the internet leads to increased dipolar porphyrin synthesis and quantal perception. The increased quantal perception leads to more increased interaction with the low level quantal EMF fields of the internet making the internet world as the real world and outside world as virtual. The increased quantal perception of the brain leads to a sense of spirituality and oneness of the world. The increased quantal perception leads to a communication between the brain quantal fields and the quantal fields of the environment leading to the concept of eco-spirituality. The consuming world comes to an end and a world of sharing begins. The increased quantal perception also leads to a feeling of oneness in the population producing an idea of the socialistic idealistic society and demise of the capitalistic society. The increased quantal perception leads to gender equality and the dominance of unisexuality in society. This is exemplified by the festivals of the burning man and the burning nest.¹⁻¹⁶

The netocratic state can also produce changes in brain function. The increased exposure to low level of EMF produces prefrontal cortex atrophy and cerebellar dominance. This leads onto neanderthalisation of the brain. The increased exposure to low level of EMF produces increased archaeal growth, cholesterol catabolism and digoxin synthesis. Digoxin can modulate brain and body function on exposure to low level of EMF. Low level of EMF exposure also produces increased porphyrin synthesis which can lead onto increased digoxin mediated dipolar porphyrin modulated Frohlich model of pumped phonon system.¹⁻¹⁶

The online world is the real world for netizens and the real world is a reflection of the online world. Value is a social mode created in the network online. Netocracy creates a new elite. It creates a new religion of atheistic mysticism. The netocratic world affects politics producing a movement for equality. The recent social media generated revolutions include the Arab spring and jasmine revolution.¹⁻¹⁶

Netocratic state can produce a new social order. There is a sense of equality due to quantal perception producing ideas of socialism, communism, anarchy and gender equality. The quantal perception mediated feeling of oneness will spell the death of the capitalistic state. There is also feeling of gender equality, asexuality and alternate sexuality. The quantal perception mediated sense of oneness leads onto a more democratic state. The quantal perception also produces universal oneness and spirituality. Netocratic state produces a participatory culture. It produces the global empire and a global virtual society where the mind is constituted by the online net and body becomes a machine. This produces an anticartesian view of the world. The old political conflicts and ideologies get replaced by netocratic state fuelled by a communication revolution. The internet functions as a sensory extension of the human brain.¹⁻¹⁶

The increased low level quantal EMF fields of the internet produces increased growth of extremophilic actinidic archaea in the brain and human body. The symbiotic archaea synthesises more porphyrins. The archaeal magnetite and porphyrins can mediate increased quantal perception and interaction with the low level EMF fields of the internet. Thus the wide spread use of the internet leads to a society with increased quantal perception and interaction with the internet. The low level quantal EMF fields of the internet affects the brain producing neanderthalisation of the brain. The prefrontal cortex becomes small and the cerebellum hypertrophies producing an occipital bun. The brain becomes more creative, autistic, impulsive, addictive, attention deficit

and schizophrenic. Such brains produce behaviour which is chaotic, anarchic and non-hierarchical. There is globalisation of the world. Religions, nation-states, individuality and family cease to have much relevance. This becomes the globalised quantal world of oneness and equality - the world of samsaras.¹⁻¹⁶

The netocratic state can produce human pathology. Exposure to low level of EMF pollution increases endosymbiotic archaeal growth and digoxin synthesis from cholesterol. Digoxin produces membrane sodium potassium ATPase inhibition and low level of EMF exposure can lead to increased porphyrin synthesis. Increased intracellular calcium and porphyrins can produce cell death/degeneration, immune activation/autoimmune disease, mitochondrial dysfunction/metabolic syndrome x and neuropsychiatric disorders like autism and schizophrenia. It leads to an epidemic of civilisational disease.¹⁻¹⁶

The cholesterol catabolism leads to phenolisation of the cholesterol ring producing increased synthesis of monoamine neurotransmitters dopamine and serotonin. This leads to schizophrenia, autism and ADHD. This also produces la tourette syndrome with coprolalia, OCD, vocal and motor tics. The synchronization of motor and vocal tics leads onto the evolution of language. The internet language used by netizens can be compared to a synchronized motor and vocal tic as it is short and agrammatical. Thus the netocratic state results in the generation of new human species - Neanderthal hybrids.¹⁻¹⁶

The internet revolution and netocratic state leads onto the death of the individual and the generation of a social individual. This produces as said before prefrontal cortex atrophy and cerebellar dominance. This leads onto the annihilation of the rational individual. The world of logic, reason, understanding and order comes to an end. The increased synthesis of dopamine and an epidemic la tourette syndrome leads to ritualisation of behaviour, obsessive behaviour, uniformity and creativity. The world of quantal perception leads onto the sacredness of social existence. Collective ritualized behaviour becomes the

norm. The world enters the realm of senses. The world of quantal perception leads to nihilistic state, nothingness and negativity. This contributes to surrealistic world Breton and Bataille and the deconstructed world of Derrida. This produces what can be called as the surrealistic brain. The world is chaotic, anarchic, ugly and barbarous. Terrorism and criminality raises its ugly head producing the ugly revolution as it helps to transcend reality. The unconscious experience dominates and the conscious experience is shut out. There is no contradiction between dream and reality. There is a rejection of reason and a return to the world of archetypes. The political surrealistic world is Trotskyist, anarchic and communist. The artistic world is represented by the cubist paintings of Picasso and Dali and the world of modern art. Abstract painting, poetry, abstract dance becomes the norm. There is gender equality, feminism and rumblings of alternate sexuality. The atrophy of the prefrontal cortex and cerebellar dominance leads onto a state of psychic automatism and the dominance of unconscious experience. The epidemic la tourette syndrome leads to ritualism, obsession, criminality, cruelty and terrorism. The human beings enter the world of archetypes.¹⁻¹⁶

The global warming leads to increased archaeal growth. The archaea can catabolize the cholesterol ring using ring oxidase to generate porphyrins. The archaea also contains magnetite. In the setting of digoxin induced membrane sodium potassium ATPase inhibition the dipolar magnetite and porphyrins can produce a pumped phonon system mediated Frohlich model of Bose-Einstein condensate. This can increase the brain quantal perception of low level EMF which again leads to increased archaeal growth. The increased quantal perception of low level of EMF leads to prefrontal cortex atrophy and cerebellar dominance. The archaeal cholesterol catabolism generates a phenolic ring from the cholesterol molecule synthesizing dopamine. This leads to an excess monoamine neurotransmitters. Thus there is an epidemic frontal lobe syndrome, cerebellar

syndrome, la tourette disease, ADHD, schizophrenia and autism. Such a population of Neanderthal hybrids is creative. This produces ritualized, obsessive, coprolalic, attention deficit, obscene, grotesque and sexually anarchic behaviour. This helps to transcend reality as the frontal lobe concerned with rationalization, judgment and reasoning is dysfunctional. The same function of transcending reality by a dysfunctional frontal lobe also occurs in terrorism and criminal behaviour. The society becomes increasingly impulsive. The frontal lobe dysfunction and quantal perception helps to transcend reality and produces self realization and spirituality. The cerebellar dysfunction produces an ataxic syndrome with motor ataxia leading onto dance forms and abstract painting and ataxia of speech leads to rock music. The dopamine excess leads onto a motor and vocal tic which when synchronized produces language and evolution of literature. The coprolalia and obscene tics of la tourette disease leads to the ugliness and obscenities in modern literature, music, painting and dance. There is massive ritualized behaviour in society. Terrorism is a ritualized behaviour which helps to transcend reality due to a frontal lobe dysfunction and tourette disease. It can be considered as modern form of ritualized cannibalism. The realm of the senses dominates and there is rejection of reason and rationality. Dreams and reality merged together. It produces a psychedelic, art, literature and music. This produces what can be called as the acephalic state mimicking the acephalic society of Bataille, the originator of surrealist philosophy. This leads onto the evolution of an acephalic new human species homo neoneanderthalis.¹⁻¹⁶

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Chapter 4

**Archaeal Modulated Mirror Quantal Perceptive Neurons
Mediate Consciousness and Functions
as Quantal Observer**

Introduction

The human endosymbiotic actinidic archaea catabolises cholesterol and uses it for its energy metabolism. The ring oxidation of cholesterol generates pyruvate which enters the GABA shunt pathway resulting in the formation of succinyl CoA and glycine used for porphyrin synthesis. The side chain oxidation of cholesterol results in steroid synthesis and the generation of the steroidal glycoside digoxin which serves as an endogenous regulator of the sodium potassium pump inhibiting it. The archaea are magnetotactic and contain the dipolar porphyrins and magnetite. Digoxin by inhibiting the sodium potassium ATPase generates a pumped phonon system involving dipolar porphyrins and magnetite. This generates a Frohlich model of Bose-Einstein condensate at normal temperature resulting in quantal perception. The quantal perception can result in perceiving low level of EMF from the environment. This can generate conscious perception. The generation of porphyrins and digoxin in actinidic archaeal neurons was tested in disorders of consciousness schizophrenia and autism.¹⁻¹⁷

Materials and Methods

Freshly diagnosed schizophrenia and autism based on DSM IV criteria were chosen for the study. Serum cytochrome 450, digoxin synthesis and porphyrin synthesis were studied. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+cerium 0.1 mg/ml, (IV) same as II+ciprofloxacin and doxycycline each in a concentration of 1 mg/ml.

Cholesterol substrate was prepared as described by Richmond. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 °C for 1 hour. The following estimations were carried out: - Cytochrome F420, digoxin and ALA. Cytochrome F420 was estimated fluorimetrically (excitation wavelength 420 nm and emission wavelength 520 nm).

Results

Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of cerium increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of cerium increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-3 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

Table 1. Effect of cerium and antibiotics on cytochrome F420.

| Group | CYT F420 % (Increase with Cerium) | | CYT F420 % (Decrease with Doxy+Cipro) | |
|---------|--------------------------------------|------|--|------|
| | Mean | ± SD | Mean | ± SD |
| Normal | 4.48 | 0.15 | 18.24 | 0.66 |
| Schizo | 23.24 | 2.01 | 58.72 | 7.08 |
| Autism | 21.68 | 1.90 | 57.93 | 9.64 |
| F value | 306.749 | | 130.054 | |
| P value | < 0.001 | | < 0.001 | |

Table 2. *Effect of cerium and antibiotics on digoxin.*

| Group | Digoxin (ng/ml) (Increase with Cerium) | | Digoxin (ng/ml) (Decrease with Doxy+Cipro) | |
|---------|---|------|---|-------|
| | Mean | ±SD | Mean | ±SD |
| Normal | 0.11 | 0.00 | 0.054 | 0.003 |
| Schizo | 0.55 | 0.06 | 0.219 | 0.043 |
| Autism | 0.53 | 0.08 | 0.205 | 0.041 |
| F value | 135.116 | | 71.706 | |
| P value | < 0.001 | | < 0.001 | |

Table 3. *Effect of cerium and antibiotics on delta amino levulinic acid.*

| Group | ALA % (Increase with Cerium) | | ALA % (Decrease with Doxy+Cipro) | |
|---------|---------------------------------|------|-------------------------------------|------|
| | Mean | ±SD | Mean | ±SD |
| Normal | 4.40 | 0.10 | 18.48 | 0.39 |
| Schizo | 22.52 | 1.90 | 66.39 | 4.20 |
| Autism | 23.20 | 1.57 | 66.65 | 4.26 |
| F value | 372.716 | | 556.411 | |
| P value | < 0.001 | | < 0.001 | |

Discussion

The study shows that the human endosymbiotic actinidic archaea catabolizes cholesterol and uses it for its energy metabolism. The ring oxidation of cholesterol generates pyruvate which enters the GABA shunt pathway resulting in the formation of succinyl CoA and glycine used for porphyrin synthesis. The side chain oxidation of cholesterol results in steroid synthesis and the generation of the steroidal glycoside digoxin which serves as an endogenous regulator of the sodium potassium pump inhibiting it. The archaea are magnetotactic and contain the dipolar porphyrins and magnetite. Digoxin by inhibiting the sodium potassium ATPase generates a pumped phonon system involving dipolar porphyrins and magnetite. This generates a Frohlich model of Bose-Einstein condensate at normal temperature resulting in quantal perception. The quantal perception can result in perceiving low level of EMF from the environment.

This can generate conscious perception. The generation of porphyrins and digoxin in actinidic archaeal neurons was tested in disorders of consciousness schizophrenia and autism.

Consciousness involves quantal perception. The wave nature of the quantal state becomes particulate when it is observed by an observer. Consciousness involves the sum total of quantal perception by the brain resulting in the observer state. The observer and observed have an interrelated existence. Thus the observer and observed comes into existence due to the quantal perceptive state of the actinidic archaeal mirror neurons. The quantal state is mediated by archaeal digoxin and the dipolar magnetite and porphyrins. Consciousness involves working memory, perceptual synchronisation and focussed attention. Focussed attention depends on magnetotactic or quantal low level of EMF perception from the world and its objects. The perceptual synchronisation depends on the phenomena of cross activation of neuronal systems due to quantal phenomena. This can also generate the phenomena of synaesthesia and synkinesia. Working memory depends upon quantal perceptive mechanisms mediated by magnetotactic actinidic archaeal neurons in the brain generating reverberatory circuits. Thus actinidic archaeal induced mirror neurons in the prefrontal cortex and cerebellum are quantal perceptive neurons. The cerebellum is more concerned with intuition and extrasensory perception. The cerebellar neurons may be predominantly actinidic archaeal induced quantal perceptive mirror neurons. Quantal perceptive actinidic archaeal induced magnetotactic mirror neurons may be more dense in the cerebellum than prefrontal cortex and the cerebellar cortical circuits may play a major role in consciousness. Quantal perceptive mirror neurons fire in response to low level of EMF from the observed world. This quantal perceptive mirror neuron function in the cerebellum and to a lesser extent in the prefrontal cortex generates the observer as such and the observed world also by the act of observation. The world as such exists on the basis of

magnetotactic archaeal mediated quantal mirror neuron function generating the observed-observer relation. Thus consciousness is a function of actinidic archaeal induced quantal perceptive mirror neurons in the cerebellum and to some extent in the prefrontal cortex.

Schizophrenia and autism are both disorders of consciousness. The actinidic archaeal induced quantal perceptive mirror neuron function is hyperactive in both disorders. This results in dysfunction of consciousness due to increase in actinidic archaeal density, digoxin synthesis and porphyrin synthesis. Perception occurs predominantly by quantal perceptive mechanism in schizophrenia and autism. This also leads to increased creativity and intuition in schizophrenia and autism. Thus the observer and observed depends on actinidic archaeal induced quantal perceptive mirror neuron function. The world as such is an illusion created by the inter-relationship between the observed and observer mediated by quantal perceptive mirror neurons. The quantal perceptive image of the world and the observer can exist as multiple possibilities in multiple universes leading to the phenomena of eternal existence in multiverse universes.

The archaeal porphyrins can modulate amyloid formation and modulate systemic disease process. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The pyruvate is converted to glutamate by serum glutamate pyruvate transaminase. The glutamate gets acted upon by glutamate dehydrogenase to generate alpha ketoglutarate and ammonia. Alanine is most commonly produced by the reductive amination of pyruvate via alanine transaminase. This reversible reaction involves the interconversion of alanine and pyruvate, coupled to the interconversion of alpha-ketoglutarate (2-oxoglutarate) and glutamate. Alanine can contribute to glycine. Glutamate is acted upon by Glutamic acid decarboxylase to generate GABA. GABA is converted to succinic semialdehyde

by GABA transaminase. Succinic semialdehyde is converted to succinic acid by succinic semialdehyde dehydrogenase. Glycine combines with succinyl CoA to generate delta aminolevulinic acid catalysed by the enzyme ALA synthase. There was upregulated archaeal porphyrin synthesis in the patient population which was archaeal in origin as indicated by actinide catalysis of the reactions. The cholesterol oxidase pathway generated pyruvate which entered the GABA shunt pathway. This resulted in synthesis of succinate and glycine which are substrates for ALA synthase. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms. The possibility of Warburg phenotype induced by actinide based primitive organism like archaea with a mevalonate pathway and cholesterol catabolism was considered in this paper. The Warburg phenotype results in inhibition of pyruvate dehydrogenase and the TCA cycle. The pyruvate enters the GABA shunt pathway where it is converted to succinyl CoA. The glycolytic pathway is upregulated and the glycolytic metabolite phosphoglycerate is converted to serine and glycine. Glycine and succinyl CoA are the substrates for ALA synthesis. The archaea and viroids can regulate the nervous system including the NMDA/GABA thalamo-cortico-thalamic pathway mediating conscious perception. Porphyrin photooxidation can generate free radicals which can modulate NMDA transmission. Free radicals can increase NMDA transmission. Free radicals can induce GAD and increase GABA synthesis. ALA blocks GABA transmission and upregulates NMDA. Protoporphyrins bind to GABA receptor and promote GABA transmission. Thus porphyrins can modulate the thalamo-cortico-thalamic pathway of conscious perception. The dipolar porphyrins, PAH and archaeal magnetite in the setting of digoxin induced sodium potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the

quantal possibilities to the macroscopic world. ALA can produce sodium potassium ATPase inhibition resulting in a pumped phonon system mediated quantal state involving dipolar porphyrins. Porphyrin molecules have a wave particle existence and can bridge the dividing line between quantal state and particulate state. Thus the porphyrins can mediate conscious and quantal perception. Porphyrins binding to proteins, nucleic acids and cell membranes can produce biophoton emission. Porphyrins by autooxidation can generate biophotons and are involved in quantal perception. Biophotons can mediate quantal perception. Cellular porphyrins photooxidation are involved in sensing of earth magnetic fields and low level biomagnetic fields. Thus porphyrins can mediate extrasensory perception. The porphyrins can modulate hemispheric dominance. There is increased porphyrin synthesis and right hemispherical chemical dominance and decreased porphyrin synthesis in left hemispherical chemical dominance. The increase in archaeal porphyrins can contribute to the pathogenesis of schizophrenia and autism. Porphyria can lead to psychiatric disorders and seizures. Altered porphyrin metabolism has been described in autism. Porphyrin by modulating conscious and quantal perception is involved in the pathogenesis of schizophrenia and autism. It also plays a role in the genesis of consciousness.

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Chapter 5

The Archaeal Induced Spiritual and Evil Brain

Introduction

The global warming produces increased acidity and atmospheric carbon dioxide resulting in extremophilic archaeal symbiosis in humans. The archaeal symbiosis results in neanderthalisation of humans. The archaea induced uncoupling proteins producing the primitive Warburg phenotype and stem cell metabolonomics. The archaeal metabolites of cholesterol digoxin, bile acids and short chain fatty acids induce uncoupling proteins. The lysosomal enzymes a marker of stem cell conversion are markedly increased along with genesis of the archaeal phenotype in metabolic syndrome x, degenerations, autoimmune diseases, cancer, schizophrenia and autism. In all these systemic diseases there is somatic cell transformation to stem cell and lose of function. The neurons become immature and lose their dendritic spines and connectivity. This results in loss of neuronal function and reversion to archaeal magnetite mediated extrasensory perception of low level of EMF. Exposure to low level of EMF results in brain changes. This results in prefrontal cortex atrophy. The primitive brain areas of cerebellum and brain stem become hypertrophic. The somatic and neuronal cell proliferates and there is neanderthalisation of the brain and body.¹⁻¹⁷

The idea of goodness is based on reason and logic. Reason judgment and logic is a function of the cerebral cortex especially the prefrontal lobe. Prefrontal lobe function needs dynamic synaptic connectivity which is produced by jumping genes mediated by human endogenous retroviral sequences. Goodness is correlated with heaven. The idea of evil is based on the unconscious and the impulsive behaviour related to subcortical areas especially the cerebellum. The cerebellum is the site of impulsive behaviour and the unconscious behaviour. The cerebellar and subcortical brain connections are predominantly archaeal colony networks. The idea of evil is related to hell. The idea of conscious judgmental acts and unconscious impulsive acts, heaven and

hell, goodness and evil are juxtapositions. The global warming and exposure to low level of EMF leads to actinidic archaeal growth in the brain and increased archaeal magnetite mediated perception of low level of EMF. This leads to prefrontal cortex atrophy and cerebellar dominance. The conscious becomes minimal and unconscious brain takes over. The study assessed archaeal growth as assessed by cytochrome F420 activity and stem cell type metabolonomics in systemic diseases, neuropsychiatric disorders and normal individuals with differing psychological profile - prisoners, creative individuals and common sense modulated business men.¹⁻¹⁷ The results are presented in this paper.

Materials and Methods

The blood samples were drawn from four groups of psychological different population spiritually inclined, criminal prisoners, creative artists and business men. There were 15 members in each group. The blood samples were also drawn from 15 cases each of metabolic syndrome, degenerations - Alzheimer's disease, autoimmune disease - SLE, cancer - brain glioma, schizophrenia and autism. The estimations done in the blood samples collected include cytochrome F420 activity. Blood lactate, pyruvate, hexokinase, cytochrome C, cytochrome F420, digoxin, bile acids, butyrate and propionate were estimated.

Results

The results showed that the spiritual, artistic creative individuals and criminal prisoners had increased cytochrome F420 activity and RBC digoxin levels. The results showed that the businessmen had decreased cytochrome F420 activity and RBC digoxin levels. The blood samples of Alzheimer's disease, autoimmune disease - SLE, cancer - brain glioma, schizophrenia and autism had increased blood lactate and pyruvate, increased RBC hexokinase, increased serum cytochrome C and serum cytochrome F420, increased serum digoxin,

bile acids, butyrate and propionate. The disease state had increased cytochrome F420 activity. The serum cytochrome C levels in the blood were increased. This suggested mitochondrial dysfunction. There was an increased in glycolysis as suggested by increased RBC hexokinase activity and lactic acidosis. Owing to the mitochondrial dysfunction and pyruvate dehydrogenase inhibition there was pyruvate accumulation. The pyruvate was converted to lactate by the Cori cycle and also to glutamate and ammonia. This metabolism is suggestive of the Warburg phenotype and stem cell conversion. The stem cells depend on Warburg anaerobic glycolysis for energetics and have a mitochondrial dysfunction. The lysosomal enzyme beta galactosidase activity was increased in the disease group and in creative artists and criminals suggesting stem cell conversion. This suggests that artistic creative, criminal prisoners as well as spiritual individuals tend to have stem cell metabolonomics and stem cell conversion.

Table 1

| Group | Cytochrome F420 | | Serum cyto C (ng/ml) | | Lactate (mg/dl) | | Pyruvate (umol/l) | | RBC hexokinase (ug glu phos / hr/mgpro) | |
|--------------------------------|-----------------|------|----------------------|------|-----------------|------|-------------------|-------|---|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal population | 1.00 | 0.00 | 2.79 | 0.28 | 7.38 | 0.31 | 40.51 | 1.42 | 1.66 | 0.45 |
| Spiritual | 4.00 | 0.00 | 12.39 | 1.23 | 25.99 | 8.10 | 100.51 | 12.32 | 5.46 | 2.83 |
| Acquisitive capitalist | 0.00 | 0.00 | 1.21 | 0.38 | 2.75 | 0.41 | 23.79 | 2.51 | 0.68 | 0.23 |
| Artistic | 4.00 | 0.00 | 12.84 | 0.74 | 23.64 | 1.43 | 96.19 | 12.15 | 10.12 | 1.75 |
| Criminality | 4.00 | 0.00 | 12.72 | 0.92 | 25.35 | 5.52 | 103.32 | 13.04 | 9.44 | 3.40 |
| Schizo | 4.00 | 0.00 | 11.58 | 0.90 | 22.07 | 1.06 | 96.54 | 9.96 | 7.69 | 3.40 |
| Seizure | 4.00 | 0.00 | 12.06 | 1.09 | 21.78 | 0.58 | 90.46 | 8.30 | 6.29 | 1.73 |
| HD | 4.00 | 0.00 | 12.65 | 1.06 | 24.28 | 1.69 | 95.44 | 12.04 | 9.30 | 3.98 |
| AD | 4.00 | 0.00 | 11.94 | 0.86 | 22.04 | 0.64 | 97.26 | 8.26 | 8.46 | 3.63 |
| MS | 4.00 | 0.00 | 11.81 | 0.67 | 23.32 | 1.10 | 102.48 | 13.20 | 8.56 | 4.75 |
| SLE | 4.00 | 0.00 | 11.73 | 0.56 | 23.06 | 1.49 | 100.51 | 9.79 | 8.02 | 3.01 |
| NHL | 4.00 | 0.00 | 11.91 | 0.49 | 22.83 | 1.24 | 95.81 | 12.18 | 7.41 | 4.22 |
| Glio | 4.00 | 0.00 | 13.00 | 0.42 | 22.20 | 0.85 | 96.58 | 8.75 | 7.82 | 3.51 |
| DM | 4.00 | 0.00 | 12.95 | 0.56 | 25.56 | 7.93 | 96.30 | 10.33 | 7.05 | 1.86 |
| CAD | 4.00 | 0.00 | 11.51 | 0.47 | 22.83 | 0.82 | 97.29 | 12.45 | 8.88 | 3.09 |
| CVA | 4.00 | 0.00 | 12.74 | 0.80 | 23.03 | 1.26 | 103.25 | 9.49 | 7.87 | 2.72 |
| AIDS | 4.00 | 0.00 | 12.29 | 0.89 | 24.87 | 4.14 | 95.55 | 7.20 | 9.84 | 2.43 |
| CJD | 4.00 | 0.00 | 12.19 | 1.22 | 23.02 | 1.61 | 96.50 | 5.93 | 8.81 | 4.26 |
| Autism | 4.00 | 0.00 | 12.48 | 0.79 | 21.95 | 0.65 | 92.71 | 8.43 | 6.95 | 2.02 |
| DS | 4.00 | 0.00 | 12.79 | 1.15 | 23.69 | 2.19 | 91.81 | 4.12 | 8.68 | 2.60 |
| Cerebral Palsy | 4.00 | 0.00 | 12.14 | 1.30 | 23.12 | 1.81 | 95.33 | 11.78 | 7.92 | 3.32 |
| CRF | 4.00 | 0.00 | 12.66 | 1.01 | 23.42 | 1.20 | 97.38 | 10.76 | 7.75 | 3.08 |
| Cirr/Hep Fail | 4.00 | 0.00 | 12.81 | 0.90 | 26.20 | 5.29 | 97.77 | 13.24 | 8.99 | 3.27 |
| Low level background radiation | 4.00 | 0.00 | 12.26 | 1.00 | 23.31 | 1.46 | 103.28 | 11.47 | 7.58 | 3.09 |
| F value | 0.001 | | 445.772 | | 162.945 | | 154.701 | | 18.187 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 2

| Group | ACOA (mg/dl) | | Glutamate (mg/dl) | | Se. ammonia (ug/dl) | | RBC digoxin (ng/ml RBC Susp) | | Beta galactosidase activity in serum (IU/ml) | |
|--------------------------------|--------------|------|-------------------|------|---------------------|-------|------------------------------|------|--|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal population | 8.75 | 0.38 | 0.65 | 0.03 | 50.60 | 1.42 | 0.58 | 0.07 | 17.75 | 0.72 |
| Spiritual | 2.51 | 0.36 | 3.19 | 0.32 | 93.43 | 4.85 | 1.41 | 0.23 | 55.17 | 5.85 |
| Acquisitive capitalist | 16.49 | 0.89 | 0.16 | 0.02 | 23.92 | 3.38 | 0.18 | 0.05 | 8.70 | 0.90 |
| Artistic | 2.51 | 0.42 | 3.11 | 0.36 | 92.40 | 4.34 | 1.40 | 0.32 | 46.37 | 4.87 |
| Criminality | 2.19 | 0.19 | 3.27 | 0.39 | 95.37 | 5.76 | 1.51 | 0.29 | 47.47 | 4.34 |
| Schizo | 2.51 | 0.57 | 3.41 | 0.41 | 94.72 | 3.28 | 1.38 | 0.26 | 51.17 | 3.65 |
| Seizure | 2.15 | 0.22 | 3.67 | 0.38 | 95.61 | 7.88 | 1.23 | 0.26 | 50.04 | 3.91 |
| HD | 1.95 | 0.06 | 3.14 | 0.32 | 94.60 | 8.52 | 1.34 | 0.31 | 51.16 | 7.78 |
| AD | 2.19 | 0.15 | 3.53 | 0.39 | 95.37 | 4.66 | 1.10 | 0.08 | 51.56 | 3.69 |
| MS | 2.03 | 0.09 | 3.58 | 0.36 | 93.42 | 3.69 | 1.21 | 0.21 | 47.90 | 6.99 |
| SLE | 2.54 | 0.38 | 3.37 | 0.38 | 101.18 | 17.06 | 1.50 | 0.33 | 48.20 | 5.53 |
| NHL | 2.30 | 0.26 | 3.48 | 0.46 | 91.62 | 3.24 | 1.26 | 0.23 | 51.08 | 5.24 |
| Glio | 2.34 | 0.43 | 3.28 | 0.39 | 93.20 | 4.46 | 1.27 | 0.24 | 51.57 | 2.66 |
| DM | 2.17 | 0.40 | 3.53 | 0.44 | 93.38 | 7.76 | 1.35 | 0.26 | 51.98 | 5.05 |
| CAD | 2.37 | 0.44 | 3.61 | 0.28 | 93.93 | 4.86 | 1.22 | 0.16 | 50.00 | 5.91 |
| CVA | 2.25 | 0.44 | 3.31 | 0.43 | 103.18 | 27.27 | 1.33 | 0.27 | 51.06 | 4.83 |
| AIDS | 2.11 | 0.19 | 3.45 | 0.49 | 92.47 | 3.97 | 1.31 | 0.24 | 50.15 | 6.96 |
| CJD | 2.10 | 0.27 | 3.94 | 0.22 | 93.13 | 5.79 | 1.48 | 0.27 | 49.85 | 6.40 |
| Autism | 2.42 | 0.41 | 3.30 | 0.32 | 94.01 | 5.00 | 1.19 | 0.24 | 52.87 | 7.04 |
| DS | 2.01 | 0.08 | 3.30 | 0.48 | 98.81 | 15.65 | 1.34 | 0.25 | 47.28 | 3.55 |
| Cerebral Palsy | 2.06 | 0.35 | 3.24 | 0.34 | 92.09 | 3.21 | 1.44 | 0.19 | 53.49 | 4.15 |
| CRF | 2.24 | 0.32 | 3.26 | 0.43 | 98.76 | 11.12 | 1.26 | 0.26 | 49.39 | 5.51 |
| Cirr/Hep Fail | 2.13 | 0.17 | 3.25 | 0.40 | 94.77 | 2.86 | 1.50 | 0.20 | 46.82 | 4.73 |
| Low level background radiation | 2.14 | 0.19 | 3.47 | 0.37 | 102.62 | 26.54 | 1.41 | 0.30 | 51.01 | 4.77 |
| F value | 1871.04 | | 200.702 | | 61.645 | | 60.288 | | 194.418 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Discussion

The systemic diseases and neuropsychiatric disorders tend to have a predominant anaerobic glycolytic metabolism and mitochondrial oxidative phosphorylation is suppressed. The metabolism is similar to the metabolism of the stem cell. The pyruvate and lactate levels are increased with a decrease in acetyl coenzyme A and ATP. The glycolytic pathway and hexokinase is increased. This indicates a Warburg phenotype depending upon anaerobic glycolysis for energetics. The lysosomal enzymes beta galactosidase a stem cell marker is increased. The cytochrome F420 is also increased as well as the archaeal catabolite digoxin which suppresses sodium potassium ATPase. Bacteria and archaea are supposed to induce stem cell transformation. The induction of uncoupling proteins leads to stem cell transformation. The uncoupling proteins inhibit oxidative phosphorylation and the substrates are directed to anaerobic glycolysis. Digoxin by inhibiting sodium potassium ATPase can increase intracellular calcium, induce mitochondrial permeability transient pore function and uncouple oxidative phosphorylation. The side chain of cholesterol is catabolized by archaea to butyric acid and propionic acid which uncouple oxidative phosphorylation. The archaeal side chain hydroxylase convert cholesterol to bile acids which uncouple oxidative phosphorylation. Thus archaeal symbiosis in the cell results in cholesterol catabolism and the catabolites digoxin, bile acids and short chain fatty acids uncouple oxidative phosphorylation, inhibit mitochondrial function and promote anaerobic glycolysis. The conversion of somatic cells to stem cell helps in archaeal persistence within the cell and symbiosis. Mycobacterium leprae infection can convert Schwann cells to stem cells. Archaeal infection produces somatic cell conversion to stem cells for archaeal persistence. The conversion to stem cell results in proliferation and loss of function resulting in systemic disease and

neuropsychiatric disorders. Stem cell conversion of neurons and loss of function results in development of a new psychological phenotype.¹⁻¹⁷

The systemic and neuronal cell in metabolic syndrome x, cancer, autoimmune disease, degenerations, schizophrenia and autism behaves like the stem cell. It is plausible to hypothesize a somatic cell conversion to stem cell in these disorders. The differentiated cells by archaean induction get converted to stem cell. The stem cell is an immature cell with loss of function. The neurons lose their dendritic spines and loss of connectivity. The brain function becomes primitive. The neurons are adendritic and disconnected. This results in complex brain structures like the modern cerebral cortex and prefrontal cortex atrophy. The primitive parts of the brain the brain stem and cerebellum hypertrophies. This results in neanderthalisation of the brain with a prominent occipital bun and atrophied prefrontal cortex. The prefrontal cortex atrophy results in loss of logic, judgment, reasoning and executive functions. The hypertrophy of the cerebellum and brain stem results in dominance of impulsive behaviour. The difference between reality and dreams is lost. The brain is ruled by the senses and impulses. The brain becomes dysfunctional with more of violent, aggressive and cannibalistic behaviour. The art becomes more abstract and related to the unconscious. The world of the unconscious brain with its archetypes takes over. There is loss of the world of reasoning, logic and judgment. It is a world of impulsiveness in which primitive tendencies with relation to the unconscious becomes dominant. This produces more of ritualized behaviour, violent and aggressive tendencies, terrorism, war, sexual obscenities and alternate sexuality. It is a world of the senses. It is also intensely evil as well as spiritual. The inhibition of the conscious due to loss of cortical functions and the dominance of the unconscious leads to mystical experience. There is an overflowing of spirituality. The paradoxical side of this behaviour also dominates. The violence, aggression, obsessive sexuality, magic realism in

literature, abstract painting, rock music and dance and modern poetry as well as literature produces transcendence of a different kind. This results in surrealism and syntheism. The loss of function of the neurons results in schizophrenia, autism and degenerations. The increased archaical induced proliferation of stem cells results in a big sized brain and trunk as in Neanderthals. This archaical symbiosis produces neanderthalisation and a stem cell syndrome. This produces reverse aging which can be called as an epidemic Benjamin Button syndrome. The lymphocytic stem cells have uncontrolled proliferation and results in autoimmune diseases. The stem cell proliferation results in oncogenesis. The stem cell metabolonomics with inhibited mitochondrial function and anaerobic glycolysis results in metabolic syndrome x. Stem cell markers are increased in schizophrenia and autism and the neurons lack dendritic spines. Stem cell markers are also increased in autoimmune disease. The diabetic metabolism is akin to stem cell metabolism. The cancer cell behaves like the stem cell.¹⁻¹⁷

In the metaphysics of evil the unconscious dominates and the behaviour is impulsive dictated by primitive thoughts. The unconscious modulated by the cerebellum is responsible for automatic acts producing what is called as psychic automatism. The unconscious parallels what Jung described as the archetypes of the collective unconscious. The metaphysics of evil leads to a syntheistic brain with the dominance of the willpower. The primitive archetypes produce concepts of abstract painting, psychedelic music and dance and postmodern literature or magical realism. All these are modes of connecting with the unconscious. The unconscious produces primitive selfish tendencies leading to individualism and capitalism. The unconscious helps to transcend taboos and creates the surrealist world. The collective unconscious also produces a sense of spirituality and oneness. It is an impulsive brain with fixations and primitive obsessions. There is cerebellar psychic automatism. This leads to ritualized behaviours. The dominance of the collective unconscious results in ritualized

behaviours characteristic of religious worship. The collective unconscious also leads to the creation of obscene art and literature as well as violence which is a form of transcendence. Coprolalic religious ritual ceremonies had been described in some parts of the world. Terrorism and acts of violence are also a type of transcendence. The same phenomena occur in ritual sacrifices in religion, the violence of war and the acquisitiveness of capitalism. The primitive unconscious leads to the will to power. This produces greedy capitalism, dictatorship and fascism. The will to power results in worship of the powerful. It is an individualistic, anarchic, selfish world. The cerebellar world is the primitive world of archetypes in the collective unconscious. The abstract paintings have links with the collective unconscious. The rock music or modern music contains rhythmic primitive chaotic sounds coming out the collective unconscious. The primitive collective unconscious links up post modern literature or magic realism with violence, love, hate, evil, obscenities and death. Thus literature, music, dance and painting helps to overcome reality and rationality producing transcendence. The unconscious brain is formed of an archaean colony network and is adynamic and inflexible. There is an epidemic of autism and schizophrenia. The loss of function of neurons leads to increased extrasensory perception via archaean magnetite. This can lead to the lack of development of speech and ritualized behaviours of autism. This also produces the thought disorder, hallucinations and delusions of schizophrenia. It looks like an epidemic cerebellar cognitive, affective disorder.¹⁻¹⁷

The goodness is related to conscious brain localized in the cortical areas. The cortical areas mediate moralistic, functionally atheistic, civil society behaviour. The civil society depends upon common good. The cortical world is a world of morality, rationality, altruism, civility and decencies. This needs inhibitory power of the cerebral cortex. Such a society is non-capitalistic and works for the common good. It tends to be non creative. The primitive collective spirituality

and oneness is lost. It is replaced by goodness based on judgment, reasoning and morality. It is a moralistic world where taboos are banned. This requires synaptic plasticity and is modulated by HERV mediated jumping genes. This needs a dynamic brain and the human cerebral cortex evolved due to the jumping genes generated from human endogenous retroviral sequences. The cerebellar world comparatively is impulsive, criminal, violent, terroristic with love of war, selfish, acquisitive, spiritual, autistic, obsessive, schizophrenic, obscene, evil, ritualized, artistic, illogical and cruel. It is mediated by the archaeal colony network. The stem cell transformation of somatic cells results in HERV resistance and retroviral resistance. Archaeal digoxin inhibits reverse transcriptase by producing magnesium deficiency as well as modulates RNA viral editing inhibiting retroviral replication. This produces lack of HERV jumping genes in this stem cell brain and lack of synaptic plasticity and dynamicity. The stem cell syndrome is characterized by retroviral resistance. Archaeal symbiosis inhibits retroviral infection. The homo sapiens with less of archaeal symbiosis becomes susceptible to retroviral and other RNA viral infection and gets wiped out. The homo neoneanderthalis are resistance to retroviral and other RNA viral infection and persists. The homo neoneanderthalis dominates all over the world. But the homo neoneanderthalis are prone to civilisational disease like malignancy, autoimmune disease, neurodegeneration, metabolic syndrome and neuropsychiatric disorders. The homo neoneanderthalis becomes extinct after a period of time.¹⁻¹⁷

The archaeal induced stem cell syndrome or neanderthalisation is due to global warming and acid rains resulting in increased extremophilic archaeal symbiosis. The archaea catabolizes cholesterol and generates digoxin, bile acids and short chain fatty acids which produce induction of uncoupling proteins. This produces mitochondrial dysfunction and the cell obtains its energetics from glycolysis. Archaeal digoxin produces membrane sodium potassium ATPase

inhibition which also contributes to stem cell conversion. The whole body somatic and brain undergoes stem cell conversion and becomes a stem cell phenotype with Warburg metabolic phenotype. The generalized acidity due to global warming and increased atmospheric carbon dioxide also facilitates archaeal growth and stem cell transformation. The acidic pH due to the Warburg phenotype and increased atmospheric carbon dioxide also results in stem cell conversion. The somatic differentiated cell getting converted to stem cells lose their function and become dysfunctional metabolically, neurologically, immunologically and endocrine-wise. This produces the epidemic Benjamin button syndrome and the human species becomes neanderthalic and a collection of immature stem cells. This results in epidemic metabolic syndrome x, degenerations, cancer, autoimmune disease, autism and schizophrenia. The brain becomes converted to a collection of stem cells which are dedifferentiated with loss of function and is like an archaeal colony network. The perception becomes extrasensory and quantal depending on archaeal magnetite. The increased amount of low level EMF perception results in prefrontal cortical atrophy. It also produces cerebellar hypertrophy and the cerebellar cognitive function takes over. This also results in societal changes where evil and spirituality dominates. The world of the logical civil society of the Christian world comes to end and paganistic behaviour takes over. The society becomes selfish and dominated by impulsive consumerism and acquisitive capitalism. The world becomes cruel, violent, aggressive and terroristic. Art becomes chaotic and abstract in line with the senses and unconscious. There is a predominance of obsessive and alternate sexuality. Criminal behaviour and cruelty dominates. The world is impulsive psychopathic, creative autistic with features of idiotic savants, ritualistic, chaotic, sexual, ugly, anarchic, violent, evil, paganistic, obscene, atheistically spiritual as well as selfish. It mimics the Nietzteschean world, the deconstructed world of Derrida, the surrealistic world

of Bataille and the nihilistic, anarchic world. There is the death of the individual and life becomes a social value. It is an acephalistic world of Freud and Jung. The art is abstract, the literature is magically real, the music is rock and the dance chaotic. All these results from the extinction of rationality and the dominance of primitive impulsive behaviour. A civilization of the senses dominated by the unconscious takes over. The will to goodness given by the cerebral cortex is lost. This results in development of a new homo neanderthal human species with its dominant evilly spiritual cerebellar brain. It produces a surrealistic evil brain with realm of the senses, archetypes, evil spirituality and impulsiveness taking over. It is a kingdom of the collective unconscious and selfish capitalism with the will to power and the realm of the senses.¹⁻¹⁷

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Chapter 6

**The Human Brain and Evolution, Extinction and
Reproduction of Universe - The Universe
as a Creation of the Mind**

Introduction

The interstellar space is filled with star dust which is postulated to be of biological origin. Fred Hoyle in his hypothesis of the life cloud has put forward an extra terrestrial origin for life on earth. The existence of an extra terrestrial force controlling the genesis and evolution of life on earth has been put forward by many authors. The biocosm theory postulates that the conditions in the universe have been so adjusted to make it possible for life to exist on earth and the universe. This leads to the postulate that the universe exists and reproduces because of life which acts as a quantal observer. This paper deals with the role of extremophilic archaea and RNA viroids extruded from the archaeal cells as primitive anthropomorphic observers making it possible for the universe to exist and evolve. The human race is divided into two species homo sapiens and homo neanderthalis. The homo neanderthalis interbred with homo sapiens to produce a hybrid species. Therefore there are species with more of neanderthalic origin and homo sapien species in earth. The previous studies have demonstrated matrilineal societies with more of neanderthalic origin in contrast to patrilineal societies. The origin of neanderthalic societies and homo sapien communities was ascribed to symbiosis. The Neanderthal species has more of extremophilic archaeal symbiosis occurring in the extremes of climate like the ice age and global warming. The homo sapien species has more of intragenomic RNA viroid/retroviral symbiosis which contribute to the dynamicity of the homo sapien genome. The Neanderthal species were retroviral resistant. The origin of the archaea and the RNA viroids are possibly from the interstellar space as archaeal clouds and RNA viroidal quantal computing clouds which function as extra terrestrial intelligence. The RNA viroids are extruded by archaeal cells. They would have reached the earth via meteoroidal impacts and seeded life on earth. The archaeal colonies would have

organized into the homo neanderthalic species in Eurasia and RNA viroidal colonies would have led to the evolution of homo sapien species in Africa. The paper deals with this hypothesis.¹⁻¹⁶

Materials and Methods / Results

The blood samples were drawn from the homo neanderthalic matrilineal species and the homo sapien species. The estimations done in the blood samples collected include cytochrome F420 activity. The generation of RNA viroids in the plasma was studied. The results showed that the matrilineal species of neanderthalic origin had more of archaeal symbiosis while the homo sapien species had more of RNA viroidal symbiosis.

Table 1. Cytochrome F420 activity.

| | | Sudra | Non-sudra | F value | P value |
|--|------|-------|-----------|---------|---------|
| CYT F420 % (Increase with Cerium) | Mean | 23.46 | 4.48 | 306.749 | < 0.001 |
| | ±SD | 1.87 | 0.15 | | |
| RNA % change (Increase with Rutile) | Mean | 4.37 | 23.59 | 427.828 | < 0.001 |
| | ±SD | 0.13 | 1.83 | | |
| RNA % change (Decrease with Doxy) | Mean | 18.38 | 65.69 | 654.453 | < 0.001 |
| | ±SD | 0.48 | 3.94 | | |

Discussion

The quantal wave form or the Higgs field gives mass and energy to the particles like protons, neutrons and electrons when it interacts with it. The quantal wave forms can generate porphyrins. Porphyrins can have a macromolecular and wave existence which is interconvertible. The porphyrin arrays can self organize and self reproduce. The macromolecular porphyrin arrays would have functioned as intelligent organisms in the interstellar space. The iron porphyrins can undergo photooxidation and generate a magnetic field. The photonic interaction with the magnetic porphyrins can generate black holes

which can collapse to a point before singular density. At this point of time it can undergo rebound producing new universes. The porphyrin organism with its quantal computing function served as the initial anthropomorphic observer or the lotus of Brahma. The porphyrins would have formed a template for RNA viroids and prions to form. This would have generated primitive archaeal forms. The primitive archaeal cell can extrude RNA viroids generating RNA viroidal clouds. The intergalactic magnetic field generated by the archaea and magnetic porphyrin organism would have contributed to the evolution of star systems and galaxies. The archaeal clouds and RNA viroidal clouds would have served as interstellar intelligence guiding the formation of star systems and galaxies and also functioning as anthropomorphic observers. The meteoritic impacts would have transferred the archaeal and RNA viroidal colonies to earth. They would have self organized into plant and animal species as well as homo sapien and homo neanderthalic species. The homo neanderthalic species are archaeal dominant. The homo sapien species are RNA viroidal dominant.¹⁻¹⁶

The big bang cosmology postulates the evolution of the universe from the Higgs field. Higgs field is made up of Higgs Boson and top quarks. Higgs Boson can exist in two states. The stable state which is of high energy, low density compatible with the present existence of universe and the unstable state which is of low energy and high density. The universe is presently in the edge of the stable state. The low energy high density state is unstable and can cause catastrophic vacuum expansion leading to the end of the universe. The Frohlich model of quantal brain function postulates the existence of Bose-Einstein condensates in the brain at normal temperature. There are dipolar magnetite and porphyrin molecules in the brain which in the context of membrane sodium potassium ATPase inhibition can lead onto a pumped phonon system producing Bose-Einstein condensate and bosons in the brain. This boson can become unstable leading onto catastrophic vacuum collapse and the possible extinction

of the universe. The Frohlich model of Bose-Einstein condensate formed of magnetic dipolar porphyrins and archaeal magnetite in cellular lipid emulsions can interact with photons generating black holes. This black hole can collapse to singularity. But the collapse happens only upto a particular point following which the density or singularity undergoes a rebound producing a new universe with a new set of universal constants. Thus the quantal model of brain function can lead onto the destruction and reproduction of universes. The brain can be considered to be a multicellular quantal computing archaeal network in the case of homo neanderthalis. The synaptic networks of the brain parallel the galactic networks of the universe. The brain functions as the universal quantal computer and anthropomorphic observer creating and destroying as well as reproducing universes. This occurs to a lesser extent in the homo sapien brain.¹⁻¹⁶

The homo neanderthalis species would tally with the biblical fallen angels and the homo sapien species representing the God angel. They are basically visitations of extra terrestrial intelligence as archaeal and RNA viroidal colonies. The homo neanderthalis is an evolved archaeal colony network. The archaea extrudes RNA viroids. The homo sapien species is RNA viroidal dominant with RNA viroids integrated into the genomic DNA. The organization of race and caste system in India points to such an origin. The homo neanderthalic species had an initial habitation in the Indian ocean continent which had a catastrophic extinction by archaeal expansion in the ocean crust which generated dangerous tsunamis during ice age. The Neanderthals migrated to the Eurasian landmass creating the civilization of Harappa, Sumeria and Egypt. They are the asuras of Rig veda. The homo neanderthalic species are fair, matrilineal, asexual, spiritual, altruistic and community organized. These civilizations were basically matrilineal and creative. They were paganistic, secular and atheistic. They were environmentally conscious living in quantal interaction with the world around creating a feeling of environmental spiritual consciousness. The society formed on this basis

functioned as an organic whole in quantal interaction with one another. It was equal, just and functioned as primitive form of socialistic society. The homo neanderthalis species was essentially asexual with the gender equality and matrilinearity. The archaeal overgrowth consequent to global warming can lead to eventual neanderthalisation of the human species and brain. The brain neuronal cortex shrinks due to quantal perception of electromagnetic fields which pollute the globalised warm world. There is also consequent cerebellar hypertrophy. Cerebellar hypertrophy can lead onto schizophrenia and autistic modes of behaviour. Cerebellar hypertrophy can lead to cerebellar dysfunction and motor ataxia. The motor ataxia and the clumsiness of movement and speech would have lead to the evolution of abstract painting, dance, music, symbolic speech and eventually speech in the Neanderthals. The neanderthalisation of the human brain consequent to global warming leads to evolution of rock music, dance and modern forms of abstract painting. The Neanderthal brain owing to magnetite mediated increased quantal perception are more spiritual. The Neanderthal community owing to quantal perception functions as one single whole leading to altruism, spirituality, socialism, gender equality and eco-spirituality. This represents the civilisational mode of the eastern world. The societies emerged from the possible Lemurian landmass. As they evolved out of extra terrestrial archaeal colonies and intelligence their level of development and intelligence was high. They possessed the original language and the concept of a human Godhead was developed first in their civilization. The Rig veda is the oldest spiritual book of humankind. Most of the Gods described in Rig veda were of asuric origin even Varuna, the principal God. The major philosophical entities of Buddhism and Jainism which are basically atheistic religions preaching social equality, oneness and justice were evolved by the asuras. The homo sapiens evolved in Africa and migrated to the Eurasian landmass. They had basically an RNA viroidal symbiosis in the brain which gave rise to a practical less creative brain. The homo

sapien species are patrilineal, commonsensical and individualistic. The homo sapien community forms the devas of the vedic literature and the Rig veda describes clashes and wars between the asuric inhabitants of Harappa and the invading devas. They over ran the neanderthalic civilizations and created a racial society with the homo sapiens as the ruling class and the Neanderthals as the under caste of sudras. The sudras formed the discriminated underbelly of the civilization. The literature, language and holy books of the asuras were taken over by the uncivilized homo sapienic devas who made it into their own. The future generations of sudras were prevented from learning their language and worshipping their Gods which were taken over by the homo sapienic devas. The homo sapienic devas were theistic, individualistic, unaltruistic and had no communal or societal consciousness. This signifies the civilisational mode of the western world. The archaeal growth in homo sapiens is less. This leads onto less of magnetite mediated quantal perception and universal oneness. This contributes to the individuality, selfishness, unaltruistic behaviour, unbridled capitalism and the patriarchal gender unequal society of the homo sapien world.¹⁻¹⁶

The homo neanderthalic society owing to increased quantal perception is spiritual and feels the oneness of the world and the godliness of individual human beings. This leads onto the philosophy of Buddhism with its sense of atheism and human values. Buddhism and Jainism as well as the Mauryan empire represents victory for the asuric Neanderthals or the sudras. The Buddhist and Hindu society of neanderthalic world considered good and evil as part of the same quantal world representing the universal soul. The godhead and the fallen angel belong to the same quantal world of the universal soul. The concept of right and wrong are not absolute contraindications but part of the same quantal world. The quantal perception produces information storage after mortality and the idea of reincarnation. The increased world of quantal perception mediated oneness and the cholesterol catabolizing archaeal

overgrowth leading to sex hormone deficiency produces the gender equal asexual world. Sexuality is not considered as something apart from religion as evidenced by the tantric schools of Hinduism and Buddhism. It was considered as a form of experiencing oneness as indicated by ideas such as Kundalini. The increased quantal perception leads to a feeling of oneness which produces universal unity. There is no war but universal peace. Eastern societies like China and India are basically quantal docile societies with war being uncommon. The major wars in Hindu history like the Mahabharata and Ramayana war were those between the colonizing homo sapien devas and the native peaceful Neanderthals. The Pandava army were the homo sapien devas and the Kaurava army the neanderthalic natives. The God Rama was the head of homo sapien devas and the Ravana the leader of the native Neanderthals. The devas were the head of the colonizing homo sapiens from Europe. They could win the Mahabharata and Ramayana wars and the sudric neanderthalic native population was rendered to slavery for generation to come. The independence struggle and Gandhi's attitude to the lower caste and harijans were a part of the same phenomena. The homo sapien world on the other hand due to reduced quantal perception was individualistic. Good and evil were absolutely different as the God and the fallen angel. There was no belief in reincarnation and sexuality was considered as taboo. The homo sapien society owing to its reduced quantal perception and individualistic nature discovered wars and slavery. Wars are essentially a feature of semitic societies and religion. The homo sapien devas are capitalistic and rightist in their attitude to society while the homo neanderthalis is communistic and socialistic. The war between capitalism and socialism is representative of that between Neanderthals and homo sapiens. The phenomena of global warming, archaeal overgrowth and neanderthalisation of homo sapiens will lead to a more peaceful, globalised,

spiritual, gender equal and altruistic society. But the Neanderthal domination resulting from global warming can lead to the society's own demise.¹⁻¹⁶

The phenomena of climate change and global warming leads onto archaeal multiplication and neanderthalisation of the human race. Archaeal growth occurs in extremes of climate - the ice age and in times of global warming. This results in a return to asuric culture and civilization with its spiritual, environmentally conscious, socialistic, asexual and group identity. The modern world is represented by the Kali yuga where the sudras or the Neanderthals return to a position of power and global significance. This represents the rise of the asuric neanderthalic sudric slaves. This is represented by the rise of neanderthalic eastern societies of China and India as well as the decline of the homo sapien West and Africa. The neanderthalisation of homo sapiens due to archaeal growth can lead to human disease and eventual extinction. The archaea catabolizes cholesterol to generate digoxin. Digoxin functions as the neanderthalic hormone. Digoxin produces membrane sodium potassium ATPase inhibition and increased intracellular calcium and reduced magnesium. Magnesium deficiency leads to mitochondrial dysfunction, vasospasm, dyslipidemia and metabolic syndrome x. The increase in intracellular calcium leads to oncogene activation and malignancies. The increase in intracellular calcium can activate NFkB leading to immune activation and autoimmune disease. The increased intracellular calcium can activate the caspase cascade leading onto cell death and degenerations. The increase in intracellular calcium can increase synaptic release of monoamine neurotransmitters producing schizophrenia and autism. The increase in archaeal growth can produce the Warburg phenotype with increased glycolysis and mitochondrial dysfunction. The increased glycolysis can activate the lymphocyte producing autoimmune disease as lymphocytes are dependent on glycolysis for energy needs. The cancer cells also depend on glycolysis for energy needs. The Warburg

phenotype can lead onto increase in malignancies. The Warburg phenotype and increased glycolysis can lead to poly ribosylated glyceraldehyde 3 phosphate dehydrogenase mediated cell death and degeneration. The Warburg phenotype can lead to magnesium deficiency related insulin resistance and mitochondrial dysfunction leading to schizophrenia. Thus archaeal mediated hyperdigoxinemia and Warburg phenotype can lead to civilisational diseases in the Neanderthal phenotype leading onto its extinction. The archaeal overgrowth in the ocean crust owing to global warming can lead to release of large amounts of methane producing oceanic earthquakes, tsunamis and destruction and splitting up of continents. This leads onto the catastrophic end of the world. As also the archaeal porphyrin and magnetite mediated Frohlich model of Bose-Einstein condensates in the brain generated bosons can undergo catastrophic vacuum decay leading to universal extinction. The magnetic dipolar porphyrins and magnetite in the lipid emulsion of brain cells can be photonically excited generating black holes. These black holes don't reach absolute singularity, but near that point can undergo a phenomenon called rebound reproducing the universe. Thus the neanderthalisation of human brain and generation of Bose-Einstein condensate of the Frohlich model can lead to extinction and reproduction of the universe.¹⁻¹⁶

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Chapter 7

**Neanderthalic Endosymbiotic Actinidic Archaea/Viroids,
Quantal Perception and Biological Reincarnation**

Introduction

An endosymbiotic actinidic archaea and viroid mediated model of quantal perception and biological reincarnation is presented. Actinidic archaea and viroids has been related to the pathogenesis of schizophrenia, autism and primary seizure disorder.² Actinidic archaea have a mevalonate pathway and cholesterol catabolism.¹⁻⁸ The endosymbiotic actinidic archaea and viroids have got axonal and transynaptic transport functioning as biological neurotransmitters. The human brain can be compared to a well organised modified archaeal biofilm with archaeal derived viroids serving as messengers. The actinidic archaea with its magnetite can mediate quantal perception and store biological information. The actinidic archaea are eternal and the biological information stored in archaeal magnetite quantal computers may serve as a store of biological information in nature. The actinidic archaeal magnetite mediated quantal perception also forms the basis of the collective unconscious. This can mediate the mechanism of reincarnative memories.

Materials and Methods

Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The following groups were included in the study: - schizophrenia, autism and primary seizure disorder/primary generalized epilepsy. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, (IV) same as II+ciprofloxacin and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was

prepared as described by Richmond.⁹ Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 °C for 1 hour. The following estimations were carried out: - Cytochrome F420, free RNA, free DNA, polycyclic aromatic hydrocarbon, hydrogen peroxide, dopamine, noradrenaline, serotonin, pyruvate, ammonia, glutamate, acetyl choline, hexokinase, HMG CoA reductase, digoxin and bile acids.¹⁰⁻¹³ Cytochrome F420 was estimated fluorimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.

Results

The parameters checked as indicated above were: - cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutil increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutil increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-8 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

Table 1. *Effect of rutile and antibiotics on cytochrome F420 and noradrenaline.*

| Group | CYT F420 % (Increase with Rutile) | | CYT F420 % (Decrease with Doxy) | | Noradrenaline % (Increase with Rutile) | | Noradrenaline % (Decrease with Doxy+Cipro) | |
|---------|---|------|---------------------------------------|------|--|------|--|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 4.48 | 0.15 | 18.24 | 0.66 | 4.43 | 0.19 | 18.13 | 0.63 |
| Schizo | 23.24 | 2.01 | 58.72 | 7.08 | 22.50 | 1.66 | 60.21 | 7.42 |
| Seizure | 23.46 | 1.87 | 59.27 | 8.86 | 23.81 | 1.19 | 61.08 | 7.38 |
| Autism | 21.68 | 1.90 | 57.93 | 9.64 | 23.52 | 1.49 | 63.24 | 7.36 |
| P value | 306.749 | | 130.054 | | 380.721 | | 171.228 | |
| F value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 2. *Effect of rutile and antibiotics on dopamine and serotonin.*

| Group | DOPAMINE % change (Increase with Rutile) | | DOPAMINE % change (Decrease with Doxy) | | Serotonin % change (Increase with Rutile) | | Serotonin % change (Decrease with Doxy+Cipro) | |
|---------|--|------|--|------|---|------|---|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 4.41 | 0.15 | 18.63 | 0.12 | 4.34 | 0.15 | 18.24 | 0.37 |
| Schizo | 21.88 | 1.19 | 66.28 | 3.60 | 23.02 | 1.65 | 67.61 | 2.77 |
| Seizure | 22.29 | 1.33 | 65.38 | 3.62 | 22.13 | 2.14 | 66.26 | 3.93 |
| Autism | 22.76 | 2.20 | 67.63 | 3.52 | 22.79 | 2.20 | 64.26 | 6.02 |
| F value | 403.394 | | 680.284 | | 348.867 | | 364.999 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 3. *Effect of rutile and antibiotics on free DNA and RNA.*

| Group | DNA % change (Increase with Rutile) | | DNA % change (Decrease with Doxy) | | RNA % change (Increase with Rutile) | | RNA % change (Decrease with Doxy) | |
|---------|---|------|---|------|---|------|---|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 4.37 | 0.15 | 18.39 | 0.38 | 4.37 | 0.13 | 18.38 | 0.48 |
| Schizo | 23.28 | 1.70 | 61.41 | 3.36 | 23.59 | 1.83 | 65.69 | 3.94 |
| Seizure | 23.40 | 1.51 | 63.68 | 4.66 | 23.08 | 1.87 | 65.09 | 3.48 |
| Autism | 22.12 | 2.44 | 63.69 | 5.14 | 23.33 | 1.35 | 66.83 | 3.27 |
| F value | 337.577 | | 356.621 | | 427.828 | | 654.453 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 4. Effect of rutile and antibiotics on HMG CoA reductase and PAH.

| Group | HMG CoA R % change (Increase with Rutile) | | HMG CoA R % change (Decrease with Doxy) | | PAH % change (Increase with Rutile) | | PAH % change (Decrease with Doxy) | |
|---------|---|------|---|------|-------------------------------------|------|-----------------------------------|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 4.30 | 0.20 | 18.35 | 0.35 | 4.45 | 0.14 | 18.25 | 0.72 |
| Schizo | 22.91 | 1.92 | 61.63 | 6.79 | 23.01 | 1.69 | 59.49 | 4.30 |
| Seizure | 23.09 | 1.69 | 61.62 | 8.69 | 22.67 | 2.29 | 57.69 | 5.29 |
| Autism | 22.72 | 1.89 | 64.51 | 5.73 | 22.61 | 1.42 | 64.48 | 6.90 |
| F value | 319.332 | | 199.553 | | 391.318 | | 257.996 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 5. Effect of rutile and antibiotics on digoxin and bile acids.

| Group | Digoxin (ng/ml) (Increase with Rutile) | | Digoxin (ng/ml) (Decrease with Doxy+Cipro) | | Bile acids % change (Increase with Rutile) | | Bile acids % change (Decrease with Doxy) | |
|---------|--|------|--|-------|--|------|--|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 0.11 | 0.00 | 0.054 | 0.003 | 4.29 | 0.18 | 18.15 | 0.58 |
| Schizo | 0.55 | 0.06 | 0.219 | 0.043 | 23.20 | 1.87 | 57.04 | 4.27 |
| Seizure | 0.51 | 0.05 | 0.199 | 0.027 | 22.61 | 2.22 | 66.62 | 4.99 |
| Autism | 0.53 | 0.08 | 0.205 | 0.041 | 22.21 | 2.04 | 63.84 | 6.16 |
| F value | 135.116 | | 71.706 | | 290.441 | | 203.651 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 6. Effect of rutile and antibiotics on pyruvate and hexokinase.

| Group | Pyruvate % change (Increase with Rutile) | | Pyruvate % change (Decrease with Doxy) | | Hexokinase % change (Increase with Rutile) | | Hexokinase % change (Decrease with Doxy) | |
|---------|--|------|--|------|--|------|--|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 4.34 | 0.21 | 18.43 | 0.82 | 4.21 | 0.16 | 18.56 | 0.76 |
| Schizo | 20.99 | 1.46 | 61.23 | 9.73 | 23.01 | 2.61 | 65.87 | 5.27 |
| Seizure | 20.94 | 1.54 | 62.76 | 8.52 | 23.33 | 1.79 | 62.50 | 5.56 |
| Autism | 21.91 | 1.71 | 58.45 | 6.66 | 22.88 | 1.87 | 65.45 | 5.08 |
| F value | 321.255 | | 115.242 | | 292.065 | | 317.966 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 7. Effect of rutile and antibiotics on hydrogen peroxide and acetyl choline.

| Group | H ₂ O ₂ % (Increase with Rutile) | | H ₂ O ₂ % (Decrease with Doxy) | | Acetyl Choline % (Increase with Rutile) | | Acetyl Choline % (Decrease with Doxy) | |
|---------|--|------|--|------|---|------|---|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 4.43 | 0.19 | 18.13 | 0.63 | 4.40 | 0.10 | 18.48 | 0.39 |
| Schizo | 22.50 | 1.66 | 60.21 | 7.42 | 22.52 | 1.90 | 66.39 | 4.20 |
| Seizure | 23.81 | 1.19 | 61.08 | 7.38 | 22.83 | 1.90 | 67.23 | 3.45 |
| Autism | 23.52 | 1.49 | 63.24 | 7.36 | 23.20 | 1.57 | 66.65 | 4.26 |
| F value | 380.721 | | 171.228 | | 372.716 | | 556.411 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Table 8. Effect of rutile and antibiotics on glutamate and ammonia.

| Group | Glutamate % (Increase with Rutile) | | Glutamate % (Decrease with Doxy) | | Ammonia % (Increase with Rutile) | | Ammonia % (Decrease with Doxy) | |
|---------|--|------|--|------|--|------|--------------------------------------|------|
| | Mean | ±SD | Mean | ±SD | Mean | ±SD | Mean | ±SD |
| Normal | 4.34 | 0.21 | 18.43 | 0.82 | 4.40 | 0.10 | 18.48 | 0.39 |
| Schizo | 20.99 | 1.46 | 61.23 | 9.73 | 22.52 | 1.90 | 66.39 | 4.20 |
| Seizure | 20.94 | 1.54 | 62.76 | 8.52 | 22.83 | 1.90 | 67.23 | 3.45 |
| Autism | 21.91 | 1.71 | 58.45 | 6.66 | 23.20 | 1.57 | 66.65 | 4.26 |
| F value | 321.255 | | 115.242 | | 372.716 | | 556.411 | |
| P value | < 0.001 | | < 0.001 | | < 0.001 | | < 0.001 | |

Discussion

There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesise and use cholesterol as a carbon and energy source.^{14, 15} The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities.¹⁶ There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol

hydroxylase activity indicating bile acid synthesis were increased.⁷ The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide.¹⁵ The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The pyruvate can get converted to acetyl CoA and acetyl choline. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected.¹⁷ The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms.¹⁸

The archaea and viroids can regulate the nervous system including the NMDA/GABA thalamo-cortico-thalamic pathway mediating conscious perception.^{2, 19} NMDA/GABA receptors can be modulated by digoxin induced calcium oscillations resulting in NMDA/glutamic acid decarboxylase (GAD) activity induction, PAH increasing NMDA activity and inducing GAD as well as viroid induced RNA interference modulating NMDA/GABA receptors.² The cholesterol ring oxidase generated pyruvate can be converted by the GABA shunt pathway to glutamate and GABA. Increased NMDA transmission has been described in schizophrenia, autism and primary seizure disorder. The archaeal bile acids are chemically diverse and structurally different from human bile acids. The archaeal bile acids can bind olfactory GPCR receptors and stimulate the limbic lobe producing a sense of social identity. The dominance of archaeal bile acids over human bile acids in stimulating the olfactory GPCR - limbic lobe pathway leads to loss of social identity and schizophrenia / autism. The archaeal bile acids are important as modulators of the limbic lobe and gives social, group and racial identity to humans.

The brain functions as a quantum computer with quantum computer memory elements constituted of superconducting quantum interference devices - the SQUIDS which can exist as superpositions of macroscopic states. Bose

condensation, the basis of superconductivity is achievable at room temperature in the Frohlich model in biological systems. The dielectric archaeal magnetite and PAH are excellent electric dipole oscillators which exists under a steep neuronal membrane voltage gradient. The individual oscillators are energised with constant source of pumping energy from outside by digoxin binding to membrane sodium potassium ATPase and producing a paroxysmal depolarisation shift in the neuronal membrane. This prevents the dipole oscillators from ever settling into thermal equilibrium with the cytoplasm and the interstitial fluid which is always kept at constant temperature. Bose condensed states produced by digoxin mediated dielectric magnetite molecular pumped phonon system could be used to store information which might be encoded - all within the lowest collective frequency mode - by appropriately adjusting the amplitude and phase relations between the dipole oscillators. The external world sensory impression exists in the dipole oscillators as probabilistic multiple superimposed patterns - the U phase of quantum mechanics. The part of the incoming quantal data maps of the external world built by subliminal perception in logical sequence and corollary to the external cortical world map built by conscious perception is chosen. Digoxin by acting on neuronal membrane helps to magnify the chosen map to one graviton criteria and to the threshold required for the neuronal network to fire and consciousness. The nanoarchaeal magnetite sensed gravity can also produce the orchestrated reduction of the quantal possibilities to the macroscopic world. The comparison between subliminally perceived quantal maps and previous cortical maps stored in synaptic networks occurs by quantal non-local quasicrystal tiling effect which mediates the activation and deactivation of synapses through contraction and growth of dendritic spines. Digoxin binding to sodium potassium ATPase can modulate lipid microdomains in neuronal membrane altering the conformation of dendritic spine proteins bound to neuronal membrane. This can contribute to

contraction and growth of dendritic spines and the quasicrystal tiling effect. The R part of quantal subthreshold perception is not deterministic and it introduces a completely random element into the time evolution and in the operation of R, there might be a role of free will. In the quantal perception there is no past, present or future. All of them can exist together. This gives an explanation for the extrasensory perception and premonitions and visions of the past. Also in the quantal state, non-locality and action at a distance is possible. This can explain psychokinesis and mind travel. The information stored in one brain can be quantally transferred to the another brain raising the possibility of reincarnative experiences. Quantal perception model of brain function can give an explanation for hypnosis. In the quantal state, depending on the observer function of consciousness matter can be created out of void. The quantal state comes to the particulate state only when there is a quantal observer. Consciousness depends upon quantal subliminal perception by cortical dipole magnetite oscillators. The external world comes into existence depending on the observer function of consciousness. Thus consciousness and the external world are interdependent and the external world exists because of the act of observation. The world is a mirage and is a reflection of the observer function of the consciousness.¹⁹

The archaeal magnetite and archaeal digoxin can store all the world experiences in magnetite dipole oscillators serving as a store of biological quantal information. The archaea are external and never die. The actinidic magnetotactic archaea can carry all the biological information in the world for eternity. The actinidic archaea exists as the third element in each cell and it can carry the biological information in the quantal magnetite computers to the embryonal cells mediating a form of biological reincarnation. The eternal actinidic archaeal third element can serve as a source of pre-existing biological information of a previous life for the purpose of building up the present

biological personality of a new individual in continuation with experiences in previous life stored in archaeal magnetite quantal computers. The quantal perception mediated by actinidic archaea and viroids also gives rise to the phenomena of the collective unconscious where the biological information stored archaeal magnetite quantal computers in different brains function as one single undivided whole.¹⁹

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Chapter 8

**Neanderthalic Actinidic Archaea Mediates Biological
Transmutation in Human Systems - Nuclear Fission and
Fusion in the Brain and Spiritual Energy**

Introduction

Biological transmutation has been postulated by several groups of workers in microbial systems.^{1, 2} Quantizing structures of optimal size and shape are necessary for non barrier nuclear interactions. The situation is realized in microbial cultures. During the growth process, the replication of DNA and other biomacromolecules takes place. In the region of growth, the interatomic potential holes with slowly changing sizes are constantly appearing and in this situation non barrier nuclear interactions can take place. Actinidic archaea has been described in human systems from our laboratory and function as cellular endosymbionts regulating multiple cellular functions. The actinidic archaea utilizes an alternate biochemistry depended on actinides for enzyme catalysis. The seashores of Kerala are rich in actinidic elements present as rutile, illmenite and monazite. The actinidic archaea is an endosymbiont of the human cell and it is possible that the organism can mediate biological transmutation. Transmutation of magnesium to calcium can serve as a mechanism of regulation of the neuro-immuno-endocrine system. Deficiency of magnesium is seen in degenerations, malignancy, metabolic syndrome x, psychiatric disorders and immune disease.³ The actinidic archaea can exist as nanoarchaea which can undergo magnetite and calcium mineralization. It is possible that magnesium is being transmuted biologically to calcium to produce amounts sufficient for calcium mineralization. Calcified nanoarchaea can produce a systemic immune activation contributing to the diverse pathologies of degenerations, malignancy, metabolic syndrome x, psychiatric disorders and immune disease to study biological transmutation of magnesium to calcium and cerium. The results are presented in this paper.

Materials and Methods

Informed consent was obtained from all patients included in the study. The permission of the Ethics Committee of the Institute was obtained. Fasting blood was drawn for the study from normal individuals without any systemic disease.

Experimental system was as follows: The basic system contained patient's serum 0.5 ml + normal serum 0.25 ml + physiological buffered saline + cerium chloride 0.1 mg/ml. To the basic system MgSO_4 0.1 mg/ml was added.

The Mg^{++} and Ca^{++} were estimated at 0 hour. The remaining portion was incubated for 16 hours at 37 °C for 16 hours. The Mg^{++} and Ca^{++} were estimated at the end of 16 hours. The estimation of Mg^{++} and Ca^{++} were done by using commercial kits. Cytochrome F420 was estimated fluorimetrically (excitation wavelength 420 nm and emission wavelength 520 nm).

Results

The results showed that there was a decrease in magnesium and a concomitant increase in calcium in incubated serum samples from normal individuals. The percentage decrease in magnesium was 15.68 to 31.48 percent. The percentage increase in calcium was 10.43 to 9.79 percent. There was detection of cytochrome F420 in the system by fluorescence indicating archaeal growth dependent on actinidic cerium. This showed that the actinidic archaea was mediating the biological transmutation of magnesium to calcium.

Table 1. Experimental biological transmutation.

| Case | Time | Mg (mEq/l) | % change in Mg | Ca (ng/dl) | % change in Ca |
|--------|--------|------------|----------------|------------|----------------|
| Case 1 | 0 hr | 1.415 | | 0.796 | |
| | 16 hrs | 1.193 | 15.68 ↓ | 8.310 | 10.43 ↑ |
| Case 2 | 0 hr | 2.290 | | 0.764 | |
| | 16 hrs | 1.569 | 31.48 ↓ | 7.480 | 9.79 ↑ |

Discussion

The results showed that there is biological transmutation of magnesium to calcium in human systems mediated by actinidic archaea dependent on cerium for its growth. Regulation of calcium and magnesium levels in the cell by archaeal mediated biological transmutation can regulate multiple physiological systems. Calcium can modulate the mitochondrial PT pore and cell death. Cellular calcium levels are also involved in oncogene activation. Magnesium levels in the cell can regulate glycosylation and protein processing modulating golgi body and lysosomal function. Presynaptic calcium levels can regulate synaptic transmission as well as neurotransmitter release into the synapse. Cellular calcium levels can activate NF κ B producing immune activation. Magnesium and calcium levels can modulate mitochondrial function and metabolism.³

There is magnesium depletion from the system and calcium accumulation which can predispose to malignancy, immune disease, degenerations, schizophrenia and metabolic syndrome x.³ The increased intracellular calcium can open up the mitochondrial PT pore producing a mitochondrial dysfunction. Magnesium deficiency can produce a mitochondrial ATP synthase defect. The opening of the mitochondrial PT pore produces volume dysregulation of the mitochondria, hyperosmolarity and expansion of the mitochondrial matrix space producing outer membrane rupture. This leads to release of cytochrome C into the cytoplasm, activating the caspase cascade and cell death. Mitochondrial dysfunction and related apoptosis as well as free radical generation has been related to neuronal degeneration. Decreased intracellular magnesium can lead to altered glyconjugate synthesis and a protein processing dysfunction. Protein processing golgi body dysfunction as well as ER stress has been related to neuronal degeneration. Altered cell surface glyconjugates can lead to defective contact inhibition and oncogenesis. This can also produce disordered synaptic connectivity and functional neuropsychiatric disorders. Altered glyconjugates can

lead to defective MHC antigen presenting pathway and autoimmune diseases. A defective presentation of viral antigens can lead to immune evasion by the virus and viral persistence as in AIDS. Increased intracellular calcium can activate the RAS oncogene by producing GTPase inhibition and magnesium deficiency related phosphorylation defects can inactivate the tumour suppressor genes. Both of these can contribute to oncogenesis. Increased calcium within the presynaptic neuron can lead to increased glutamate release into the synapse and increased postsynaptic neuronal calcium can increase the NMDA signal transduction. NMDA signal transduction modulates the thalamo-cortico-thalamic reverberatory circuit important in conscious perception and schizophrenia. Increased NMDA signal transduction can contribute to epilepsy and degenerations of neuronal systems. An increase in presynaptic neuronal calcium can promote dopaminergic receptor actions contributing to the hyperdopaminergic state seen in schizophrenia. A decrease in intracellular magnesium can block the phosphorylation reaction involved in protein tyrosine kinase receptor activity leading to insulin resistance and syndrome x. An increase in intracellular calcium can activate the NF κ B signal transduction producing immune activation and autoimmune disease. Immune activation has also been related to syndrome x, degenerations, malignant transformation and psychiatric disease.

A calcium excess related PT pore dysfunction of mitochondria can generate free radicals. Free radicals can produce apoptosis, immune activation, insulin resistance and NMDA activity. Free radicals can activate NF κ B producing immune activation and autoimmune disease. Free radicals can activate the NMDA receptor modulating conscious perception and leading onto schizophrenia. Free radicals can produce mitochondrial dysfunction and cell death. Free radicals can activate HIF alpha and oncogene activation producing malignant transformation. Free radicals can produce insulin resistance and metabolic syndrome x.

A shadow biosphere of actinidic archaea has been described in degenerations, malignancy, metabolic syndrome x, psychiatric disorders and immune disease. The archaea transmutes magnesium to calcium for the purpose of biological mineralization. The archaea can exist as nanoarchaea which can get calcified to form calcified nanoarchaeal forms. Calcified nanoarchaeal particles can induce NF κ B. This can produce a state of systemic immune activation. This activates the AKT PI3 cascade inducing the Warburg phenotype with anaerobic glycolysis which is the basis of most human disease. The increase in mitochondrial PT pore hexokinase can produce cellular proliferation. The malignant cells depend on glycolysis for its energy needs. The Warburg phenotype can produce malignant transformation. The lymphocytes depend of glycolysis for its energy needs. Increased glycolysis can lead to immune activation. The glycolytic enzyme glyceraldehyde 3 phosphate dehydrogenase mediates nuclear cell death. The glycolysis generated NADPH activates the NOX enzyme important in insulin receptor function and NMDA activity. Thus the creation of Warburg phenotype can produce malignancy, immune disease, degenerations, schizophrenia and metabolic syndrome x.

Thus the transmutation related free radical generation and altered calcium-magnesium ratios in the cell can alter synaptic transmission, mitochondrial function, golgi body/ER function, lysosomal function, immune activation, cell proliferation, insulin resistance and cell death. The actinidic archaea related biological transmutation is an important regulatory mechanism of the cell whose dysfunction can produce altered neuro-immune-endocrine regulation. This can lead to human disease. The biological transmutation gives the actinidic archaea energy to survive and generates calcium for its biological mineralization.

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