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Memes, Cerebellum and the Human Unconscious



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Chapter 1

Memes, Genes and Cerebellar Function

Genes are self replicators and have produced human evolution. Culture is another mechanism of human evolution. Culture as a mechanism of human evolution is faster than genomic evolution. It can be an idea, a design, a fashion, religion, music, dance, rituals or a language. These are stored as unconscious programmes in the brain. The unit of cultural transmission is called a meme. The unit of imitation is also a meme. Memes are self replicators. Self replicators can evolve. Only replicators can evolve. Replicators are blind and selfish. Memes are unconscious and are localized to the cerebellum. This is exemplified by the cerebellar cognitive affective disorder. We have gene machine making the body and meme machine making the culture. Both these machines are blind, selfish replicators. The human consciousness is not meme related and can rebel against the tyranny of replicators.

An idea or a meme can infect the brain by quantal perception or mirror neuron function which serves the purpose of imitation. This can spread from one human brain to another and depending on its fidelity, fecundity and usefulness can be long lasting and survive. Memes can also co-evolve. The idea of God meme has co-evolved with music, dance and rituals. God meme is common to different civilizations as it is a useful unit of culture.

Memes are selfish, ruthless and ideological and unconsciously propagate. Memes are stored in human brain computer and compete for fecundity, storage space and time. Memes dominate and compete for attention of the brain along with other rival memes. They are self-perpetuating ruthless ideas which dominate the unconscious brain. Memes can coevolve. God meme coevolve with the blind faith meme, the hell-fire meme, music and dance meme because of its evolutionary advantage and successfully competed and won over other rival memes for computer space. They are called coadapted meme complexes.

Meme are selected in cultural environment. The gene evolution produces the human brain or computer. The human brain produces brain to brain transmission of memes by imitation behavior and genes have no role in the selection and evolution of meme complexes. Selfish genes and memes are unconscious, blind replicators. Selfish genes and memes have no foresight. The human brain is built as a gene machine and culture as a meme machine. It is human consciousness which can rebel against the tyranny of the selfish replicators.

Memes as unit of culture can get structured as information programmes in synaptic pathways of the brain. This can affect membrane sodium potassium ATPase function and intracellular calcium magnesium ratios modulating reverse transcriptase activity and jumping gene functions. This creates genomic plasticity. Memes when imitated by mirror neurons and quantal perceptive neurons by activity of low level EMF can induce heme oxygenase activity, deplete heme and induce porphyrin synthesis. Porphyrins can intercalate with RNA and DNA modulating genomic function. Thus memes by their imitation can modulate genomic plasticity which can get structured in the human genome so that it is transmitted over generations. Thus memes can produce changes in genomic evolution.

Memes arise from the meme pool and spread from brain to brain by imitation behavior. Imitation behavior is seen in frontal lobe syndrome. In prefrontal atrophy cerebellar dominance takes over and imitation behavior is a feature of cerebellar cognitive function. The cerebellum plays a crucial role in imitation behavior and transmission of memes. Cultural transmission of memes depends on the cerebellum. Cerebellum is the basis of human culture. The meme will literally parasitize the brain like human endogenous retroviruses. The human endogenous retroviruses cannot spread brain to brain. Genes are limited by

brains and there is only vertical transmission of genes by the process of reproduction. Memes by imitation behavior and cerebellar function can have a faster transmission resulting in the creation and transmission of culture.

Memes can also affect genomic transmission. A thought or a meme can produce changes in low level EMF and modulate porphyrin synthesis. Porphyrins can intercalate with nucleic acids modulating gene expression. The memes or thought ideas can alter neuronal firing, inhibiting membrane sodium potassium ATPase and increase intracellular calcium and reduce intracellular magnesium. Magnesium is required for reverse transcriptase activity. Thus memes or thought via membrane sodium potassium ATPase inhibition and altered intracellular calcium/magnesium ratios can modulate HERV expression, jumping genes and the dynamicity of the human genome. Memes can regulate the genes. Cultural transmission of memes can modulate genomic plasticity.

Archaea can control both cultural meme transmission and genomic transmission. The archaeal magnetite is capable of quantal perception and forms the basis of imitation behavior. Imitation behavior is the mechanism by which memes are propagated. The memes get selected from the meme pool depending on its fecundity, copying fidelity, longevity and faster rate of spread. Memes can also evolve as its spreads from brain to brain. Quantal perceptive mediated cerebellar imitative behavior is the basis of cultural transmission of memes. The archaea can also modulate genomic transmission. The archaea secretes RNA particles which functions as RNA viroids. The archaea derived RNA viroids can use the HERV reverse transcriptase and get converted to DNA which is then integrated into the human genome by HERV integrase. Thus the archaeal derived RNA viroids can contribute to jumping genes in the human genome.

Chapter 2

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

Introduction

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.¹⁻¹⁷

Materials and Methods

Freshly diagnosed schizophrenia and autism based on DSM IV criteria were chosen from 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 interrelationship 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 photo-oxidation 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 3

**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
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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 antimatter 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 tunneling 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 levitationary 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 localized 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 4

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 phenolization 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 archaical growth. The increased quantal perception of low level of EMF leads to prefrontal cortex atrophy and cerebellar dominance. The archaical 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 behavior 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 surrealistic philosophy. This

leads onto the evolution of an acephalic new human species homo neoneanderthalis.¹⁻¹⁶

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Chapter 5

The Archaeal Induced Stem Cell Conversion Produces
an Epidemic Benjamin Buttons Reverse Aging
Syndrome Leading to Systemic & Neuropsychiatric
Diseases and a Spiritual, Surrealistic 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 behavior related to subcortical areas especially the cerebellum. The cerebellum is the site of impulsive behavior and the unconscious behavior. 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 F 420		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 archaical 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 behavior. 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 behavior. 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 behavior, 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 a overflowing of spirituality. The paradoxical side of this behavior 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 archaeal induced proliferation of stem cells results in a big sized brain and trunk as in Neanderthals. This archaeal 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 behavior 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 surrealistic 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

behaviors 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 archaeal 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 archaeal 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 behavior. 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 behavior 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 behavior 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 behavior. 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 neoneanderthal 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

A Biological Basis for Philosophy, Economics,
History, Politics, Literature, Social Movements,
Feminism, Alternate Sexuality and Globalisation

Introduction

The homo neanderthalis society was matrilineal and the homo sapien society was patrilineal. The homo neanderthalis as described in previous papers had increased actinidic archaeal growth and archaeal magnetite/porphyrin mediated quantal perception. This gave a feeling of collective unconscious and universal oneness. The homo sapiens had decreased actinidic archaeal growth and archaeal magnetite/porphyrin mediated quantal perception was minimal. This gave rise to individuality in homo sapiens as opposed to societal consciousness in homo neanderthalis. This is the biological basis of the features of homo neanderthalis society- primitive communism, socialism, democracy, female dominance, alternate sexuality, creativity in art and literature, spirituality, eco-consciousness, peaceful co-existence and a globalised world. The homo sapien society was selfish, primitive capitalistic, undemocratic, dictatorial, patriarchal, more masculine, less creative in art and literature, non-spiritual and material, heterosexual, exploitative, polluting, nationalistic and with an increased propensity to war. The phenomena of global warming leads to increased extremophilic actinidic archaeal growth and neanderthalisation of homo sapiens leading to the resurgence of neanderthalic features in society. The study evaluated actinidic archaeal growth in individuals with different personal characteristic features of socialistic, capitalistic, democratic, dictatorial, feminist, male chauvinist, artistic, creative literary characters, alternate sexuality, eco-conscious, nationalistic and globalised outlook. The results are presented in this study.¹⁻¹⁶

Materials and Methods

The blood samples were drawn from two groups (1) the neanderthalic matrilineal population with outlook of altruism, primitive communism, socialism, democracy, female dominance, alternate sexuality, creativity in art and literature, spirituality, eco-consciousness, peaceful co-existence and a globalised world (2) the homo sapien patrilineal population with outlook of selfishness, primitive capitalistic, undemocratic, dictatorial, patriarchal, more masculine, less creative in art and literature, non-spiritual and material, heterosexual, exploitative, polluting, nationalistic and with an increased propensity to war. The estimations done in the blood samples collected include cytochrome F420 activity.

Results

The results showed that the population with neanderthalic features and characteristics of altruism, primitive communism, socialism, democracy, female dominance, matrilineal, alternate sexuality, creativity in art and literature, spirituality, eco-consciousness, peaceful co-existence and a globalised world had increased cytochrome F420 activity. The results showed that the population with homo sapien features and characteristics of selfishness, primitive capitalistic, undemocratic, dictatorial, patriarchal, more masculine, less creative in art and literature, non-spiritual and material, heterosexual, exploitative, polluting, nationalistic and with an increased propensity to war had increased cytochrome F420 activity.

Table 1. Cytochrome F420 activity.

		Neanderthalic	Homo sapien	F value	P value
CYT F420 %	Mean	23.46	4.48	306.749	< 0.001
(Increase with Cerium)	±SD	1.87	0.15		

Discussion

Neurobiology of Economics - Communism and Capitalism

The homo neanderthalis society and matriarchal societies had increased magnetite mediated quantal perception. There was a feeling of the collective unconscious and the oneness of the world. The individual existence was meagre. The society existed as a universal whole. This gives rise to the feeling of altruism, compassion and love. This resulted in a society where societal consciousness was dominant. There was a feeling of sharing and giving. This was the basis of primitive socialism and communism. There were no hierarchal structures and the society functioned on a commune basis. Eastern societies had a more communal and social basis.

The homo sapiens and patriarchal societies had decreased magnetite mediated quantal perception. There was no feeling of collective unconscious and oneness of the world. There was a feeling of individuality and self. The society existed for the individual or family. There was no feeling of altruism, compassion and love. Individuality and dog-eat-dog mentality was dominant. There was no feeling of sharing or giving. The aim was to amass wealth for the individual and the family. There were hierarchal structures and society functioned on the basis of wealth and privilege. This evolved into capitalism. Western societies had a capitalistic basis.¹⁻¹⁶

Neurobiology of History and Politics

The homo neanderthalis had increased quantal perception. This gave rise to a feeling of oneness and equality. There were no hierarchal structures and there was a feeling of universal whole. This was exemplified in neanderthalic societies. Democracy evolved in the ancient Indian republics of the medieval age. The Harappan society was also democratic. There was tolerance of minorities.

The homo sapiens had decreased quantal perception. There was more of individuality, selfishness and the need to control others. This gave rise to dictatorship, kingship and non-democratic structures. The Nazi Germany is an extreme example of the homo sapien behavior of selfishness and dictatorship. There was no tolerance of minorities as seen in the Nazi attitude to Jews who were neanderthalic in origin.¹⁻¹⁶

Neurobiology of Social Organisation, Feminist Movement and Alternate Sexuality

The homo neanderthalis had increased growth of cholesterol catabolizing archaea which gave rise to sex hormone deficiency and male-female equality. The homo neanderthalis had a matriarchal society with features of alternate sexuality with asexual features. There was female dominance and female leadership. There was increased quantal perception in the neanderthalic brain leading onto an equal society without hierarchy. This was a sort of primitive communism with sharing and compassion. There was no premium on individuality. There was less of consumerism and more of environmental consciousness. The environment had a soul. It was predominantly a give and take society. The society was equal and there was no apartheid. The invading

homo sapiens, the Aryans imposed the caste society on the peace loving sudric Neanderthals. The Rig vedas contain vivid description of this war.

The homo sapiens had decreased growth of cholesterol catabolizing archaea which gave rise to increase in sex hormones and male dominance. The homo sapien society was a patriarchal society with male dominance and male leadership. It was predominantly heterosexual. There was decreased quantal perception leading onto a society in which individuality had a premium. This gave rise to a capitalistic society and consumerism with very little environmental consciousness. The environment did not have a soul. It was predominantly a take-take society. The society was organized on a caste basis with homo neanderthalis as the underdog sudra and the homo sapiens as the ruling class. It was a form of apartheid.¹⁻¹⁶

Neurobiology of Language, Literature and Art

The homo neanderthalis had increased archaeal infection. This gave rise to vocal tics and motor tics. The motor tics correlated with the vocal tics leading onto the evolution of language. Language evolved due to a possible epidemic la tourette syndrome. Later on literature evolved. The homo neanderthalis had increased quantal perception and extrasensory perception. This gave rise to the world of imagination and literature. Early literature evolved in Eastern neanderthalic societies.

The homo sapiens had less of archaeal infection and a less dominant tics syndrome. The evolution of language was less effective in homo sapiens. The homo sapiens had decreased quantal perception and extrasensory perception. The world of imagination and literature was less evolved in them.

The homo neanderthalis had prefrontal cortex atrophy and cerebellar dominance. This gave rise to appendicular and axial ataxia. This leads onto the evolution of abstract painting. Abstract painting was introduced by Picasso who belonged to the Basque-Celtic society which had a neanderthalic basis. The gait ataxia and appendicular ataxia gave rise to unsteadiness of hands and limbs which later on evolved into dance. The vocal tics lead onto music and the ataxic speech gave rise to the cadence of music. The Eastern societies gave a lead to dance, painting and music.

The homo sapiens had prefrontal cortex dominance and cerebellar atrophy. There was no ataxia. Dance, music and painting were undeveloped in them. The Western societies tend to explore the field of music, dance and painting in less evolved way.¹⁻¹⁶

Neurobiology of Religion, Society and Spirituality

The homo neanderthalis had increased quantal perception. There was a feeling of oneness of the world and the collective unconscious. This gave rise to the concept of Jungian archetypes. There was increased spirituality and a feeling of a universal soul. Eastern neanderthalic societies were more spiritual and full of universal Godliness.

The homo sapiens had decreased quantal perception. There was no feeling of oneness or the collective unconscious. There was no concept of the Jungian archetypes. There was a decreased spirituality and feeling of universal soul. Religion was more organized, hierarchal and a way of controlling society. It was religion without spirituality. This gave rise to wars on the basis of religion. The semitic societies had their crusades and the modern war on terror. There was no equal war based on religion in the Eastern world.¹⁻¹⁶

Neurobiology of the Feminist Movement and Alternate Sexuality

The homo neanderthalis had increased growth of cholesterol catabolizing archaea which gave rise to sex hormone deficiency and male-female equality. The homo neanderthalis had a matriarchal society with features of alternate sexuality with asexual features. There was female dominance and female leadership. There was increased quantal perception in Neanderthals and a feeling of oneness of male and female.

The homo sapiens had decreased growth of cholesterol catabolizing archaea which gave rise to increase in sex hormones and male dominance. The homo sapien society was a patriarchal society with male dominance and male leadership. It was predominantly heterosexual. There was decreased quantal perception with male dominance and inequality.¹⁻¹⁶

Neurobiology of the Environmental Movement

The homo neanderthalis had increased quantal perception and a feeling of oneness with the world. The plants, animals and the earth had a soul. The human being felt at oneness with the world. This leads onto the concept of eco-spirituality. There was no consumerism or exploitation. The world existed along with environment.

The homo sapiens had no quantal perception. There was no feeling of oneness with the world. The plants, animals and earth had no soul. The human being was apart from the world. God gave the world to human being to exploit and enjoy. There was no concept of eco-spirituality. There was consumerism and exploitation of the environment. This leads onto global warming, pollution and destruction of the world.¹⁻¹⁶

Neurobiology of Globalisation and the Internet Dominated World

The homo neanderthalis had increased quantal perception and felt that the world was one. There was a feeling of global consciousness. The increased perception of low level EMF due to increased porphyrin production leads to prefrontal cortex atrophy and cerebellar dominance. The conscious perception is decreased and quantal perception dominates. The world becomes uniform and one.

The homo sapiens had decreased quantal perception and didn't feel one with the world. There was no feeling of global consciousness. There was decreased perception of low level EMF due to decreased porphyrin production producing prefrontal cortex dominance and dominance of conscious perception. The world belongs to the individual. The world is not perceived as one. The world is divided into nation-states and principalities.¹⁻¹⁶

Neurobiology of History, War and Peace

The homo neanderthalis had increased quantal perception and this gave rise to a feeling of universal oneness and uniformity. There was increased love and compassion. There was no war, but universal peace. The homo sapiens had decreased quantal perception and this gave rise to a feeling of individuality and tribal consciousness. There was no love or compassion. There was war and no universal peace.

The major wars of history are between the peace loving homo neanderthalis and aggressive homo sapiens. The Ramayana war was fought between the neanderthalic asuric Ravana army and the homo sapien Rama army. The Mahabharata war was between the homo sapiens Pandava army and neanderthalic Kaurava army. The world wars were imposed upon the world by the homo sapiens and their tribal consciousness. Hitler and Mussolinis are

prime examples of it. The only atomic bombing of the world were also conducted by the homo sapiens allied army.¹⁻¹⁶

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