Chapter 1

Climate Change and Human Species-Homo Neanderthalis, Homo Sapiens, Homo Sapien Extinctus and Homo Neoneanderthalis - Relation to Catastrophic Extinction

Endosymbiotic Archaea and Species Evolution

The global warming leads to endosymbiotic as well as colonic archaeal growth leading to alteration in the structure and function of the human body and system. The archaeal overgrowth within the cells leads to generation of new cellular organelle called archaeaons. The archaea have the shikimate pathway which can synthesize tyrosine and dopamine. Dopamine can be converted to dopachrome and epinephrine to adrenochrome. Dopachrome and adrenochrome can polymerize by oxidation generating melanin. The archaeaons secreting melanin can be called as archaeal melanosomes. The melanin in melanosomes has the wide range of absorption of the light spectra and gamma radiation and can transduct it to generate energy. This energy transduction can split water into H_2 and O_2 and generate protons modulating the proton gradient across the mitochondrial membrane synthesizing ATP. The melanin in the melanosome can absorb photons reducing ubiquinone to ubiquinol and generate ATP synthesis by oxidative phosphorylation. Thus the melanin in the archaeaons in the human cell can function as photosynthetic organelle. The archaeaons and their melanin can utilize gamma radiation to synthesize ATP and can exist in extreme conditions. Thus the archaeaons can produce a source of energy from light and electromagnetic waves and gamma radiation. The melanin is capable of transducting electromagnetic waves and low level electromagnetic fields and can be capable of quantal perception. Thus the melanin in the melanosomes is capable of information sensing and storage as well as energy production from electromagnetic waves and water. The human brain could have evolved by this mechanism. The humans are hairless as compared to other primates and are exposed to more of light inducing melanin induced photosynthesis and energy generation which could have contributed to the evolution of the human cortex and the complex human brain. The archaeaons melanosomes are capable of

quenching free radicals and resist phagocytic destruction. The melanosomes can also resist radiation and UV light. The archaeaons are indestructible and eternal. The archaeaons have got magnetite and are capable of quantal perception and information storage. The melanin also serves the purpose of quantal perception and information storage. The archaeaon can also synthesize magnetite particles forming subcellular organelle called magnetosomes. Magnetite can interact with melanin forming supermolecular complex systems. The archaeaon can synthesize porphyrins which can self organize to form self replicating structures called porphyrions. Porphyrions can interact with melanin also forming supramolecular complex systems. Eumelanin pigments contain indole based tetramers that are arranged in porphyrin-like domains. The indole based structures can self organize on porphyrin scaffolds to form tetrameric structures and melanin. The chemical structure of melanin on a macromolecular scale exhibit a tetrameric ring structure possibly because of self organization on porphyrin scaffolds. Porphyrion can generate melanosome complexes and they can form self organizing supramolecular complex systems. The archaeaon particles of melanosomes, magnetosomes and porphyrions forming complex colony network with specialized functions. It can function as a quantal computing system. The porphyrions and melanosomes can transducer energy and synthesize ATP functioning as primitive photosynthetic system. The magnetosome, porphyrions and melanosomes can function as information storage systems. Magnetosomes and porphyrions are dipolar and can have a quantal perceptive function based on sodium potassium ATPase inhibition mediated pumped phonon system. The melanin can function as a superconductor for high frequency radiation and neurotransmission, as a semi-conductor for sound and heat, conduct body ionic charges and resonate for the frequencies of visible light. The archaeaon-magnetosome, porphyrions and melanosome network can function as a quantal computing brain reducing the

human classical brain to a zombie brain. Thus the global warming induced archaeaon colony network and melanosomes are indestructible and eternal and takeover the human body. The human body metabolic programmes are suppressed including mitochondrial oxidative phosphorylation. The human body is reduced to a zombie or a framework for the archaeaon colony to thrive. The archaeaon induces stem cell transformation of the host human cells and change the metabolonomics of the human cells. The human cells oxidative phosphorylation is suppressed and it depends upon glycolysis for its energy needs. The human glycolytic pathway is taken over by the archaeaon for its needs. The glycolytic metabolites are channelled to the shikimic acid pathway and the D-xylulose phosphate pathway. The DXP pathway can synthesize cholesterol which is catabolized by the archaeaon for its energy. The cholesterol ring oxidases convert the cholesterol to pyruvate which then enters the GABA shunt pathway. The cholesterol side chain oxidases convert the side chain to short chain fatty acids and bile acids. The cholesterol aromatases converts the cholesterol ring to phenyl residues and synthesis of tyrosine and tryptophan. The shikimic acid pathway also utilizes substrates from the glycolytic pathway and generates tyrosine and tryptophan. The tyrosine that synthesize is converted to dopa, dopamine, dopachrome and oxidized to melanin. Melanin serves the purpose of capturing electromagnetic radiation, UV rays, Gamma radiation and light synthesizing ATP. Melanin can serve as a substrate for primitive archaeal photosynthesis. This leads to alteration in brain function and structure. The brain functions as an archaeaon melanosomal magnetite colony network capable of quantal perception, information storage and energy generation. This alters the brain function to an impulsive and anarchic mode of social function and functioning of the society as a group or collective organism. The quantal perception of the archaeaons also leads to evolution of a sort of communication with the quantal world creating a sort of universal personality or self. The

human cell and system is converted to the stem cell colony which is immature and lacking functional differentiation becoming a zombie for the archaeal colony. The melanosome and melanin form a first line of defence against infection and is required for innate immunity. The melanosomes can kill the bacteria, viruses and other organisms as is evidenced by the albinism related Chediak Higashi syndrome and Griscelli syndrome. The archaeal melanin also protects it against high temperature, chemicals, oxygen radicals, oxidizing agents, UV radiation and heavy metals. The archaeal melanin makes the endosymbiotic archaea indestructible.

Intergalactic Archaeal Quantal Computing Cloud Universalis

The intergalactic space contains microorganism especially extremophiles like archaea. The archaeal colony with its melanosomes, magnetosomes and porphyrions can form a giant quantal computing cloud in the intergalactic space functioning as a intergalactic superhuman intelligence. The porphyrions can form a template for the generation of RNA viroids, DNA viroids and prions which can self organize to form archaeaons. The porphyrions themselves are capable of a wave-particle existence and self replication. Thus the quantal computing cloud of extraterrestrial intelligence can arise on its own from the quantal electromagnetic fields of the intergalactic space. This extraterrestrial intelligence of quantal computing cloud of archaeaons, magnetosomes, melanosomes and porphyrions in the intergalactic space can be called as intergalactic archaeal quantal computing cloud universalis. This forms the ubiquitous anthropomorphic observer creating the universe out of the quantal foam, itself arising out the quantal foam. The porphyrins can arise sui generis from a quantal foam and forms a template for the formation of RNA viroids. An interstellar cloud of RNA viroids forms. The RNA viroids later code for DNA

viroids and prions. An isoprenoid organism can also arise in the porphyrin scaffold. The interstellar cloud of dominant RNA viroids gives rise to a form of universal consciousness or gravitational waves. The RNA viroids can generate electric currents by the piezoelectric effect where mechanical energy due to the shearing stress of RNA viroidal population is converted to electrical energy and this can give rise to gravitational waves and consciousness. The helical protein of the viruses has negative and positive charged ends and acts as a dipole. When they are squashed by shearing stress of viroidal population the rod shape of the viroids gets changed to oval and dipole becomes uneven. This generates electromagnetic forces and gravitational waves. The gravitational wave forms the basis of consciousness. The RNA viroidal population can have a silicon coating and can reach the earth by asteroidal hits and gives rise to endogenous retroviruses. The human endogenous retroviruses contribute to the plasticity the human genome and the development of synaptic connectivity important for the evolution of the prefrontal cortex. The RNA viroidal population best thrives in the presence of gravity and play an important role in the development of human cerebral cortex in homo sapiens. The homo sapien brain is cerebral cortical dominant with a fully developed human consciousness due to increase in HERV sequences which increases genomic plasticity and synaptic connectivity. The homo sapiens are creatures with dominant conscious function and are logical and rational. The interstellar RNA viroidal population contributes to consciousness and gravitational waves which are linked. The intergalactic dark matter and dark energy contributes to nearly 90% of the universe energy. The dark energy contributes to antigravity forces which are repulsive and contributes to expansion of the universe. The dark energy, dark matter and antigravity contribute to the collective unconscious and human unconscious. The dark matter is made up of melanotic archaeal networks which form huge clouds in the universe. The melanotic archaea arise abiogenetically from porphyrin

scaffolds which get structured out of the quantal foam spontaneously. On this porphyrin scaffolds the RNA viroids, the DNA viroids, prions, melanin and isoprenoids organisms form which symbiose to form the melanotic archaea. Thus the porphyrion/RNA viroidal population which mediates gravity and consciousness gives rise to melanotic archaeal clouds and antigravity mediating the collective unconscious. Thus gravity gives rise to antigravity and consciousness gives rise to the unconsciousness. The melanotic archaea can use antigravitational waves, cosmic radiation and gamma radiation as energy source for ATP synthesis. The dark matter of melanotic archaea contributing to antigravity thrives and multiplies in zero gravity situations. The melanotic archaea contains magnetite which can repulse each other when properly aligned contributing to the repulsive antigravity. The antigravity is related to the collective unconscious in the world as well as the human unconscious which is structured in the cerebellum. The dark matter containing melanotic archaea gets transferred to Eurasian land mass and earth by asteroidal hits and forms giant colonies and networks evolving to homo neanderthalis. The homo neanderthalis brain has a cerebellar dominant structure and function and is impulsive with a predominant unconscious function. The conscious function and cerebral cortex is less developed in homo neanderthalis as they are retroviral resistant. The archaea induces stem cell conversion and secretes digoxin which makes the homo neanderthalis cell population retroviral resistant. The deficiency of HERV sequences leads to maldevelopment of the homo neanderthalis cerebral cortex. The homo neanderthalis are impulsive creatures of the unconscious modulated by antigravitational waves. This extraterrestrial intelligence of quantal computing cloud can see life in different parts of the galaxies via asteroids and meteors. The human species evolved out of the seeded archaeaons from the extraterrestrial intelligence of the quantal computing cloud formed of the archaeal colony of archaeaons-magnetosomes, melanosomes and porphyrions.

This would have reached the earth by meteoric and asteroidal hits. The hits of the meteors and asteroids would have occurred first in the Eurasian landmass especially in the northern Siberian tundra. The homo neanderthalis would have evolved in this Eurasian landmass. As the Siberian Eurasian landmass was cold and dark the homo neanderthalis were depigmented and fair-coloured, hairless with sparse red hair. They were deficient in melanin and melanin induced energy transduction and photosynthesis leading to synthesis of ATP. The homo neanderthalis was energy deprived and the neanderthalic cortex was primitively formed and the cerebellum dominated their cognitive function. The endosymbiotic archaeal network in the brain with its magnetosomes, melanosomes and porphyrions form a primitive quantal computing system. This functions as an information receptive and storage system in communication with the extraterrestrial intelligence of the quantal computing cloud in the intergalactic space. The homo neanderthalis owing to its lack of melanosomes and innate immunity became relatively extinct over a period of time with fossilized remnants in different parts of the world. The homo neanderthalis had quantal perception which created a feeling of oneness with gender and social equality in society. The society was gender equal and matriarchal. The matriarchal societies of the Dravidians, Basque, Celts, Harappans, Sumerians and Jews were fossilised remnants of the homo neanderthalis species. The extremes of cold temperature of the ice age led to the growth of endosymbiotic archaea in the absence of melanosomes in the Neanderthal. The melanosomes function as the first line of defence against infection and is important in innate immunity. The absence of melanosomes would have led to defective innate immunity and eventual partial extinction of homo neanderthalis with preservation of fossilised matrilineal clusters. The fossilised matrilineal neanderthalic clusters are present in different parts of the world. The fossilised homo neanderthalis are susceptible to increased archaeal endosymbiosis

consequent to global warming and related civilizational diseases of metabolic syndrome, schizophrenia, cancer, autoimmune disease and degeneration. The homo neanderthalis will become extinct owing to civilizational disease consequent to global warming induced endosymbiotic archaeal growth.

The Homo Sapiens

The homo sapiens evolved in the tropical hot African landmass. The first human species to evolve is the homo neanderthalis in the Eurasian steppes. The homo sapiens would have evolved out of the archaea secreted porphyrions and RNA viroids independently. The porphyrions could have been transmitted to the tropical African landmass and would have served as a substrate for the formation of RNA viroids, DNA viroids and prions which symbiosed to form the primitive eukaryotic cell. The high temperature of the African continent would have contributed to mutations in RNA viroids and DNA viroids leading on to rapid evolution. The sub-Saharan African soil is depleted of selenium. Selenium deficiency leads to RNA viroidal mutations. Thus extremes of temperature and selenium deficiency lead to RNA viroidal diversity. This RNA viroidal diversity would have led to rapid evolution of homo sapiens from the eukaryotic cell. This eukaryotic cell would have evolved into homo sapiens species over a period of time. The RNA viroids are the basis of the HERV genes which contributes to the dynamicity of the homo sapien genome. The homo neanderthalis on the other hand are retroviral resistant while the homo sapiens is retroviral sensitive. The homo neanderthalis archaeaon secretes digoxin, a steroidal hormone which can destroy the retrovirus. The homo neanderthalis also has got endosymbiotic cholesterol catabolizing archaea which can alter the membrane sites for retroviral binding making the Neanderthal species resistant to retroviral infection. The homo neanderthalis have got a deficiency of HERV jumping genes in the genome and a rigid genome as compared to the HERV

sequences mediated flexible genome of the homo sapiens. The homo sapiens as they evolved in the hot African savannah would have been exposed to heat and light. This would have related in increased melanogenesis and darker skin and plenty of hair in the evolved homo sapiens. The homo sapiens owing to their dark colour would have been energy surplus consequent to melanin induced energy transduction and ATP synthesis. This would have led to the evolution of the human cortex. The RNA viroids integrated into the genome would have function as jumping HERV genes contributing to the dynamicity of the genome. A dynamic and flexible genome is required for the development of synaptic connectivity and cerebral cortex. Thus the homo sapiens evolve the modern human cerebral cortex consequent to the surplus energy produced by melanin induced energy transduction and ATP synthesis. The increase in melanin and melanosomes increased the innate immunity of the homo sapiens making them resistant to endogenous archaeal endosymbiosis. The homo sapiens were resistant to endosymbiotic archaeal growth seen in extremes of climate of global warming and ice age. The homo sapiens which evolved out of hot tropical Africa had increased melanin content in the skin which inhibits archaeal endosymbiosis and neanderthalisation. The homo sapien species is thus protected against increased archaeal endosymbiosis consequent to global warming and related civilizational diseases of metabolic syndrome, schizophrenia, cancer, autoimmune disease and degeneration.

Homo Sapien Albino Mutants and Homo Neoneanderthalis

The homo sapiens developed albino mutants which lacked the tyrosinase enzyme. These albino homo sapien mutants could not survive in the hot African savannah due to lack of pigmentation and migrated to the southern European landmass. This evolved into the patrilineal homo sapien European civilization. The patrilineal homo sapien European civilization arose out of the homo sapien

patrilineal African civilization. The albino mutants homo sapiens forming the European civilization are susceptible to endosymbiotic archaeal growth consequent to global warming. The albino mutants homo sapiens lack melanin and melanosomes important in innate immunity. This leads to fertile conditions for endosymbiotic archaeal growth in the albino mutants, Caucasoid population. The endosymbiotic archaeal growth in the Caucasoid population leads to the evolution of a new human species. The human zombie controlled by endosymbiotic melanotic magnetite archaeaon colony network can be called as a new species-homo neoneanderthalis. Thus the species change is occurring in the albino mutant homo sapien population of Europe and American consequent to global warming and endosymbiotic archaeal growth. The homo neoneanderthalis species and fossilized homo neanderthalis are susceptible to increased archaeal endosymbiosis consequent to global warming and related civilizational diseases of metabolic syndrome, schizophrenia, cancer, autoimmune disease and degeneration. The homo neanderthalis and homo neoneanderthalis will become extinct owing to civilizational disease consequent to global warming induced endosymbiotic archaeal growth.

Homo Sapien Extinctus

The homo neanderthalis and homo neoneanderthalis have endosymbiotic archaeal symbiosis. The endosymbiotic archaea secrete RNA viroids which can be acted upon by HERV reverse transcriptase generating corresponding DNA sequences which can be integrated into the genome by HERV integrase. The archaeal digoxin can edit the RNA viroids producing widespread diversity. The archaeal porphyrins can serve as a template for the generation of RNA viroids, DNA viroids and prions. The RNA viroids and DNA viroids can recombine with RNA and DNA viruses in the environment generating new RNA and DNA viruses. The RNA and DNA viroids can exchange their sequences with

environmental bacteria generating new bacteria. Thus there can be endogenous generation of new RNA viruses, DNA viruses and bacteria in homo neanderthalis and homo neoneanderthalis consequent to endosymbiotic archaeal overgrowth as a result of global warming. The homo neanderthalis and homo neoneanderthalis are resistant to this newly generated RNA viruses, DNA viruses and bacteria and act as an environmental reservoir for them. The new evolved RNA virus, DNA virus and bacteria generated from environmental reservoir of homo neanderthalis and homo neoneanderthalis infects the unprotected homo sapien species exterminating the homo sapien species. The homo sapien species is in decline as the homo sapien albino mutants are getting converted to homo neoneanderthalis and the African/Asian homo sapiens are getting exterminated by epidemics of new RNA viral infection generated by Neanderthal reservoirs. This homo sapien species can be called as homo sapien extinctus.

The archaea can induce stem cell conversion and neanderthalisation of the human species. The archaea catabolises cholesterol generating digoxin which can modulate RNA editing and magnesium deficiency resulting in reverse transcriptase inhibition. The archaeal cholesterol catabolism can deplete the membrane rafts of the CD_4 cell of cholesterol impeding the entry of the retrovirus into the cell. The archaea can produce permanent immune activation producing resistance to viral and bacterial infection. The archaeal cholesterol catabolism depletes tissue cholesterol producing vitamin D deficiency and immune activation. Thus archaeal overgrowth results in retroviral resistance and generation of the Neanderthal phenotype. The endosymbiotic archaea can secrete virus like RNA and DNA particles. The endosymbiotic archaea can induce uncoupling proteins inhibiting mitochondrial oxidative phosphorylation and generating ROS. The endosymbiotic archaeal magnetite can generate low level of EMF. The low level of EMF and ROS are genotoxic and produce breakages in hotspots of chromosome. It can also trigger rearrangements in

hotspots of chromosome inhabited by retroviral and non-retroviral elements producing their expression. The archaeal secreted DNA and RNA viroids can recombine with the expressed retroviral, non-retroviral elements and other genomic segments of the human chromosome generating new RNA and DNA viruses. Thus the neanderthalised humans can serve as an origin for new RNA and DNA viruses as well as mutated retroviruses. The endosymbiotic archaea converts the Neanderthal cells to stem cells. The stem cells are resistant to immune attack. The stem cells can serve as a reservoir for this new RNA and DNA viruses. The stem cells and archaeal cells can also serve as a reservoir for viruses and bacteria belonging to other plants and animals. This helps to generate the species barrier jump in noted in recent emerging viral and bacterial infections. Thus the endosymbiotic archaeal growth produces neanderthalised version of homo sapiens which are retroviral resistant and resistant to other viral and bacterial infection consequent to immune activation and digoxin induced RNA editing. The endosymbiotic archaeal overgrowth mediated neanderthalised version of homo sapiens generates new mutated RNA and DNA viruses as well as retroviruses at the same time being resistant to them as in the case of the species bat. The homo sapiens do not have the Neanderthal mechanisms of immune activation as their archaeal load is meagre. They serve as fodder for infection from Neanderthal generated viruses and bacteria and suffer eventual extinction.

Global Warming and Symbiotic Evolution

Thus global warming leads to symbiotic evolution of the species. The extraterrestrial intergalactic quantal computing cloud of archaea forms an intelligent anthropomorphic observer. The quantal computing cloud of archaea seeds the archaea into the earth through meteoric and asteroidal impacts. The archaeal colonies eventually evolve into multicellular organism and further into homo neanderthalis. The homo neanderthalis can be conceived as a

multicellular archaeal colony. The homo neanderthalis thus arises in earth in the Eurasian land mass out of the seeded archaeal colonies from the extraterrestrial intergalactic archaeal computing cloud. The homo neanderthalis is energy depleted. The homo neanderthalis secretes the archaeal steroidal trephone digoxin which modulates the neutral amino acid transporter increasing tryptophan transport over tyrosine. The homo neanderthalis is tyrosine depleted and deficient in melanin synthesis. There is no melanin induced ATP synthesis from electromagnetic waves and radiation transduction. The homo neanderthalis was energy depleted and therefore did not have the luxury for the development of a modern human cerebral cortex. The homo neanderthalis is also retroviral resistant. The homo neanderthalis were deficient in endogenous retroviral sequences contributing to a rigid and adynamic homo neanderthalic genome. This led to a reduction in synaptic connectivity and poor development of the homo neanderthalic cerebral cortex. The homo sapiens evolved out of terrestrial sources in Africa out of self replicating porphyrin complexes. The self replicating porphyrin complexes form a scaffold for supramolecular complexes of isoprenoid organism, RNA viroids, DNA viroids and prions to self organize. The isoprenoid organism formed the cell container which symbiosed the RNA viroids, the DNA viroids and prions to form the primitive eukaryotic and prokaryotic cell. The eukaryotic organism developed into multicellular colonies and eventually evolved into homo sapiens in Africa. Thus the homo sapiens is a multicellular eukaryotic colony which evolved over a period of time. In case of oncogenesis the homo sapiens reverts to the primitive eukaryotic or prokaryotic multicellular colony state. The homo sapiens in Africa thus evolved out of terrestrial abiogenetic sources. The homo sapiens owing to the harsh tropical environmental of Africa had increased melanin pigmentation in the skin for protection from UV rays as an evolutionary mechanism and were black. The homo sapien brain evolved out of the energy excess state produced by melanin.

Melanin can transduce electromagnetic waves and radiation and produce ATP synthesis. The excess energy in homo sapiens led to the rapid evolution of the human cerebral cortex. The homo sapiens are also retroviral sensitive. The retroviral infection led to integration of retroviral genes into the homo sapien genome producing endogenous retroviral sequences functioning as jumping genes. The HERV gene contributes to dynamicity and flexibility of the homo sapien genome contributing to increased synaptic connectivity and formation of the human cerebral cortex. A tyrosinase mutation led to the evolution of homo sapien albino mutants. The homo sapien albino mutants being white were unable to withstand the hot climate of the African tropics and migrated to the cold European land mass. This created the homo sapien civilization in Europe. There was interbreeding between the homo sapien albino mutants and homo neanderthalis in southern Europe producing hybrids. The homo neanderthalis were matriarchal while homo sapiens albino mutants were patriarchal. The homo neanderthalis succumbed to civilizational diseases like metabolic syndrome X, tumours, autoimmune disease and neurodegeneration and became extinct leaving fossilized matrilineal societies like the Dravidians, Celts, Basques and Jews behind. The homo sapien albino mutants in the setting of global warming developed extremophilic endosymbiotic archaeal growth and gets converted to a homo neoneanderthalic species by the phenomena of symbiotic evolution. The homo sapiens species in Africa becomes liable to eventual extinction owing to infection by catastrophic epidemics of RNA viruses arising from homo neanderthalis and homo neoneanderthalis reservoirs. Endosymbiotic archaeal growth will lead to a species change and generation of two new species-homo sapien extinctus and homo neoneanderthalis. Death and aging indicates human endogenous archaeal overgrowth and takeover. This will lead to extinction of the human race as such and persistence as well as survival of the archaeaon colony of melanosomes, magnetosomes and porphyrions functioning as a quantal

computing colony and intelligence. This will lead to the takeover of the world and the universe by the terrestrial and extraterrestrial archaeaon quantal computing clouds. The symbiotic evolution will eventually lead to extinction of all human species into eternal archaeal colonies which can have a wave-particle existence.

The Human Species-Terrestrial and Extraterrestrial Origin

The homo sapiens evolved in earth from porphyrinoids generated abiogenetically. The porphyrinoid forms a template for the formation of RNA viroids, DNA viroids, isoprenoid organisms and prions which symbiosed to form the eukaryotic and prokaryotic cells. The eukaryotic multicellular colony evolved into homo sapiens. The prokaryotes can also form multicellular functional colonies called biofilms. The homo sapiens which evolved in the African savannah became pigmented owing to melanisation of the skin in response to the solar UV rays. The homo sapiens have skin melanin but owing to lack of endosymbiotic archaea are deficient in tissue melanin. The homo sapiens in view of the absence of endosymbiotic archaea and tissue melanin are susceptible to endogenous retroviral replication and a dynamic genome leading on to increased synaptic connectivity and evolution of the prefrontal cortex. The homo neanderthalis evolved in the Eurasian steppes out of extraterrestrial archaeal colonies hitting the earth by asteroidal impacts. The archaeal colonies evolved into multicellular structures and eventually homo neanderthalis. The endosymbiotic archaea have the shikimic acid pathway and melanin synthesis. The homo neanderthalis are rich in tissue melanin but having evolved in the cold Eurasian steppes are deficient in cutaneous melanin. The increase in tissue melanin inhibits endogenous retroviral replication. This decreases the density of endogenous retroviral jumping genes in the homo neanderthalis genome making it rigid and inflexible. This rigid inflexible genome leads to the reduction in

synaptic connectivity and poor development of the cerebral cortex in the homo neanderthalis. The homo neanderthalis have a dominant cerebellar cortex and are impulsive in nature. The increased tissue melanin in homo neanderthalis is capable of energy transduction giving them a survival advantage in the extremes of the Eurasian north. The melanin is capable of sensing low EMF fields contributing to extrasensory perceptive capacity of the homo neanderthalis. The homo sapiens developed tyrosinase deficient albino mutants which could not survive in the tropical Africa and migrated to the European continent. The albino mutants lack melanin and are susceptible to endosymbiotic archaeal symbiosis leading to the genesis of homo neoneanderthalis from homo sapiens. Thus the human species can have a terrestrial origin as in the case of homo sapiens in Africa and also an extraterrestrial origin from intergalactic archaea as in the case of homo neanderthalis. There is also an intermediate species evolved in out of homo sapien albino mutants with endosymbiotic archaeal symbiosis called homo neoneanderthalis.

Global Warming, Endosymbiotic Archaea, Species Change and Catastrophic Extinction

The actinide based nanoarchaea can regulate the earth's carbon cycle by methanogenesis, nitrogen cycle by ammonia oxidation and rain formation by contributing the seeding nucleus. The earth's temperature and global warming and cooling are regulated by nanoarchaeal synthesized PAH from cholesterol and methanogenesis. The archaeal synthesis of PAH and methane may be the principal contribution to global warming. Global warming and pollution are pivotal inducers of evolutionary innovation.

Catastrophic evolutionary cycles may be related to extensive nanoarchaeal growth in the ocean beds. The increased nanoarchaeal growth in ocean beds and soil leads to increased methane production and movement of the earth's crust

producing tsunamis and massive earthquake leading to catastrophic mass extinction. The eternal nanoarchaea survive and start the cycle of evolution once more. The actinide based nanoarchaea regulates the human system and biological universe.

The archaea can induce stem cell conversion and neanderthalisation of the human species. The archaea catabolises cholesterol generating digoxin which can modulate RNA editing and magnesium deficiency resulting in reverse transcriptase inhibition. The archaeal cholesterol catabolism can deplete the membrane rafts of the CD_4 cell of cholesterol impeding the entry of the retrovirus into the cell. The archaea can produce permanent immune activation producing resistance to viral and bacterial infection. The archaeal cholesterol catabolism depletes tissue cholesterol producing vitamin D deficiency and immune activation. Thus archaeal overgrowth results in retroviral resistance and generation of the Neanderthal phenotype. The endosymbiotic archaea can secrete virus like RNA and DNA particles. The endosymbiotic archaea can induce uncoupling proteins inhibiting mitochondrial oxidative phosphorylation and generating ROS. The endosymbiotic archaeal magnetite can generate low level of EMF. The low level of EMF and ROS are genotoxic and produce breakages in hotspots of chromosome. It can also trigger rearrangements in hotspots of chromosome inhabited by retroviral and non-retroviral elements producing their expression. The archaeal secreted DNA and RNA viroids can recombine with the expressed retroviral, non-retroviral elements and other genomic segments of the human chromosome generating new RNA and DNA viruses. Thus the neanderthalised humans can serve as an origin for new RNA and DNA viruses as well as mutated retroviruses. The endosymbiotic archaea converts the Neanderthal cells to stem cells. The stem cells are resistant to immune attack. The stem cells can serve as a reservoir for this new RNA and DNA viruses. The stem cells and archaeal cells can also serve as a reservoir for

viruses and bacteria belonging to other plants and animals. This helps to generate the species barrier jump in noted in recent emerging viral and bacterial infections. Thus the endosymbiotic archaeal growth produces neanderthalised version of homo sapiens which are retroviral resistant and resistant to other viral and bacterial infection consequent to immune activation and digoxin induced RNA editing. The endosymbiotic archaeal overgrowth mediated neanderthalised version of homo sapiens generates new mutated RNA and DNA viruses as well as retroviruses at the same time being resistant to them as in the case of the species bat. The homo sapiens do not have the Neanderthal mechanisms of immune activation as their archaeal load is meagre. They serve as fodder for infection from Neanderthal generated viruses and bacteria and suffer eventual extinction.

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