HUMAN EMBEDDED IN THE NATURE

Harmony of Heaven and Mankind

THE SCRIPTURE

EVOLUTION

Author Zheng Qi

New View of Origin of Species

New View of Life Evolution

New View of Inheritance

New Genetics

New View of Clone New Anthropology

New Ways of Natural Science Research

New

The Brief Introduction of The Lecturer

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In 1997, came back to China and acted as the Sales Director of Beijing Aosuo Computer Company; engaged in the sales working of embedded softwares;

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Preface New origin of species

Introduction

In order to enter detailed level from Picture theory level, exploration has to be done (that is "Harmony of Heaven and Mankind—The Scripture of Nature" finished), also the nature and essence of life, especially the laws of evolution of life and human needed found out, before studying human health preservation, longevity and curing diseases.

People generally know Darwin's evolutionism and "survival of the fittest, natural selection". However, they just know the words (actually just some part) but not the meaning behind the words. At the time Darwin lived, scientific technology, culture, economy and human society developed rapidly, and some knowledgable literates already improved or even questioned Darwin's evolutionism. It is a high point that has to be overcome if viewing evolutionism from the angle of oriental philosophy, or the grand palace of oriental philosophy will not be complete. The results of study and research on existing evolutionary concept of both oriental and western will be tiles for this palace and the Chinese traditional concept of "harmony of heaven and mankind" is the foundation stone.

Chapter One in this lecture (book) questions Darwin's evolutionism and states that the life evolution shall be viewed from microscopic perspective (invisible to eyes) to macroscopic perspective (celestial body and universe) or even from the long history river with new research methods (refer to "Harmony of Heaven and Mankind —The scripture of Nature" for details).

Chapter Two enters the details of human body structure and dynamic feedback model with the basis of static and dynamic models of harmony of heaven and mankind on "Harmony of Heaven and Mankind—Human Embedded in the Nature" to indicate the motivity and prototype.

Chapter Three for the first time brings forward the reason that evolution of human and other animals went into different ways is that the human branch chose a different competition direction to develop intelligence. Meanwhile, it advances "innate and acquired" models which may guide other industries and subvert current educational and medical systems, as well as a novel opinion upon virus from the angle of evolution.

Chapter Four provides a controversial but thinking-worthy thinking beyond the obvious for analyzing the current complex social phenomenon and development with considering that the spreading of modern human genes is a combination of physiology, religion, and force. A brief introduction is also given to the competition strategy during evolution process which is an indispensable part of the process and also our current awkward situation.

With the above discussion from the most original point of life, chapter Five introduces model of life evolution which simulates and emulates (still lacking of archeological proof) the rudiment of evolution, and combines the life evolution process with Chinese traditional methodology to describe the appearance of a new life from Poleless, Tai Chi, Two Oppositions, Four Trigrams. There are still riddles in this process and requires questioning like "Asking Heaven" by Qu Yuan. This chapter also gives a further explanation about death and life from the angle of evolution after "Harmony of Heaven and Mankind—Human Embedded in the Nature".

Chapter Six states that all life need the energy and all the life growing depend on the sun. Then the further discussions about the essence of feedback in details bring out the think-worthy concept. Our understanding of sex is the basis to understand life. How does sex come into being and what does it mean? These questions have much influence upon different aspects. Analysis from evolutionary point is also made on the controversial question about the effects of innate and acquired education.

Chapter Five and Six are the core parts of "New origin of species".

Chapter Seven explores the essence of human evolution with concept of "surpass oneself", which is the internal impetus of human evolution. Following the rules of "harmony of heaven and mankind" is the only right way. There are different critical points like nuclear explosion during the evolution process and they influence individuals, society, and human. All genetic information shall be a whole but not individually alone and Chinese ancient theory is the headspring to find this order.

Chapter Eight describes a basic understanding on genetic codes. Human evolution is a process difficult to be predicted like weather forecast. We will have to "Asking Heaven" again to question how the expression form of genetic genes become its present form. It is found that many randomicities exist when ovum unites with spermatozoon. Is life just so random? At last, it explores the possibilities of corresponding sixty-four genetic codes with sixty-four diagrams of The Book of Changes.

Chapter Nine gives the opinion on clone technology and states that clone technology is in a comparatively low level and still far away from the well developed condition that human think. Its basic theory is even still unknown to us.

Chapter Ten brings forward the scripture of evolution based on former analysis.

Chapter Eleven describes human activities and the future puzzle dom by a report of outer space intelligence, as well as a brief introduction to ideality and crisis of evolution, which have already had many negative reports. The key lies in actual actions.

There are still many questions in this lecture (book), and maybe some knowledgable literates would go all over the world to collect proofs for proving like Darwin and also write a book named "The Origin of New Species" after reading this lecture (book).

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Chapter One Evolution of Life

Heretofore though lunar-landing and remote outer space-accessing are implemented, there are still diverse opinions concerning the origin of life & mankind and how we turned into present shape.

(I) Darwin's Evolutionism and its perplexities

There are various parlances in religions and legends throughout the world concerning the origin of life & mankind, such as Genesis, the Creation of World by Pan Gu and Nuwa the Goddess creating mankind.

Before Evolutionism was brought by Darwin, Linnean had already divided plants into species, genus, family, order, class, phylum, and kindom, which are still used up to now.

In the middle of 19th century Darwin's "Origin of Species" established Evolutionism, together with classical Newtonian Mechanics, has been generally acknowledged as one of the three great discoveries of natural science in 19th century. Malthus' "Population Theory" significantly enlightened Darwin and expedited formation of the natural selection theory of "struggle for existence and survival of the fittest". "Origin of Species" dauntlessly stated the thought of evolution and interpreted its principle of genesis & development. Utilizing plentiful proved cases he himself collected and austere logic, Darwin attempted to attest biological evolution, species variability and brought forward credible evolutionary mechanism and for the first time concluded species variability—natural selection—speciation—biotic evolution, the logical sequence which resulting in the successful demonstration of unity of opposites between biology and natural environment, however the adoption of black-box approach led to Evolutionism' firing belated shots and no discussion concerning the origin of human intelligence & life.

Are we merely the animals?

In the book "Origin of Mankind", Darwin reminds the readers that human construction models other mammals' general formula, and after reviewing of the evolutional evidences of "Origin of Species", especially the similarities between hypothetical human and other vertebrates' embryos, he concludes that human construction distinctly shows the traces inherited from the lower animals.

He makes clear that his purpose is to demonstrate that there are no fundamental differences between mankind and other higher animal intelligence for their own similar sensation, affection, wrath and even more complicated emotions, such as jealousy, suspicion, competition, gratitude, generosity and so on, in addition they both possess the associational and intelligential abilities of simulation, attention, intention, selection, memory, imagination and ideation, though the degree distinction is exceedingly great. So he alleges that the difference, in spite of its exceeding degree, between mankind and higher animal intelligence isn't qualitative distinction but extent one.

After the repaid development of modern netic gene technology, more and more doubts for Darwin's Evolutionism have appeared. The most and biggest problem is the origin of life, the origin and impetus of human evolution. If not making clear about these problems, then we would be full of suspenses for the human future, and we also cannot have the sufficient basis for grasping the future trend of mankind.

(II) New Thinking Brought by the Development of Molecular Genetics

1. Selfish Gene—Quantum Mechanics

Altruism or selfishness herein mainly refers to the meaning of the objective behavior, but not the subjective meaning. Without gene technology during Darwinism age and similar to

Newtonian mechanics, the research scale is that of naked eyes, while genetic research scale is identical with quantum mechanics, and it is normal that these two research scales have external conflicts, which is the viewpoint brought forward by the book "Harmony between Heaven and Mankind—The Scripture of Nature". And similar to Relativity, studying evolution on the cosmic scale needs the unified field theory to summarize all the viewpoints ultimately.

One of the current theories declares that the ocean, nicknamed as "original nutritional decoction", is rich in nutrients around thirty to forty billion years ago. And in a circumstance of stability, precision and competition and so on one kind of molecule possessed self-replication capacity at a certain time and evolved on molecular level which resulted in the generation of gene and we are the vectors convenient for its survival. All biology including us is the survival machinery of the same replication gene called DNA the macromolecule. Four kinds of nucleotides namely A/T/C and G forming DNA are identical in all fauna and flora and the main difference lies in their diverse winding & interleaving sequences. The DNA molecule is engaged in two important missions, self-replication and supervising the manufacturing of protein, whereas still the relationship between whole and part remains to be solved, namely how gene is copied to a new life. Conventional viewpoint declares that acquired characteristics cannot be inherited, in other words, no matter how much intelligence and wisdom you acquire all your life, none of which will be transferred to your children via gene. This idea is dubious as the concrete knowledge may be hereditarily transferred but the thinking mode and emotion pattern can be, for mankind as a whole is evolving and we'll discuss in later text the evolution on genetic scale. Western philosophy and viewpoints lead to the disjunction between genetic and naked eyes scale and the regrettable imperfections in current theories. Another question puzzling us is the genetic competition of chromosome alleles, for which relates to tremendous information if the dominant and recessive genes are inherited simultaneously. If that's the real image of heredity, then genes surely mutates and keeps no its original form, for some branches will be passed down from the beginning of life.

How many generations will it be memorized? This may be up to memory ability of human genes like storage space of computer.

Then what conduces this kind of competitiveness? It seems Darwin's Evolution not suitable for this situation, similar to the condition that Newtonian mechanics cannot be used for quantum mechanics. All the links such as gene meiosis effect evolution process. Though it's impossible for exact identification of which chromosome comes from father and which is from mother, we can distinguish which part of its body looks like father and which part is like mother at the birth time or after.

2. Gene heredity puzzle dom

If taken as the smallest unit (surely not the chromosome), gene is approximately immortal, though some specific gene combinations will not exist forever. Whether localizing the hereditary factors on genetic level is meaningful or has any sense, this is different from Darwin's Evolution.

How will the gene pass down the reproductive and obituary information and follow what principles? For example the fact that present-day human prefer not to embroiled with more bearing and the life-span of human generally prolonged indicates the increase of reproductive age and elderly proportion, in other words, the competition becomes more fiercer and the trend of human intelligence storage is enhanced, which seems to fulfill the need for human intelligence growth and restrain the population.

Herein we will discuss in advance the issue scheduled to be dealt by the book "Harmony of Heaven and Mankind—The Scripture of Longevity", namely the lethal gene and aging gene inherit and how they affect us. For example all the people would not bear with death before 40 or 50 years old, and then the parents have to live longer to bring up their children; or we can deceive genes and mislead them in thinking they are still part of young individual or the elderly circs preventing its emergence, then the lethal gene and aging gene won't function anymore.

Actually, many of these issues which shall be discussed in "Harmony of Heaven and Mankind—The Scripture of Longevity" have to be referred in this lecture (book) for their tight relationship between these two parts!

An unclassified suppose claims there might be certain substance in organism which is the tag for youth, as compared with senile individual, much more substance is found in young individual. If the characteristics of youth may be imitated in senile individual, no matter the characteristics are how superficial, the senile individual will gain longer survival time, the better the imitation, the longer the survival time. At a certain stage Taoist practice austerities adopt the foregoing approach.

Many life bodies could transact vegetative propagation, but why mankind will make great efforts to mix many people's genes to procreate an infant? For better evolution is the only reasonable explanation. This sexual activity will realize the accumulation of genes in single organism and gene mutation & evolution based on foregoing accumulation, which results in the number of some genes increase while others decrease, or even become nil.

Chapter Two Structural Details of Gene Evolution

(I) Model for gene evolution: Harmony of Heaven and Mankind

Estimating gene's function and contribution to the holistic body with a microcosmic angle, we will find that organisms are the colonies of gene, cells, the factories & workshops convenient for gene activity. Gene can be divided into two parts: the animals and plants, between them there exists an obvious difference, namely the former own neurons via which the animal will transfer signals to impel muscular movement while the latter owns no neurons.

Nowadays many machines are extensions of human limbs and brain, which include the most primitive wheelbarrow and lever, as well as tools to ride instead of walk like modern automobile, steamship, train, airplanes. Manipulator replaces the manual labor, computer substitute brain's partial functions. Gene produces lots of lives to own various functions via its local combination, especially mankind.

Why various lives evolve generation by generation and year after year and will modify itself according to outside environmental changes? To which we find no answer in Darwinism, microcosmically or macroscopically. After the formation of static framework and dynamic framework related to "Harmony of Heaven and Mankind—Human Embedded in the Nature" have to establish a structure or model much more microcosmic until to the gene level. These structures are extended on basis of static framework and dynamic framework of "Harmony of Heaven and Mankind" and correlated with one another.

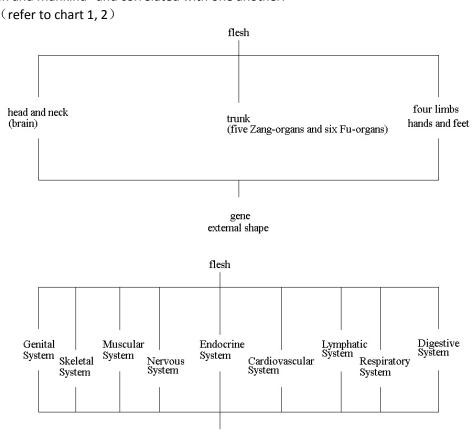


Chart 1 Static framework of detailed division of flesh

Systemic separation method of Western medicine

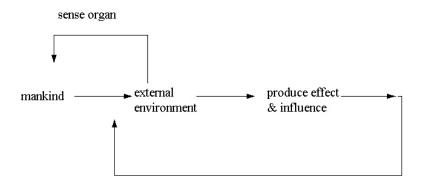


Chart 2 Feedback process between mankind and external environment

Cycle of this dynamic process becomes more and more rapid and results in mutation when some threshold value is reached. The supreme grade means a real-time feedback which enables self-modification of gene with the most rapid speed according to external conditions and heredity at proper moment (when procreating next generation).

Early stage biology developed on a basis from simple to complex and the comparatively fundamental & partial purpose determined the higher & larger aggregate purpose. With the gained ability of future-forecasting and activities-simulating, organism produces the genuine consciousness. The simulation leads to strategy which corrects gene and for the first time the higher & larger aggregate purpose affects the lower & partial one (though this affection has not been the decisive one).

The further development of evolution and the persistent course of foregoing affection lead to the appearance of early stage mankind. Presently this interaction still needs further development to fulfill an equilibrium state and therefore is the highest priority point in evolution process, about which we will minutely talk when dealing with new Evolutionism.

2. Primitive force for evolution

One important characteristic of organism is the learning activity which will exist for the whole life when discussing a survival individual, however, will it transmit the knowledge it mastered via gene and by what means will it fulfill this transmission? Darwinism merely answers the first question. When probing into the second question with a angle of state transition, we will find the ceaseless evolution of gene and transformation among a survival individual for its whole life (mankind at least transforms 40 to 50 times), and via reproduction this incessantly evolving and transforming gene will be passed down. This kind of transformation will result in enormous mutation some time, namely normal variation which is the real track for appearance of nowadays lives and mankind.

Some viewpoint argues that the aim of gene selfishness is to enlarge its quantity among the gene bank and its altruism is only for those genes who own genetic relationship with it (A Chinese traditional common saying, Respect other old men and love other children as mine could be regarded as an extensive racial love). This hypothesis indicates selfish gene cannot forecast future and won't care about the welfare of the whole species. This tendency of infinitely enlarging propagation in fact comprises two meanings: one is procreation and the other foster. When foster cost exceeds the procreation cost in no small degree, gene has to restrict procreation. That human family planning and many developed European countries with mortality more than birth rate are resulted from the foregoing fact.

Chapter Three Criteria of Evolution

(I) Life and death gladiatorial combats and civilized gladiatorial combats

Ancient Rome possessed an interpersonal barbaric game, namely the professional gladiators cultivated by gladiator-training school which carried through desperate & face-to-face combat at centre of Colosseum similar to nowadays stadium and the spectators comprised nobles and civilians (free men) who obtained stimulation and pleasure via gladiators' combat, and sometime they would cast a vote to determine the life and death of the abortive side.

Presently Spanish bullfight is still engaged in this cruel and sanguinary game; however, the participators are human and bull which resulting in its lower magnitude compared with the foregoing Ancient Rome game.

Modern sports featured with physical confrontation sometimes lead to the association of these games. Though there is lack of life and death and the rules restrict tussle, frequently arisen tussle between athletes still embodies the animal instinct of human.

Modern sports without physical tussle is much civilized, such as volleyball, billiards, table tennis and badminton, all of which can avoid tussle, furthermore the chess and cards, specially prepared for intellect competition, are the most typical embodiment of human civilization, which can be named as The gentlemen uses his tongue not his fists.

Merely considering the atrocity, not a game can be mentioned in the same breath with mutual carnage of mankind which at early stage of evolution is the necessary means for survival. Lacking of sharp claws and edgy teeth resulted in that mankind was located at the lower end of biological chain, but they initially utilized their possession of consciousness and energetic brain which helped them to cast off the much stronger animal (similar to nowadays tiger and lions etc, and these much larger & ferocious carnivore animals of immemorial period) invasion and partition, and then they made use of their wisdom and collective strength, step by step moved up to the upper end of food chain, furthermore, accompanied with the development of agricultural civilization, they no longer passively depended on the natural supply.

The difference between the choice of mankind and anthropoid apes (such as chimpanzee) lies in their preference of physical strength or mental strength. Chimpanzee chose to develop a much stronger trunk and mankind preferred to acquire a much cleverer brain, though the rate of variation of genetic genes between them is less than 2%.

(II) The innate period and acquired period of evolution

There is a kind of mitochondria which is responsible for supplying most of the energy we need. At the earliest period of evolution human cells via prokaryote devoured the ancestor of mitochondria and formed the homestead for lots of symbiotic microorganisms. Mankind is similar to other animals who make use of sense organs (five sense organs and skin) to interact with nature before they possess consciousness and utilize heart as the dominant mechanism to control body's quickness, slowness, advancement and countermarch, so Chinese at the early stage always took heart as the dominant organ of human activity, thus existing the vocabulary such as at pains, schema, true heart and broken heart and so on. Hitherto human consciousness generally cannot control heart and other organs yet. We can but control the limbs, and according to the demand of limbs, heart & lung direct the blood to supply corresponding oxygen and other organs also shoulder respective mission synchronously. We will find that during this course there exists some unreasonable points in line, in other words, human body isn't centralized distribution controlling type yet but similar to inchoate non-centralized distribution controlling type according to modern theory. Sympathetic nerve and heart are self-controlled and not controlled by brain, which is the result of evolutional process of mankind. Thus we draw a conclusion herein that innate Eight Diagrams correspond to cardiac system (including right brain) and acquired Eight Diagrams, cerebral system (left brain). the Book of Changes is used to discuss mankind evolution as the superposition of innate and acquired system. Hereunder we divide the human system into two main systems.

(refer to Chart 3)

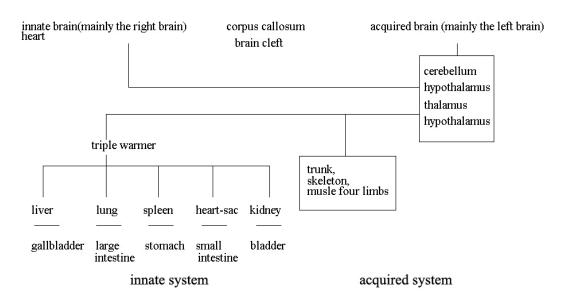


Chart 3 Mankind is the production of acquired system resulted from the evolution of innate system

So the object of incipient Chinese medicine is innate system and western medicine at most deals with acquired system. This topic will be discussed in details in "Harmony of Heaven and Mankind—The Scripture of Medical Ways".

Appearance of consciousness indicates the beginning of brain evolution and the innate system has already been prepared basically at an earlier stage, namely around the pre and post of erect walking and before the anthropoid ape stage.

Nowadays the survival of mankind rely on left brain which sometimes will conflict with right brain, resulting in schizophrenia and various of mental diorders.

(III) New concept about virus and virus evolution

Lives including mankind comprise bulky symbiotic genes and so does the virus. The sole difference between lives and viruses lie in whether they have the specific shapes and will be secluded from exteranl circumstances and indentified by human naked eyes. Organisms such as animals and plants could be indentified by us whereas the viruses are free wandering genes and transmitting from one parasitic body to another to maintain their survival. Mankind has a similar approach to achieve gene metastasis, namely the combination of sperm and voum, and plants such as dandelion seed take means of excursion and the help of another part (the third part) such as honeybee's foraging to achieve gene metastasis.

Provided with a possible channel the virus will try to expand the range of metastasis by all possible means and sometimes via the ceasseless mutation to achieve this aim. Reasons for this phenomenon lie in the fact that virus hope to enlarge the quantity of its gene bank and when taking mankind as its host, it will contest with mankind to seize survival resources regardless of the fact that mankind gene has, consuming lots of time, achieved excellent evolution and formed an integral system. These contests sometimes will threaten human body and even take toll of mankind lives, accompanied with the hosts' extinction the virus will die out accordingly.

Because of the propagation, curiosity and greed of mankind, some transmitting channels

originally didn't exist have been open, and the following are several concrete examples to demonstrate that: the Aids virus and SARS virus are transmitted from chimp and pangolin respectively when eaten by human, and avian influenza virus is transmitted via the cosmical culture and eating of poultry and the flowing fowls.

Chapter Four Genetic Transmission

(I) Transmission and immortality of physiologican gene and cultural gene

It is said that presently around tens of millions persons own Genghis Khan's gene after his occupancy of Eurasia via cavalvy. The basis of genetic evolution could be copied and so is human culture; gene could evlove under certain circumstance and so does human culture; gene try to enlarge its gene bank and human culture endeavors to enhance its influence & identification. we can say that genetic extension is the lower physiological action and cultural extension is the higher recognizant action of organism and they are associate with one another, namely the genetic extension will speed up cultural extension and vice verse. However, sometimes they will restrict each other, for example cultural self-governed tendency will limit the genetic extension.

In addition there are distinctions between genetic and cultural extension. The individual representing genes will surely die out some day and after lots of generations we will face the difficulty in confirmation of individual immortal characteristics or some gene belong to a specific individual. Counter culture could be traced back for tens of hundred of years and be recorded fadelessly as an individual.

Religion is the most powerful transnational organization for transmitting culture, which surpasses all the distinctions including race, country, region, gender and age and so on. Inconsistency of cultures representing different religions will result in doctrinal conflict or war may be launched. Inconsistency between religions induced many historically large-scale wars such as the Crusade, the first and second World War; or at least the inconsistency between religions is the blasting fuse for many wars, for example, heretofore the Arab-Israel War and the terrorism worldwide and the dispute among Christianity, Judaism and Islamism of recognizing Jerusalem as their respective Holy Land.

And sometimes the genetic extension will speed up cultural extension and vice verse. The following facts demonstrate that each religion was set up by a certain race or nationality, Taoism was set up by Han nationality and Islamism by the Arabs, Christianity by the Whites, Buddhism by the Yellows located at India the subcontinent, and then transmitted throughout the residence areas of Yellows. We can take Zionists' occupation of Jerusalem and restoration of state as a typical example to demonstrate the genetic enlargement process precursed by the extension of religions which were set up by a certain race or nationality. Maybe we could conjecture that in the first instance peoples from three races worshipped different religions and aimed to achieve genetic extension by means of seizing as more as possible resources. They have been carried through sanguinary wars for many years under the name of religion.

Also the Opium War has possible relationship with religion, nothing but most people neglect the religionary affection under the name of opium, for the same time of the destruction of opium at Human, Lin Zexun expelled the Christian missionaries.

Christian history in China

From Zhenguan 9th-year of Emperor Taizong during the Tang Dynasty (AD 635), Christianism was introduced into China, but at that time the Christianism was the Nestorians branch(called by Chinese as Jing-jiao and presently named the Maronites of Christian) which was regarded as heresy once and afterwards was forbidden to transmit in Huichang 5th-year (AD845). During the Yuan Dynasty Christianism (Jing-jiao and Roman Catholicism namely) was introduced into China once again and called as Yelikewen (Mongolian: person with felicity fate) and accompanied with the perdition of Yuan Dynasty, Christian stopped its transmission until Wanli 10th-year (AD 1582) of Ming Dynasty Li Ma-dou, who was sent by Society of Jesus of Christian, was allowed to reside at Zhaoqing, Guangdong province and engage in missionary works. He for a time had successfully gained the foothold for Christianism in China. From Yongzheng 5th-year of Qing Dynasty

Orthodox Eastern Church began to transmit in China and in 1807 Protestantism sent Robert Morrison to come to China to develop missionary works thus resulting in the transmission of Protestantism. After the Opium War and based on the coastal trading ports, Christianism developed rapidly and in 1843 aided by the doctrines of Christianism Hong Xiuquan, who claimed that he's the younger brother of Jesus, established God-worship and afterwards found the Taiping Heavenly Kingdom from 1851 to 1864.

Taoism and Confucian (to a certain extent could be named as Confucianism) doctrines had made indelible contribution to genetic extension, furthermore the inclusiveness of them leads to their peaceful coexistence with other religions and the localization of Buddhism, and even fulfilled the assimilation of alien races' invaders.

Originally religionary doctrines basically persuade people to pursue kindness, however, once conflict existing among them they will forfeit their nature and show the selfish characteristics, which is a kind of genetic selfishness induced by cultural selfishness and taken as a really sorrow.

The popular limited company nowadays originates from Christian Church, the usury is from the Crusade and Saint Knights and Cong-Lin system comes from Buddhism. In principle the clergy, iman, monk and taoist won't be engaged in production and their survival & development are financially aided by social enshrinement and endowment, thus here comes the question of utilizing the spare wealth, which is a remarkable feature of religion and results in various economic phenomena hereinbefore mentioned.

According to their attributes respectively, we can make a classification for the Five-Main religions as following: Taoism is water, Confucianism earth, Buddhism wood, Christian metal and Islamism fire.

(II) Cultural propagation of evolution

Forepart reproduce is merely the simple & unvarished copy and this kind of genetic extension cannot conform to evolutional environment and the competitive process. There is no means to achieve mutation and only the self-variation cannot fulfill the transmission of mutation throughout the whole species (needs hybridization which leads to the genders), furthermore, were this kind of mutation seasoned with competition, then it will have more opportunities to survive and multiply comparing with other origins (this competition needs contraposition).

Transmission will be restricted by the excessive quantity of some species. There are two ways to solve this problem, one is to enhance the optimal copulation (leading to the appearance of evil Adolf Hitler-type persons); and the other is to enhance genetic extension via other means. Nowadays maybe mankind is the only species which will control heredity by means of acquired consciousness, the concrete steps are as following: via the affection to acquired consciousness we will gain the changes relate to congenital system and the latter furthermore leads to genes' mutation. This is achieved by the transmission of culture. A simple example can be used to demonstrate foregoing process: physiognomically the husband and wife in harness have physiognomically identical tendency. Of course the fact is not as simple as this (refer to "Harmony of Heaven and Mankind—The Scripture of Longevity").

(III) Competitive strategy of evolution

Prisoner Antinomy is a primordial and basal competitive strategy with the core of selection between cooperation and betray, though generally it will lead to the worst ending (the nil outcome), afterwards there comes the question of adopting what kind of competitive strategy in following round. There are several choices to answer the foregoing question, namely virtuous forgiveness, tit for tat, two or many enmities to pay back the goodness. So aiming to avoid of betrayal and tit for tat , we Chinese prefer to be friends before beginning of business. Of course by means of similar gene we also could achieve this ending, so family enterprise exists throughout the world.

These game rules won't come to a end after one or two round but will continue repeatedly. So from the long run maybe the choice of forgiveness is more favorable, whereas short dated activities are preferred betrayal and tit for tat, which is the reason for many enterprises, short of long-term aim, often won't abide by their promises.

Chapter Five New origin of species—Harmony of Heaven and Mankind—The Scripture of

Evolution

(I) Evolutional hierarchies and their relationship

Genetic hierarchies, individual hierarchies, colony hierarchies and their relationship have been mentioned time after time in foregoing discussion.

Surveying lives from a genetic angle results from the fact that lives come from the microcosmic genes, and when they develop to a scale examined by naked eyes, lives not only are the vectors of genes but relate to its existent circumstances and modes of this scale, especially after the appearance of human consciousness, the situation changes enormously for mankind will dominate or affect gene and furthermore nowadays shift its normal process. When studying various hierarchies questions we will surely wonder the developing course from microcosmic lives to lives observed by naked eyes and why they chose to develop in this way and how they have developed to today's shape.

From all the known facts we could conjecture that some prokaryotic cells located in primary nutrition decoction the chaotic state gulped other prokaryotic, but the latter didn't die out but survived in the former's bosom with some coexistent reasons and reciprocal terms.

After possession of reproductive ability, these coexistent organisms, aided by their mutual cooperation, acquired a faster developing speed compared with those organisms without cooperation, and this kind of cooperation became the theme for development. Since then various cooperate modes began to compete with each other, and aimed to gain the more favorable developing speed, most of the organism, adopting various cooperate modes, tried all kinds of attempts and became bigger and bigger until a certain time when they could be observed by naked eyes.

Though merely increasing the volume isn't always the excellent competitive strategy and when various organisms have no idea about how big they will become the moment they searching for respectively cooperate mates, however, it is sure that the increasing of cooperate mates & the augmentation of volume will result in bigger survival space & stronger physical ability, furthermore, accompanied with the augmentation of volume and the need for competition, the means used to sense ambience were developed, such as the appearance of olfactory, visual, sensory and hearing organs (for animals only). Various gene combinations result in innumerable organisms. Similar to that God created all the lives which has been talked about in Genesis of The Bible, and Nuwa the Goddess created mankind by means of punching mud.

According to the archaeological discoveries that there was a time, in Cambrian Period around 550 million year from now, came forth all kinds of organisms. They competed with each other and as time went by some stable species survived while others, unsuccessful during the attempt, died out, which has already been confirmed by archaeological discoveries.

In other words, the great extinction came after the great development, namely in Permian Period around 245 million year from now, 96% of those species have died out without the violent changes of climate.

(II) Process of origin of species

For the aim of coexistence and co-development, lots of genes combined with one another, and after hundreds of billion of years evolution, they formed animals and plants. For the need of enlarging gene quantity and aided by the replication function, they have to embark propagation, asexually or sexually. The nonplus lies in their not embarking replication directly from an existing individual but beginning from a seemingly bran-new end, for example, plants from the seeds,

animals from oviparity or viviparity and almost all the animals & plants could be ranged into these two classifications. The organisms, animals and plants all included, using other means to replicate are already wither away, so maybe we will draw a fixed conclusion that no higher organism will carry through vegetative (unisexual) propagation and vegetative propagation type won't lead to advanced mode (and this is the reason for failure of clone). Still we could observe the counter side of vegetative propagation and find that sexual propagation will result in advanced organisms, and for purpose of fulfilling sexual propagation, plants adopt the inseminating means and animals the oviparity or viviparity means.

We have to recheck this evolution process from stem to stern for another time because the organisms embarked durative evolution and replication rather than a steady state; The biology can live for several hundred of years without dying (also existing some plants and animals which can live several hundred even thousand of years). Accompanied with each iteration, the organism will rebirth and gene will continue and life will evolve. During the evolutionary process the inchoate existing modes were recorded and replicated generation by generation and became the historical data of evolution. We have to keep in mind that the evolutionary process is a most important clue, otherwise surely we'll relapse into a Monday morning quarterback state relates to eggs first or chicken first and find no means to shake it off.

Surely the inchoate replication is vegetative propagation and also needs enzyme and protein (the limitless state), and accompanied with the congregation of organisms in a specific individual and unavoidable competition there appears three pressures, that is, firstly, more and more difficulties in undertaking vegetative propagation and ensuring correctness & accuracy of genetic transmission with the increasing complexities; secondly, how to exceed other species during the competition; thirdly, conforming to the environmental changes.

For solving above three pressures, the solution is as follows

- 1. A blue print is needed to record all the ancient genes in order to ensure the correctness and accuracy of genetic transmission, and the recording content including: which genes? How these genes form the individual and what role does each part play?
- 2. Gene needs to develop fresh characteristics, especially to fulfill mutations convenient for seizing the upper end of food train in order to compete with other species and conform to the changes of environment (the environment is changing and remotion is needed to enlarge genetic quantity and occupied land).

Here is the state of Tai Chi.

In order to fulfill foregoing aims and for the first question, a recording carrier is needed to memorize all the information and hereto the carrier has no difference between the sexes and for the second question, for the sake of normal mutation, the recording carrier has to be classified (at least two classifications and why not more ones?) into at least two groups. They will compete for the employment and the competitive principle is which group is stronger, more charming and possesses the better survivability and environmental adaptability.

Here is the state of Two Oppositions.

Zygote's beginning of mitosis indicates the gestation of a new life and there are four kinds of combinations in a cell.

Here is the state of Four Trigrams.

And afterwards are , four is divided into eight; eight is divided into sixteen (the Mulberry Period) and so on.

Hereto the life and death indicate the interaction between innate system and acquired system.

(III) Asking Heaven

Initially a specific organism had various kinds of recording carriers which resulted in the illegibility between the sexes of nowadays organism. Oviparity (eggs laying), oviposition and viviparity are all the recording modes for mammalian animals, but why they choose two recording modes as the stable ones and why are not three modes or four modes? "The Book of Changes" gives the answer of the foregoing question.

Still another detail regarding to the means by which all the parts of gene transmit its information to the recording carrier?

We just know that one sperm and one ovum of human will combine to form a zygote, and after ten months' enceinte period, it will grow into an infant, but we are still uncertain of the transmission and amplification of the information that the infant is like its father or mother.

Similar to Darwin, we have to collect evidences to prove the new evolutional New Origin of Species.

Mankind did not come from monkeys. They are in fact the offspring of evolution and the different branches of life and go through many configurations. The infant reproduces this process in its maternal body.

Monitoring and observation could be started from infancy, men will produce sperm at sixteen-years old and women will possess reproductive ability at fourteen-years old, and we have to make the accurate steps of this process and why everybody has to lose teeth for once.

And when is the best time for reproduction.

Do other animals have two brains similar to mankind?

In fact all the structural information were stored in ovum (eggs) and the sperm is for evolution. The ova were formed when mankind is still in the maternal body before birth, so we say that the male are the fighter endeavor to evolves (rooster), the state of Tai Chi leads to the state of Two Oppositions , which means female and male, and the combination of male and female will induce everything on earth., which provide us with the answer for solving foregoing two questions.

Similar to illuminating the world structure from the atomic microcosmic angle, illuminating the evolution of life from a genetic gene angle has significant meanings. When establishing my own view of life and death, I made use of the same viewpoint which enhances me to overcome the fear during on an airplane and face death unflinchingly.

Longevity Buddhist of Tibetan Buddhism and recurrence via three epoches and six channels both imply this viewpoint.

And the big benefit of sex lies in its capability of transmitting gene.

(IV) Life and death of evolution

Evolution means death and death is the necessary condition and precondition and its meaning rests with the life. The production of fresh idea, vigor and competitiveness before death will replace death and the dead past and father a span-new future, furthermore the span-new generation will some day be dead and during the course from life to death, the third new generation will present itself. If the older generation won't wither away forever it will surely block the new generation, which possesses a stronger competitiveness, full of vital activities and reciprocating forever, that is the true picture of evolution.

When writing aforementioned sentences, my brain was filled with the production and combination of sperm and ovum, which lead to new life; new life will grow up; age and the older will die out.

Hereto is the core of life rules and evolutional principles.

The mystery of The Book of Changes rests with a pair of Diagrams and the sequence of Diagrams is minor.

Chapter six New origin of species—Harmony of Heaven and Mankind—The Scripture of

Evolution (II)

(I) Source of food

The biosphere and biological chain on earth are really elusory phenomena which form a self-stabilization system. We will study not only the origin but also the extinction of species.

Tracing back to the lowest end of biological chain, an idiom will help us with our study, namely the big fish swallowing up the small fish, and small fish swallowing up the scrimps and scrimps swallowing up the mud, however, the microorganism lies in the mud is not always at the lowest end and at different levels there maybe exists some partial end to end circles.

Searching for the lowest end of food chain is to find out what provides the organisms with food. In fact there is only one possibel answer, namely the food comes from energy, and most of this energy is from the Sun (the proportion of that no less than 98%) and others comprise two parts: the energy stored in earth at the moment it is formed and the energy comes from cosmic ray which arrives at earth all the time.

Growth of everything depends on the Sun. Plant photosynthesis is the main source and the water & nutrient absorbing from earth are another part for their growth, while animals have to take food solely by means of their mouths and carnivore located at the upper end of biological chain. One part of the nutrition of earth is also gifted by the Sun and the other part lies in various of substances and elements (there are 126 kinds of elements on earth). Human body contains 81 kinds of elements.

(II) Self feedback learning ability is human most basic characteristic

Creature body is composed of all kinds of interacted cells and they become bigger and bigger because of competition. The advantages brought big body will further push body to become even bigger. Thus there are giant whales in oceans which will not be hunted by any other animals just because of their huge bodies without struggling by sharp paws or teeth. Meanwhile, sharks have moderate body size but knife-edged teeth to gain their survival space. On the land, the prehistoric dinosaurs were the most extreme examples. They had not only giant bodies, but also acuminate armatures and teeth, which made them the absolute overlords on land. Today's elephants are vegetarians, but they have huge bodies and long ivories which horrify feral wild animals like jackals, wolves, tigers and pumas away from them.

It is an obvious problem to take body size as means for living competition, or dinosaurs will not extinct only with some smaller-sized crocodiles left, which might be their offspring like crocodiles. Though there are different opinions about the extinction of dinosaurs like asteroids hit the earth, it is very possible that the giant bodies and small heads of dinosaurs made oxygen and food a bottle neck for their living. Their huge bodies need a lot of oxygen and strong hearts as well as a large amount of food. Yet oxygen in environment changed (unknown reasons) and throttled them. Since they couldn't produce food by themselves, the food was finally completely consumed by them and they died out. Or it is possible that they got heart disease because of the over-burdened hearts. Primates and anthropoids began to go apart during the evolution process about 200,000 —1 million years ago. Chimps and gorilla chose the old way of strong body and sharp armature and teeth – they are still heavily built now and frighten many wild animals away. They could choose to stand to walk but they forsook the right though they may stand to walk occasionally. Meanwhile, different any other animals, anthropoid chose intelligence but not strength to beat the living competition. They walked with standing legs to free hands (so did

kangaroo's front hands, but rather degraded) and began to make simple tools with stones and wood. They organized to hunt with strategies including digging pits and utilizing weapons made of stone and wood instead of armature and teeth. Through long period of evolution, the most essential human characteristic appeared which was that they could conclude experience and teaching from previous activities, then improved their activities and put the improvement into practice; this practice was not to simply change the environment with their bodies but with tools while constantly improved their tools. This was a complex learning process which showed intelligence not owned by other animals, as well as a self-feedback and long (Paleolithic and Neolithic ages) process. Other animals may also have this kind of feedback ability yet without tools. This self feedback activity with tools became faster and faster with more and more abilities of changing the environment. The growing abilities of limbs, five sense organs and brain finally push human to successfully make a tool that is like themselves - robots. However most of the robots are not identical with human beings appearance and they could carry through only part of human works, for example the manipulator which fulfills the manual labor will be also taken as a robot.

On the other hand many robots has similar functions with human brain and if persisting in this development direction someday we will create a kind of robot with its intelligence close to mankind, furthermore there exists a much dangerous possibility that robots will create the most advanced robots with both the physical ability and mental power which will tremendously exceed human physical ability and mental power, and with extreme large possibility, the quantity of this robot is not only one or two, but a large number. The average capacity of those robots will outclass that of mankind.

(III) Appearance of sex during evolution process

This question is asked and discussed in chapter 5. Here it will be emulated from evolutionary perspective:

Appearance of sex during evolution process

Life form has to combine for surviving and copy for reproduction after it comes out of the "nutrition soup". There come two important questions: One is that the original creature individual is recorded with every detail and copied itself as many as possible; the other is that it has to change to adapt itself to the changing environment, or it will be washed out (many species died out because of their weak adopting abilities). To solve these two problems, first the characteristics of the parts that combined together are recorded, which means that the composition and form of the genes of every part are recorded. At the early stage when the combination was comparatively little, they were recorded respectively and then combined together. As the parts increase, they negotiate and concentrate information on certain parts and copy these parts. The copy here is not copy with one-to-one correspondence any more, but a kind of expanding copy that copying from certain parts then spreading to other parts according to the gene sequence. This is the predecessor of ovum.

Constant evolution is necessary in order to adapt to the changing environment and competition. And corresponding record needs to be changed for evolution. There are two opportunities to change the record, one is to change after recording and the other is to change while copying. To ensure the change to maintain the right form and not to make big mistakes, like to produce six toes, six fingers, tail, have hair all over and two heads, human chromosomes have 23 kinds, including five internals, six organs, hands, feet, legs, arms, head, brain, five sense organs, and genitalia. This interacted information exists in every part to make the part know its functions.

Record has to be changed for evolution and different changes will be made to adapt to different environments since one individual will have at least two copies. The next generation should not be just a simple copy, like clone of unisexual reproduction. In order to beat competition, comparison will be made among same species to exchange information to enlarge the gene bank as possible as it can like animals scramble for leading power and mating right. Thus combination, integration and comparison are required, first to ensure proper heredity

(supervise each other). Second is that it has been mentioned above that all genetic information had been recorded to different parts (when becoming complex) at the early stage of evolution. In fact, during the process of this kind of recording, a problem of evolution has to be solved. These two questions are interacted and can't be solved just one of them and leave the other alone, which means neither clone nor mating goes first. The principles of mating are that: first, to encourage; second, to exchange information with competition of mating parties. Thus forms the mating mode of meiosis.

This competition does not just include joining parties (at least both parties), but also has to represent all parts that are not on the site as well as a few former generations and branches (if they are not just two individuals).

(IV) Innateness, acquiredness, heredity, evolution and learning and education

This subhead is rather long and its content is quite controversial as well. As discussed by other parts of this lecture (book), human are human only with consciousness. Learning ability is the most important characteristic of consciousness besides feeling and its most obvious symbol is feedback ability, which may enables human to constantly improve this ability and create other things with created things, while the new created things will reversely push human to improve and develop the things with which the new created things are created. Human paid thousands of and millions of years for this ability with good examples of Paleolithic and Neolithic ages.

How much do innate heredity and postnatal learning affect a person respectively? Vulgarisms like "dragon bears dragon, phoenix bears phoenix, and sons of rats can dig wholes" expresses the important effect by innate factor. "Seeing old from age of three years" indicates that early stage education will greatly influence children's life.

Effect by innate, acquired and heredity factors, as well as left brain and right brain will influence the whole society, at least will affect education and attitude from others.

Human brain almost becomes mature around age of 6-7 with brain weight 1,280 grams which is close to adult brain of 1,400 grams. And teeth will be changed at this time as well. Brain will be complete matured around age of 12-13, and sexual ability is matured around this time as well.

Human has 23 pairs of chromosomes and 6 billion DNA bases. Strangers without any blood relationship will at most have 6 million of different pairs and most other base pairs are the same, which represent characteristics of human: everybody has brain, heart, eyes, liver and limbs. People have different skin colors, heights, hair colors, faces, blood types, etc. Even brothers and sisters with blood relationship at least have 2 million of different DNA base pairs. But twins usually have same DNA, that is why many educational experiments have done to them to observe how much acquired effect on these twins with same innate condition. As the experiments are limited and hard to control, it is difficult to make more conclusions. But many observers state that acquired situation will greatly affect their personalities, likings, tastes, and introversions or extroversions, etc.

What is most important is that corresponding system of understanding on innate factors, acquired factors, left brain and right brain as well as educational methods will be established only with grasping human evolution.

Human is not only creating and altering environments, but they grow in the changed environment. Examples are: human invented air conditioners. Their natural adapting ability will decrease once they are used to air conditioners and summer becomes difficult for them without air conditioners; the world will stop running without cars, trains, ships and air planes; the cities will be down without electricity.

Innate effect brings not only similar body shape and appearance with fathers, but also similar personality, which is activity. The brain of an infant is not blank at all and the cells are actually relevant. The genes of ancestors are passed down to generations with new selections and will never go back to remote antiquity.

As mentioned in other parts of this lecture, right brain is the main carrier of heredity, while

left brain is the main postnatal carrier. Some people have more developed left brain, and some have such right brain. Thus it is a key that left and right brains develop in balance and body parts may coordinate with each other. It doesn't matter that just one of these two brains develops well and this will push the person to develop in certain fields to obtain unique and outstanding achievements guided by the well developed brain which is innate or acquired. Refer to "Harmony of Heaven and Mankind—The Scripture of Longevity" for details.

Chapter seven The Intrinsic Law of Evolution

(I) Trend of evolution

The process of evolution complicates species from inorganic substance to organic substance, from nucleated cells to macromolecule cells, from one kind to today's vivid animals and plants until to the highest level of mankind.

This complication reflects more and more relevance and functions, as well as stormier competition.

The learning curve of biology is developed from simplicity to complexity, from lower organism to higher organism. Being "higher, swifter, stronger" is not only Olympic spirit, but also the trend of biological evolution.

The increasing complexity of chemistry, biology and information, which are related to biology information system referred before, reflects the increase of relevance. As mentioned above, the evolutionary trend of human being as a special creature is developed with conflict, entanglement and harmony of their innate and acquired biological inbeing. "Harmony of Heaven and Mankind" is a key of nature that they must grasp.

Human feedback function enables them to create new things with what they already created, especially the rapid extension of their brain pushes the extension of human body energy to a much higher level. The fact is that manufacturing and utilizing tools is not unique to human, however, only mankind may create new tools with created ones to form new feedback recurrence. And conversely, the new created tools provide us with new means and methods for creating even newer ones. Human is a group of creature attempting to surpass others within the group, other creature, and themselves as well all the time. Yet it is a dangerous thing whether for individuals, group or the whole mankind if the correct objective is lost, therefore, keeping the harmony of heaven and mankind while surpassing is the only right thing!

(II) The critical effect

As mentioned above, there was a explosive development of species during Cambrian, which was similar to reaction chain of nuclear explosion and spread like snow-slide. It was an explosion after the critical effect point and was a comparatively stable subcritical state before which with similarities to use of peaceful nuclear power.

The current world is in an subcritical state as well as healthy human body and if any part of the body exceeds the critical point, cancer will happen with excessive growing of cells of this part, which indicates that getting cancer cells into subcritical state may inhibit them. Graphite rod is used to absorb excessive neutron in nuclear reactor to ensure the critical state of chain reaction. Such is human body condition, which stays in a balanced subcritical state.

No matter it is the biosphere or human body, or even techniques, politics, economy, culture, they all tend to develop from order and guided development to chaos and supercritical state, which can be presented by Diagrams of the Book of Changes, by two Diagrams that indicate two different meanings. Refer to Chapter 8 Genetic Code for details. All these are subject to the principles of harmony of heaven and mankind.

(III) Composition of system information

The basis of holographic theory, which indicates that whole or other parts may be viewed by local characteristics, is that not only zygote (fertilized egg) contains full set of chromosomes, but all cells carry these genetic information, while different part of cells just promote the genes of themselves and grow in their own shapes.

The 100,000 kinds of genetic genes in human body produce 256 sorts of cells (64 X 4) after 50 recurrence of division, and is there any positive connection between the quantities of genetic

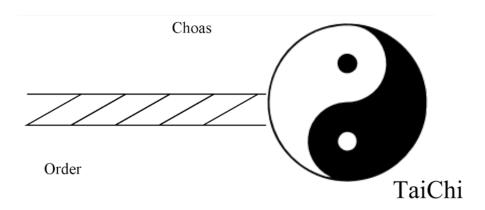
genes and cells? It is an obvious fact that a person's body shape can be detected from the shape of a hand or foot. This is taken by cloning technique to make unisexual copy of partial or whole organism.

It is such a complex information network to know the whole from the partial that even no an existing computer system can compete with it. This is the result of evolution of billions of years and impossible to be learned by mankind in a period as short as a hundred years. The more complicate the complexity is, the more possibilities (being interrupted by outside world) the chaos (losing control) happen. This is also why there are more and more cancers with more and more environment pollutions.

(IV) The Source of evolutionary order (theory)

While we marvel at the complexity and greatness of life, people seek clues of evolution in protein and DNA except those who tried to find the basis and origin of evolutionary selection like Darwin. Besides, we also have to look for the internal order or system law, of which western philosophy is often lost.

A living individual like nowadays human, is a energy structure of low dissipation and constant temperature, which exchanges energy with external world, consumes energy at internal body with cells coming and going. It has to be both comparatively stable and continuously evolutionary. That this kind of evolution will affect the whole and spread all over like a chaotic system once it happens can not help puzzling us that how it is possible to be both in one? A structural diagram may be taken to demonstrate this possibility.



Similar clues may be found in the process of origin of species mentioned in Chapter 5. In the next chapter about genetic code, the upper and lower eight diagrams of the sixty-four diagrams in the Book of Changes demonstrate the existence of this contradictory unity.

Chapter Eight Genetic Code

(1) Order and chaos in evolution

There two possible deductions about evolution: one states that evolution has an internal order; the other announces that the current situation is at the edge of chaos and order, but closer to chaos. The reasons for these deductions are because genetic law and code of DNA have been found and the theories like dissipation theory guiding to show the order of life; meanwhile, it is found that evolution is at an constant and unpredicted process like the chaos of weather while the evolution of life presents both order and vigor.

The study of evolution is similar to the methodology discussed in "Harmony of Heaven and Mankind—The Scripture of Nature" (Refer to "Harmony of Heaven and Mankind" for details).

(II) Exploring DNA —"Asking Heaven" once again

DNA only has four bases (AGCT) and form two base pairs with different base sequence composing series of instructions. Copying DNA requires disconnecting the base pairs to produce RNA. There is some change in base of RNA (Change T to U) but still with its former pairing ability. RNA is added at head and tail with other substances and got rid of which is called mRNA before synthesizing protein. mRNA is a triad of three bases, which form 20 amino acids with different combinations and then compose thousands of proteins. mRNA pairs with tRNA, which works in pairs; Picture is a pair of diagrams.

There are still a few difficult questions: why there are four bases; why mRNA is triad; what instructs DNA to untie its double spirals; why there is a different base in RNA and DNA; how DNA(?) directs RNA to compose protein; what the relationship between the composed protein and DNA; how mRNA and tRNA work in pairs; why transcription starts with start codon AUG and ends with stop codon(UAA, UAG and UGA), why AUG is the only one start codon; what biological characteristics mRNA and tRNA represent; what transcription indicates? Why RNA is smaller than DNA? What instructions are given by DNA to amino acids to compose different proteins and finally form different body parts?

(III) Genetic code of human

Generation after generation with endless descendant—New discovery with blind eyes

The chromosome of human (regardless gender) is diploid of which one set is from father, and the other set is from mother. It splits into two copies during mitosis process, while during meiosis process for reproduction, it splits into tetrad. This chromosome tetrad is neither from father or mother, but is two groups of mated and crossed chromosomes frm both father and mother. The result is that the chromosome in any human body is a combination of chromosomes of both father and mother (not solely one of them).

However, attention shall be paid to how many groups of chromosomes in every gonobolia which contains 200 to 300 million of spermatozoon while ovum needs to take a closer observation. Only one tetrad ovum of two groups is produced every month and only one fetus may grow in mother's body. Whether meiosis happens first then ovum is excreted or it forms during fetus developing stage? Obviously, it should come into being in mother's body (or it will not be called ovum). There could be four possibilities with two groups from male and two groups from female.

(IV) Genetic code and the Book of Changes

There are four bases and mRNA and tRNA are triads. The total combination are sixty-four genetic genes which composing 20 amino acids. Corresponding to is: four bases are Four Aspects, uracil U can only unite with adenine A, cytosine C can only unite with guanine, then U is Tai Yang, A is Tai Yin, C is Shao Yin, G is Shao Yang. Thus Yin and Yang match and unite, or U and A

may exchange with C, AND G, or U exchange with A, C and G. Following such rules, two diagrams in sixty-four diagrams form one a set of diagrams, which means mRNAT and tRNA form a set of diagrams. Meanwhile, tRNA unites with another tRNA to form amino acid chain and its sequence is defined by DNA. Long amino acid chain will form protein molecules. A set of mRNA and tRNA are Yin Yang corresponding. The current popular diagrams of sixty-four diagrams are the following eight, that is, just Mr Liu dajun pointed out that the statement is not inconsistent with "not daybreak but changes".

Another possibility is that mRNA and tRNA is a pair of Diagram, the last Diagram is mRNA, and next is tRNA; the former is innate, and the later is postnatal (or the opposite way); the relationship between pairs is unconsolidated or interacted according to the sequence of Eight Diagrams. It is an innate factor that mRNA is defined by DNA, and in order to pair with mRNA, tRNA can only compose triad amino acid, which will not work much. The possibilities that mutation happens are: 1. DNA produces mutation by itself; 2. mutation occurs in allele of spermatozoon and ovum because of competition; 3. mutation happens to controlling gene or enzyme.

mDNA is the chain that holds matrilinear heredity, which results in that the possibility a male gets cancer is much higher since gene mutation is usually from paternal line.

Chapter Nine Genetic engineering with angle of evolution

(I) Evolution and genetic engineering

This is a controversial part.

Time to time, we pay much attention to the current situation of current creatures and mankind which are results of evolution, yet neglects how evolution works and can not hold our future or even not be able to evaluate the ethics and successful probability of the ongoing activity like "clone", "transgenic engineering", transplanting human being's genes into plant or animal.

Natural evolution happens in certain environment and takes millions of years. With genetic technology mankind has already mastered, insulin is successfully synthesized, sheep and cattle are cloned, genetically modified food is introduced to market, organs of human are cultivated in animal body, gene banks are established, and now the eyes is turned to cloning mankind ourselves and certain organs.

(II) The limitations of cloning technology

Different from the technology of test-tube baby, today's human create life with embryonic cells and clone human with somatic cells, and even attempt to repeat asexual reproduction of remote antiquity time. Yet the essence of all these are actually not real asexual reproduction of remote antiquity time or modern sexual reproduction, but an attempt from unisexual to ambisexual reproduction like an obtrusive and ignorant child, which is just a wrong way or misarrangement method.

When cloning part of a whole organism, although most of the somatic cells contain most of the information of this organism and may clone the part or whole by activate it, the most difficult key is the communication between the cells and other part during cloning process but not just nutrition issue. Therefore, even the process is successful temporarily, the life will not last long because the unpredictable coordination problems caused by the fact that what is formed by cell division cannot truly integrate into the whole.

"Clone" or "Cloning" in Chinese is translated directly from English.

Asexual reproduction is a reproductive mode that lower organism like bacteria, amoeba and chlamydomonas reproduce.

(III) Cloning flesh or soul

We might be puzzled if cloning human is successful that the cloned one has same DNA with the one being cloned or even same knowledge and thinking. If its acquired environment is the same as well, an identical cloned human might be made, yet it is almost impossible.

The evaluation on successful clone is not only decided by flesh, but also up to brain and its activity and knowledge, and current technology is far from predicting this possibility.

Chapter Ten Evolutionary process

Evolutionary process:

- 1. Continuous surpassing oneself is the essence and objective of evolution, yet with certain blindness!
- 2. The definition of Entropy is that order→orderless→order, which is cycle of the Book of Changes, otherwise it is fatalism with ruined destiny.
- 3. The early stage of evolution is the survival of the fittest without consciousness and natural selection without controlled directions. At this time that human dominates, evolution shall be selected with consciousness (human consciousness) and control which follow the principle of harmony of heaven and mankind.
- 4. The evolution of human is still part of natural evolution from the wide angle of harmony of heaven and mankind and they have to follow their born destiny no matter how they struggle by will.
- 5. The evolution of life follows The law of harmony of heaven and mankind, which implicates an explosive rotary increase of sixty-four diagrams in consisting of Chaos, Poleless, Tai Chi, Yin and Yang, Four Trigrams, and Eight diagrams.
- 6. The process, sub-critical state and super-critical state, genetic code of species evolution may all be expressed by.
- 7. The essence of current evolution is an innate and acquired balance and still far from its end.
- 8. 23=five internals + six organs + hands + feet + legs + arms + head + brain + five sense organs + genitalia

9.

Human came into being when anthropoid developed to gain self-feedback system and human chose intelligence but not a giant body with strength, sharp claws and teeth, and strong muscles.

- 10. How spermatozoon and ovum are considered to be mature and why will they take decades of years? Sexual maturity is achieved when human brain matures.
- 11. Female maintains heredity and male leads to mutation.
- 12. State change: Chaos Poleless Tai Chi Yin and Yang Four Trigrams Eight diagrams Sixty-four diagrams
- 13. Human is a kind of advanced animal, who can make and use tools, also create other tools, moreover it has consciousness. Human can make the tools of different textures, types and also more advanced, which are quite different from the used tools of itself. In reverse, more advanced tools also can make the tools of itself.
- 14. Consciousness is the anticipation and the judgement in advance for the future, which is on the basis of past experience and inheritance!
- 15. The areas lacking for culture need law government. It would be much more perfect if combining culture and morality with law government.
- 16. Conjecture:
- 1) Human have the highest brain-weight and body-weight ratio among all animals!
- 2) Only human brain has left and right brains.

- 3) All numbers of legs of all animals are even.
- 4) There is a positive connection between the kinds of genetic genes and kinds of cells.

Chapter Eleven The puzzle dom of future evolution

(1) Outer space intelligence overlooking the earth – report by outer space intelligence

There is a group of creature with much higher intelligence and civilization than human far away. They have been observing the earth for a long period and their representative writes a report to their group. It is read by earth language as following:

There is a group of animals called "human" by themselves and take the dominating status on the earth with power that can ruin any other creature. The creature "human" mostly stay at places called cities and they live in squares built by reinforced concrete. They run around in a hard shell with four wheels under it (faster than their feet); they move on water in enclosure and fly into sky in container like whales with wings and whiff; they even explore the space with eruptive rockets and landed on moon, almost finding our subsection on the moon. Actually they have explored the Mars for a few times and it is interesting that they wish to find the possibility to immigrate to Mars, and they always think they are lords of the universe and earth.

I calculated for their future with some symbols of thousands of years history invented by a group of yellow human who stated that they could predict the future and found that the result is not expected by them yet unavoidable, which matches our foreseeing. The future of human is like this:

- 1. The oil and natural gas which took decades of billions of years to form will be completely consumed;
- 2. Population goes up to 10 billion;
- 3. They raise domestic animals for food, yet they consume much grains and bring aftosa and bird flu;
- 4. Because of ideology, religions and scrambling for resources, animal nature in human will make them kill each. Most of the countries take nuclear power as energy resource;
- 5. Four possible destinies: 1) The earth is ruined by nuclear weapons; 2) Intelligence made by themselves controls the earth; 3) Biological virus as small as the size of 10-6 of human body from remote antiquity will eliminate human from earth or control the earth through human brains; 4) Environment pollution causes species to die out including human themselves and the earth enters an extinction time.

Conclusion of the report: Mankind bring no good to the earth except for eating, residenting, satisfying themselves, consuming resources, polluting environment, expanding quantity of their genes. With such a group of selfish creature, we don't have to worry they will threaten our planet!

(II) Evolutionary ideality

A unified world

Hearing each other yet never seeing each other.

No one picks up and pockets anything lost on the road.

Governing a large country is as easy as cooking a dish

(III) Evolutionary crisis

It has been a focus of news report for this opinion:

1. From cold weapon time to hot weapon time until to information-oriented weapon time, with more and more advanced weapons, human not only hunt other creatures, but also kill each other.

Current situation: Human current arsenal may ruin themselves for hundreds of times!

2. Oil and natural gas are great fortune given to human by nature. They are like human blood which will end our life if completely consumed with human as a group of bleeding cully. Though

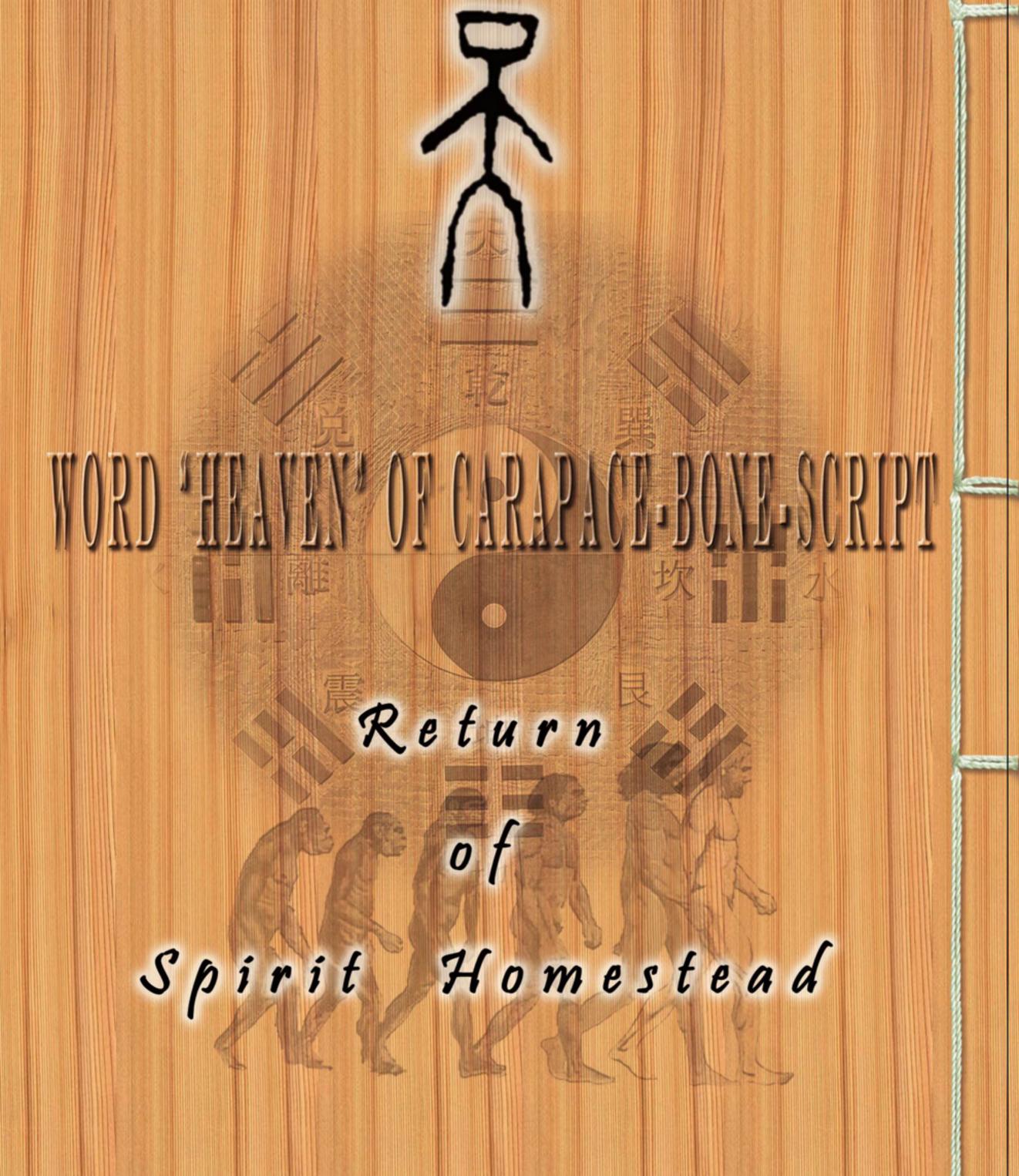
nuclear power and other energy resources may become human's new hope, they have to face the risks nuclear pollution and danger from nuclear weapons developed by nuclear technology by utilizing nuclear power.

- 3. Food crisis: As the evolution of human dominates, their population explodes without natural enemy, resulting in more and more serious food crisis though they make great effort to grow crops, raise animals and manufacture alternative food.
- 4. Species extinction: Human is the only group of animals that may greatly alter the environment with or without consciousness, yet they can not reverse the changes already made to the environment.

Some studies state that there were five times of extinction in history and human is in a situation like dinosaurs in the Cretaceous period. Sometimes extinction may bring new life.

Human activity leads to a prelude of species extinction like the former five extinctions and the situation is getting worse

- 5. Environment pollution: ...
- 6. Virus spreads:



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