

Human Consciousness: A Theoretical Prospective on Repetitive DNA Base Pairs Relation to Psychological Behavior

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ABSTRACT

In this paper an attempt has been made to bridge the gap between the repetitive Deoxyribonucleic acid (DNA) base pair sequences and psychological human behavior. Assuming the brain as a perfect fluid, the DNA coefficient between the biological and non-biological forms of the brain is calculated. These calculations are based on the Friedman density equations that describe the expansion or contraction of the universe in homogeneous and isotropic way in physical cosmology (only time independent equation is considered). We have tested this DNA coefficient with a sample size of eighty persons with belief constructs on consciousness behavior. The Pearson's coefficient thus obtained is then compared with DNA coefficient. A logical justification is made for the comparison of these two values. The coefficient values are found to tally but with an error margin of thirteen percent. The major result of this research study is in finding a relation between the experimental DNA values with that of psychology of consciousness behavior in terms of coefficient values.

Key Words: psychological behavior, consciousness, deoxyribonucleic acid, DNA

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Introduction

Consciousness is a finer matter because of its embedded nature within the brain; it could be quantified and measured. A proper theory is required to understand its nature. Various philosophical texts do talk about the consciousness by using the words such as self, mind, soul, atman etc. But in this paper, we prefer to use the word consciousness on the lines of the study carried out by Tarlacı (2013).

Human consciousness always strives to overcome the instinctual behavior to intelligent behavior for growing into a complete person.

An instinctive behavior is a response to a clearly defined stimulus action. Behavior is said to be instinctive when it is an expression of innate biological factors – the gene factor.

As per (Vivekananda, 2013) definition of consciousness is that it is a perfectly regulated habit which forms in total as consciousness. He also said that the smallest form of the physical body is the consciousness and the biggest form of the consciousness is physical body. Here we are trying to interpret his thoughts on human consciousness with genes. The earliest theories of Evolution and Hereditary characteristics can be traced back to 5th century B.C., Philosopher-scientist Hippocrates who raised the question, why do children possess the characteristics of the father?. Simultaneously, he comes up with an appropriate answer “the semen contains tiny

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samples from all parts of the parental body”. From the point of view of Physics, the evaluation of the universe and man are diagonally opposite to the views of hereditary characteristics. The human being in Physics is nothing but a point in the Euclidean space. It is known from the theory of Big bang and Big Crunch: a theory of expansion and contraction that the general evolution of the universe took place resulting in the formation of simple Atomic nuclei such as Hydrogen, Helium etc. Swami Vivekananda also spoke about the evolution theory of man but in terms of life to the Euclidean point in the space: Expansion is life and Contraction is death. On the other hand, Darwin’s theory of Evolution was based on Survival of the Fittest gained currency and later Mendel’s Genetics provided a theory of Genetic inheritance.

The current stream of researchers such as (Dawkins, 1989; Damasio, 1994; Pinker, 2002; McFaden, 2002; Marcus, 2004; Jablonka and Lamb, 2005; Lipton, 2006; Mattick and Mukunin, 2006; Stozet *al.*, 2006; Tariq *et al.*, 2010; Shapiro, 2007) have a different interpretation of biological origin of consciousness gene to explain the behavior of man. Currently, there are 442 international scientists (Young, 2012) working on Genes and its application in Genome mapping of man.

1. Some questions on Human Consciousness

In a paper (Tariq *et al.*, 2010; p.359-377) titled “*Could the Human Consciousness be a product of Mental Genes; A non-biological component of Brain genes?*” raised the following questions;

- Why are we scared of conducting a deeper enquiry into a genetic processes and its integral connection with consciousness?
- The second question is why mental genes are not merely a biological phenomenon but a composite of biological and non-biological process?
- Why and how mental genes became a part of brain genes for the evolution of mental processes?
- The question is in the absence of some kind of an overall plan, how would the innumerable local effects coordinate amongst their various layers and levels together with the timing of each process?

Based on three inherent human characteristics - belief in soul, people are born good and no traits for consciousness which are unlike physical traits (Pinker, 2002) raised some fundamental questions

- Brain cannot come from environment alone because it has some goals and environment has no idea what the goals are?
- A correction may be made in Pinker’s observation of 34,000 genes. It may be noted here that the genome count based on the studies conducted by International Human Genome Sequencing Consortium, “Finishing the euchromatic sequence of the human genome”, reported a draft sequence of the euchromatic portion of the human genome with high accuracy. The Consortium reported that the current genome sequence (Build 35) contains 2.85 billion nucleotides interrupted by only 341 gaps. It covers 99% of the euchromatic genome and is accurate to an error rate of 1 event per 100,000 bases. Further, as on today, no one really knows all the genetic parts needed to make a human being. However, the project report (Dexter, 2012) place the human genome contains some 30,000 to 40,000 genes – far fewer than estimated.
- How mental traits such as anxiety and tension can be linked to shorter or longer version of stretches of DNA as proposed by some geneticists?

Damasio (2003) also raises that how neural patterns become mental images? He questions the suitability of the original nucleic acid bases as carriers of genetic information when the primitive nucleic acid sequence did not have the capacity to accommodate the information required by the replication machinery of a gene. Stozet *al.* (2006) questions about the gap between the genetic information in a stretch of a DNA and its biological meaning.

2. Some answers on Human consciousness

Tariq *et al.* (2010; p.364) proposes a theory based on mental genes which are not merely a biological entity but a composite of biological and non-biological process. Non biological process could mean a pre atomic light particle quantum process lying within the genes which



would be involved in the biological making and functioning of the body and brain. Conversely, consciousness is a template of quantum forms like neutrinos which do not get entangled with the known energy processes within the cell and consequently cannot be detected. (Pinker, 2002), argues for the existence of 3 inherent characteristics of the human nature – no traits for consciousness unlike physical traits, people are born good and everyone has a soul (Pinker, 2002);

- There is a consensus among the behavioral geneticists, cognitive scientists and philosophers that genes do not determine the finer details of consciousness because of probabilistic theories and secondly it can vary based on the environment. There is a need for further exploration in this field.
- The non-verbal and non-idea based mental behavior in the case of infants in identifying people, objects and tools are remarkable!
- The human potential for thinking, feeling and learning lies in the DNA of the fertilized egg. And genes are responsible for variation in ability, temperament etc.
- Free will existence and the dominant role of the environment are essential items in shaping the human consciousness.
- Existence of nonlinear relationship between gene and its protein product makes the counting of genes a complicated process. Most importantly, the figure count of 34,000 of human genome is always questionable. And in addition, there is a speculation of “junk DNA” involvement in the gene regulation.

Marcus (2004) gives a lead for behavioral characteristics of babies facial gestures, connects what they see and hear and distinguish the rhythms of different languages along with willingness to learn from the mother what is taught. These indicate that there is some kind of pre – experience design in the genes which makes sense when it comes into contact with the environment. “Mendel gene” which is an algebraic unit of trait combinations giving rise to patterns of inheritance, genes was black boxes whose substantive contents were beyond the reach or interest of geneticists. Schrödinger writes about the existence of periodic

arrangements of atoms in chromosomes containing some kind of code script for the organism. (Watson, 1962) suggested the precise sequence of the bases in the code which carries the genetic information. There was a conceptual shift in understanding the gene when (Griffiths and Stotz, 2007) stated that genes are not just a handy term which acquires a specific meaning but only in a specific scientific context in which occurs. (Griffiths and Stotz, 2006) further opines that the information for a product is not simply encoded in the DNA sequence but has to be read into that sequence by mechanisms that go beyond the sequence itself. (Darden and Tabery, 2005) bring out the nonlinear relationship of genes with its products which led to rethink of what it is made up of.

In Marcus (2004) opinion, each gene is made up of two parts; the protein template and the second is regulatory information about which how the template to be used. McFadden (2002) has suggested a model based on genetic code is actually a quantum code obeying the laws of quantum mechanics within the hydrogen atom bonds between nucleotide bases. It is likened to electromagnetic radiation in genes. Lipton (2005) explains that the amount of information is directly linked to the energy of the molecule that can be carried as the signal. McTaggart (2006) suggests that genes have a holographic history of the development – a sort of 3-D biography from the moment of conception. As one grows old, the chromosomes slowly build up data through the 3-D information carried and stored as waves. Pinker (2002) says that the chemical expression of a gene is very slow, the translation rate being 20 amino acids /sec and one wonders how life might have invented faster modes of genes expression and control of gene expression.

There are several characteristics of holograms which show the interconnectedness, inter dependence and interpenetrated behavior of the gene in the form of quantum hologram. Miller and Miller (2003) shows that the pattern holds the form which contains all the information needed to reconstruct the image. They contain many dimensions of information in far less space which is likened to a compressed file. They hold that information is a subtle network of interacting frequencies. The holographic image will be helpful in identifying the radiation phenomena that is involved in the old genes. Mattick and Makunin (2006) suggested the involvement of a non-biological



phenomenon. In this paper they are theorizing that non biological phenomena predominantly originate from the repetitive habits of consciousness itself.

3. Proposed Consciousness gene model: A Non biological brain gene encoded track

An attempt is made in this paper to answer the above questions and answers in a critical way. We theorize that the human consciousness is a template of quantum forms like neutrinos which do not get entangled with the known energy processes within the cell. Here we can understand consciousness gene concept by the process of brain gene interaction with harmless solar neutrinos that travel to the planet earth. It is reported by (Bahcall et al., 2005) that about 65 billion solar neutrinos per second pass through every square centimeter perpendicular to the direction of the Sun in the region of the earth. One can imagine how many neutrinos are interacting with our physical body especially in the brain area where the flux of neutrino interaction is very high (as the brain is perpendicular to the direction of the sun) comparing to the other portions of the body. It is also mentioned in Indian scriptures (Saraswati, 2004) that our brain genes are like a compass box needle always pointing towards the direction of the sun. It is also mentioned that during the sleep that our head region should always face the eastern direction where the sun raises and the legs facing the western directions. This seems to show that the modern scientific studies are in tune with philosophical observations made in Indian scriptures.

Dawkins (1989) suggested a model that human consciousness is a cumulative process of improvement that became quite distinctive and unique and efficient and gradually, the genes became stronger and stable and decreasing the stability of others. Following the lead, it may be said in our paper that the stronger stabilized genes will not be at the cost of decreasing the stability of others rather it will pull up to become their own replicable equals. The genes that are naturally exposed more towards the neutrino flux are more stabilized than the other genes in the body. This does not mean it is decreasing the stability of other genes in the body. On the same lines of thinking of (Marcus, 2004), here we are proposing that at the brain level, each gene has two parts; repetitive DNA nuclide sequences and fresh DNA nuclide

sequences. Here, the repetitive DNA sequences refer to the gene literature terminology; “junk DNAs” (Pinker, 2002) referred and discarded as a junk (Though there is a speculation of its involvement in the gene regulation).

Tariq et al. (2010) talks about the non-biological component of brain genes as a consciousness gene. Here, we are including the non-biological component of the brain gene in the form of non-coded signals or junk DNAs – which we are assuming it as some sort of quantum energy encodes such as solar neutrinos. Conversely, consciousness is a template of quantum forms like neutrinos which do not get entangled with the known energy processes within the cell and consequently cannot be detected - may be it is a non-coded signal! Or introns while the coded ones are exons.

The Friedman equations (Friedman, 1999) are set of density equations that describe the *expansion or contraction* of the universe in homogeneous and isotropic way in physical cosmology. The consciousness also describes the behavior personality of a person in a microscopic way - either in a positive way (expansion) or negative way (contraction) – “expansion is life and contraction is death”. The strong anthropic principle, states that the universe must have those properties which allow life to develop within it at some stage in the history.

In the case of DNA density coefficient, it is 3×10^9 base pairs of DNA are taken into account. Here in this study we are not interested in the clinical aspects of DNA studies. From “Equilibrium density gradient centrifugation” experiment, the conceptualization profile on mouse (that the structure of the human genome than about any other vertebrate genome - in its size and in the arrangement of its sequence it seems to be similar to any other vertebrate), the concentration profile of the DNA in the density gradient is analyzed and is given below as Figure 1.

Combining the Physics of Friedman density of the universe and Biological life in the form of DNA, the density coefficient ρ is defined by;

$$\text{Consciousness DNA density coefficient} = \frac{\text{Least band DNA density}}{\text{Main band DNA density}}$$



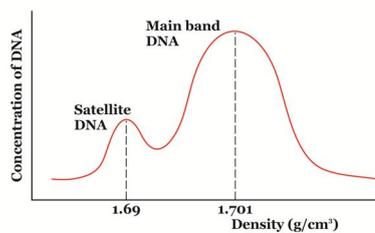


Figure 1. Experimental Density versus Concentration graph.

The peak off the main band was named a satellite band and by extension the DNA within that peak was named satellite DNA. Least band density signifies the non-coded density while the main band signifies the coded density measured in gm/m^3 . The experimental values for these density parameters are available in the DNA literature. From the above graph, main band density = 1.701 and least band density = 1.68. Plugging these values in the DNA density coefficient equation, we get DNA density coefficient = 0.99.

4. Psychological behavior of consciousness

To study the behavior of the consciousness, there is a need for management of desire or its neutralization. Neutralization calls for doing action by exercising one's choice based on norms, for protecting the people from falling into unbecoming ways and to have the sameness or evenness of consciousness (Saraswati, 1984) towards desirable and undesirable results of one action with the understanding of the law of cause and effect. This process of neutralization calls for having right disposition to improve the quality of action by exercising restraint and changing the attitude towards reaction by knowing the nature of positives and negatives for facilitating consciousness formation. When there is fulfillment of desire, the desire multiplies and non- fulfillment of desire leading to frustration anger, loss of memory and lack of discrimination. He also believes that there is a possibility of lifting oneself by oneself (Saraswati, 1984) by neutralization of positives and negatives which paves way for consciousness formation.

Consciousness DNA formation is a repetition of encoded habits and its purification is through the process of neutralization of positives and negatives thoughts at individual level. Neutralization refers to action / attitude

which will nullify the effects of positive and negative behaviors. The cycle of impression, inclination, thoughts, action and reaction bind us to the never ending process of craving for more desires to get fulfilled or end in frustration due to non-fulfillment of desires. This creates a disposition towards an object, event or thing which creates an intention, intentions trigger thoughts, thoughts lead to action, the way we meet the results of action is reaction, reaction get stored in our psyche which ultimately shapes the personality.

It is assumed that the repetitive genes / habits are responsible for the formation of consciousness and our planet earth is blessed with such a good environment where in so far we didn't observe any other planet that supports the human life. Repetitive genes cannot indefinitely repeat by it; ultimately it has to be a non-biological component which can be expressed in the form of frequencies. There is a time limit. The physical body time limit on the average, it is about 75 years. The molecules go on producing the fresh ones to give rise to replication of the same sequences again and again – basically it is reinforcing its habits. Habits are spoken in the language of energies and frequencies. When it reaches the time limit, the production of fresh genes stops but the repetitive genes escapes from the body (because of the exhausted time limit in the particular body environment) in the form of consciousness. This particular habit in frequency form searches for the right thinking resonance frequencies of a pregnant woman. Like the physical characteristics are transferred from parent to the child but mental characteristics are not transferred. It is totally different. Hereditary characteristics only in the case of the physical body but it is not so in the case of consciousness.

Based on the above discussion, we have formed a questionnaire (Table 1) with given scales. We have carried out a sample study with eighty aspirants from ages 30 to 55 years (median = 35 years) from all over India. The sample included 61 male and 19 female respondents, of which 65 are married and 15 are single. The life experience of the respondents ranged from less than five years to 30 years with a median of 15 years, and 35 were graduates, 39 were post graduates and 6 were PhD's. A 5 point scale is adopted to measure Belief on Indian philosophy, discretion in action and neutralization of consciousness.

Table1. Questionnaire format.

	1	2	3	4	5
	Strongly disagree	Disagree	Neutral	Agree	Strongly Agree
No.	Items				
1	There exists a permanent entity called Consciousness (Soul) within me				
2	Likes (positives) and dislikes (negatives) leads to attachment and aversion.				
3	Likes and Dislikes (Binding) are the known causes of Joy and Sorrow.				
4	Joys and Sorrows experienced by me are a result of my actions.				
5	Results of action come from multiple factors.				
6	You are your likes (positives)and dislikes (negatives)				
7	It is possible to neutralize the likes and dislikes for self-growth				

International Personality Item protocol on dutifulness, anger and effectiveness are used and compared to self-growth dimensions of belief, discretion and neutralization of consciousness (Goldberg, 2000). In the given context of our studies we have taken one construct viz; “Belief in a permanent entity called Consciousness (Soul) within me”. This construct is also supported by (Pinker, 2002) belief of 3 characteristics - no traits for consciousness unlike physical traits, people are born well and everyone has a soul. For this construct, the mean, standard deviation, Cronbach alpha and Pearson’s correlation coefficients are calculated.

5. Logic in comparing the two coefficients

Belief, Faith and Trust and their opposites, can be tested through Psychological analysis of consciousness behavior. The Pearson’s coefficient indicates the percentage of belief in the existence of a permanent entity called “Soul or Consciousness” inside the physical body. Through questionnaire, we found that 85% people believe in the existence of consciousness. The physical significance of DNA coefficient is it gives the concentration or density of specific and repetitive flow of Amino acid structures which is normalized with its own maximum value there by giving the dimensionless number. Every repetition of the nucleotide gives rise to an encoded energy flow giving rise to a habit formation or consciousness formation. A single repetition of the nucleotide simultaneously produces a habit which is an encoded energy track inside the brain which is difficult to measure. If proper instruments are developed, the encoded energy tracks of each of the habit could be measured. It may be of the fact that we have measured this particular habit but in the form of blank signal. However, one cannot stop the nature in – built phenomena of

flow of encoded habits energy flow. This gets reflected in the form of instinctive behavior leading to thinking or speech. In the case of animals, it can be seen that they behave instinctively which results in the form of sounds and some physical action. In the case of human beings it is thinking that makes the difference with instincts. Finally, whatever, it is, the measurement should give a digital number. Human beings understand only the number. Thus, the DNA density coefficient is a simple two digit number with a decimal while the Statistical Pearson’s coefficient is also a simple two digit number with a decimal and therefore, these two could be compared. Further, in the book by (Pinker, 2002) supports our logical statement of existence of soul - no traits for consciousness unlike physical traits, people is born well and everyone has a soul. The interview conducted by the Fox news agency scientist (Young, 2013) found a link between the shape of the different parts of people’s brains and their personalities. It looks like that the brain is no more a fist shaped. It depends on the personality behavior.

6. Comparison of Pearson coefficient with DNA density coefficient

The calculated coefficient values are given in Table 2. Mean 3.70, Standard Deviation = 0.70, Cronbach’s alpha= 0.72: Pearson’s coefficient = 0.86. Mean, Standard deviation and Cronbach’s alpha scores are above 70 % which are good in terms of mean scoring rates, clustered data with better data internal consistency for a sample size of 80 persons. The correlation coefficient also compares but with error.

Table 2. Comparison of Pearson and DNA coefficients.

Item	Pearson Coefficient	DNA Coefficient
Belief in a permanent entity called Consciousness (Soul) within me	0.86	0.99



From the above tabular column one can see that between the Pearson's coefficient and DNA coefficient there is an error difference of 13%. This error is due to usage of readymade software. We have to appropriately modify the program to suit the experimental values.

7. Comparison with Instinctive behavior

Danielson (2007) compares theories of Pavlov, Watson and Skinner. Pavlov's classical conditioning theory on experiments conducted on dogs discovered that the innate salivation reflex of dogs could even start before they started to eat. The unconscious action which we generally attribute it to a reflex action may be a reflex action originated out of the embedded action which already exists in the DNA structure of the animal. It gets manifested in the form of saliva to eat which is the first instinct for the survival of the animal. This is true in the case of human beings also. When tongue taste food is available before his eyes, his instinctive reaction is to eat but he controls his saliva because of the social decorum and discretion whereas in the case of animals there is no social decorum. If this is experimented with in the laboratory conditions as a psychometric item, we are sure that there will be a very high correlation coefficient towards saliva excretion before the act of eating. In the case of molecular mechanism or genetic reaction, it is the repetition of the particular ACGT molecule in the brain that leads to the intention of saliva excretion and hence consumption of food for own survival physically.

Watson (1962) proposed the elimination of all reference to hypothetical constructs like introspection etc. His main focus of psychological research was behavior and scientific control of the behavior. He was greatly influenced by the ideas of Pavlov and applied learning principles to children and argued that the children could be made as any type of desired personalities. Examining the Watson's theory to the extent there is truth in what he says about the scientific control of the behavior. But is there something further, discarding of the external psychological behavior. All our actions are all subjected to scientific enquiry which searches for truth in the action. In the language of DNA, it is particular sequencing of ATCG as AAAA. It is the number of A's and energies that determines the behavior. Psychometrics in the case of emotions is always questionable but it

cannot be totally discarded. Measurement of subjective numbers is not a bad science but the way it is applied is more important. For example, the emotions are continuous changing phenomena which cannot be standardized. How does Psychometrics as a Science deal with these behavioral phenomena?

A thought experiment on the psychological consciousness behavior relation to biological brain gene sequencing process is given in Table 3. This idea of thought experiment is based on 2011 report by NASA studies with meteorites found on earth was published suggesting that the building blocks of DNA and RNA formed extra terrestrially in outer space. It is reported that Adenine has an unexpectedly variable range of ionization energies along its reaction pathways which suggested that understanding experimental data on how Adenine survives exposure to ultraviolet light is much more complicated than the existing available data; these findings will have definite implications for experimental spectroscopic measurements of heterocyclic compounds. This clearly indicates that Adenine molecule is not simply a biological component but also it has a non-biological gene component interaction. This could be equated to epiphenomenalism theory of causal direction, consciousness \rightarrow DNA interaction. According to this, mental events are not physical and are formed by bodily events. It is difficult to measure this non biological component of the gene as long as it is inside the brain cells. The possible sequencing from 0 to 80 years (0 years indicates the development of the fetus right from the time of zygote formation) are taken in to consideration. The genome sequences information is to be collected from 0 to 30 years at every 6 months. From 30 years onwards till death, the DNA sequence information is to be recorded.

The above theoretical nucleotide sequences studies could be compared with reinforcement and extinction theories of Skinner. Suppose, if number of nucleotide sequences are more in the DNA related to the right or left lobes of the brain, the reinforcement is strong, if it is less it implies that that reinforcement is weak. It is something like the cement reinforcement in the construction of the building. If the reinforcement is weak or less conditioned, it will be collapsed in due course of time or immediately.



Table 3. A thought based biological brain DNA sequence segment.

Sl. No.	Age	A typical DNA sequence	Observations (Expected)
1.	0 years	Starting of Non biological brain gene Resonance with mothers biological DNA gene	Frequency matching between outside* non biological brain gene with inside** non biological brain gene frequencies
2.	10 years	GGCTAA	It may be seen that some molecular structures are getting replicated during the growth. This we understand by conceptualizing every replication as a habit, formed along with the physically identified molecule. This is undetected but observed in the form of the behavioral response.
3	20 years	ATAACG	
4	30 years	AAATGC	
5	40 years	AAACGT	
6	50 years	AAAGTC	
7	60 years	TAAAAA	
8	70 years	ATAAAA	
9	80 years	AAAAAT	

* indicates outside non biological brain gene quantum particle radiation such as neutrinos, anti-neutrinos.

** indicates non biological brain gene radiation such as neutrinos of the mother. The mechanism of these resonance interactions are to be studied in depth using Quantum physics concept of light particle neutrino – neutrino interactions.

But in the case of human DNA's, the collapse is equivalent to forgetting a particular thought. Forgetting may be due to the weak sequences or no sequence at all in the brain (may be the off code empty region; introns in the sequence). To put it in the language of Science; the Skinner's response is the ratio of extinction number of sequences to the desirable reinforcement sequence number. The pattern of the drawn curve is shown in Figure 2 and it is same as that of Skinners curve.

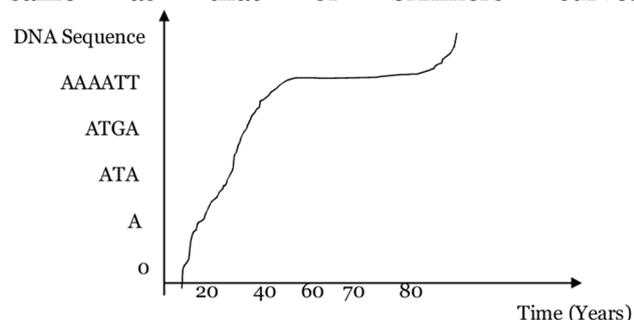


Figure 2. A Time – DNA sequence graph.

8. Conclusion

In this paper, we have made an attempt to relate the philosophical proposition of the consciousness behavior as a component of non-biological consciousness encoded track, with the inside world of biology; using the concept of a brain gene. The experimental DNA density coefficient is compared with the Pearson correlation coefficient, obtained using factorial analysis, from a study of 80 respondents. There are multiple constructs available in the literature of Psychology on consciousness

behavior. In this paper, we have taken only one construct on belief systems and tried to correlate with some experimental value. One can take other consciousness behavior constructs and compare with the DNA sequences. Of course, we have to be careful; as this could be the beginning of the opening of a Pandora's Box of consciousness gene.

We have made a start in this direction of comparing experimental DNA coefficient calculation with psychological consciousness behavior. The conclusions should be subjected to further vigorous study. This could further enable us to experimentally carry out studies on mental behavior genome mapping on the lines of genome mapping of the physical body. There is a hope and scope to carry on further studies with these philosophical ideas leading to a testable scientific theory on non-biological brain gene.

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