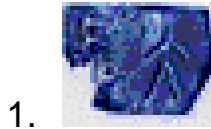


Decipherment of Indus Valley seals

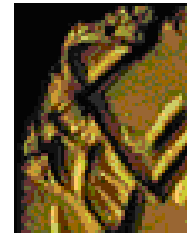
Vedic Human Genetics & Cytology

Introduction

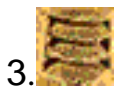
The quest of creation is quest of human mind from dawn of the Civilization on the earth. The discovery of the double helical structure of the DNA by the Watson and crick 1953 has brought the revolution in the field of Biotechnology. The same echo is coming from the well developed Indus Valley Civilization. The pictographic symbols on the seals are cytological models for teaching; they explore the cellular genetic evolution on the earth with genetic recombination. Its literary evidences are in the Vedic hymns. Accordingly the seals and cytological symbolic pictographs deciphered in chronological order. It is not the script but microscopic cytological models.



1. The synthesis of chromosome
replication and Protein translation



2. DNA



3. Nucleotide pairs



4

Nuclear reaction – the
ribosome translate the DNA code into life.



The group of tiny seals expresses the evolution of the creation from the pre-cosmic condition up to the evolution of man symbolically in chronological order.

Full article --

Decipherment of Indus Valley seals

Vedic Human Genetics and Global warming

Introduction

Indus Valley

The Indu is Vedic term for oxygen associated with life resource Sindhu, just like a stream of river in the ocean of life. The oxygen is life resource with water and Vivasvan DNA spread in all direction with water in the cell body. The Indo, Indus and India derived from Indu and the invaders called Sindhu as Hindu and Hindukush mountain

Sindhu and Sapt Sindhu

The singer, O ye Waters in Vivasvan's place, shall tell your grandeur forth that is beyond compare.

The Rivers have come forward triply seven and seven Sindhu in might surpasses all the streams that flow Rig. 10-75-1

The voice is the first to appear with life consciousness and whatever the object has its existence is due to voice sound waves, which is complimentary with light spectrum, and cause of existence of every thing. It has evolved into thought and words with evolution of life from DNA.

The germ of the world of the world ensign of all creation, be sprang to life and filled the earth and heavens. Even the firm rocks he cleft when passing over, when the five tribes brought sacrifice to Agni (Rg. 10-45-6)

The five tribes; five gross elements *Pañca Mahābhūta*, Air water, sky, energy and matter; the assembly of these five with energy transformation is sign of life with voice.

III. The flow of life channels

Seven sisters sprung from threefold source, (abiding in the three worlds that is, heaven earth and air) the Five Tribes prosper, she must be Invoked in every deed of might (Rg-Veda 6-61-12)

The seven sisters represent seven rays of visible light, and seven syllables of voice, they are flowing in three fold manner and nourish five gross elements air, water, sun; energy, sky and earth; matter with life in countless channels.

The cosmos is vast ocean of unknown dark matter with calm and quiet deep darkness every where. We can see roughly 0.01 M with telescopes. NASA and Fermi team working day and night looking for mysterious dark matter and its anti matter with gamma rays. It has been studied at Grand Canyon, North America.

The Petro glyphs and Hieroglyphic symbols is art of picture writing system with symbolism for demonstration and teaching. Its text and explanation is in the Vedas. It is for the seeker of knowledge to grasp the truth for his guidance to solve the unsolved problems of the creation. It may not be utilized for glorification in any way. Hence only universal symbols have been used for the pious, as common heritage of mankind.

The voice is identity of life; the DNA mental code grasps it first in the womb and pronounced it with birth of infant to cherish the life. The mighty cell body magically hold the life consciousness with cell metabolism as its spirit to execute functions of the cell body, and mind stimulate it with thoughts. The scientists have observed it in the ocean's inmost depth as its source. The wise men search his station of rays to travel beyond space and time in the deep ocean of earth's geomagnetic belt.

The vibrations of spiraling waves have evolved into thought and words with evolution of life from DNA. The voice retains the blessed sign imprinted on the DNA to follow the mankind from generation to generation.

The seat of the vital energy in the human body is lip like cavity at the base of seating between the pelvic girdle, where air is halted. It can be stimulated to connect with higher consciousness and shine like glowing lustre in the mid brain with stimulation of pineal gland.

Hear all the Gods my words,

Sarasvatī give ear together with Puramdhi and with holy thoughts (Rig-Veda 10-65-14)

The *Sarasvatī* thought words ensign of existence with chemical energy of photosynthesis, which generates thoughts in mind for action.

The brain waves are working with its dualistic force adverse and obverse, just like two faces of the same coin. It is the all knowing soul of an individual working with its dualistic force to stimulate thoughts in the brain. The resonant vibration waves constitute the individual mental identity with complimentary identity in synonym mental code on immortal DNA.

The DNA De oxy ribose Nucleic Acid is universal instrument of life with complimentary electromagnetic spectrum of visible light and audible seven syllables of voice. **The Vivasvan is term for DNA and the water (language of mental code) in it is the source of life, its vastness is beyond compare. The Sindhu signify the individual life stream flowing with DNA replication during the journey of life, it surpasses all other rivers in the ocean of life.**

With origin of life from DNA, the consciousness appears at its own with cell metabolism as its source and disappears with death. The life energy appears at its own with the movement of the sap with metabolism in the cell body in the first cell with birth. It maintains its continuity with cell division. With ageing and death of the physical cell body, it disappears at its own. In this way the consciousness is trinity of three.

1. The immortal Higgs field, which impart mass to subatomic particles from underlying space.
2. The immortal chemical energy of photosynthesis with metabolism in the cell body is the immortal source of life energy with cell division.

3. The DNA with four bases is immortal instrument of life; it is activated by immortal thought words from generation to generation with new life. The genetic recombination is the cause of biodiversity.

The life on the earth has evolved from the single cell. The biodiversity in the nature is due to the DNA De oxy ribose Nucleic Acid recombination. We have evolved from the single ancestor of DNA. Hence, we are all connected at cellular level, exhibiting the same functions at cellular level.

During the development in the womb, an individual borrow the hereditary characters from his parents for the physical development of the body. In the same fashion, the individual borrow his language code of his previous birth from his parent with DNA as ancestor. The code open the language of his previous birth on DNA, accordingly the individual faces the consequences of his deeds with new life.

Vedic Biology

Matthias Schleiden and Theodor Schwann have proved first time that animals and plants are made up of cells. All the living organisms are made up of cells, at cellular level, they exhibit the same functions. The cell has been termed as *Ribhu* and the different stages of the cell have been termed as *Ribhu*, *Ribhukshan*, *Vibhvan* and *Vaja*.

The Nucleus as Brihaspati, the DNA has been termed as *Tvashta* and *Vivasvat*, the cell division has been expressed as renewal of parents. With evolution a prokaryotic cell came in to the existence with inherent quality of energy transformation, growth and multiplication with evolution. The development of the autotrophic cell with photosynthesis and genetic material has given the ways for the organic evolution on the earth in different directions.

Single unified force

.The Vedic science in the Vedic hymns has its beginning, with discovery of single unified force of the creation. Bell's theorem in 1972 by Clauser, Freedman, David Böehm, and Alain Aspect in 1985, science discovered a synchronistic non- locality, where at the base of matter "non – local" causes operate and similar particles at a space like distance or some how "instantaneously interconnected" without the connection of any signal like light or electromagnetic waves.

Who is the supporter, creator? Who has seen him, when he first came in

to being? Rg. 1-164-4

This is the human quest prevailing on the earth with dawn of civilization. The answer has been given that the creation is rested upon un-born's navel, wherein abide all things existing. He is in the middle of the creation just like a great monster- Yakṣa. All are set in him like the branches of a tree. Atharvaveda 10-7-38

The fundamental energy-single unified force has been imagined in the form of primeval *Puruṣa* or symbolic *Unicorn* on the Indus valley seals.

The creation

It is an indication towards the fundamental magnetic energy as single unified force. The same has been invoked in first hymn of Rg. 1-1-1

I invoke the Agni- (fundamental energy) who is the priest, Deva (fundamental particles), sacrificer, and reciter of the Sṛṣṭi, Yajña, which is the treasure of jewels Rg.1-1-1

अग्निमीळे पुरोहितं यज्ञस्य देवमृत्विजम्। होतारं रत्नधातमम्॥१॥

3. The Laws of Thermodynamics (Rg.10-90-1 to 4),

सहस्रशीर्षा पुरुषः सहस्राक्षः सहस्रपात्।
स भूमिविश्वतो वृत्वात्यतिष्ठद्गुलम्॥

*A thousand heads hath Puruṣa, a thousand eyes,
Puruṣa 10-90-1*

The fundamental energy has been metaphorically imagined in the form of a *Puruṣa* The *Puruṣa*-fundamental energy has been imagined symbolically with innumerable head, eyes and feet, who pervade the earth and even above it. It indicates that the fundamental energy is universally present every where.

Bio-geo-chemical cycle

The system is working under the bio geo chemical cycles in nature through oxidation and reduction reactions.

यज्ञेन यज्ञमयन्त देवास्तानि यमीणि प्रथमान्वासन्।
स भूमिविश्वतो वृत्वात्यतिष्ठद्गुलम्॥

हु

Gods sacrificing sacrificed the victim: these were the earliest ordinances.

The mighty ones attained height of heaven, there where the Sādhyas, Gods of old, are dwelling Rg. 10-90-16

The *Yajña*-sacrifice means action and interactions, here it has been said that from actions and interactions again actions and interactions get generated, where according to the cosmic law-*Dharma*, *Deva* - fundamental particles are the first, with their activity they get reached to the height of matter and the fundamental particles- *Deva*. It means the fundamental particles are the first in the series of actions and interactions. Through their activity they are converted into the matter and again reach to their original old state of *Deva* - fundamental particle through reversible reaction. It is an indication towards the natural cycles, through which the natural components have been synthesized and disintegrate in the reversible direction.

The oxidation and reduction reactions have been termed as two mother of the creation.

18. Two Mother of the Creation

Oxidation and reduction

Oxidation and Reduction have been described metaphorically as the two mother of the Creation, where one is related with the synthesis and the other is related with the disintegration, they move in succession one after the other without end. They maintain the equilibrium in the system.

तुजमेके^१ सुवती विरूपे^२ अभ्यान्त्रम^३ वषटुः षण्म^४सूक्ष्म।
प्राच्या तन्वुस्तिरते^५ वृत्ते अन्वा नाप^६ दृज्जाते न गमातो^७ अन्तम्॥

A certain pair of maidens, of diverse form, weaves, betaking them-selves to it, the six-pegged web; the one draws forth the threads tantu, the other sets [them] ; they wrest not off (apa-vrj), they go not to an end.

—Atharvaveda, 10-7-42

The white visible-light with complimentary seven rays and formation of atom have constituted the base of creation. The generation of the magnetic energy in the atom and electromagnetic bond energy is the main cause of creation. The major elements of the creation are Carbon, Hydrogen and Oxygen. They have been termed, as *Mātriśva*, *Pavmān*, and *Indu*

respectively. The nature feed the creation just like mother, under the nature and the natural forces. The *Indra* is term for the electricity and the *Soma* is term for the magnetic energy.

The white visible light with Red wavelength has got the entry into the earth's atmosphere through ozone layer. With time carbon dioxide and water with the help of *Bhṛgu* (chlorophyll) converted the Red wavelength of light into the chemical-energy. The *Aśvins*- nucleotide pairs of DNA stimulated the process of evolution. The DNA with four bases is a universal genetic material. It is the base of living-beings with generation of life energy in the primitive prokaryotic cell.

They have summarise the thoughts, with focus on the single unified force as the creator, the atom is the building block of the creation, the DNA with four base is the building block of the living-beings, the life energy, the chemical energy of photosynthesis, the electromagnetic bond energy, with impact of *Vāc*- thought energy are playing, their role under the cosmic principles.

Evolution of Human species and Biotechnology



The origin and evolution of the creation from a fundamental energy has been described in Purusa sūkta, where the fundamental energy has been imagined symbolically in the form of a man. The fundamental energy is universally present every where.॥



The first life has originated in water. The beginning of the photosynthesis with recombination of the genetic material has opened the door for the organic evolution on the earth.

DNA replication & insertion of gene



10.



DNA replication and insertion of gene 11.



genomic

तव शरीरं पतञ्जलवन्तव चित्तं वातइव धातुमन्।

तव शृङ्गाणि विहिता पुङ्गवपेषु जभुराणा चरन्ति॥ ११॥

ॐ

11. a body formed for flight hast thou, O charger; swift as the wind in motion is thy spirit.

Thy horns are spread abroad in all directions: they move with restless beat in wildernesses 1-163-11

Rbhu has a body formed for flight in nature. The Charger DNA is swift like wind, the motion is his spirit. Just like his horns, they spread in all directions with rest less beat.

Gene cloning and development of transgenic animals

SL No.	OBSERVE	REVERSE	SL No.	OBSERVE	REVERSE	SL No.	OBSERVE	REVERSE	SL No.	OBSERVE	REVERSE
1			9			17			24		
2			10			18			25		
3			11			19			26		
4			12			20			27		
5			13			21			28		
6			14			22			29		
7			15			23			30		
8			16						31		

FIGURE 35.1. Inscribed copper tablets from Mohenjo-daro.

SL No.	OBSERVE	REVERSE	SL No.	OBSERVE	REVERSE	SL No.	OBSERVE	REVERSE	SL No.	OBSERVE	REVERSE
32			39			46			53		
33			40			47			54		
34			41			48			55		
35			42			49			56		
36			43			50			57		
37			44			51			58		
38			45			52			59		

FIGURE 35.2. Inscribed copper tablets from Mohenjo-daro.

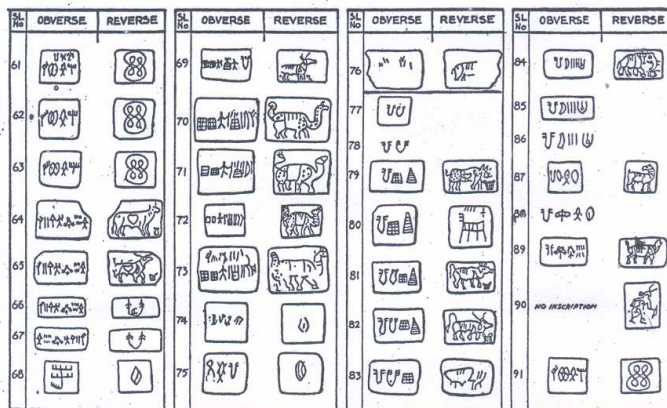


FIGURE 35.3. Inscribed copper tablets from Mohenjo-daro.

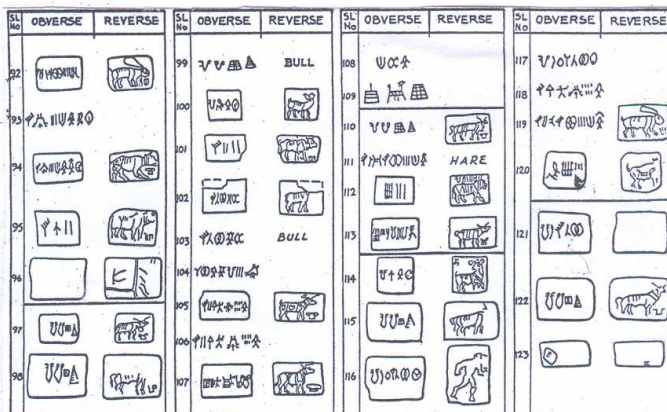


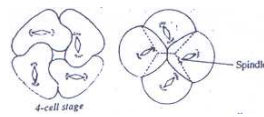
FIGURE 35.4. Inscribed copper tablets from Mohenjo-daro.


, With courtesy of Archaeological Survey of India

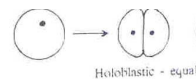
Figure Copper tablets 1 to 123

Figure Table of Genetically micro bodies used in the biotechnology on the seal and contemporary models used in modern biotechnology. Showing contemporary discovery of atom and DNA with successive steps of research

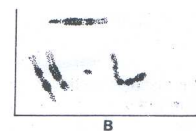
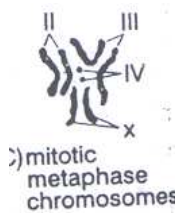
1  Cell & cell division  cell division



2  First radial division of embryo



3 Metaphase stage




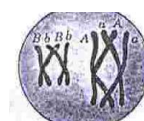
A  b 


ring euchromatin and hetero-
3) Late prophase (redrawn from
ion in Higher Plants).

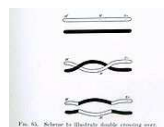
4 A chromosome euchromatin and heterochromatin




5  chromosomal inversion and gametes



6  Meiotic crossing over



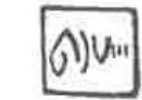
7  Synapsis



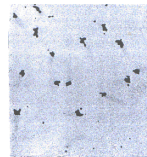
8 Mitotic metaphase stage



6. A mitotic metaphase plate

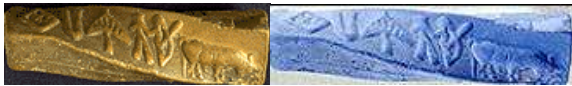


9 Telophase stage – pairing of chromosome

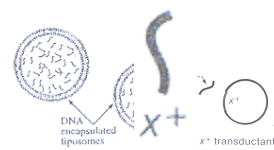


...in situ hybridization of mouse satellite DNA showing a near centromere.

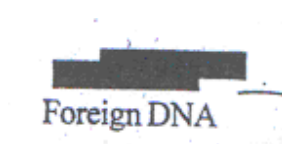
10 Satellite DNA



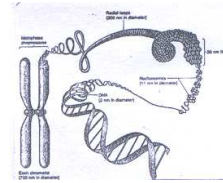
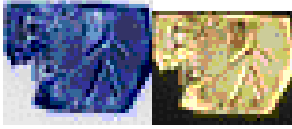
Satellite DNA



11 c DNA



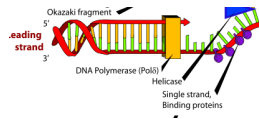
12 Recombinant DNA



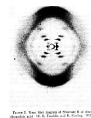
13 the structure of chromosome thread
at molecular level



14 a DNA replication, b Insertion of gene



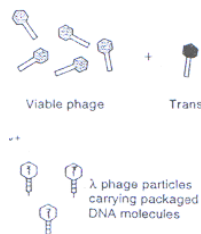
15 X ray image of DNA



16 Astbury's image of DNA



The components of Nucleic
Acid



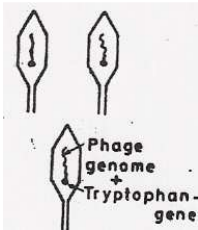
17 micro bodies



18 Tryptophan gene



phage DNA



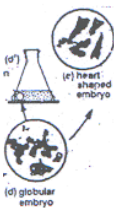
19 Development of heart shaped and globular embryo, 80



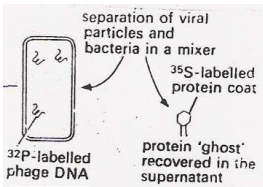
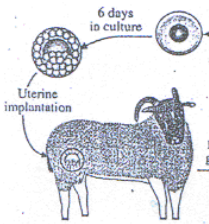
20 implantation of gene in the ovary



21 32 P-labeled phage DNA



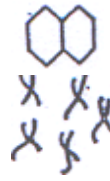
globular embryo, 80



32P-labelled phage DNA



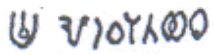
22 Protein body



23 crossing over



24 separation of the components – micro array



25 34 Excess plasmid DNA & Plasmid



26 31 Monoclonal anti body

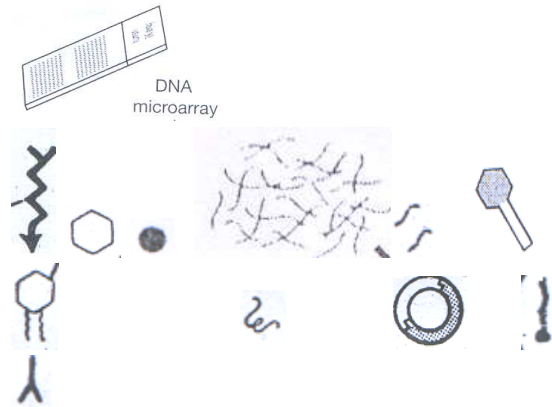


Figure 21 Table of Genetically micro bodies used in the biotechnology on the seal and contemporary models used in modern biotechnology

Indus Valley Human Genetics

Figure 1 A group of tiny seals - Infinite to finite



The group of tiny seals expresses the evolution of the creation from the pre-cosmic condition to the evolution of man symbolically in chronological order.

The hollow space on the button seal shows the pre cosmic condition, above it transverse divergent lines express the formation of the charged particles with movement.

The group of tiny seals excavated at one place explore the stages in the evolution of the creation, and genetic evolution of the human species on the earth.



The button seal expresses the evolution of the creation from the pre-cosmic condition to the cosmic condition.




I 1 the button seal – the figure express the evolution of the creation from pre-cosmic to cosmic condition in the early primitive universe.

The button seal symbol, the button seal indicate origin of the biotic

and a-biotic components of the nature from the atmospheric ocean in two different directions. The hollow structure in the centre is symbolic atmospheric ocean and the bifurcation of the hollow structure into two different directions indicates the evolution of the biotic and a-biotic components in two different directions.

Atharvaveda 13-1-52

2  **The hollow space** – it is the qualm and quiet pre-cosmic condition of the fundamental energy, when there was nothing in existence only deep darkness was there. There was only one force, which began to disintegrate from infinite to finite with its back ground in the infinite cosmos Rig-Veda 10-129 1, 2, 3.

Rig-Veda 10-129- 2

3.  **The existent's kinship – the single unified**

It has been expressed that every thing, which has existence is connected with the single unified force.


It has been expressed that the movement of the charged particles with free action and mighty forces had extended transversely.

Sages who searched with their heart's thought discovered the existent's kinship in the non-existent.

Rig-Veda 10-129-4

Transversely was their severing line extended: what was above it then? And what below it


There were begetters: there were mighty forces, free action here and energy up yonder. 10-129-5

4.  **The animal motif represents the imaginary fundamental energy in the cosmos.**

5.  **The incense burner**

The incense burner below the neck is symbol of light and energy, which indicate sun as the source of energy and light on the earth.


Sun is the soul and eye of the creation Rig-Veda 1-115-1

6.  **Pre-cosmic - Nebula** - the hollow structure in the middle symbolize the pre-cosmic condition with origin of Hiranyagarbha- the golden embryo- Nebula Rig-Veda 10-121-1


Then was not any—existent nor existent: there was no realm of air, no sky beyond. What covered in and where? And what gave shelter? Was water there, unfathomed depth of water? Rig-Veda 10-129-1

Darkness there was: at first concealed in darkness this all was in discriminated chaos.

All that existed then was void and form- less: by the great power of Warmth was born that Unit Rig-Veda 10-129-3

7.  **The Gayatri** - the triangle it symbolize the generation of three charged particles in the early primitive condition of Cosmos.

Gāyatri hath, they say, three bands for kindling: hence it excels in majesty and vigour Rig-Veda 1-164- 25.


8.  **The golden embryo**- the dot at the base of the triangle symbolize the generation of Hiranyagarbha – golden egg 121, it signifies the generation of energy in the Atom.

In the beginning rose Hiranyagarbha, born only Lord of all created beings.

He fixed and holdeth on this earth and heaven What God shall we adore with our oblation? Rig-Veda 10-121-1

The Hiranyagarbha – golden egg signifies the generation of energy in the womb of Nebula and in the womb of Atom.

Figure II –  four horned buffalo emitted

- II 1  four feet and four frame - biotic and a-biotic components** - the symbol with four dots on the four corners and the cross The four dots on four corner is the symbol for the generation of four components of the atom (electron, proton, neutron and the generation

of the energy in the atom), which constitute the base of the creation, the four lines in the square is the symbol for the four bases (Adenine, Guanine, Thymine, and Cytosine), which constitute the base of the DNA and the living-beings. Rig-Veda 4-58-2, 3

Bhaga fashioned the four feet; Bhaga fashioned the four frame pieces (? Usyala; Tvasta adorned (pic) the straps (? vardhna) along in the middle; let her be to us of excellent omen Atharvaveda 14-1-60


Symbolically the four feet and four frames express the four components of atom, and the four frames express the four bases of the DNA. They constitute the base of the living and non-living objects. The Tvasta is the shaper of the forms with triple bond in the centre of the two strips of the DNA. Atharvaveda 14-1-53

Atharvaveda 14-1- 61

The well developed cell in the nature has been expressed as well flowered, all-formed bridal- car metaphorically. It has been prayed to sun to make a bridal-car pleasant to husbands. Metaphorically the husband is the term for the organic carbon, the chemical energy has been expressed as wife, and the cell is bridal-car.

Rig-Veda 1-161-7

The synthesis of the genetic material has been expressed as a horse, and the development of the photosynthetic system in the primitive condition has been expressed as horse out of horse. Accordingly the cell became well equipped on the journey in the nature.

Figure II 2  **the ribosome translate the DNA code** - the ribosome translate the DNA code into life, and regulate the life of the living-beings by DNA replication.

Tvasta the lord hath made all forms and all the cattle of the field:

Cause them to multiply for us. Rg. 1-188-9


Rig-Veda 2-23-17.

Tvasta the lord hath made all forms and all the cattle of the field cause them to multiply for us. Rig-Veda 1-188-9

Indra hath yoked his bays, the Aśvin's car is horsed; Brihaspati hath brought the cow of every hue. Ye went as Ribhu, Vibhvan, and Vāja to the Gods. Rig-Veda 1-161-6

The Aśvin – nucleotide pairs of the DNA have been joined with each other by the hydrogen bonds. It has been expressed by the Indra has yoked his car and the *Aśvin's car is horsed*,

Brihaspati hath brought the cow of every hue- the nucleus regulate the metabolic reactions in the cell, accordingly each and every component of the cell has been synthesized, they brought forward the different stages of the cell in nature as Ribhu-cell, Vibhvan- eminent, and Vāja-young cell.

Figure II 3  **two mothered son** - the nucleotide pairs on DNA - the symbol is ladder like model of DNA with nucleotide pairs.

The aids wherewith the Wanderer, through his offspring's might or the two mothered Son shows swiftest mid the swift Rig-Veda 1-112-4

Two mothered son is metaphoric expression for the nucleotide pair of the DNA. Are two mothers in between them the nucleotide pair?


Figure III –  Soma pressed Soma

Hither is come the Ribhu's gift of riches; here was the drinking of the well – Soma pressed Soma. Since by dexterity and skill as craftsman ye made the single chalice to be fourfold

It signifies the inherent self generated source of DNA replication in four fold manner.





Role of messenger mRNA



III1  DNA replication and transcription of the code the duplicating DNA with transcription, and the single strand of mRNA on one side

III 2  Duplicating DNA

III 3  mRNA

III 4  **Saranyu deserted twins-** The DNA replication and pairing of chromosome. *Saranyu deserted twins- Pairs Atharvaveda 18-2- 33*

III 5  **chromosomal inversion** – the chromosomal inversion and loop on one side of the chromosome with formation of new chromosome

DNA transcribes the message into the mRNA, and single strand of DNA on one side.  The mRNA has the message for the DNA replication .



The replicating DNA synthesize chromosome, the chromosome undergo inversion , which leads to evolution in nature.

Figure IV-  gene inter action 

IV 1  **the genomic chromosome**

IV 2  **DNA replication**

The symbol is for the DNA replication, through which they synthesize the gametes during the sexual reproduction.

IV 3  **Four ladles-** the cell division, first division and second division,

6. *The sacrifice ladle, wrought newly by the God Tvasta's hand (DNA)—Four ladles have ye made thereof.*

The sacrificial ladles (developing cell) was made new by *Tvasta* - genetic material, it means first genetic material has synthesized in side the cell, it has given the capacity for cell division during the primitive anaerobic conditions and in turn the cell has been divided in to four.



IV 4 **gene interaction**


The symbols show the stages in the evolution of the living-beings. The development of the physical body is due to the mitotic and meiotic cell division. The gene interaction decides the trend of evolution. (Mendel's laws of inheritance)

Figure V 1

With Trikadrukas it purifies it self - the two forms of DNA and the role of the triple bond & double bond in the evolution of human-beings

With Trikadrukas, it purifies it self six wide ones verily great one; tristubh, gāyatri, the meters: all those (are) set in Yama Atharvaveda 18-2-6.


V 1  Trikadrukas  (=, ≡) - the two double bond and a triple bond of hydrogen, they regulate the DNA replication.

V 2  the triplet code - the symbol is for the triplet code on the messenger RNA, which carry the message for the Protein translation.

Flying with falcons, may your chariot, Aśvins, most gracious, bringing friendly help, come hither,-

Your chariot, swifter than the mind of mortal, fleet as the wind, three seated, O ye mighty Rig-Veda 1-CXVIII-1

Rigveda1-95-1

V 3  the single chalice to be fourfold – it expresses that the with DNA replication the cell divide in four fold manner.


Hither is come the Ribhu's gift of riches; here was the drinking of the well – Soma pressed Soma. Since by dexterity and skill as craftsman ye made the single chalice to be fourfold

V 4  the genomic chromosome with gametes

V 5  crossing over in the cell

The chromosomal crossing over in the cell is important for the

evolution in the nature, with generation of the two different types of the DNA in the cell body.

V 6  **the two forms of DNA** - two types of the DNA for the synthesis of XX & XY chromosome. The triple bond has been depicted on the arms and the triple bond has been depicted in the middle.

With Trikadrukas, it purifies it self six wide ones verily great one; tristubh, gāyatri, the meters: all those (are) set in Yama Atharvaveda 18-2-6.

The activity of the DNA has been indicated through *Trikadruka* (=, ≡), who represents a triple bond and a double bond of hydrogen, through which the complimentary base pairs are joined with each other. 'The six wide ones' represents the three base pairs.

The chromosomal crossing over leads to evolution of the different gametes, and the synthesis of the Genomic chromosome. Accordingly, the human-species has evolved on the earth.



VI **The omni form (*Visvarupa*)** - the evolution of human species from XX and XY


The bull, the youngling with the hump, hath frolicked, the strong and never-ceasing Calf hath bellowed.


Bringing our offerings to the God's assembly, he moves as Chief in his own dwelling-places Rig-Veda 10-8-2


Rig-Veda 1-188-9

The DNA has been termed as *Tvasta*; he is shaper of all creatures with multiplication. It has been termed as omni form (*Visvarupa*); it means the DNA is universally present in all the living beings.

Rig-Veda 2-23-17.

VI 1  **the genomic chromosome** – the genomic chromosome has all the information for the life.

VI 2  **the gametes** - the formation of the gametes has given the ways for evolution with genetic recombination.

VI 3  **XX & XY chromosome** - the human figures expresses the evolution of male and female from the XX and XY chromosomes and the gametes.

19. Global warming

Global warming is a modern threat for existence of life on the earth, it seems that the earth may have faced this situation earlier too as indicated in the *Atharvaveda* in a lucid manner Ath.10-8..

ॐ

अप्स्वा सीन्मातृरिक्षा प्रविष्टः प्रविष्टा देवाः सुलिलाभ्यासन्।
बृहन् ह' रस्वा र्नसो विमानः पर्वमानो हरित आ विवेश ॥ ४० ॥

ॐ

Atharvaveda 10.8.39

As between heaven-and earth Agni went, burning on, all-consuming, where stood beyond they of one husband - where perchance was mataricvan then ?

अप्स्वा सीन्मातृरिक्षा प्रविष्टः प्रविष्टा देवाः सुलिलाभ्यासन्।
बृहन् ह' रस्वा र्नसो विमानः पर्वमानो हरित आ विवेश ॥ ४० ॥

ॐ

Atharvaveda 10.8.40

Matarisvan was entered into the waters; the gods were entered into the seas; great stood the traverser of space; the purifying one entered into the green ones.

The Vedic seers have drawn the picture of the global warming. It has been indicated that during the period when in between earth and heaven fire go on burning and consuming all. It means due to the global warming, earth and heaven will have no difference. Looking to this a question has been asked? If such a condition will be there, in that condition where will be the

lord of heaven and earth (fundamental energy)? Where will be the *Matarisvan* (CO₂)? It has been expressed here that the lord of heaven and earth (fundamental energy) will be in the mid of space and *Matarisvan* will enter into the water. It means it will be in the dissolved condition, the natural forces will remain in the ocean of the sky. The purifying one will enter in to the green one. It suggests that air purifier (chlorophyll) will be in the dormant condition. As we know that during unfavourable conditions the prokaryotes can form the cyst, they reproduce with the return of favourable conditions. As such after catastrophe the process of evolution will again start similarly as before, with the power of *Gayatri*-fundamental particles (electron, proton and neutron). *The Gayatri* has been described as immortal - *Amrit*. The seer who has the knowledge about the synthesis of the substances, he can explain about the unseen fundamental bond energy, which binds the atoms.

उत्तरिणेव गायत्रीमृतेऽधि वि चुक्रमे।

साम्ना ये सामं सविदुर्जस्तद् ददर्शे क्व ॥४१॥ ॐ

Atharvaveda 10.8.41

Higher, as it were, than the gayatri, upon the immortal (amrita) he strode out; they who knows completely chant with chant-where then was seen the unborn one (aja).

20. Age of the Vedic Culture

As regard the age of the Veda and Vedic culture is there, it has been regarded that Vedic hymns have been formulated around 2000 to 4000 years B.C. The Archaeologists, Historians and Astronomers have different views regarding the age of Vedic hymns and they have no consensus over it. Looking to the depth of the Vedic knowledge in the light of modern science, it seems that the Vedic culture may have flourished on the earth before the ice age and Green house Effect and consequent Global warming had forced them to compile their knowledge in the Vedic hymns.

As per the Hamburg Institute of Meteorology of Max Planck Society, Germany under a project on **Climap** has reported that identical to “Green house Effect” and consequent Global warming had occurred about 18000

years ago and a consequent ice age was there and North America, Europe and Siberia were covered with thick snow cover in between Siberia and Alaska a land bridge was formed through which people were migrated (German News Sept. 89, Page 25).

It shows that excess exploitation of the nature may be the probable cause of the destruction of the Indus Valley Civilization.

Conclusion and result

Indus Valley Vedic Zero to Infinity



Vedic Zero



Indus Valley explores the height of scientific development. The Vedic metaphors on the seals reveal that it was the Vedic culture. The pictographic symbols on the seals are cytological models for teaching; they explore the cellular genetic evolution on the earth with genetic recombination

The decipherment of Indus Valley seals explore that the pictographic inscription on the seals are cytological pictographs at microscopic level. It reveals development of the cellular body in the womb of mother. It is not the script of a language. The life consciousness evolved from pre-existing cells with cell division and genetic recombination from single DNA and cell body.

The human body is a microcosm in side a macrocosm. The human species is highly evolved, which is under the process of mental evolution. To evolve one's own self from animal instincts to human and God like nature, with sacrifice of desire is the aim of life.

Decipherment of Indus Valley seals is most exciting with discovery of DNA 1953 and higgs field 2013. The Indus Valley civilization was scientifically developed and reached at its peak we have received its hoofs of traces as seals and potteries. The symbols on the seals are microscopic cytological pictograms to explain origin of life from single ancestor and genetic recombination with cell division with its text in Vedic hymns.

The decipherment of the seals explore that the seals were prepared for the students for demonstration and teaching and belongs to contemporary Institutes of higher education. With this all seals have been deciphered in chronological order. Each seal is complete in

itself with even one or more inscription and may be used for examination for comment, with its text in Vedas.

The original written language started with images, pictorial diagrams: there was no alphabet but things and movements were presented, that is represented, almost actually. Thus for life bird or figure of man was drawn, that is to say, straight lines sticking out representing hands and legs and a dot for the head; the sun was a circle and so on. As consciousness grew and as the mind developed and reason became active, the images, the figures and the symbols gradually changed into more and more abstract signs. At first there was the pictogram, then the ideogram, and then, at the end, came the alphabet. Evidently, it appears, language could not develop so quickly as the consciousness or the mind did.

The spoken language was probably differed from this dialect of the hymns. Besides the Vedic language is a symbolic coded language, where the words are only indicator of the phenomena. The Sanskrit is only a script to express the words as symbols. With touching their mind and source of symbols, the pictographs can be explained. The key of the Vedic language code is in the modern science, the metaphors are for the teaching through symbolism, and the riddles are for the examination.

The pictographs describe in sequential order from pre-cosmic calm and quiet condition to cosmic dawn with origin of life to evolution of wisdom and thought, and her unseen, formless mighty power to control and run the world as omnipotent, omnipresent, and omniscient with over lord vital energy.

The resonant vibration is the first to appear as ensign of existence, it has evolved with life consciousness and whatever the object has its existence is due to resonant vibration waves, which is complimentary with light spectrum, and cause of existence of every thing. It has evolved into thought and words with evolution of life from immortal DNA.

The human species is at its peak with mental evolution, the vibrations of spiraling waves have evolved into thought and words with origin of life from DNA. The voice is identity of life. The wise men have developed the language and script to express the thoughts in words.

Space Higgs field imparted mass ensign of existence of all

In the beginning rose Hiranyagarbha, born only Lord of all created beings. He fixed and holdeth on this earth and heaven; What God shall we adore with our oblation? (Rig-Veda 10-121-1

HE only is the Sea holder of treasures: born many a time he views the hearts within us. He hides him in the secret bosom. The bird dwells in the middle of the fountain Rig-Veda 10-5-1

The creation has evolved from infinite Sky with creative force of vital fundamental energy. The radiating petals show that the creation and life blossom like flower from the space Higgs field (2013) same has been imagined in the form of primeval man. He is the ruler, painter and architect of the creation with vital energy of life and creation.

Indus Valley Seals; Vedic Zero to Infinity



5000 year old seal from Moenjodaro

The Creator



Dualistic Force of the Creator

The creator has manifested with its dualistic force the dark force was concealed in the darkness prior to cosmic dawn with equal and opposite character, just like two river Vipasha and Shutudri Opposing struggling

Forth from the bosom of the mountains eager as two swift mares with loosened rein contending. Opposing struggling.

Like two bright mother cows who lick their younglings, Vipāś and śutudrī speed down their waters (Rg. 3-33-1)

Vipāś and śutudrī speed down their waters

The thought mentality is flowing like river Vipāś and śutudrī in the ocean of life. Their free flow is checked with life consciousness and birth of infant.

The dark matter was activated by shock waves in pre-cosmic condition. The annihilation of shock waves and dark matter resulted in to photon imbued energy with light and sound.



XX & XY chromosome - the human figures expresses the evolution of male and female from the XX and XY chromosomes from single DNA



The force prior to big bang

Vīṇa resonant vibrations; shock waves draws up his wave from out the ocean; mist-born the fair one's back made apparent (R̥g. 10-123-2)

The resonant shock waves with concentration and compression of dark matter prepared the condition for big bang, and explosion with blast is its first manifestation of sound and light with activation of dark energy.

The sound and resound echo is collision of mysterious dark matter and antimatter shock waves with annihilation, and produced mass less photon imbued with energy in fraction of a second with primary hydrogen and helium, were created in the big bang.

Pre-cosmic condition

Then was not non--existent nor existent: there was no realm of air, no sky beyond. What covered in and where? And what gave shelter? Was water there, unfathomed depth of water? R̥g. 10-129-1

Death was not then, nor was there aught immortal: no sign was there, the day's and night's divider.

That One Thing, breathless, breathed by its own nature: a part from it was nothing what so ever R̥g. 10-129-2

Prior to the origin of cosmos, when neither time nor space was created, it has been expressed *then was not non--existent nor existent*: in this pre cosmic condition, there was only one force, which began to disintegrate from infinite to finite with its back ground in the infinite cosmos. It has been expressed symbolically through breathless, breathed by

its own nature. Accordingly, the creative force manifested with its dualistic force and the forces of nature came in to function with generation of heat energy.

The heat energy is the pioneer energy, which has generated the fundamental particles of the nature. It has been expressed through the words 'great power of warmth' in the pre-cosmic condition, where neither time nor space was born, at that time only deep darkness was there Rg.10-129-3

Darkness there was: at first concealed in darkness this all was in discriminated chaos.

All that existed then was void and form- less: by the great power of Warmth was born that Unit Rg.10-129-3

How the cosmos came in to function? It has been expressed symbolically by darkness concealed in darkness with its dualistic force. Its dualistic force manifested with generation of heat energy as primeval seed of the creation with energy transformation.



Dualistic Force of the Creator



XX & XY chromosome - the human figures expresses the evolution of male and female from the XX and XY chromosomes from single DNA



A body formed for flight hast thou, O charger; swift as the wind in motion is thy spirit.

Thy horns are spread abroad in all directions: they move with restless beat in wildernesses Rg. 1-163-11

The Charger

The DNA has a body for flight in nature. The immortal thought words charged the DNA with the language code of past birth with hereditary characters. Its speed is swift as wind.

Figure 3 The DNA and Life

The bull, the youngling with the hump, hath frolicked, the strong and never-ceasing Calf hath bellowed.

Bringing our offerings to the God's assembly, he moves as Chief in his own dwelling-places yġ-Veda 10-8-2

The universal nature of the DNA has been expressed.



L 7 1

7.1 The horn - the DNA and the life

The Horn is symbolic term for DNA, it has been expressed by four horned buffalo emitted
*Let us declare aloud the name of Ghṛta, and at this sacrifice hold it up with homage. So let the Brahman hear the praise we utter. **This hath the four-horned Buffalo emitted*** (Ṛg. 4-58-2)

Tvaṣṭā the lord hath made all forms and all the cattle of the field: Cause them to multiply for us Ṛg. 1-188-9

The structure of DNA

Four are his horns, three are the feet that bear him; his heads are two, his hands are seven in number. Bound with a triple bond the Steer roars loudly: the mighty God hath entered in to mortals Rig.4-58-3

The four horns - The four horns is a symbolic expression for four bases of DNA, they are universally present in the living-beings,

Three legs - the DNA execute its function with triplet genetic code, the triplet genetic code is just like his three legs for its function.

Two head- The two helix of DNA are just like his two head.

Seven hands- The triplet nucleotide pairs have two hydrogen double bond and a hydrogen triple bond. = it is just like the seven hands for actions.

Triple bond - The DNA replication and synthesis depends on the hydrogen triple bond, it has been explained by saying that 'bounds with the triple bond the DNA roars loudly just like a steer.

The DNA is universally present in the living-beings, they are subject to birth and death, hence it has been expressed that the mighty God-DNA has entered into mortals.

Unicorn

How it all began! The creation has evolved from single ancestor and single cell with genetic recombination, crossing over and cell division from genomic chromosome



A 5000 year old Seal on Granite stone at Moenjodaro



Single ancestor

The life has evolved from single DNA, the cell division leads to evolution with genetic recombination and crossing over of genomic chromosome with DNA replication in fourfold manner.



DNA replication and pair of chromosome - Saranyu deserted twins *Atharvaveda* 18-2- 33



Genomic chromosome



Crossing over



Cell body



cell division leads to evolution

Unicorn

Unicorn is symbol of single ancestor

How it all began! The creation has evolved from single ancestor and single cell with genetic recombination, crossing over and cell division from genomic chromosome

Indus Valley Cytology

Pictographic Decipherment of Indus Valley Seals

The origin and evolution of the creation from a fundamental energy has been described in *Purusa sūkta*, where the fundamental energy has been imagined symbolically in the form of a man. The fundamental energy is universally present every where. Figure 1



The life on the earth is a natural process of evolution and is supported by the three important factors. The - ozone layer in the mid atmosphere, the water on the earth, the activity of the sun with conversion of hydrogen into helium. Figure 7
The first life has originated in water. The beginning of the photosynthesis with recombination of the genetic material has opened the door for the organic evolution on the earth. Figure 4, 5

Pictographic Cell Biology

1. Pre biotic Origin of life with formation of Coaservate



Fig. no. 19. Joint Expedition of the American School of Egypt and Iranian Studies and the Museum of Fine Arts, 1935-1936 © 1937 Museum of Fine Arts, Boston

1.



Coaservate 2. The eukaryotic cell



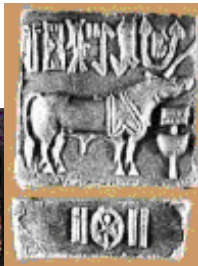
3. Cell & cell

division 1st and 2nd div.



2. Stages in the Cell division

4.



1. Stages in the Cell division – 1.



Mitotic Metaphase stage 2.



Meiotic

crossing over

3.



Syanpsis formation during crossing over

3. De oxy ribose Nucleic Acid - DNA replication


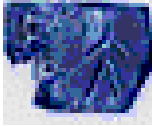


4. De oxy ribose Nucleic Acid - DNA replication







DNA replication 5.






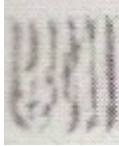
Recombinant DNA

6.   Synthesis of chromosome from DNA 7.   DNA packaging



4. Light of Life – DNA, Nucleotide pairs on DNA

1.   2. **Complimentary base pairs**  3.  Double and Triple bond of Hydrogen

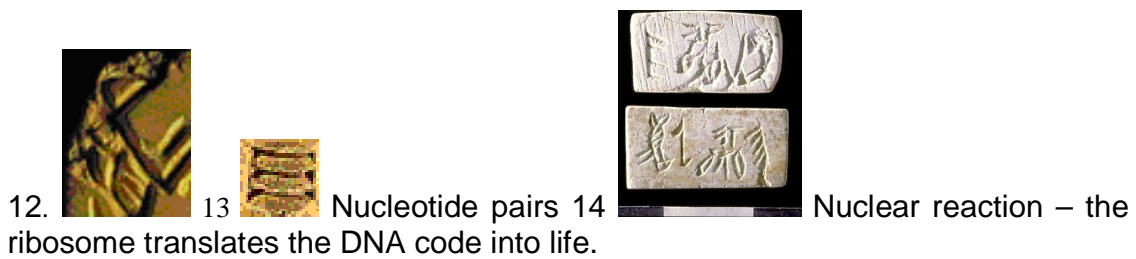
Light of Life – the nucleotide pairs on the DNA showing the position of hydrogen Triple and double bond  triplet code 

4.   Conservative, Semi conservative and Dispersive models of DNA replication.

5.DNA replication & insertion of gene

10.   DNA replication and insertion of gene 11.  genomic chromosome

6. Nucleic Acid components, Nuclear Reaction in series and Protein translation



The seals have been prepared for demonstration and teaching. The *Ṛsis* in the beginning of Vedic hymns have traced origin and evolution of the creation in a symbolic way from the fundamental energy Primeval Man. It is an essential part of the teaching to start the subject from its original source and gradually enter into the depth of the subject. Accordingly, the way of expression and knowledge is the same but with different metaphors, which lead to the depth of subject concern with praise prayers in the background, where words indicate the phenomenon at micro level.

All seer *Ṛsis* have used the same terminology of the deities with different metaphoric expressions, indicating the origin of solar system and sun as the main source of energy. The metaphors will look like 'headless and footless', without the concern knowledge with reference to the context. They have expressed the origin of the creation and nature from the fundamental energy with its dualistic force of photon phonon interaction.

The generation of charged particles is the first step. Accordingly the solar system, from nebula came into the existence with photon-phonon interaction. The earth became the centre for the origin of life. The formation of the atmospheric layers, generation of ions in the ionosphere and formation of ozone layer in the atmosphere are the essential factor for the origin of life.

The white visible-light with its complimentary resonant seven rays lead the formation of atom have constituted the base of creation. The generation of the magnetic energy in the atom and electromagnetic bond energy is the main cause of creation. The major elements of the creation are Carbon, Hydrogen and Oxygen. They have been termed, as *Mātriśva*, *Paymān*, and *Indu* respectively. The nature feed the creation just like mother, under the nature and the natural forces.

The white visible light with Red wavelength has got the entry into the earth's atmosphere through ozone layer. With time carbon dioxide and water with the help of *Bhṛgu* (chlorophyll) converted the Red wavelength of light into the chemical-energy. The *Asvins*- nucleotide pairs of DNA stimulated the process of evolution. The DNA with four bases is a universal genetic material. It is the base of living-beings with generation of life energy in the primitive prokaryotic cell.

They have summarizes the thoughts, with focus on the single unified force as the creator with its dualistic force. The atom is the building block of the creation, the DNA with four base is the building block of the living-beings, the life energy, the chemical energy of

photosynthesis, the electromagnetic bond energy, with impact of Vāc- thought energy are playing, their role under the cosmic principles with photon-phonon interaction.

These thoughts have been woven in the metaphors, so as to teach the students to acquaint them with phenomena and reactions in the nature at micro level. Just like a teacher teach to his students and examine them with asking answers of the riddles. It is the theme of the hymns, which move forward gradually into the depth of the subject concern.

As reflected in the book four Ṛṣi scientist Vamdeo son of Gotam belongs to school of Biology, where he has traced the origin and evolution of the creation with reference to the origin of life and consciousness, and gone into the depth of biology, exploring the Ṛbhu as celestial race.

Similarly the Ṛṣi Dirghatamas belongs to the school of cosmic science. He has traced the origin and evolution of the creation with reference to the solar system and seasonal variation in the system, and how the system is working. He has described it in the book one from hymns 150 to 175.

The scientific facts, which have been revealed in the Vedic hymns, are in tune with the modern science at present. The higher Vedic knowledge, just like, the consciousness, the role of thought energy in life, the words and pictures are thought stimulators, they stimulate the language of DNA. These facts are waiting for the establishment in the modern science. Hence to interpret Vedic hymns one must have interdisciplinary approach with knowledge of the creation system.

Let us with tuneful skill proclaim these generations of the Gods, that one may see them when these hymns are chanted in a future age. Rg.10-72 1

The question has been raised in the beginning of the hymn Ṛig. 164-4 Who hath beheld him as he sprang to being, seen how the boneless One supports the bony?

After going in to the depth of the subject the seer has expressed his thoughts that whatever enquiry we have done is experimental only, who can say exactly that from where the creation came into the existence. He the first origin of the creation (single unified force-fundamental energy) whether he formed it or did not form it, he control the creation, he verily knows it, or perhaps he knows not.

क॒नो अ॒द्भ॒ता॒ वै॒द॒ क इ॒ह॒ ग॒ वो॒च॒त्कु॒न्त॒ आ॒जा॒ता॒ कु॒न्त॒ इ॒यं॒ वि॒सृ॒ष्टिः॑।
अ॒वा॒ग्दे॒वा अ॒स्य॒ वि॒सृ॒ज॒ने॒ना॒था॒ क॒नो॒ वै॒द॒ य॒त॒ आ॒ब॒भू॒व॑॥६॥

Who verily knows and who can here declare it, whence it was born and whence comes this creation?

The Gods are later than this world's production. Who knows then whence it first came into being? 6

इ॒यं॒ वि॒सृ॒ष्टि॒र्य॒त॒ आ॒ब॒भू॒व॒ य॒दि॒ वा॒ द॒ध्ने॒ य॒दि॒ वा॒ न॑।
यो॒ अ॒स्या॒ध्व॒क्षः॒ पर॒मे॒ व्यो॒म॒न्त्सो॒ अ॒ङ्ग॒ वै॒द॒ य॒दि॒ वा॒ न॒ वे॒द॑॥७॥

He, the first origin of this creation, whether he formed it all or did not form it, Whose eye controls this world in highest heaven, he verily knows it, or perhaps he knows not. Rg.10-129-7

Prof. Chandra P. Trivedi



Prof. Chandra P Trivedi Professor with incredible amount of experience as professor, researcher and Principal of lead college, Bhind and Ratlam under Jeewaji University, Gwalior, and Vikram University, Ujjain respectively. As an academician author of more than 10 books, his books and work has been published in many leading papers of the subcontinent and books from India and Germany. He is former senior fellow, Department of culture, Govt. of India, Associate IAS, Shimla. As a Professor and Scientist, he has gone into the depth of Yoga, Meditation, Spiritualism and Vedas at Vedic Research Institute, Ratlam. He is among original thinker with innovative approach to solve the national problem. **He explored India's glorious past with answer of Einstein's Grand Unified Force.** As an academician, *Vedic Scientists and professor, he has first time crack the Vedic code with oldest un-deciphered symbols of the world 'Advanced gene technology'.* Going ahead Prof. Trivedi has given the answer of modern problems related with origin of life consciousness and Higgs field 2013.

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