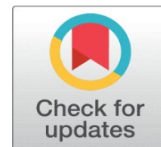


ADVANCED PANSPERMIA ORIGIN OF LIFE

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ABSTRACT

The proposed hypothesis of 'Advanced Panspermia Origin of Life' addresses the two critical areas of advanced complex life of Cambrian explosion and the development of even more complex and intricate Human Brain on earth. The hypothesis explains the plausible mechanism of connecting the inorganic chemistry available to us in the universe and that life arose from it as an emergent property of matter. While 'Origin of Life' is critical to 'Evolution' itself, the mechanism of transformation of protocells into living cells in origin with information encoded DNA is even more critical to both 'Origin' and 'Evolution'. This compels one to turn to religion (Not 'God of the Gaps') that stands on solid foundation of science which describes the present hypothesis as the study based on the interaction of electromagnetism with matter. Proto cells are plausibly transformed into 'living cells' with the manifestation of soul/spirit (vibration) with specific frequency of each of the species.

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1. INTRODUCTION

Highlights

- Electromagnetism is the main criterion for encoding of DNA with information during origin of the cell, conserving and decoding in evolution.
- Solar disturbances and their particle emissions are the most probable link between biological and extra-terrestrial events.
- Mechanisms involved in the advanced panspermia origin of the first living cell and its subsequent evolution on earth are not different.
- Advanced complex life of Cambrian explosion and the development of even more complex and intricate Human Brain on Earth support Advanced Panspermia Origin of Life

The question of how life began is one of the most profound in science wherein origin of information is the central question which is critical to evolution itself. Although many theories exist, scientists still cannot agree on an answer. It continues to be a topic for debate, as understanding life's origin would help us grasp our place in the universe, as well as guiding our search for extra-terrestrial life. Though the opinion of Scientists about the solution to this problem is far



more than an object of abstract religious or philosophical discussion, Hinduism vehemently disputes it. Of all the Religions of the world, Hindu Religion is unique in that its Vedic Literature runs into a huge library classified under two heads, namely, Para Vidya (Intuitive Knowledge of Transcendental Consciousness and Liberation of Soul) and 'Apara Vidya' (Intellectual Knowledge) have modern science latent in it described in metaphorical language. Particularly, the six Vedāngas 'Jyotish', one of the six Vedāngas, is built on the principle of interaction of Electromagnetism (Sunlight) with matter (the 27 Lunar Constellations) describes sunlight as the main criterion for origin, 'Encoding' of DNA and evolution of life with Decoding of DNA [YVS \(2021\)](#).

"Vedic Literature is times immemorial is in 'Sanskrit' Language. Sanskrit is called 'deva bhasha', divine language. Sanskrit letters are called 'akshara' (imperishable). Every Sanskrit word has a specific energy, vibration, attached to it. passed on from teacher to student. When they are pronounced, they are not created; they become manifest. It is from the sound of these letters that the world was created. The word "AUM" has a frequency of 432 Hz and is made up of three Sanskrit syllables and is the primordial sound, existing from the beginning of time. It is believed that every other sound comes from these three sounds, A-U-M, sort of how all colours are derived from the three primary colours of red, yellow, and blue. AUM is the universal sound — the sound of the cosmos.

Vedāngas are six auxiliary disciplines associated with the study and understanding of the Vedas. Vedāngas literally mean the limbs of the Vedas. ... The six Vedāngas are Siksha, Chhandas, Vyākaraṇa, Nirukta, Jyotisha and Kalpa. They mean Shiksha = Phonetics, Vyākaraṇa = Grammar, Chhandas = Vedic Metre, Nirukta = Etymology, Explanation, Kalpa = Ritual Canon, and Jyotishya = Astronomy and Astrology [Figure 1](#).

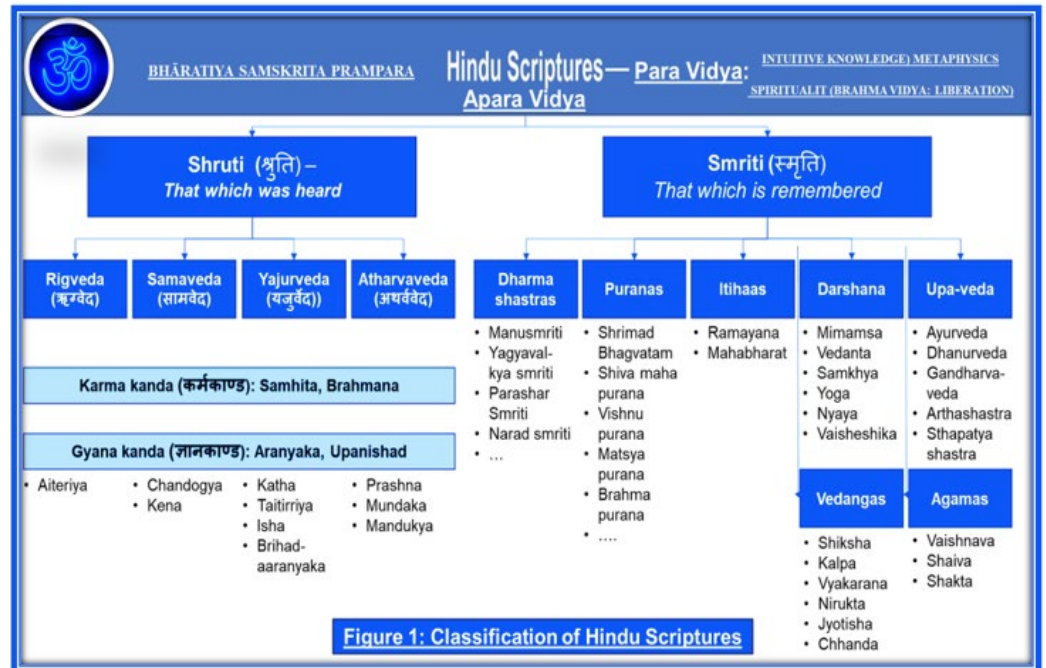


Figure 1 Classification of Hindu Scriptures

1.1. SCIENCE VERSUS RELIGION

Normally, science and religion do not contradict each other for they are both great; in that, they both endeavour for truth. At one stage, religion says to science

“thus far and no further” from when on it is through intuition that further knowledge of non-living transformed into living. The present study disproves the misconception that ‘Religion sans Science’ by discussing Hinduism particularly ‘Jyoti’s’, which is a unique religion pertaining to panspermia origin of life besides life itself and later evolution of life and proliferation on Earth of all life living on it [YVS \(2019\)](#).

The relationship between religion and science is the subject of continued debate in philosophy and theology. Origin of life is the toughest problem in science where even Darwin’s Theory of Evolution and ‘Natural Selection’ is half-heartedly adapted in science in the absence of an alternate a more viable theory. Truly, even when all reasonable chemical experiments run to discover a probable origin for life have failed unequivocally, there is no need for scientists to turn to ‘Religion’ for an answer is possibly a misconception especially when the literature is based on solid scientific foundation, particularly ‘Jyoti’s’, a Vedānga, an ancillary of the Vedas.

From the viewpoint of the philosophy of science, any number of theories may be shown not to work, but to say it follows that no theory can work is just bad in science. It totally rules out scientific method. So, having examined the arguments that supposedly disproved ‘Jyoti’s’ (astrology) as unscientific - a form of rationalized bigotry cloaked in academic language [Percy Seymour \(1997\)](#). ‘Jyotish’ (astrology) is the study of the interaction of Electromagnetism with matter in the ‘Panspermia Origin of Life’ and its effect on the planet earth and all life living on it in ‘Evolution’ [YVS \(2021\)](#).

1.2. STALWARTS OF SCIENCE AND TECHNOLOGY ON HINDUISM

Many great scientists of our age, Sir Arthur Holmes Albert Einstein, Carl Sagan and a few others have applauded the ancient Hindus for their uncanny ability and their excellence in all subjects that afforded the largest field for abstraction and contemplation.

"Some future day may yet arrive when all reasonable chemical experiments run to discover a probable origin for life have failed unequivocally. Further, new geological evidence may indicate a sudden appearance of life on the earth. Finally, we may have explored the universe and found no trace of life, or processes leading to life, elsewhere. In such a case, some scientists might choose to turn to religion for an answer. Others, however, myself included, would attempt to sort out the surviving less probable scientific explanations in the hope of selecting one that was still more likely than the remainder." (Robert Shapiro, *Origins: A Sceptic’s Guide to the Origin of Life*, page 130 [Robert Shapiro \(1986\)](#)).

In contradistinction to the statement of Robert Shapiro, any scientist can rightly search religion for an answer for a reasonable scientific explanation of origin of life as long as that religion is based on firm foundation of science in all its aspects. Hinduism is acknowledged by many great stalwarts of science as the greatest of all religion and has roots of Modern Science evident from their original assertions.

Carl Sagan (1934-1996), Cosmologist and a famous Astrophysicist, states that the existence of the Universe is cyclical with the number of deaths and rebirths and its timescales are longer than the age of the earth or the sun about half the time since ‘Big Bang’ Carl Sagan and Fritj of Capra (1975) noted similarities between the universe age and the Hindu concept of one day duration of Brahma, the Creator [Carl and Fritjof \(1975\)](#), [Frifjof Capra \(1975\)](#).

The famous scientist, J B S Haldane, who gave up his British citizenship and became an Indian and settled in Calcutta, observed that the Dasāvātāras (Ten Incarnations of the Lord Vishnu) are a true sequential depiction of the great unfolding of evolution [Debasis, B. \(2012\)](#) long before Dawin's Theory of Evolution.

Stuart J. Inglis, in his book 'Planets, Stars, and Galaxies', wrote that Hindus developed a calendar that includes periods of time up to 4.32 billion years. This, interestingly enough, is about the age of the Earth. This is corroborated by the branch of Nuclear Physics from the half-life of the Uranium 238 – Lead 206 process involving a time of 4.5 billion years [Stuart \(1962\)](#).

Professor Arthur Holmes (1895-1965) Geologist, Professor at the University of Durham wrote in his great book, 'The Age of Earth', applauded the ancient Hindus about the precision of the calculation of the age of the earth and the entire universe in their sacred book 'Manusmriti' (source: Hinduism and Scientific Quest - By T. R. [Holmes \(1890\)](#)).

Alan Watts, a professor, graduate school dean and research fellow of Harvard University, wrote in his several books that the 'Theory of Relativity' is well known to the Hindus practising new states of consciousness and who know the time in billions and 'kalpas' (source: Spiritual Practices of India - By Frederic Spiegelberg Introduction by Alan Watts p. 8-9) [Frederic \(n.d.\)](#).

Dick Teresi, author, and co-author of several books about science and technology, including The God Particle, cofounder of Omni magazine and The Atlantic Monthly credited the Indian Cosmologists as the first to mention the correct age of the earth, the births and deaths of the universe and were knowing even Quantum and Nuclear Physics (source: Lost Discoveries: The Ancient Roots of Modern Science - By Dick Teresi p. 159 and 174 -212). [Dick \(n.d.\)](#).

Thus, in Hinduism, science and religion are not opposed fundamentally but are seen as parts of the same great search for truth and enlightenment that inspired the sages of Hinduism.

2. THE MYSTERY

DNA cannot be explained in terms of physics or chemistry by its very nature as a code: When Sagan says, "All organisms on Earth use a type of molecule called a nucleic acid to encode hereditary information and to reproduce it in the next generation," he is referring to the central question of origins: "All organisms on Earth use the identical code book for translating nucleic acid language into protein language, eventually giving rise to modern cellular life." Code is required for replication and survival. For cells to have instructions on how to build themselves, code is required; code is also required for reproduction. For any form of evolution to take place, code that can rewrite itself is required. So, where did DNA's information come from? This is one of the most significant and valuable questions in science's history. No one knows the answer right now. A solution to this challenge could be one of the most important scientific and technological breakthroughs of the twenty-first century, with far-reaching ramifications for medicine, technology, and the environment.

Every cell replicates itself based on DNA instructions. How can cells "know" which way to go when it comes to evolution? Life, on the other hand, is constantly adapting. How does it accomplish this? What are the things that cells know that we don't? And what about awareness? Only aware creatures may generate and alter code in the human domain. What is the origin of consciousness? Is it possible for cells to be self-aware? What information can we glean from chemicals? An RNA-based genesis of life experiment, for example, will be regarded successful if it

includes a message and a mechanism to respond. Have the laws of physics been harnessed by life? With the exception of Hindu religion, there are undiscovered emergent qualities in nature to science.

How did the genetic code (or any other coding scheme) emerge? This would be a watershed moment in scientific history, altering our fundamental knowledge of the universe. All of these factors are discussed in depth in this research. All aspects of the creation of life from inorganic chemistry available to us in the cosmos that turned non-living biological molecules into alive molecules and encoded DNA with the manifestation of 'Soul/Spirit' are explained in this study. This study delves into the enigma of life's origins, based on the solid belief that everything in the cosmos is vibration, frequency, and energy.

3. CAMBRIAN EXPLOSION

Only 'Advanced Panspermia Origin of Life' can address the two critical areas of advanced complex life of Cambrian explosion and the development of even more complex and intricate Human Brain on earth in the light of Darwin's Theory of Evolution which is moved from a pivotal role in origin and evolution of life to an outcast from mainstream thinking with developments in molecular and cell biology. Phyla of different groups of animals such as vertebrates, arachnids, and molluscs of the animal kingdom erupted unexpectedly around 540 million years ago, during the 20-million-year Cambrian explosion, and they did not appear in sequence from simple to more complex forms, but almost simultaneously. In geological terms, the Cambrian explosion was quick, and it was sparked by a variety of reasons. The fundamental issue is that 'Natural Selection' is a gradual accumulation of changes, whereas a new phylum, such as the Cambrian explosion, came quickly. According to 'Natural Selection,' it should take longer than the development of a new class, order, family, genus, or species, but the unexpected advent of high-level complexity in creatures with no predecessors may indicate atypical evolutionary mechanisms. As a result, such developments could have been caused only by the mechanism of advanced panspermia. The Cambrian explosion, as well as the origin and evolution of new species, is supported by the fact that a detailed examination of the Geological Time Scale exposes the importance of climatic variations caused by the 5:2 orbital resonance of the huge planetary pair Jupiter and Saturn in Panspermia. Origin of new species' cells [Douglas Fox \(2016\)](#).

3.1. HUMAN BRAIN

Concerning consciousness, it is well known that the genetic makeup of the human brain has remained same for the previous 6000 years, yet we do see substantial changes in human thought and consciousness, such as concern for the environment, climate change, and the future of the Earth. This demonstrates that the human brain has a role that allows for ongoing development without relying on genetic or evolutionary factors. Today's Earth is a considerably more complex phenomena than anyone could have envisaged. Without a doubt, the human brain, the most sophisticated organ on the planet, is to blame for the occurrence. This is not the result of any extra-terrestrial technique.

While the core genetic makeup of the human brain has remained constant, we have seen great advancements in human thinking and consciousness, with intelligence ranging from less intelligent to 'intelligence square.' This diversity in IQ is likely due to the use of so-called "junk DNA," which, according to new studies, is no longer deemed "junk." All humans have functional DNA, but the development of

human thought and consciousness, such as concern for the environment, climate change, and the future of the Earth, is likely tied to the use of 'junk DNA.' According to recent studies, the heart transmits more impulses to the brain than the brain transmits to the heart. These heart impulses also have an impact on brain function, regulating emotional processing as well as higher cognitive functions like attention, perception, memory, and problem-solving. Large swaths of the human genome that were formerly thought to be useless trash now work to keep our thinking and consciousness, as well as our intelligence, alive. In other words, the heart not only responds to the brain, but the brain also responds to the heart on a constant basis. Rollin Mc Craty (2003) demonstrates in his study "The Energetic Heart" that the heart, like the brain, generates a tremendous electromagnetic field. "The heart produces the body's biggest electromagnetic field. The electrical field measured by an electrocardiogram (ECG) has around 60 times the amplitude of brain waves recorded by an electroencephalogram (EEG)" (Rollin McCraty and Dana Tomasino, 2014) [McCraty et al. \(2003\)](#).

Humans, with irreducible sophisticated organs that are fundamentally tuned to the Earth's inherent harmonic frequency, arrived last and evolved all across the world, remaining unique from all other species. The earth's frequency of 7.83 Hz appears to have matched the typical alpha frequency of the human brain. It is beyond comprehension how any method other than the one outlined could be used to implement this design in humans. The magnetosphere of Earth comprises a wide variety of frequencies, with each planet's magnetic variance. The organism's neural network functions as an antenna, and the genetic predisposition responds to specific magnetic signals from the Earth's fluctuating magnetic field.

3.2. LIFE TRANSCENDING PHYSICS AND CHEMISTRY

The process of manufacturing protocells and the mechanism of transformation of proto cells into living cells in with encoded DNA and finally transportation of living organism to earth for evolution are all discussed in this paper leading to 'Panspermia Origin of Life' which gained momentum recently over all the other theories in the light of evidence of all life building blocks, including key molecules of sugar, discovered in meteorites. The mechanism of 'Panspermia Origin of Life' ought not be different from the mechanism for evolution for it to be true. 'Panspermia Origin of Life' provides an alternate and more viable theory of evolution in contradistinction to strictly geocentric 'Darwin's Theory of Evolution and Natural Selection'. Carl Sagan claims that the panspermia origin of life is "in some ways simple" because it is based on physical and chemical rules, which is a crucial point to consider when considering extra-terrestrial life.

4. STARS IN THE ORIGIN OF LIFE

Stars give out specific chemical elements during their life cycles. Stars are the source of all the inorganic elements of the periodic table. Thus, the inorganic chemistry is available to us in the universe; and it is transformed into biological molecules under abiotic conditions [Rao \(2021\)](#). This is evidenced by the fact of their presence discovered in meteorites [Rao \(2021\)](#). The nitrogen in our DNA, the calcium in our teeth, the iron in our blood, and the carbon in our apple pies were all created in the interiors of falling stars, according to Carl Sagan. We're made of the material that stars are made of. The search for life in space just got a little sweeter. In the early solar system, ice grains hit by sunlight may have formed sugar molecules on their surfaces, according to a new experiment [Meinert et al. \(2016\)](#). Those sugars include ribose: the backbone of RNA, which is implicated in the origin of life. All

known life makes at least some use of RNA as a genetic material, and as the “R” in RNA, ribose holds up the compounds that encode genetic messages. Other components of living cells, such as amino acids, which are the building blocks of proteins, have shown up in experiments and samples from meteorites for years. So, have molecules that resemble cell membranes. If they and ribose had all existed at the same time, it could have set the stage for life to evolve.

Almost all chemical elements were created by nucleosynthetic processes in various types of stars over the course of our cosmic history and are now available to us as readymade kits in space for the panspermia creation of life. The origin of phosphorous, for example, is of great interest because it is recognised to be vital for life. Phosphorus is the least common of the five elements in the Solar System. Mars has a higher quantity of volatile phosphorus than Earth. Phosphorus is needed to make the building blocks of life, such as DNA, ATP, and lipids. The progenitors of 15 phosphorus-rich stars were recently discovered to have unusually high levels of O, Mg, Si, Al, and Ce. [Masseron et al. \(2020\)](#).

5. BUILDING BLOCKS OF LIFE IN METEORITES MAY LEAD TO PANSPERMIA ORIGIN OF LIFE

Meteorites provide a record of the chemical processes that occurred in the early solar system. Key Molecules of RNA and tiny life forms discovered in Meteorites suggests ‘Panspermia Origin of Life’. The discovery of Hexamethylenetetramine-Methanol (HMT) in space, which creates formaldehyde and ammonia, found in meteorites, could be the result of HMT breaking down, which leads to the production of other key biological molecules such as amino acids [Yasuhiro et al. \(2020\)](#), [Yasuhiro et al. \(2020\)](#), [Christopher et al. \(2020\)](#). NASA discovered crucial building components for chemical compounds [Callahan \(2011\)](#). Ribose has been discovered in meteorites (a sugar that is required for life).

The first direct evidence of ribose, a critical component of RNA, in space (ribonucleic acid). functions as a messenger molecule, copying genetic instructions from the DNA molecule (deoxyribonucleic acid) and transferring them to ribosomes, which read the RNA and produce specific proteins needed to carry out life processes within the cell. [Bill Steigerwald, Nancy Jones \(2019\)](#).

All physiologically essential substances identified in meteorites, including amino acids (protein components) and nucleobases (DNA and RNA components), support the theory that chemical reactions in asteroids, the parent bodies of many meteorites, might produce some of life's ingredients. Sugars, on the other hand, have long been a missing component of life's major building blocks. It is incorrect to assume that meteorite bombardment on ancient Earth provided a supply of life's building blocks to aid the genesis of life. Rather, it is important to realise that nearly all life building blocks detected in meteorites were generated extra terrestrially, leading to Panspermia Origin of Life. The first direct evidence of ribose, a critical component of RNA, in space (ribonucleic acid). In many aspects of modern life, RNA acts as a messenger molecule, transferring genetic instructions from the DNA molecule (deoxyribonucleic acid) and delivering them to ribosomes, which read the RNA and produce specific proteins needed to carry out life activities. An enduring mystery regarding the origin of life is how biology could have arisen from non-biological chemical processes. DNA is the template for life, carrying the instructions for how to build and operate a living organism. However, RNA also carries information, and many researchers think it evolved first and was later replaced by DNA. This is because RNA molecules have capabilities that DNA lacks. RNA can make copies of itself without “help” from other molecules, and it can also initiate or speed

up chemical reactions as a catalyst. The new work gives some evidence to support the possibility that RNA coordinated the machinery of life before DNA. Hinduism defined meteorites as souls of enlightened persons brought to earth to be reborn [Rao \(2020\)](#). Experiments on amino acids etc., have only indicated the frame that would be necessary to hold life but not its cause, i.e., the spirit. The identification of the spirit and its role in the origin of life is the prime contribution of ancient Indian thought.

6. DNA

Human DNA Replicates the Solar System [Rao \(2021\)](#). Human DNA plausibly holds a relationship between the molecular weights of individual bases of DNA Bonds and the mass of planets, between the bonding of the DNA base pairs [Tony \(2001\)](#) and the empathy of planets and between the DNA Bonds. The 'genomic DNA', the famous molecule of heredity is also observed to probably bear an identical relationship with the planetary configurations in the zodiac [Rao \(2017\)](#), Gauquelin himself noted that periods of violent solar activity corresponded with enhanced planetary heredity results. [Michel and Planetary \(1988\)](#). To differentiate one person from the other, 3×10^6 DNA entries are required. Similarly, the number of charts of planetary configurations that would result with the 7 main entities or celestial bodies of solar system, namely, the Sun, Mercury, Venus, Moon, Mars, Jupiter, and Saturn as the cosmic counterparts of DNA, each with a degree of freedom to occupy any of the 12 signs of the zodiac are identical, i.e., $12^6 = 3 \times 10^6$ [Rao \(2017\)](#). DNA, the most important molecule of heredity, consists of two parts, namely, the 'Genetic DNA' and the 'Morphological DNA. Periods of violent solar activity enhances planetary heredity results, and it depends on which planets are involved. The Genetic DNA in the cell is tuned accordingly.

6.1. COSMIC COUNTERPARTS OF DNA AND HEREDITY

Horoscopy proves heredity and serves as a forensic tool in disputes of paternity and maternity as striking planetary similarities are observed for parents and their children of their respective birth times similar to matching bands in DNA Fingerprinting establishing heredity [Rao \(2017\)](#). The imprinting of the neural antennae of the living cell depends on genetic heredity in origin.

More importantly, a relationship between the composition of 'morphological DNA' with the Sun and Moon (Earth's Satellite) being the central planets of heliocentric and geocentric models respectively is also being observed. The frequency of morphological DNA in resonance with the frequency of solar magnetic canals plausibly result in coding of DNA in the panspermia origin of life [Savelev and Myakishev-Rempel \(2020\)](#) and decoding the same in evolution on earth when magnetic memory signals Inter Planetary Magnetic Field (IMF) are echoed in evolution [Percy S \(1997\)](#), [Christopher Harwood \(2009\)](#). All known life makes at least some use of RNA as a genetic material, and as the "R" in RNA, ribose holds up the compounds that encode genetic messages with the manifestation of the soul (vibration from the Sun) making protocells into living cells for all biological activity in origin. According to Percy Seymour, periods of violent solar activity enhance planetary heredity results and it depends on which planets are involved. The Genetic DNA in the cell is plausibly tuned accordingly.

The most likely link between biological and extra-terrestrial phenomena is solar disturbances and associated particle emissions [Eysenck et al. \(1982\)](#). For each planet, the existence of a daily planetary magnetic variation is different. Mercury and Venus, it appears, are the planets that first play a part in the solar cycle by

causing high solar activity. They're followed by Venus and Earth, then Earth and Mars, and so on, all the way to the outer planets. Jupiter and Saturn have larger tides than the other planets due to their size and proximity to the Sun. Late in the solar cycle, Jupiter and Saturn play a large influence, while the inner planets play an essential role early in the cycle. This is due to the fact that the canals' development and braiding produce a stronger magnetic field. The live cell in genesis picks up distinct magnetic songs from the solar symphony at different phases of development, which subsequently constitute part of our earliest memories in evolution. When comparable magnetic tunes are repeated in evolution [Percy \(1997\)](#), these preprogrammed magnetic memories may be reactivated later in life. Experiments on amino acids etc., have only indicated the frame that would be necessary to hold life but not its cause, i.e., the spirit. The identification of the spirit and its role in the origin of life is the prime contribution of ancient Indian thought which should not be lost sight of.

6.2. PROTEIN VIBRATIONS

The whole universe is full of vibration, frequency, and energy. Our universe vibrates at 432Hz, the Vedic chant AUM frequency is 432Hz, frequency of the Sun is 126Hz, The Age of the Earth 4.32 billion years, Total Lunar Constellations are 27 and our Earth vibrates at 7.83Hz known as Schumann Resonance and the human heart beats 72/sec., i.e., 1.2Hz the sum of the digits of each of these vibrations is '9', the secret code of the universe of Tesla, namely 3 6 9. Like the strings on a violin or the pipes of an organ, the proteins in the human body vibrate in different pattern. A new study provides what researchers say is the first conclusive evidence that this is true.

These tiny motions enable proteins to change shape quickly so they can readily bind to other proteins, a process that is necessary for the body to perform critical biological functions like absorbing oxygen, repairing cells, and replicating DNA. The actual structural mechanisms behind these biological processes and how they are controlled in the cellular system is just amazing of a cell as a little machine that does lots of different things — it senses, it makes more of itself, it reads and replicates DNA, and for all of these things to occur, proteins have to vibrate and interact with one another. The research opens the door to a whole new way of studying the basic cellular processes that enable life [Acbas et al. \(2014\)](#), [Figure 2](#). [Markelz et al. \(2014\)](#).

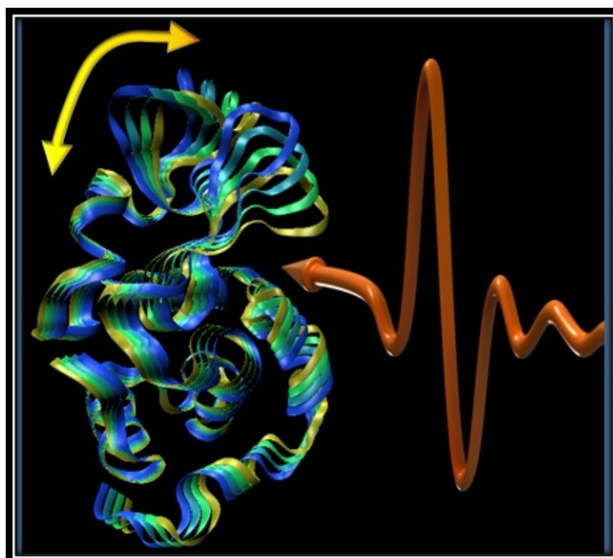


Figure 2 Rendering of a Vibrating Protein. Credit: Andrea Markelz and Katherine Niessen

7. TRANSFORMATION OF PROTOCELLS INTO LIVING CELLS

There is no difference in material between the living and non-living. In the living, there is vibration (frequency) and energy whereas these are absent in the non-living. The human heart beats 72 times per second. The frequency of the human heart is 1.2Hz. The inorganic molecules are transformed into life building blocks of the cell under abiotic conditions during the early stages of formation of the solar system. The origin of the RNA and DNA due to the vibration of the morphological DNA in resonance with the solar magnetic canal's vibration transforms the protocell into a living cell with the vibration of proteins which process is called the manifestation of the soul in the cell. Soul/Spirit is also vibration. Recent research hint that in people with cardiac arrest, the brain and consciousness seem to work and may take considerable time to complete brain death after the heart has stopped [Parnia et al. \(1986\)](#). Death can therefore be defined as the death of this vibration of the heart and 'α' - wave of the brain. In 'Jyotish', a Vedānga, the Sun is the significator of father (Pitrukāraka) as well as Soul (Atmakāraka) which incidentally signifies the male, 'Y' - chromosome [Rao \(2021\)](#). There are distinct similarities of relationship found in the charts of the parents and male children pertaining to the placement of the Sun signifying genetic heredity.

Thus, each of the species originated with a specific frequency in resonance to the 'Planetary Heredity' during intense solar activity.

8. HUMAN FEMALE MENSTRUAL CYCLE

Female humans have an internal menstrual cycle rhythmicity that helps them anticipate and adapt to the regular rhythm of the Lunar Month and intensity of Moon Light. Female human' menstrual cycle adapts their physiology and biological rhythm so that it is synchronised with the Moon's rotations and its phases both of which holds a plausible relationship in duration of their phases and in the volume of intensity of moonlight due to waxing or waning. with that of the thickening or dissolution of the endometrium besides the growth of one single large egg cell for fertilisation; and in the absence of fertilisation bring about dissolution. Thus, deciphering of female human menstrual cycle rhythmicity leading to the plausible pregnancy is a cosmic process due to combined effect of Interplanetary Magnetic Field (IMF) and Geomagnetic Field (GMF). Every cell replicates itself based on DNA instructions. Thus, the cells accomplish this as they "know" which way to go when it comes to evolution. Life is constantly adapting.

Humans and most other mammals have two sex chromosomes, the 'X' and the 'Y'. Females have two 'X' chromosomes in their cells, while males have both 'X' and a 'Y' chromosome in their cells. Egg cells all contain an 'X' chromosome, while sperm cells contain an X or Y chromosome. Varāhamihira (520 AD) in his Brihat Jātaka (Jyotisha) states that Moon and Mars signifying Female and Male genders respectively cause Human Female Menstrual cycle once in every lunar month [Sastry \(1995\)](#) it is evidenced by the fact that human female menstrual phases coincide with the phases of the waxing and waning of the moon and lunar magnetism [Rao \(2019\)](#). The sidereal motion of the Moon of synchronous rotation with the Earth once around its axis in 27 days also faces our two closest planetary neighbours, Venus and Mars each alternately once in a month for a fortnight. Venus is bereft of any magnetism while Moon and Mars have traces of magnetism with patches of rocks and can be considered as two permanent magnets. The attraction and repulsion between Moon and Mars help in panspermia origin of living cells with sex chromosomes, male (X, Y) and female (X, X). Earth's Moon with a Rotation period of

27.32 days faces Mars for a fortnight. Mars Rotation period is only 24.66 hours. Thus, Mars with its magnetic poles faces Moon of different polarity alternately plausibly causes repulsion or attraction, leading to origin of either (X, X) or (X, Y) chromosome in the cell in 'Panspermia Origin of Life' for evolution and proliferation of life on Earth later [Figure 3](#). [Sastry \(1995\)](#), [Rao \(2017\)](#), [Sastry \(1995\)](#), [Rao \(2021\)](#), [Rao \(2017\)](#), [Rao \(2019\)](#), [Rao \(2021\)](#), [Rao \(2021\)](#).

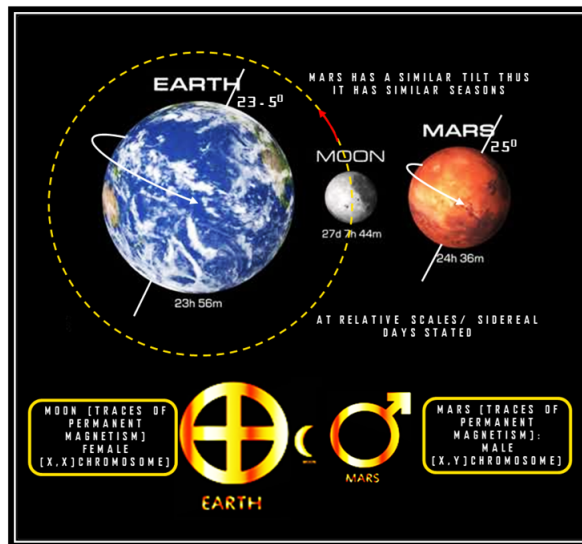


Figure 3 The attraction and repulsion between Moon and Mars help in the 'Panspermia Origin of Life' itself with of living cells with male (X, Y) or female (X, X).

8.1. PRINCIPLE OF ABSTRACTION

The first step in abstraction requires a representation of a phenomenon through a number. If two phenomena have the same number assigned to them, then the two phenomena are said to be true. The 7 celestial bodies of solar system, 27 Lunar Mansions lying in the Zodiac Belt and the 12 Zodiacal Signs adapted in 'Jyotish' for its studies sum up to a total of 46 in number, signify the gender of the child. In Human Physiology, the total number of chromosomes including the sex chromosome are 46 (23 pairs). Thus, the two phenomena are true. Yet and more interestingly, the classification chromosomes into 3 Groups based on their size, large, medium, and small match exactly with the 3 Groups of celestial bodies, Planets, Zodiacal Signs and Lunar Constellations [Rao \(2021\)](#).

9. RESULTS

The Oparin-Haldane hypothesis suggests that life arose gradually from inorganic molecules, with "building blocks" like amino acids forming first and then combining to make complex polymers. The **Miller-Urey** experiment provided the first evidence that organic molecules needed for life could be formed from inorganic components.

All the elements of inorganic chemistry are available in the universe given out by the stars during their life cycles. All the life building blocks of inorganic chemistry are transformed into biological molecules under abiotic conditions for building the body frame. This is evidenced by the fact that all these life building blocks including Sugars for RNA are found in Meteorites and totally defeats the general notion of an "RNA world" is that origin of life is on the Earth. All life building blocks are available as readymade kits for 'Panspermia Origin of Life' under the influence of planetary

magnetic fields with their usual vibrations, frequencies, and energies of the total solar system. This clearly suggests that the sun and its magnetism is the sole criterion in the panspermia origin of life, and in the form of sunlight (electromagnetism) in Evolution of all living on Earth.

Space dust may transport life between worlds, research suggests. The hypervelocity space dust, which is continuously bombarding Earth. creates immense momentum flows in the atmosphere interacting with it transferring energy. An interesting outcome of this collision scenario is assessed of the capability of this space dust collision mechanism to propel some of these biological constituents and living cells into space including to the earth. Life on Earth might have originated from tiny organisms brought to our planet in streams of fast-moving space dust, according to a new study [Rao \(2021\)](#). Accordingly, the living cells are brought to Earth, a unique planet which prevents harmful rays from reaching the Earth where flora and fauna flourish. The mechanism involved in the Panspermia Origin of Life with information encoded in DNA in origin is decoded in Evolution [Berera \(2017\)](#), [Rao \(2021\)](#), [Rao \(2019\)](#) [YVS \(2021\)](#).

Human beings are unique and fundamental to the earth's frequency of 7.83Hz. There is no such thing as 'matter' at all, but everything is energy; thus, matter is a lower form of energy and perceivable in the physical form. With increasing frequency of the other worlds in the universe and with increased frequency of the subtle body of the humans arising out of positivity, life exists in an astral form and unperceivable. Thus, there is more intelligent life elsewhere in the universe in astral form and unperceivable [Rao \(2020\)](#). Transcendental consciousness in tune with the God Equation $E= mc^2$ [Rao \(2020\)](#) enable human beings to obtain liberation from endless death-birth cycles and merge in the absolute [Rao \(2021\)](#), known as 'Home Coming' in the words of Rabindranath Tagore. The following flowsheet of 'Advanced Panspermia Origin of Life' is self-explanatory [Figure 4](#).

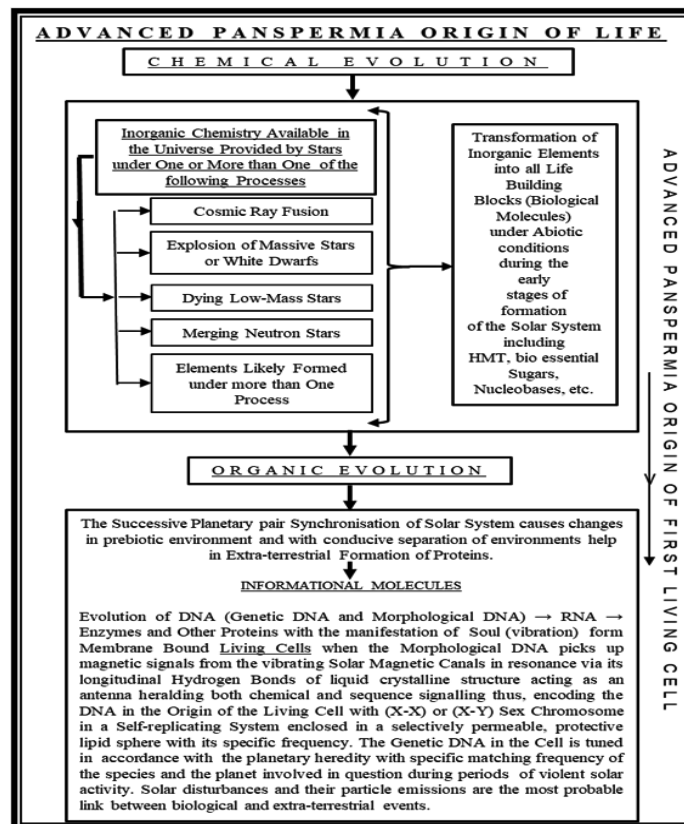


Figure 4 Flow Diagram of Advanced Panspermia Origin of Life.

10. CONCLUSION

Electromagnetism with its usual frequencies, wavelengths and Energy is the sole criterion in the 'Origin of Life' and 'Evolution'. Solar disturbances and their particle emissions are the most probable link between biological and extra-terrestrial events. The living cells of the Panspermia Origin' manufactured complete in all respects, without the need to manufacture anything here on the Earth, are probably propelled to the Earth for subsequent evolution and proliferation. Once life exists on earth, proliferation takes place till the whole planet is filled on the simple principle of life gives life.

"Origin of Life" of all species in accordance with Geological Time Scale is exclusively extra-terrestrial while the Earth is exclusive and unique for 'Evolution' of all life. Life as a human being endowed with intellect is the ultimate and human beings arrived on the Earth only 2 million years' ago. Hinduism holds that even souls do evolve from one life to another of higher order to the point of liberation from endless cycle of births and deaths through positivity raising the frequency of the subtle body to the highest value fundamental to the Brahma Loka of 4.32 billion earth years, being also the age of the earth. It is not only the cyclic nature of the universe but also the cyclic origin of life in the same sequence as deciphered in the Geological Time Scale true to the Ten Incarnations of the Almighty in Hinduism in tune with the Moore's Law of Genetic Complexity Rao (2021), Rao (2020), Richard and Alexei (2013). Many a great scientist of our age, Sir Arthur Holmes Albert Einstein, Carl Sagan, and a few others have applauded the ancient Hindus for their uncanny ability and their excellence in all subjects that afforded the largest field for abstraction and contemplation. It was therefore left to such people to perfect all the sciences.

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